

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

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

| Band: 12 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                       |            |           |         |         |
|-------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                     |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                                | 699.7           | 1             | 0      | 24.21                 | -5.30      | 16.76     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.23                 | -5.30      | 16.78     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 24.12                 | -5.30      | 16.67     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 24.16                 | -5.30      | 16.71     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.20                 | -5.30      | 16.75     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 24.17                 | -5.30      | 16.72     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 23.37                 | -5.30      | 15.92     | <=34.77 | Pass    |
|                                     | 707.5           | 1             | 0      | 24.19                 | -5.30      | 16.74     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.20                 | -5.30      | 16.75     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 24.15                 | -5.30      | 16.70     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 24.15                 | -5.30      | 16.70     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.15                 | -5.30      | 16.70     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 24.15                 | -5.30      | 16.70     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 23.27                 | -5.30      | 15.82     | <=34.77 | Pass    |
|                                     | 715.3           | 1             | 0      | 24.04                 | -5.30      | 16.59     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.09                 | -5.30      | 16.64     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 24.08                 | -5.30      | 16.63     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 24.05                 | -5.30      | 16.60     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.01                 | -5.30      | 16.56     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 24.02                 | -5.30      | 16.57     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 23.24                 | -5.30      | 15.79     | <=34.77 | Pass    |
| 16QAM                               | 699.7           | 1             | 0      | 23.51                 | -5.30      | 16.06     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.45                 | -5.30      | 16.00     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 23.54                 | -5.30      | 16.09     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 23.46                 | -5.30      | 16.01     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.44                 | -5.30      | 15.99     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 23.43                 | -5.30      | 15.98     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 22.38                 | -5.30      | 14.93     | <=34.77 | Pass    |
|                                     | 707.5           | 1             | 0      | 23.48                 | -5.30      | 16.03     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.53                 | -5.30      | 16.08     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 23.52                 | -5.30      | 16.07     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 23.38                 | -5.30      | 15.93     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.39                 | -5.30      | 15.94     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 23.40                 | -5.30      | 15.95     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 22.27                 | -5.30      | 14.82     | <=34.77 | Pass    |
|                                     | 715.3           | 1             | 0      | 23.38                 | -5.30      | 15.93     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.45                 | -5.30      | 16.00     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 23.42                 | -5.30      | 15.97     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 23.39                 | -5.30      | 15.94     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.40                 | -5.30      | 15.95     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 23.36                 | -5.30      | 15.91     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 22.29                 | -5.30      | 14.84     | <=34.77 | Pass    |
| 64QAM                               | 699.7           | 1             | 0      | 22.49                 | -5.30      | 15.04     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 22.54                 | -5.30      | 15.09     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 22.44                 | -5.30      | 14.99     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 22.42                 | -5.30      | 14.97     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 22.46                 | -5.30      | 15.01     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 22.42                 | -5.30      | 14.97     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 21.37                 | -5.30      | 13.92     | <=34.77 | Pass    |

|  |       |   |   |       |       |       |         |      |
|--|-------|---|---|-------|-------|-------|---------|------|
|  | 707.5 | 1 | 0 | 22.50 | -5.30 | 15.05 | <=34.77 | Pass |
|  |       |   | 2 | 22.52 | -5.30 | 15.07 | <=34.77 | Pass |
|  |       |   | 5 | 22.52 | -5.30 | 15.07 | <=34.77 | Pass |
|  |       | 3 | 0 | 22.41 | -5.30 | 14.96 | <=34.77 | Pass |
|  |       |   | 2 | 22.46 | -5.30 | 15.01 | <=34.77 | Pass |
|  |       |   | 3 | 22.42 | -5.30 | 14.97 | <=34.77 | Pass |
|  | 715.3 | 6 | 0 | 21.28 | -5.30 | 13.83 | <=34.77 | Pass |
|  |       |   | 0 | 22.48 | -5.30 | 15.03 | <=34.77 | Pass |
|  |       |   | 2 | 22.59 | -5.30 | 15.14 | <=34.77 | Pass |
|  |       | 1 | 5 | 22.45 | -5.30 | 15.00 | <=34.77 | Pass |
|  |       |   | 0 | 22.34 | -5.30 | 14.89 | <=34.77 | Pass |
|  |       |   | 2 | 22.38 | -5.30 | 14.93 | <=34.77 | Pass |
|  |       | 3 | 3 | 22.34 | -5.30 | 14.89 | <=34.77 | Pass |
|  |       |   | 0 | 21.24 | -5.30 | 13.79 | <=34.77 | Pass |
|  |       |   | 0 |       |       |       |         |      |

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.2 B12\_3MHz\_ERP

| Band: 12 / Bandwidth: 3MHz / NTNV |                 |               |        |                       |            |           |         |         |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                   |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                              | 700.5           | 1             | 0      | 24.11                 | -5.30      | 16.66     | <=34.77 | Pass    |
|                                   |                 |               | 7      | 24.22                 | -5.30      | 16.77     | <=34.77 | Pass    |
|                                   |                 |               | 14     | 24.08                 | -5.30      | 16.63     | <=34.77 | Pass    |
|                                   |                 | 8             | 0      | 23.29                 | -5.30      | 15.84     | <=34.77 | Pass    |
|                                   |                 |               | 4      | 23.43                 | -5.30      | 15.98     | <=34.77 | Pass    |
|                                   |                 |               | 7      | 23.39                 | -5.30      | 15.94     | <=34.77 | Pass    |
|                                   |                 | 15            | 0      | 23.40                 | -5.30      | 15.95     | <=34.77 | Pass    |
|                                   | 707.5           | 1             | 0      | 24.14                 | -5.30      | 16.69     | <=34.77 | Pass    |
|                                   |                 |               | 7      | 24.23                 | -5.30      | 16.78     | <=34.77 | Pass    |
|                                   |                 |               | 14     | 24.15                 | -5.30      | 16.70     | <=34.77 | Pass    |
|                                   |                 | 8             | 0      | 23.33                 | -5.30      | 15.88     | <=34.77 | Pass    |
|                                   |                 |               | 4      | 23.40                 | -5.30      | 15.95     | <=34.77 | Pass    |
|                                   |                 |               | 7      | 23.37                 | -5.30      | 15.92     | <=34.77 | Pass    |
|                                   |                 | 15            | 0      | 23.30                 | -5.30      | 15.85     | <=34.77 | Pass    |
|                                   | 714.5           | 1             | 0      | 24.05                 | -5.30      | 16.60     | <=34.77 | Pass    |
|                                   |                 |               | 7      | 24.13                 | -5.30      | 16.68     | <=34.77 | Pass    |
|                                   |                 |               | 14     | 24.04                 | -5.30      | 16.59     | <=34.77 | Pass    |
|                                   |                 | 8             | 0      | 23.23                 | -5.30      | 15.78     | <=34.77 | Pass    |
|                                   |                 |               | 4      | 23.34                 | -5.30      | 15.89     | <=34.77 | Pass    |
|                                   |                 |               | 7      | 23.27                 | -5.30      | 15.82     | <=34.77 | Pass    |
|                                   |                 | 15            | 0      | 23.23                 | -5.30      | 15.78     | <=34.77 | Pass    |
| 16QAM                             | 700.5           | 1             | 0      | 23.50                 | -5.30      | 16.05     | <=34.77 | Pass    |
|                                   |                 |               | 7      | 23.59                 | -5.30      | 16.14     | <=34.77 | Pass    |
|                                   |                 |               | 14     | 23.51                 | -5.30      | 16.06     | <=34.77 | Pass    |
|                                   |                 | 8             | 0      | 22.36                 | -5.30      | 14.91     | <=34.77 | Pass    |
|                                   |                 |               | 4      | 22.45                 | -5.30      | 15.00     | <=34.77 | Pass    |
|                                   |                 |               | 7      | 22.41                 | -5.30      | 14.96     | <=34.77 | Pass    |
|                                   |                 | 15            | 0      | 22.38                 | -5.30      | 14.93     | <=34.77 | Pass    |
|                                   | 707.5           | 1             | 0      | 23.47                 | -5.30      | 16.02     | <=34.77 | Pass    |
|                                   |                 |               | 7      | 23.56                 | -5.30      | 16.11     | <=34.77 | Pass    |
|                                   |                 |               | 14     | 23.44                 | -5.30      | 15.99     | <=34.77 | Pass    |
|                                   |                 | 8             | 0      | 22.34                 | -5.30      | 14.89     | <=34.77 | Pass    |
|                                   |                 |               | 4      | 22.42                 | -5.30      | 14.97     | <=34.77 | Pass    |
|                                   |                 |               | 7      | 22.41                 | -5.30      | 14.96     | <=34.77 | Pass    |
|                                   |                 | 15            | 0      | 22.34                 | -5.30      | 14.89     | <=34.77 | Pass    |
|                                   | 714.5           | 1             | 0      | 23.43                 | -5.30      | 15.98     | <=34.77 | Pass    |

|                                              |       |    |       |       |       |         |         |      |
|----------------------------------------------|-------|----|-------|-------|-------|---------|---------|------|
|                                              |       | 8  | 7     | 23.46 | -5.30 | 16.01   | <=34.77 | Pass |
|                                              |       |    | 14    | 23.35 | -5.30 | 15.90   | <=34.77 | Pass |
|                                              |       |    | 0     | 22.24 | -5.30 | 14.79   | <=34.77 | Pass |
|                                              |       | 15 | 4     | 22.38 | -5.30 | 14.93   | <=34.77 | Pass |
|                                              |       |    | 7     | 22.31 | -5.30 | 14.86   | <=34.77 | Pass |
|                                              |       |    | 0     | 22.25 | -5.30 | 14.80   | <=34.77 | Pass |
| 64QAM                                        | 700.5 | 1  | 0     | 22.46 | -5.30 | 15.01   | <=34.77 | Pass |
|                                              |       |    | 7     | 22.57 | -5.30 | 15.12   | <=34.77 | Pass |
|                                              |       |    | 14    | 22.42 | -5.30 | 14.97   | <=34.77 | Pass |
|                                              |       | 8  | 0     | 21.37 | -5.30 | 13.92   | <=34.77 | Pass |
|                                              |       |    | 4     | 21.49 | -5.30 | 14.04   | <=34.77 | Pass |
|                                              |       |    | 7     | 21.38 | -5.30 | 13.93   | <=34.77 | Pass |
|                                              | 15    | 0  | 21.43 | -5.30 | 13.98 | <=34.77 | Pass    |      |
|                                              | 707.5 | 1  | 0     | 22.41 | -5.30 | 14.96   | <=34.77 | Pass |
|                                              |       |    | 7     | 22.64 | -5.30 | 15.19   | <=34.77 | Pass |
|                                              |       |    | 14    | 22.50 | -5.30 | 15.05   | <=34.77 | Pass |
|                                              |       | 8  | 0     | 21.30 | -5.30 | 13.85   | <=34.77 | Pass |
|                                              |       |    | 4     | 21.49 | -5.30 | 14.04   | <=34.77 | Pass |
|                                              |       |    | 7     | 21.40 | -5.30 | 13.95   | <=34.77 | Pass |
|                                              | 15    | 0  | 21.34 | -5.30 | 13.89 | <=34.77 | Pass    |      |
|                                              | 714.5 | 1  | 0     | 22.44 | -5.30 | 14.99   | <=34.77 | Pass |
|                                              |       |    | 7     | 22.57 | -5.30 | 15.12   | <=34.77 | Pass |
|                                              |       |    | 14    | 22.48 | -5.30 | 15.03   | <=34.77 | Pass |
|                                              |       | 8  | 0     | 21.25 | -5.30 | 13.80   | <=34.77 | Pass |
|                                              |       |    | 4     | 21.31 | -5.30 | 13.86   | <=34.77 | Pass |
|                                              |       |    | 7     | 21.41 | -5.30 | 13.96   | <=34.77 | Pass |
|                                              | 15    | 0  | 21.24 | -5.30 | 13.79 | <=34.77 | Pass    |      |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |       |    |       |       |       |         |         |      |

### 1.1.3 B12\_5MHz\_ERP

| Band: 12 / Bandwidth: 5MHz / NTNV |                 |               |        |                       |            |           |         |         |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                   |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                              | 701.5           | 1             | 0      | 24.18                 | -5.30      | 16.73     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 24.33                 | -5.30      | 16.88     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 24.18                 | -5.30      | 16.73     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 23.35                 | -5.30      | 15.90     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 23.45                 | -5.30      | 16.00     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.39                 | -5.30      | 15.94     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 23.38                 | -5.30      | 15.93     | <=34.77 | Pass    |
|                                   | 707.5           | 1             | 0      | 24.16                 | -5.30      | 16.71     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 24.24                 | -5.30      | 16.79     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 24.15                 | -5.30      | 16.70     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 23.34                 | -5.30      | 15.89     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 23.34                 | -5.30      | 15.89     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.40                 | -5.30      | 15.95     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 23.31                 | -5.30      | 15.86     | <=34.77 | Pass    |
|                                   | 713.5           | 1             | 0      | 24.10                 | -5.30      | 16.65     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 24.27                 | -5.30      | 16.82     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 24.10                 | -5.30      | 16.65     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 23.28                 | -5.30      | 15.83     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 23.33                 | -5.30      | 15.88     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.30                 | -5.30      | 15.85     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 23.31                 | -5.30      | 15.86     | <=34.77 | Pass    |
| 16QAM                             | 701.5           | 1             | 0      | 23.49                 | -5.30      | 16.04     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.55                 | -5.30      | 16.10     | <=34.77 | Pass    |

|                                              |       |       |       |       |       |         |         |         |      |
|----------------------------------------------|-------|-------|-------|-------|-------|---------|---------|---------|------|
|                                              |       | 12    | 24    | 23.42 | -5.30 | 15.97   | <=34.77 | Pass    |      |
|                                              |       |       | 0     | 22.33 | -5.30 | 14.88   | <=34.77 | Pass    |      |
|                                              |       |       | 6     | 22.46 | -5.30 | 15.01   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 22.34 | -5.30 | 14.89   | <=34.77 | Pass    |      |
|                                              |       | 25    | 0     | 22.40 | -5.30 | 14.95   | <=34.77 | Pass    |      |
|                                              | 707.5 | 1     | 0     | 23.53 | -5.30 | 16.08   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 23.60 | -5.30 | 16.15   | <=34.77 | Pass    |      |
|                                              |       |       | 24    | 23.49 | -5.30 | 16.04   | <=34.77 | Pass    |      |
|                                              |       | 12    | 0     | 22.34 | -5.30 | 14.89   | <=34.77 | Pass    |      |
|                                              |       |       | 6     | 22.37 | -5.30 | 14.92   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 22.40 | -5.30 | 14.95   | <=34.77 | Pass    |      |
|                                              |       | 25    | 0     | 22.36 | -5.30 | 14.91   | <=34.77 | Pass    |      |
|                                              |       | 713.5 | 1     | 0     | 23.50 | -5.30   | 16.05   | <=34.77 | Pass |
|                                              | 13    |       |       | 23.58 | -5.30 | 16.13   | <=34.77 | Pass    |      |
|                                              | 24    |       |       | 23.41 | -5.30 | 15.96   | <=34.77 | Pass    |      |
|                                              | 12    |       | 0     | 22.18 | -5.30 | 14.73   | <=34.77 | Pass    |      |
|                                              |       |       | 6     | 22.44 | -5.30 | 14.99   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 22.29 | -5.30 | 14.84   | <=34.77 | Pass    |      |
|                                              | 25    | 0     | 22.33 | -5.30 | 14.88 | <=34.77 | Pass    |         |      |
|                                              | 64QAM | 701.5 | 1     | 0     | 22.53 | -5.30   | 15.08   | <=34.77 | Pass |
|                                              |       |       |       | 13    | 22.55 | -5.30   | 15.10   | <=34.77 | Pass |
| 24                                           |       |       |       | 22.54 | -5.30 | 15.09   | <=34.77 | Pass    |      |
| 12                                           |       |       | 0     | 21.33 | -5.30 | 13.88   | <=34.77 | Pass    |      |
|                                              |       |       | 6     | 21.46 | -5.30 | 14.01   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 21.41 | -5.30 | 13.96   | <=34.77 | Pass    |      |
| 25                                           |       | 0     | 21.43 | -5.30 | 13.98 | <=34.77 | Pass    |         |      |
| 707.5                                        |       | 1     | 0     | 22.55 | -5.30 | 15.10   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 22.62 | -5.30 | 15.17   | <=34.77 | Pass    |      |
|                                              |       |       | 24    | 22.46 | -5.30 | 15.01   | <=34.77 | Pass    |      |
|                                              |       | 12    | 0     | 21.37 | -5.30 | 13.92   | <=34.77 | Pass    |      |
|                                              |       |       | 6     | 21.38 | -5.30 | 13.93   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 21.39 | -5.30 | 13.94   | <=34.77 | Pass    |      |
| 25                                           |       | 0     | 21.34 | -5.30 | 13.89 | <=34.77 | Pass    |         |      |
| 713.5                                        |       | 1     | 0     | 22.34 | -5.30 | 14.89   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 22.52 | -5.30 | 15.07   | <=34.77 | Pass    |      |
|                                              |       |       | 24    | 22.30 | -5.30 | 14.85   | <=34.77 | Pass    |      |
|                                              |       | 12    | 0     | 21.29 | -5.30 | 13.84   | <=34.77 | Pass    |      |
|                                              |       |       | 6     | 21.38 | -5.30 | 13.93   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 21.33 | -5.30 | 13.88   | <=34.77 | Pass    |      |
| 25                                           |       | 0     | 21.30 | -5.30 | 13.85 | <=34.77 | Pass    |         |      |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |       |       |       |       |       |         |         |         |      |

#### 1.1.4 B12\_10MHz\_ERP

| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                       |            |           |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                               | 704             | 1             | 0      | 24.25                 | -5.30      | 16.80     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 24.23                 | -5.30      | 16.78     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 24.08                 | -5.30      | 16.63     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 23.41                 | -5.30      | 15.96     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 23.46                 | -5.30      | 16.01     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 23.37                 | -5.30      | 15.92     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 23.44                 | -5.30      | 15.99     | <=34.77 | Pass    |
|                                    | 707.5           | 1             | 0      | 24.25                 | -5.30      | 16.80     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 24.23                 | -5.30      | 16.78     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 24.06                 | -5.30      | 16.61     | <=34.77 | Pass    |

|       |       |                                              |       |       |         |         |         |         |         |         |      |
|-------|-------|----------------------------------------------|-------|-------|---------|---------|---------|---------|---------|---------|------|
|       |       | 25                                           | 0     | 23.35 | -5.30   | 15.90   | <=34.77 | Pass    |         |         |      |
|       |       |                                              | 13    | 23.45 | -5.30   | 16.00   | <=34.77 | Pass    |         |         |      |
|       |       |                                              | 25    | 23.35 | -5.30   | 15.90   | <=34.77 | Pass    |         |         |      |
|       |       | 711                                          | 50    | 0     | 23.36   | -5.30   | 15.91   | <=34.77 | Pass    |         |      |
|       |       |                                              |       | 1     | 0       | 24.26   | -5.30   | 16.81   | <=34.77 | Pass    |      |
|       |       |                                              |       |       | 25      | 24.21   | -5.30   | 16.76   | <=34.77 | Pass    |      |
|       |       |                                              | 49    |       | 24.05   | -5.30   | 16.60   | <=34.77 | Pass    |         |      |
|       |       |                                              | 25    | 0     | 23.35   | -5.30   | 15.90   | <=34.77 | Pass    |         |      |
|       |       |                                              |       | 13    | 23.41   | -5.30   | 15.96   | <=34.77 | Pass    |         |      |
|       | 25    |                                              |       | 23.34 | -5.30   | 15.89   | <=34.77 | Pass    |         |         |      |
|       | 50    |                                              |       | 0     | 23.38   | -5.30   | 15.93   | <=34.77 | Pass    |         |      |
|       |       |                                              |       |       |         |         |         |         |         |         |      |
| 16QAM | 704   | 1                                            | 0     | 23.62 | -5.30   | 16.17   | <=34.77 | Pass    |         |         |      |
|       |       |                                              | 25    | 23.58 | -5.30   | 16.13   | <=34.77 | Pass    |         |         |      |
|       |       |                                              | 49    | 23.43 | -5.30   | 15.98   | <=34.77 | Pass    |         |         |      |
|       |       | 25                                           | 0     | 22.41 | -5.30   | 14.96   | <=34.77 | Pass    |         |         |      |
|       |       |                                              | 13    | 22.49 | -5.30   | 15.04   | <=34.77 | Pass    |         |         |      |
|       |       |                                              | 25    | 22.42 | -5.30   | 14.97   | <=34.77 | Pass    |         |         |      |
|       |       |                                              | 50    | 0     | 22.43   | -5.30   | 14.98   | <=34.77 | Pass    |         |      |
|       |       |                                              | 707.5 | 1     | 0       | 23.66   | -5.30   | 16.21   | <=34.77 | Pass    |      |
|       |       |                                              |       |       | 25      | 23.53   | -5.30   | 16.08   | <=34.77 | Pass    |      |
|       | 49    | 23.46                                        |       |       | -5.30   | 16.01   | <=34.77 | Pass    |         |         |      |
|       | 25    | 0                                            |       | 22.41 | -5.30   | 14.96   | <=34.77 | Pass    |         |         |      |
|       |       | 13                                           |       | 22.44 | -5.30   | 14.99   | <=34.77 | Pass    |         |         |      |
|       |       | 25                                           |       | 22.38 | -5.30   | 14.93   | <=34.77 | Pass    |         |         |      |
|       | 50    | 0                                            | 22.30 | -5.30 | 14.85   | <=34.77 | Pass    |         |         |         |      |
|       | 711   | 1                                            | 0     | 23.63 | -5.30   | 16.18   | <=34.77 | Pass    |         |         |      |
|       |       |                                              | 25    | 23.52 | -5.30   | 16.07   | <=34.77 | Pass    |         |         |      |
|       |       |                                              | 49    | 23.34 | -5.30   | 15.89   | <=34.77 | Pass    |         |         |      |
|       |       | 25                                           | 0     | 22.37 | -5.30   | 14.92   | <=34.77 | Pass    |         |         |      |
|       |       |                                              | 13    | 22.41 | -5.30   | 14.96   | <=34.77 | Pass    |         |         |      |
|       |       |                                              | 25    | 22.34 | -5.30   | 14.89   | <=34.77 | Pass    |         |         |      |
|       |       |                                              | 50    | 0     | 22.36   | -5.30   | 14.91   | <=34.77 | Pass    |         |      |
|       |       |                                              | 64QAM | 704   | 1       | 0       | 22.57   | -5.30   | 15.12   | <=34.77 | Pass |
|       |       |                                              |       |       |         | 25      | 22.56   | -5.30   | 15.11   | <=34.77 | Pass |
|       | 49    | 22.42                                        |       |       |         | -5.30   | 14.97   | <=34.77 | Pass    |         |      |
| 25    | 0     | 21.40                                        |       |       | -5.30   | 13.95   | <=34.77 | Pass    |         |         |      |
|       | 13    | 21.44                                        |       |       | -5.30   | 13.99   | <=34.77 | Pass    |         |         |      |
|       | 25    | 21.39                                        |       |       | -5.30   | 13.94   | <=34.77 | Pass    |         |         |      |
|       | 50    | 0                                            |       |       | 21.43   | -5.30   | 13.98   | <=34.77 | Pass    |         |      |
|       | 707.5 | 1                                            |       |       | 0       | 22.71   | -5.30   | 15.26   | <=34.77 | Pass    |      |
|       |       |                                              |       |       | 25      | 22.57   | -5.30   | 15.12   | <=34.77 | Pass    |      |
| 49    |       |                                              |       | 22.38 | -5.30   | 14.93   | <=34.77 | Pass    |         |         |      |
| 25    |       | 0                                            |       | 21.38 | -5.30   | 13.93   | <=34.77 | Pass    |         |         |      |
|       |       | 13                                           |       | 21.43 | -5.30   | 13.98   | <=34.77 | Pass    |         |         |      |
|       |       | 25                                           | 21.35 | -5.30 | 13.90   | <=34.77 | Pass    |         |         |         |      |
| 50    | 0     | 21.33                                        | -5.30 | 13.88 | <=34.77 | Pass    |         |         |         |         |      |
| 711   | 1     | 0                                            | 22.68 | -5.30 | 15.23   | <=34.77 | Pass    |         |         |         |      |
|       |       | 25                                           | 22.65 | -5.30 | 15.20   | <=34.77 | Pass    |         |         |         |      |
|       |       | 49                                           | 22.47 | -5.30 | 15.02   | <=34.77 | Pass    |         |         |         |      |
|       | 25    | 0                                            | 21.36 | -5.30 | 13.91   | <=34.77 | Pass    |         |         |         |      |
|       |       | 13                                           | 21.39 | -5.30 | 13.94   | <=34.77 | Pass    |         |         |         |      |
|       |       | 25                                           | 21.33 | -5.30 | 13.88   | <=34.77 | Pass    |         |         |         |      |
|       |       | 50                                           | 0     | 21.36 | -5.30   | 13.91   | <=34.77 | Pass    |         |         |      |
|       |       | Note1: ERP=Conducted Power+Antenna Gain-2.15 |       |       |         |         |         |         |         |         |      |

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B12\_1.4MHz

| Band: 12 / Bandwidth: 1.4MHz |                 |               |        |            |               |                  |                       |             |         |
|------------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                   | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                              |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                         | 699.7           | 6             | 0      | 20         | 3.6           | -15.659          | -0.0224               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.92          | -7.423           | -0.0106               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.53          | -3.131           | -0.0045               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.92          | -1.261           | -0.0018               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.92          | -0.636           | -0.0009               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.92          | -0.283           | -0.0004               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.92          | -1.379           | -0.0020               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 3.92          | -0.208           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 3.92          | -0.553           | -0.0008               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 3.92          | -0.729           | -0.0010               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 3.92          | -0.506           | -0.0007               | -2.5 to 2.5 | Pass    |
|                              | 707.5           | 6             | 0      | 20         | 3.6           | 14.433           | 0.0204                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.92          | 7.961            | 0.0113                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.53          | 4.741            | 0.0067                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.92          | 1.427            | 0.0020                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.92          | 0.433            | 0.0006                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.92          | 0.558            | 0.0008                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.92          | 0.624            | 0.0009                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 3.92          | -0.126           | -0.0002               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 3.92          | -0.525           | -0.0007               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 3.92          | -0.163           | -0.0002               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 3.92          | -0.107           | -0.0002               | -2.5 to 2.5 | Pass    |
|                              | 715.3           | 6             | 0      | 20         | 3.6           | -15.781          | -0.0221               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.92          | -7.236           | -0.0101               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.53          | -3.307           | -0.0046               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.92          | -2.232           | -0.0031               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.92          | -0.772           | -0.0011               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.92          | -0.725           | -0.0010               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.92          | -0.779           | -0.0011               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 3.92          | -0.769           | -0.0011               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 3.92          | -0.798           | -0.0011               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 3.92          | -0.806           | -0.0011               | -2.5 to 2.5 | Pass    |
| 16QAM                        | 699.7           | 6             | 0      | 20         | 3.6           | -1.625           | -0.0023               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.92          | -1.000           | -0.0014               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.53          | -1.035           | -0.0015               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.92          | -0.213           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.92          | -0.635           | -0.0009               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.92          | -0.668           | -0.0010               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.92          | 0.067            | 0.0001                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 3.92          | -0.186           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 3.92          | -0.086           | -0.0001               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 3.92          | -0.122           | -0.0002               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 3.92          | -0.442           | -0.0006               | -2.5 to 2.5 | Pass    |
|                              | 707.5           | 6             | 0      | 20         | 3.6           | -0.927           | -0.0013               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.92          | -0.202           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.53          | -1.374           | -0.0019               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.92          | -0.060           | -0.0001               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.92          | -0.004           | 0.0000                | -2.5 to 2.5 | Pass    |

|       |       |   |   |     |      |        |         |             |      |
|-------|-------|---|---|-----|------|--------|---------|-------------|------|
|       |       |   |   | -10 | 3.92 | -0.185 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.92 | -0.249 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.92 | 0.444  | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.92 | 0.210  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.92 | -0.232 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.92 | -0.557 | -0.0008 | -2.5 to 2.5 | Pass |
|       | 715.3 | 6 | 0 | 20  | 3.6  | -0.581 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.92 | -0.421 | -0.0006 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.53 | -0.746 | -0.0010 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.92 | -0.281 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.92 | -0.709 | -0.0010 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.92 | -0.562 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.92 | -0.094 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.92 | -1.116 | -0.0016 | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.92 | -0.346 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.92 | -0.342 | -0.0005 | -2.5 to 2.5 | Pass |
| 64QAM | 699.7 | 6 | 0 | 20  | 3.6  | -0.492 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.92 | -0.572 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.53 | -0.280 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.92 | -0.249 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.92 | -1.287 | -0.0018 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.92 | -1.483 | -0.0021 | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.92 | -0.323 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.92 | -1.273 | -0.0018 | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.92 | -0.549 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.92 | -0.228 | -0.0003 | -2.5 to 2.5 | Pass |
|       | 707.5 | 6 | 0 | 20  | 3.6  | -0.514 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.92 | -0.752 | -0.0011 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.53 | 0.362  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.92 | -0.590 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.92 | 0.025  | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.92 | -0.515 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.92 | 0.250  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.92 | 0.327  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.92 | -0.246 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.92 | -0.375 | -0.0005 | -2.5 to 2.5 | Pass |
|       | 715.3 | 6 | 0 | 20  | 3.6  | -0.490 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.92 | -0.528 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.53 | -1.414 | -0.0020 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.92 | -0.441 | -0.0006 | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.92 | -0.689 | -0.0010 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.92 | -0.336 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.92 | -0.572 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.92 | 1.066  | 0.0015  | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.92 | -0.672 | -0.0009 | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.92 | -0.327 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.92 | -0.331 | -0.0005 | -2.5 to 2.5 | Pass |

## 2.1.2 B12\_3MHz

| Band: 12 / Bandwidth: 3MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 700.5           | 15            | 0      | 20         | 3.6           | 1.037            | 0.0015                | -2.5 to 2.5 | Pass    |

|       |       |    |   |     |      |        |         |             |      |
|-------|-------|----|---|-----|------|--------|---------|-------------|------|
|       |       |    |   |     | 3.92 | 1.478  | 0.0021  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | 1.345  | 0.0019  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | 0.987  | 0.0014  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | 1.137  | 0.0016  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | 0.763  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | 0.065  | 0.0001  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | 0.775  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | 0.672  | 0.0010  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | 0.358  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.92 | 0.408  | 0.0006  | -2.5 to 2.5 | Pass |
|       | 707.5 | 15 | 0 | 20  | 3.6  | 0.266  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | 1.120  | 0.0016  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | 0.460  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | 0.616  | 0.0009  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | 1.175  | 0.0017  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | 0.742  | 0.0010  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | 0.593  | 0.0008  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | 0.892  | 0.0013  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | 1.043  | 0.0015  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | 1.276  | 0.0018  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.92 | 0.601  | 0.0008  | -2.5 to 2.5 | Pass |
|       | 714.5 | 15 | 0 | 20  | 3.6  | -0.192 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | 0.978  | 0.0014  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | 0.330  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | 0.300  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | 0.449  | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | 0.448  | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | 0.424  | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | 0.572  | 0.0008  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | 0.775  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | 1.138  | 0.0016  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.92 | 0.458  | 0.0006  | -2.5 to 2.5 | Pass |
| 16QAM | 700.5 | 15 | 0 | 20  | 3.6  | 0.805  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | 0.983  | 0.0014  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | 1.318  | 0.0019  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | 0.925  | 0.0013  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | 0.319  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | 0.359  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | -0.432 | -0.0006 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | 0.107  | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | -1.033 | -0.0015 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | -0.065 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.92 | -0.089 | -0.0001 | -2.5 to 2.5 | Pass |
|       | 707.5 | 15 | 0 | 20  | 3.6  | 1.171  | 0.0017  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | 1.467  | 0.0021  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | 1.167  | 0.0016  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | 1.261  | 0.0018  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | 0.714  | 0.0010  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | 1.556  | 0.0022  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | 1.271  | 0.0018  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | 1.116  | 0.0016  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | 1.107  | 0.0016  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | 0.795  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.92 | 0.739  | 0.0010  | -2.5 to 2.5 | Pass |
|       | 714.5 | 15 | 0 | 20  | 3.6  | 0.790  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | 1.236  | 0.0017  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 4.53 | 1.162  | 0.0016  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | 1.510  | 0.0021  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | 0.410  | 0.0006  | -2.5 to 2.5 | Pass |

|       |       |    |   |     |      |        |         |             |      |
|-------|-------|----|---|-----|------|--------|---------|-------------|------|
| 64QAM | 700.5 | 15 | 0 | -10 | 3.92 | 1.297  | 0.0018  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | 0.497  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | -0.188 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | 0.216  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | 1.274  | 0.0018  | -2.5 to 2.5 | Pass |
|       | 707.5 | 15 | 0 | 50  | 3.92 | 0.813  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   | 20  | 3.6  | -0.475 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | -0.937 | -0.0013 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | -0.952 | -0.0014 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | -0.570 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | -0.373 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | -0.336 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | -0.340 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | 0.068  | 0.0001  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | -0.751 | -0.0011 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | -0.620 | -0.0009 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.92 | -0.409 | -0.0006 | -2.5 to 2.5 | Pass |
|       |       | 15 | 0 | 20  | 3.6  | 0.503  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | 0.483  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | 1.266  | 0.0018  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | 0.825  | 0.0012  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | 0.711  | 0.0010  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | 0.036  | 0.0001  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | -0.255 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | -0.224 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | -0.084 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | -0.890 | -0.0013 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.92 | -0.406 | -0.0006 | -2.5 to 2.5 | Pass |
|       | 714.5 | 15 | 0 | 20  | 3.6  | -0.290 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | 0.688  | 0.0010  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | 0.324  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | 0.726  | 0.0010  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | 0.371  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | 0.005  | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | 0.206  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | -0.273 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | 0.609  | 0.0009  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | 0.213  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.92 | -0.601 | -0.0008 | -2.5 to 2.5 | Pass |

### 2.1.3 B12\_5MHz

| Band: 12 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 701.5           | 25            | 0      | 20         | 3.6           | 0.523            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.92          | 0.916            | 0.0013                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.53          | 0.922            | 0.0013                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.92          | 0.845            | 0.0012                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.92          | 2.346            | 0.0033                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.92          | 1.661            | 0.0024                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.92          | 1.724            | 0.0025                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.92          | 1.798            | 0.0026                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.92          | 0.305            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.92          | 1.054            | 0.0015                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.92          | 0.636            | 0.0009                | -2.5 to 2.5 | Pass    |
|                            | 707.5           | 25            | 0      | 20         | 3.6           | 2.117            | 0.0030                | -2.5 to 2.5 | Pass    |

|       |       |    |   |     |      |        |         |             |      |
|-------|-------|----|---|-----|------|--------|---------|-------------|------|
|       |       |    |   |     | 3.92 | 2.321  | 0.0033  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | 1.186  | 0.0017  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | 1.030  | 0.0015  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | 0.949  | 0.0013  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | 0.494  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | 0.851  | 0.0012  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | 0.803  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | 0.385  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | 1.065  | 0.0015  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.92 | 1.040  | 0.0015  | -2.5 to 2.5 | Pass |
|       | 713.5 | 25 | 0 | 20  | 3.6  | 0.648  | 0.0009  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | 0.608  | 0.0009  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | -0.165 | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | -0.704 | -0.0010 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | 0.225  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | 0.598  | 0.0008  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | -0.745 | -0.0010 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | -0.582 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | -0.012 | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | -0.074 | -0.0001 | -2.5 to 2.5 | Pass |
| 16QAM | 701.5 | 25 | 0 | 20  | 3.6  | 1.355  | 0.0019  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | 0.735  | 0.0010  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | -0.446 | -0.0006 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | -0.104 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | -0.044 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | -0.207 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | -0.237 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | -1.063 | -0.0015 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | -0.854 | -0.0012 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | -0.259 | -0.0004 | -2.5 to 2.5 | Pass |
|       | 707.5 | 25 | 0 | 20  | 3.6  | 0.483  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | -0.617 | -0.0009 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | -0.378 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | 0.452  | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | 0.420  | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | -0.115 | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | 0.738  | 0.0010  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | 0.229  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | 0.621  | 0.0009  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | 0.080  | 0.0001  | -2.5 to 2.5 | Pass |
|       | 713.5 | 25 | 0 | 20  | 3.6  | 0.529  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | 1.216  | 0.0017  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | 1.429  | 0.0020  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | -0.058 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | 0.449  | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | -0.113 | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | 0.383  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | 0.051  | 0.0001  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | -1.071 | -0.0015 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | 0.402  | 0.0006  | -2.5 to 2.5 | Pass |
| 64QAM | 701.5 | 25 | 0 | 20  | 3.6  | -0.005 | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | 0.255  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | -0.058 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | 0.187  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | 0.011  | 0.0000  | -2.5 to 2.5 | Pass |

|  |       |    |   |     |      |        |         |             |      |
|--|-------|----|---|-----|------|--------|---------|-------------|------|
|  |       |    |   | -10 | 3.92 | 0.031  | 0.0000  | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 3.92 | 0.006  | 0.0000  | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 3.92 | -0.262 | -0.0004 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 3.92 | -0.142 | -0.0002 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 3.92 | -0.236 | -0.0003 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 3.92 | -0.497 | -0.0007 | -2.5 to 2.5 | Pass |
|  | 707.5 | 25 | 0 | 20  | 3.6  | -0.679 | -0.0010 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 3.92 | -0.373 | -0.0005 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 4.53 | 0.207  | 0.0003  | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 3.92 | 0.786  | 0.0011  | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 3.92 | -0.171 | -0.0002 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 3.92 | -0.675 | -0.0010 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 3.92 | -0.402 | -0.0006 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 3.92 | -0.815 | -0.0012 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 3.92 | -1.643 | -0.0023 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 3.92 | -0.236 | -0.0003 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 3.92 | -0.481 | -0.0007 | -2.5 to 2.5 | Pass |
|  | 713.5 | 25 | 0 | 20  | 3.6  | -0.703 | -0.0010 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 3.92 | 0.305  | 0.0004  | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 4.53 | 0.636  | 0.0009  | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 3.92 | -0.365 | -0.0005 | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 3.92 | 0.274  | 0.0004  | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 3.92 | -0.156 | -0.0002 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 3.92 | -0.360 | -0.0005 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 3.92 | 0.117  | 0.0002  | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 3.92 | -0.421 | -0.0006 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 3.92 | -0.424 | -0.0006 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 3.92 | 0.132  | 0.0002  | -2.5 to 2.5 | Pass |

## 2.1.4 B12\_10MHz

| Band: 12 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 704             | 50            | 0      | 20         | 3.6           | -0.621           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.92          | 0.163            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.53          | 0.133            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.92          | -0.511           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.92          | -0.747           | -0.0011               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.92          | 0.464            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.92          | 0.707            | 0.0010                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.92          | 0.096            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.92          | -0.502           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.92          | -0.632           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.92          | 0.657            | 0.0009                | -2.5 to 2.5 | Pass    |
|                             | 707.5           | 50            | 0      | 20         | 3.6           | -0.107           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.92          | 0.216            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.53          | -0.257           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.92          | 0.030            | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.92          | -0.504           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.92          | -0.823           | -0.0012               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.92          | -0.083           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.92          | -0.308           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.92          | -0.365           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.92          | -0.021           | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.92          | -0.016           | 0.0000                | -2.5 to 2.5 | Pass    |
|                             | 711             | 50            | 0      | 20         | 3.6           | -0.339           | -0.0005               | -2.5 to 2.5 | Pass    |

|       |       |    |   |     |      |        |         |             |      |
|-------|-------|----|---|-----|------|--------|---------|-------------|------|
|       |       |    |   |     | 3.92 | -0.011 | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | -0.293 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | -0.600 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | 0.516  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | 0.370  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | -0.384 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | -0.276 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | -0.362 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | 0.183  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.92 | -0.758 | -0.0011 | -2.5 to 2.5 | Pass |
| 16QAM | 704   | 50 | 0 | 20  | 3.6  | -0.567 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | -0.286 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | -0.757 | -0.0011 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | 0.076  | 0.0001  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | 0.344  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | -1.018 | -0.0014 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | -0.683 | -0.0010 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | -0.361 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | -0.437 | -0.0006 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | 0.177  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.92 | 0.518  | 0.0007  | -2.5 to 2.5 | Pass |
|       | 707.5 | 50 | 0 | 20  | 3.6  | 0.133  | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | 0.008  | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | 0.715  | 0.0010  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | -0.245 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | -0.482 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | 0.283  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | -0.099 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | 0.260  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | 0.164  | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | 0.494  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.92 | 0.592  | 0.0008  | -2.5 to 2.5 | Pass |
|       | 711   | 50 | 0 | 20  | 3.6  | 0.745  | 0.0010  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | -0.505 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | 0.033  | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | 0.278  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | -0.632 | -0.0009 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | -0.489 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | 0.126  | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | 0.257  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | -1.045 | -0.0015 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | 0.256  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.92 | -0.106 | -0.0001 | -2.5 to 2.5 | Pass |
| 64QAM | 704   | 50 | 0 | 20  | 3.6  | -0.232 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | 0.402  | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | 0.948  | 0.0013  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | 0.778  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | -0.389 | -0.0006 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.92 | 0.822  | 0.0012  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.92 | 0.960  | 0.0014  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.92 | -0.137 | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.92 | 1.341  | 0.0019  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.92 | 0.182  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.92 | 0.162  | 0.0002  | -2.5 to 2.5 | Pass |
|       | 707.5 | 50 | 0 | 20  | 3.6  | 0.341  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.92 | -0.008 | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.53 | -0.208 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.92 | -0.180 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.92 | -0.380 | -0.0005 | -2.5 to 2.5 | Pass |

|  |     |    |   |     |      |        |         |             |      |
|--|-----|----|---|-----|------|--------|---------|-------------|------|
|  |     |    |   | -10 | 3.92 | 0.930  | 0.0013  | -2.5 to 2.5 | Pass |
|  |     |    |   | 0   | 3.92 | 0.599  | 0.0008  | -2.5 to 2.5 | Pass |
|  |     |    |   | 10  | 3.92 | 0.166  | 0.0002  | -2.5 to 2.5 | Pass |
|  |     |    |   | 30  | 3.92 | -0.360 | -0.0005 | -2.5 to 2.5 | Pass |
|  |     |    |   | 40  | 3.92 | -0.065 | -0.0001 | -2.5 to 2.5 | Pass |
|  |     |    |   | 50  | 3.92 | 0.305  | 0.0004  | -2.5 to 2.5 | Pass |
|  | 711 | 50 | 0 | 20  | 3.6  | -0.366 | -0.0005 | -2.5 to 2.5 | Pass |
|  |     |    |   |     | 3.92 | -0.678 | -0.0010 | -2.5 to 2.5 | Pass |
|  |     |    |   |     | 4.53 | 0.179  | 0.0003  | -2.5 to 2.5 | Pass |
|  |     |    |   | -30 | 3.92 | 0.355  | 0.0005  | -2.5 to 2.5 | Pass |
|  |     |    |   | -20 | 3.92 | -0.662 | -0.0009 | -2.5 to 2.5 | Pass |
|  |     |    |   | -10 | 3.92 | -1.001 | -0.0014 | -2.5 to 2.5 | Pass |
|  |     |    |   | 0   | 3.92 | -0.780 | -0.0011 | -2.5 to 2.5 | Pass |
|  |     |    |   | 10  | 3.92 | -0.288 | -0.0004 | -2.5 to 2.5 | Pass |
|  |     |    |   | 30  | 3.92 | -0.577 | -0.0008 | -2.5 to 2.5 | Pass |
|  |     |    |   | 40  | 3.92 | -1.092 | -0.0015 | -2.5 to 2.5 | Pass |
|  |     |    |   | 50  | 3.92 | 0.729  | 0.0010  | -2.5 to 2.5 | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band12\_OBW

| Band: 12 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 1.4             | QPSK       | 699.7           | 6             | 0      | 1.122                        | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.124                        | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.126                        | /     | Pass    |
|                 | 16QAM      | 699.7           | 6             | 0      | 1.131                        | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.121                        | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.126                        | /     | Pass    |
|                 | 64QAM      | 699.7           | 6             | 0      | 1.129                        | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.132                        | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.115                        | /     | Pass    |
| 3               | QPSK       | 700.5           | 15            | 0      | 2.750                        | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.755                        | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.758                        | /     | Pass    |
|                 | 16QAM      | 700.5           | 15            | 0      | 2.745                        | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.754                        | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.750                        | /     | Pass    |
|                 | 64QAM      | 700.5           | 15            | 0      | 2.750                        | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.753                        | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.757                        | /     | Pass    |
| 5               | QPSK       | 701.5           | 25            | 0      | 4.567                        | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 4.576                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.563                        | /     | Pass    |
|                 | 16QAM      | 701.5           | 25            | 0      | 4.557                        | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 4.593                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.581                        | /     | Pass    |
|                 | 64QAM      | 701.5           | 25            | 0      | 4.568                        | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 4.571                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.554                        | /     | Pass    |
| 10              | QPSK       | 704             | 50            | 0      | 9.047                        | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 9.048                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.082                        | /     | Pass    |
|                 | 16QAM      | 704             | 50            | 0      | 9.046                        | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 9.079                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.096                        | /     | Pass    |
|                 | 64QAM      | 704             | 50            | 0      | 9.045                        | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 9.064                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.088                        | /     | Pass    |

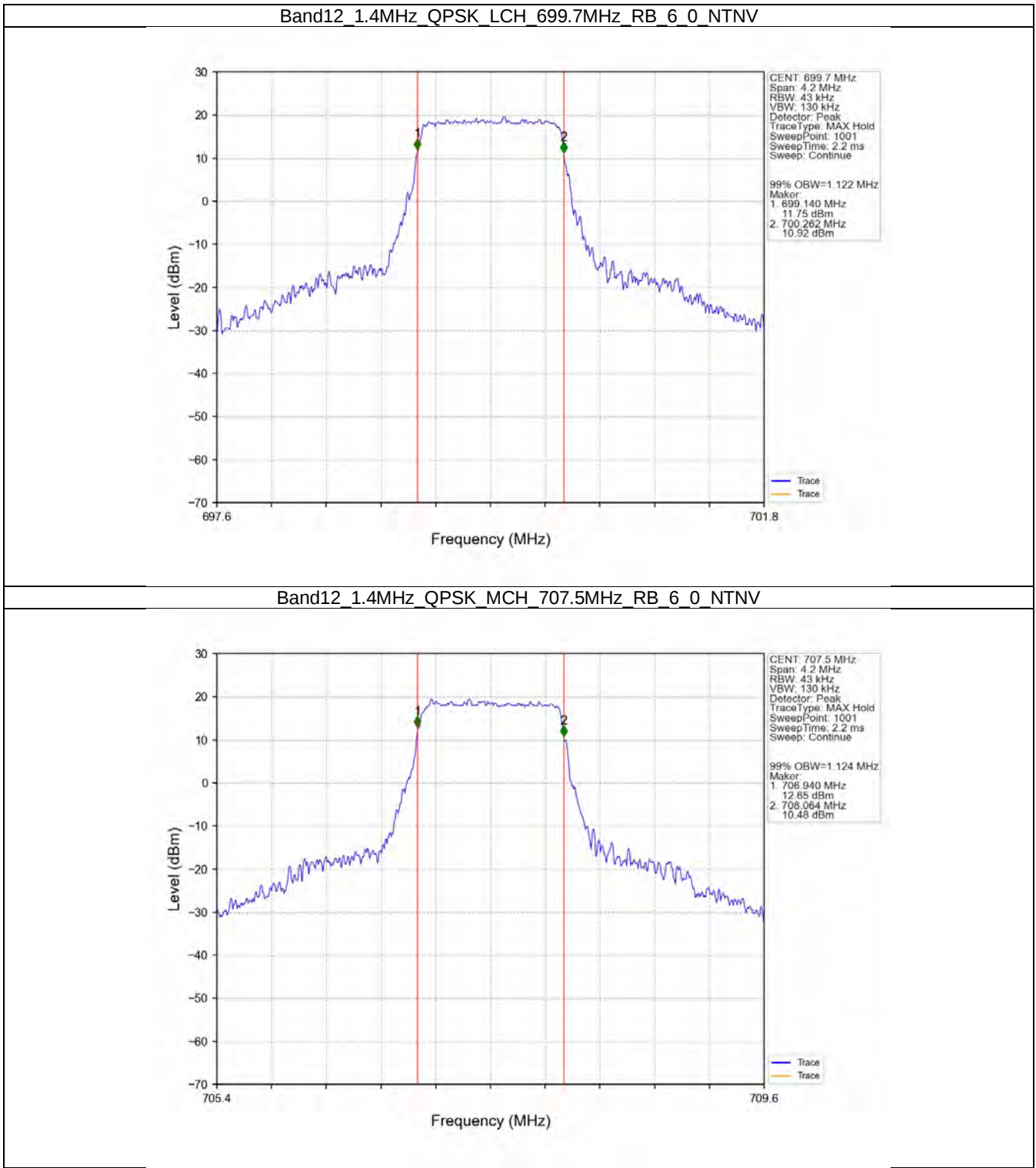
##### 3.1.2 Band12\_XDB

| Band: 12 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 1.4             | QPSK       | 699.7           | 6             | 0      | 1.399                | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.412                | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.407                | /     | Pass    |

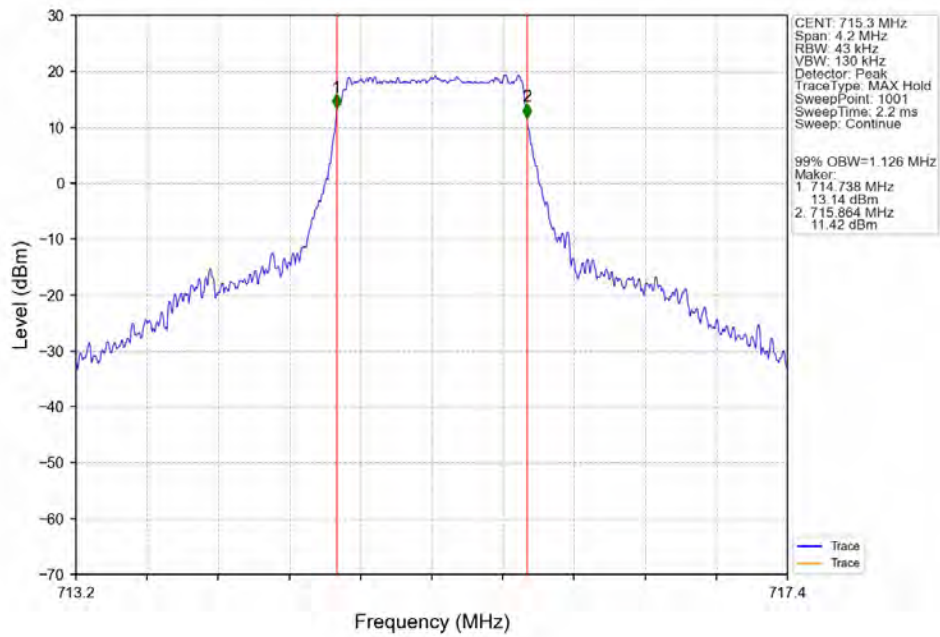
|    |       |       |    |   |        |   |      |
|----|-------|-------|----|---|--------|---|------|
|    | 16QAM | 699.7 | 6  | 0 | 1.425  | / | Pass |
|    |       | 707.5 | 6  | 0 | 1.414  | / | Pass |
|    |       | 715.3 | 6  | 0 | 1.400  | / | Pass |
|    | 64QAM | 699.7 | 6  | 0 | 1.378  | / | Pass |
|    |       | 707.5 | 6  | 0 | 1.422  | / | Pass |
|    |       | 715.3 | 6  | 0 | 1.415  | / | Pass |
| 3  | QPSK  | 700.5 | 15 | 0 | 3.136  | / | Pass |
|    |       | 707.5 | 15 | 0 | 3.202  | / | Pass |
|    |       | 714.5 | 15 | 0 | 3.148  | / | Pass |
|    | 16QAM | 700.5 | 15 | 0 | 3.140  | / | Pass |
|    |       | 707.5 | 15 | 0 | 3.121  | / | Pass |
|    |       | 714.5 | 15 | 0 | 3.154  | / | Pass |
|    | 64QAM | 700.5 | 15 | 0 | 3.160  | / | Pass |
|    |       | 707.5 | 15 | 0 | 3.145  | / | Pass |
|    |       | 714.5 | 15 | 0 | 3.144  | / | Pass |
| 5  | QPSK  | 701.5 | 25 | 0 | 5.166  | / | Pass |
|    |       | 707.5 | 25 | 0 | 5.204  | / | Pass |
|    |       | 713.5 | 25 | 0 | 5.226  | / | Pass |
|    | 16QAM | 701.5 | 25 | 0 | 5.278  | / | Pass |
|    |       | 707.5 | 25 | 0 | 5.290  | / | Pass |
|    |       | 713.5 | 25 | 0 | 5.237  | / | Pass |
|    | 64QAM | 701.5 | 25 | 0 | 5.278  | / | Pass |
|    |       | 707.5 | 25 | 0 | 5.235  | / | Pass |
|    |       | 713.5 | 25 | 0 | 5.240  | / | Pass |
| 10 | QPSK  | 704   | 50 | 0 | 10.223 | / | Pass |
|    |       | 707.5 | 50 | 0 | 10.220 | / | Pass |
|    |       | 711   | 50 | 0 | 10.339 | / | Pass |
|    | 16QAM | 704   | 50 | 0 | 10.114 | / | Pass |
|    |       | 707.5 | 50 | 0 | 10.129 | / | Pass |
|    |       | 711   | 50 | 0 | 10.188 | / | Pass |
|    | 64QAM | 704   | 50 | 0 | 10.161 | / | Pass |
|    |       | 707.5 | 50 | 0 | 10.156 | / | Pass |
|    |       | 711   | 50 | 0 | 10.265 | / | Pass |

3.2 Test Graph

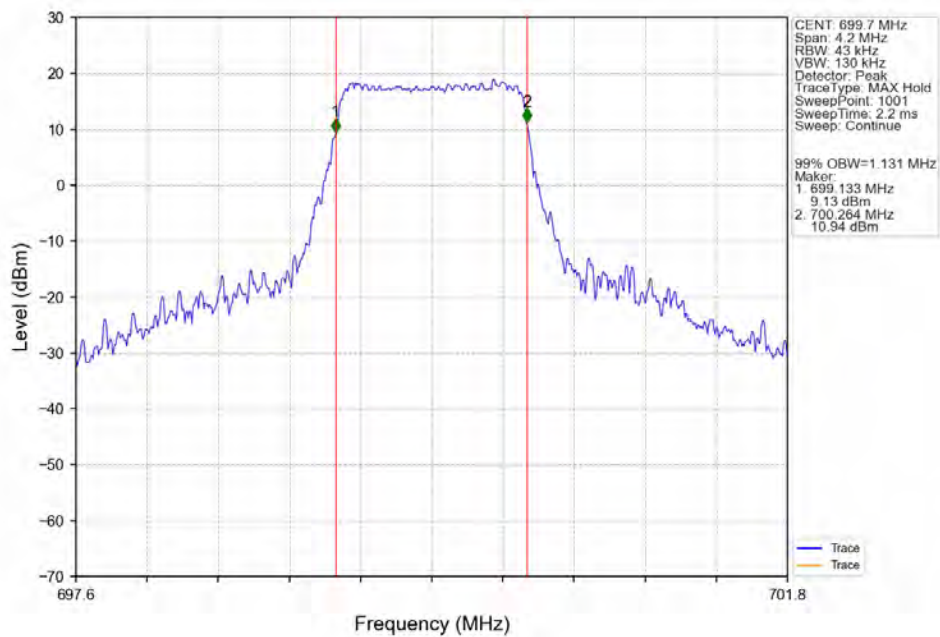
3.2.1 Band12\_OBW



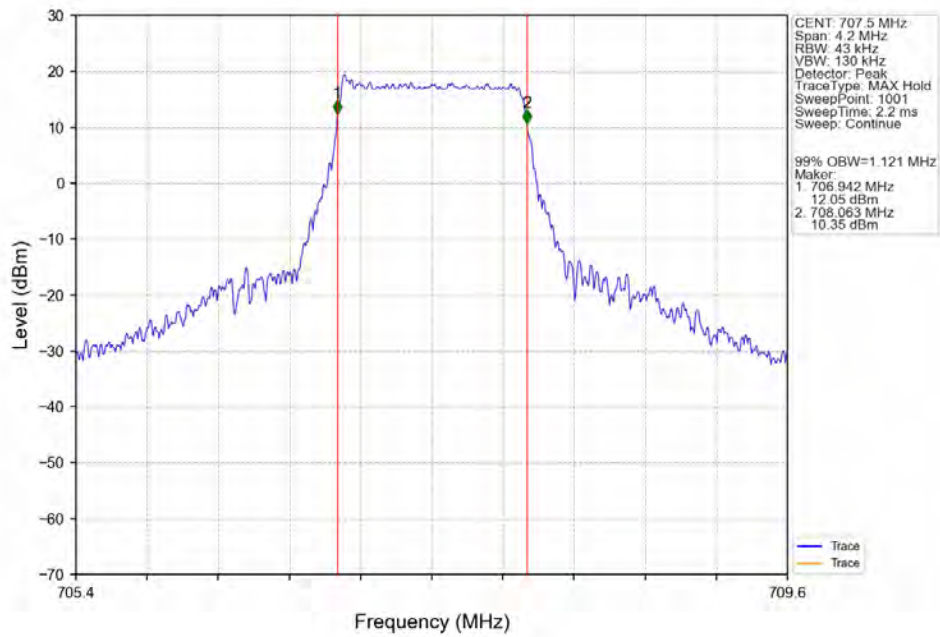
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



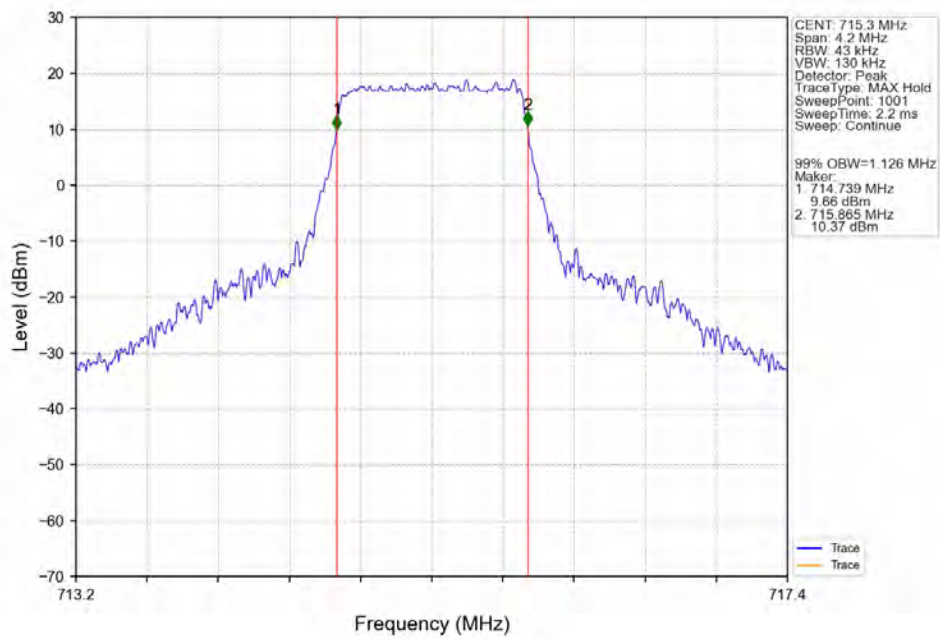
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



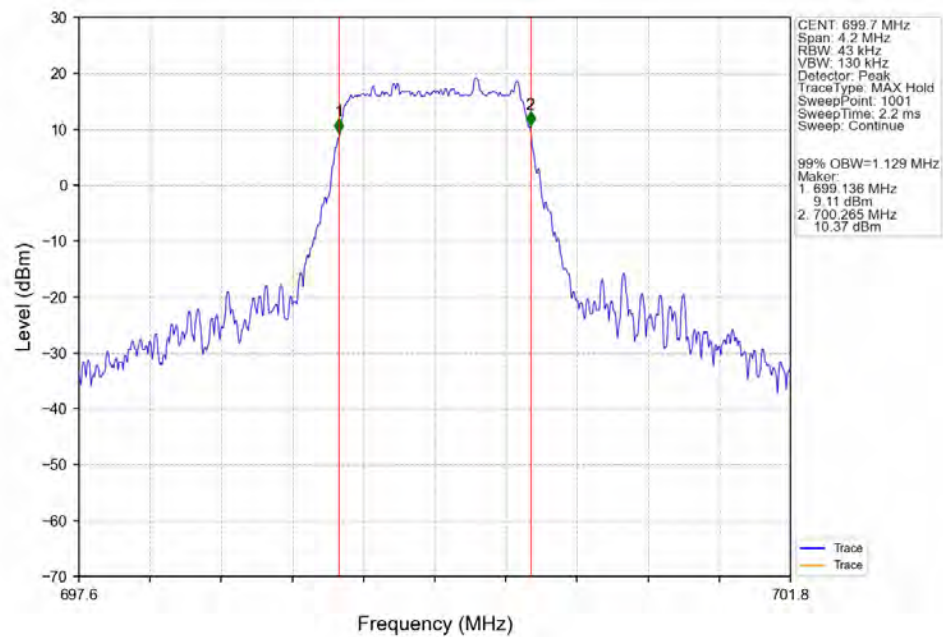
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV



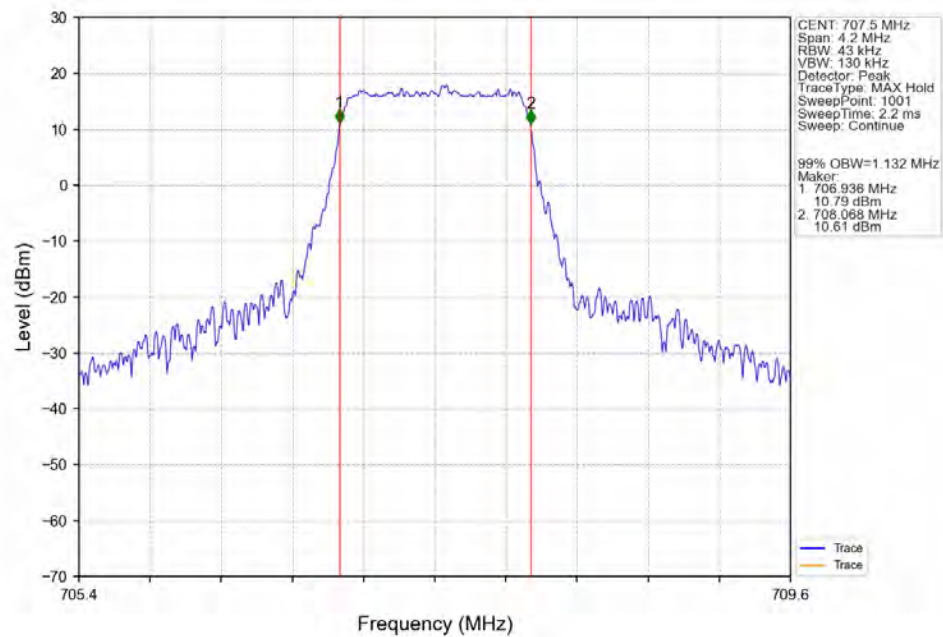
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



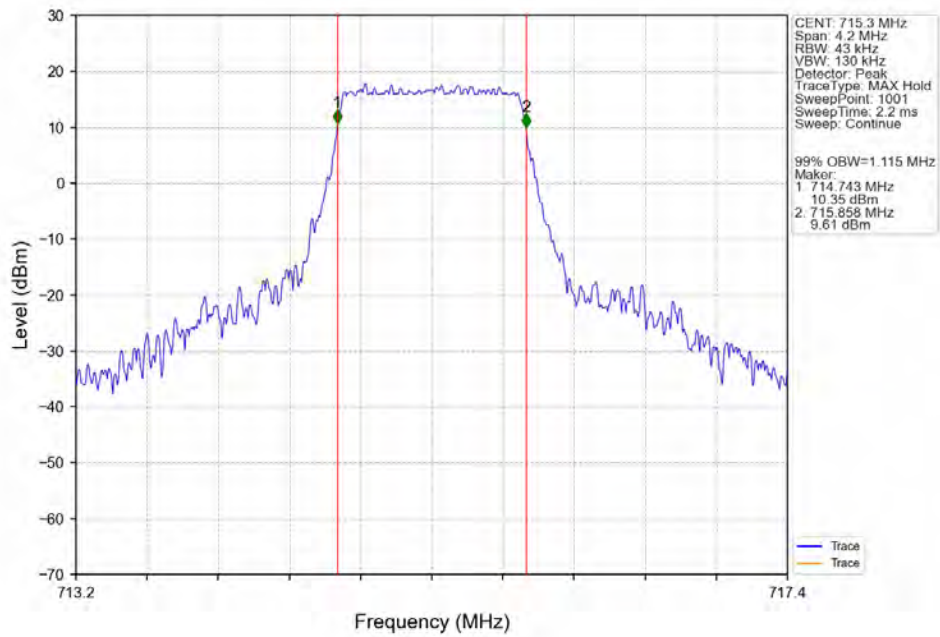
Band12 1.4MHz 64QAM LCH 699.7MHz RB 6 0 NTNV



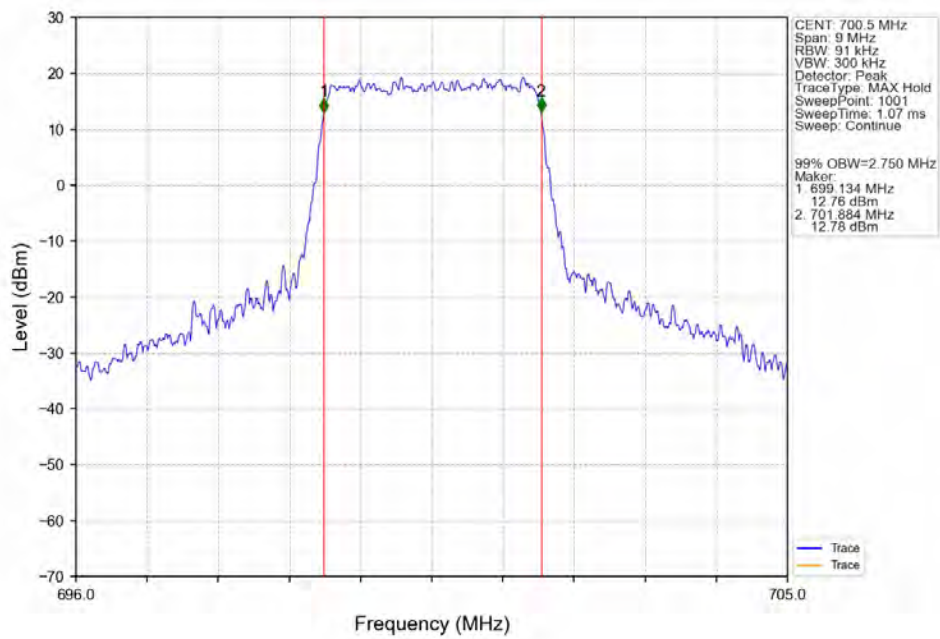
Band12 1.4MHz 64QAM MCH 707.5MHz RB 6 0 NTNV



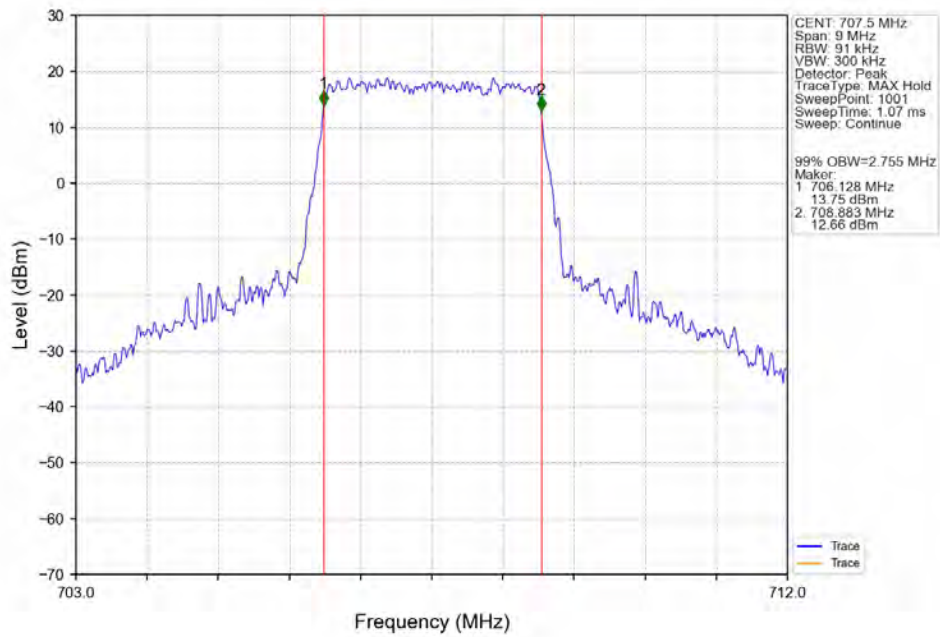
Band12 1.4MHz 64QAM HCH 715.3MHz RB 6 0 NTNV



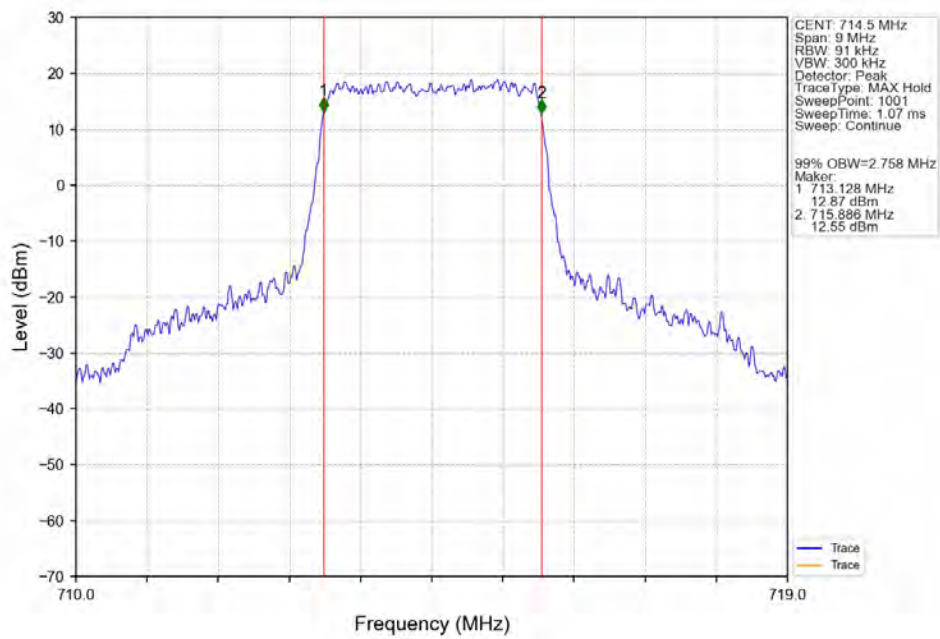
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



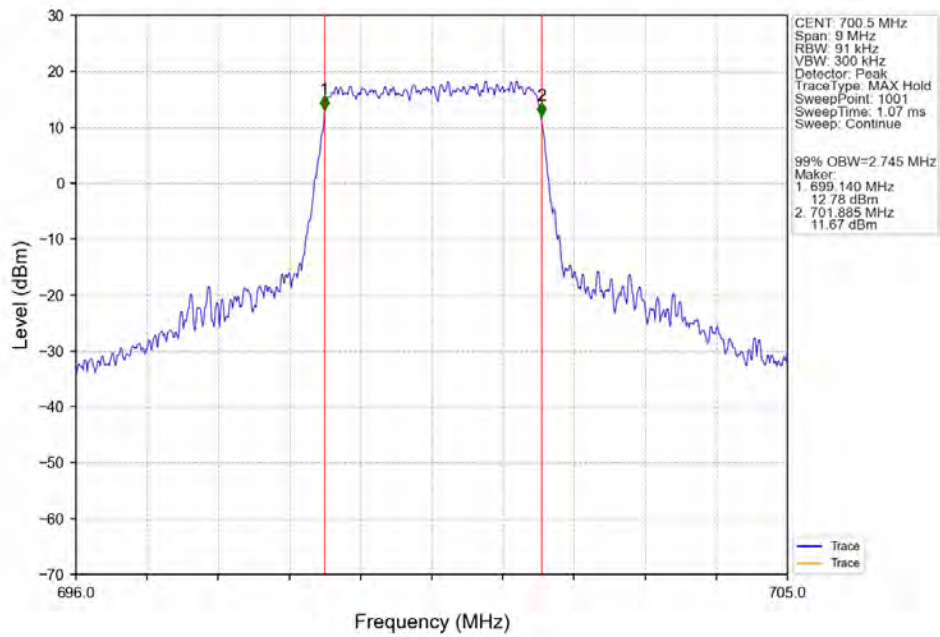
Band12 3MHz QPSK MCH 707.5MHz RB 15 0 NTNV



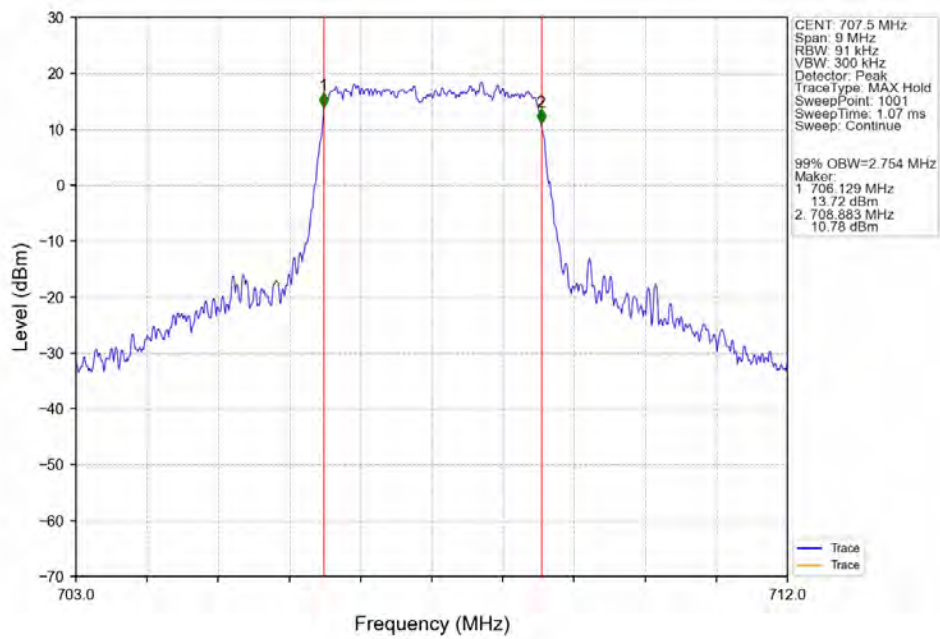
Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTNV



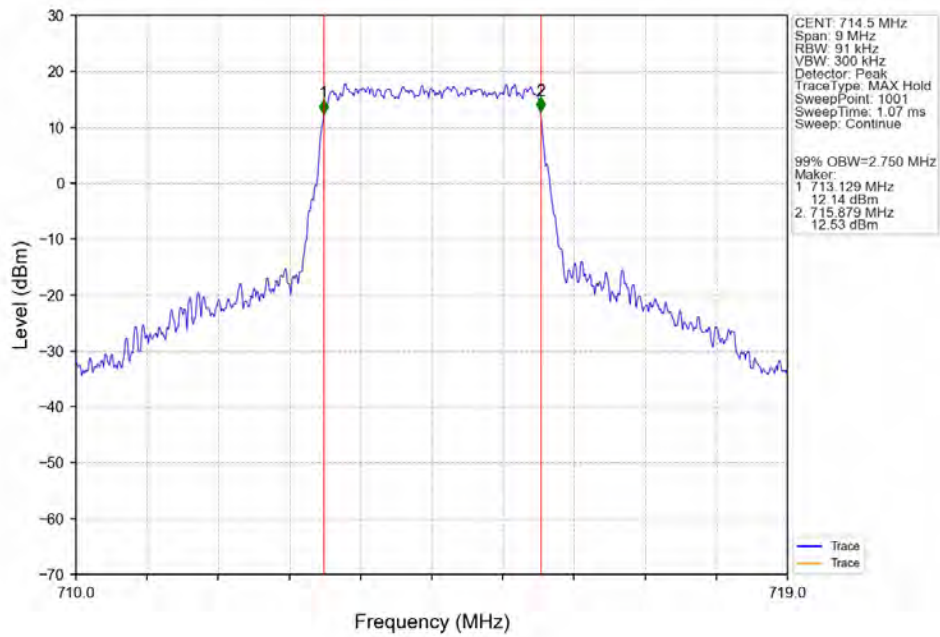
Band12 3MHz 16QAM LCH 700.5MHz RB 15 0 NTNV



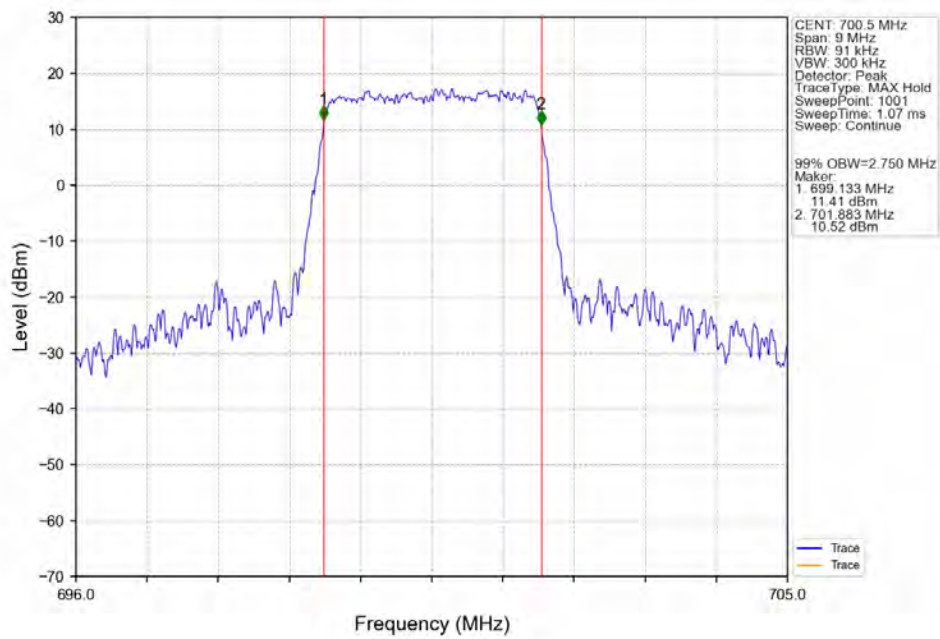
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



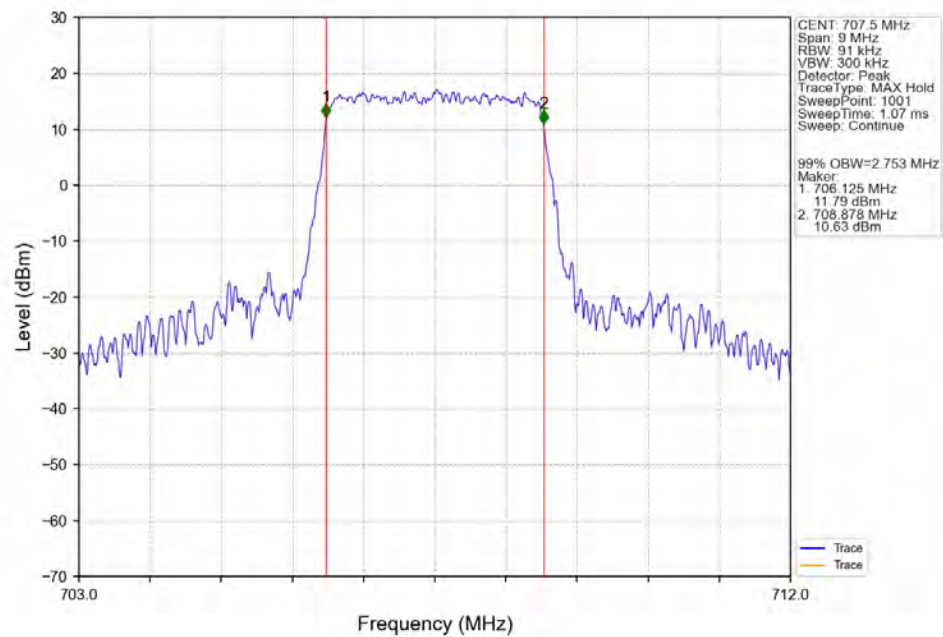
Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV



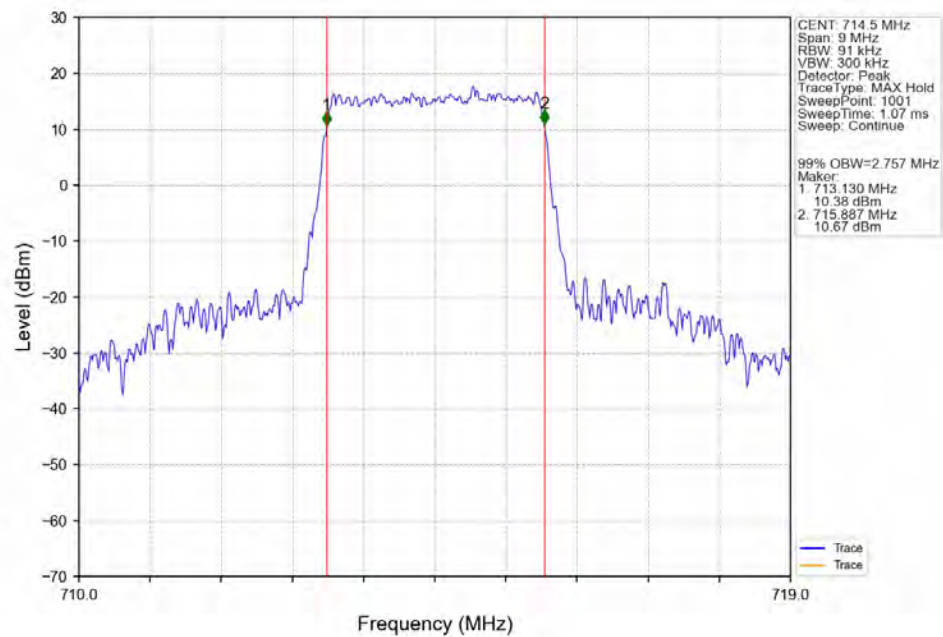
Band12 3MHz 64QAM LCH 700.5MHz RB 15 0 NTNV



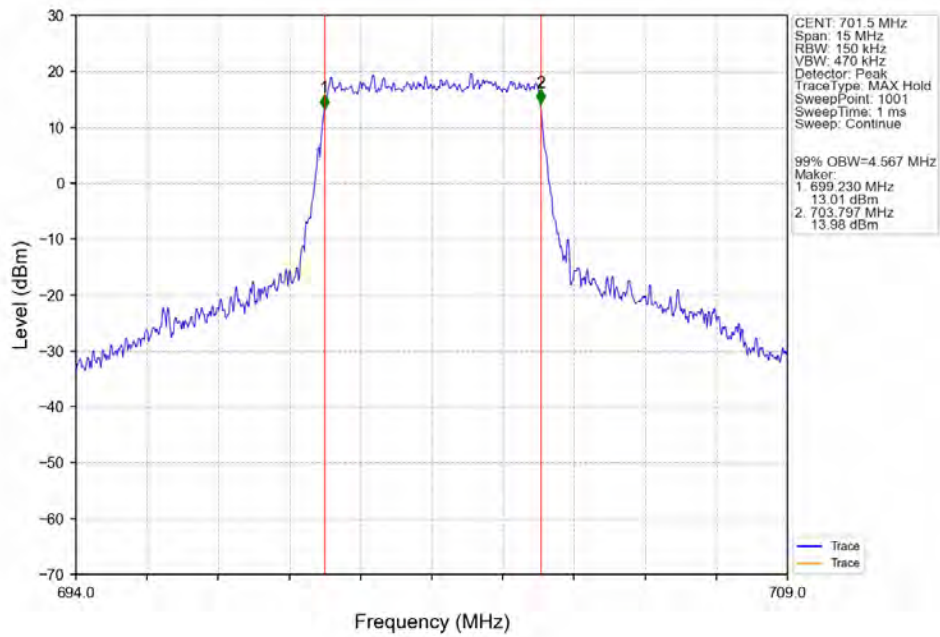
Band12 3MHz 64QAM MCH 707.5MHz RB 15 0 NTNV



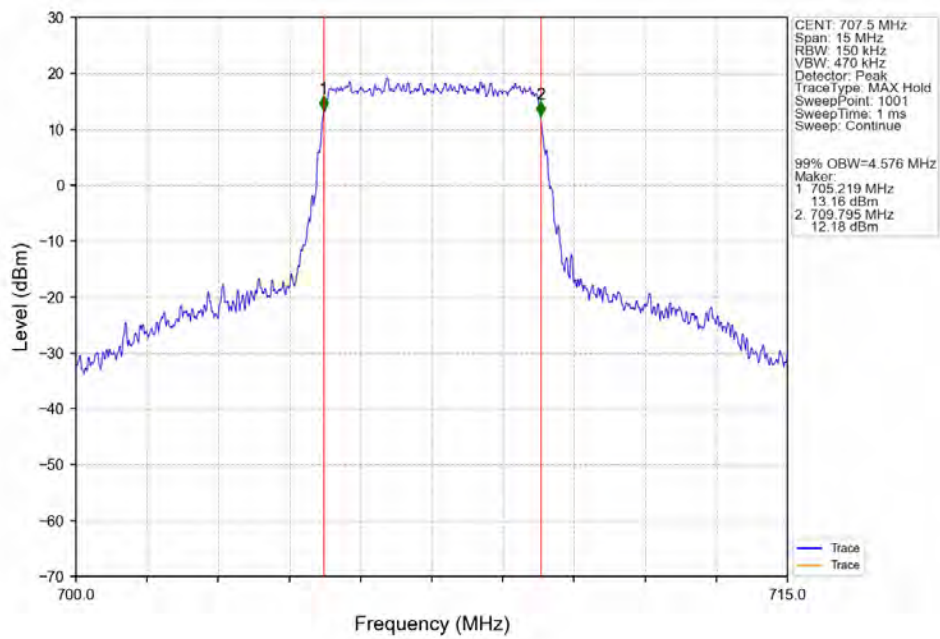
Band12\_3MHz\_64QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



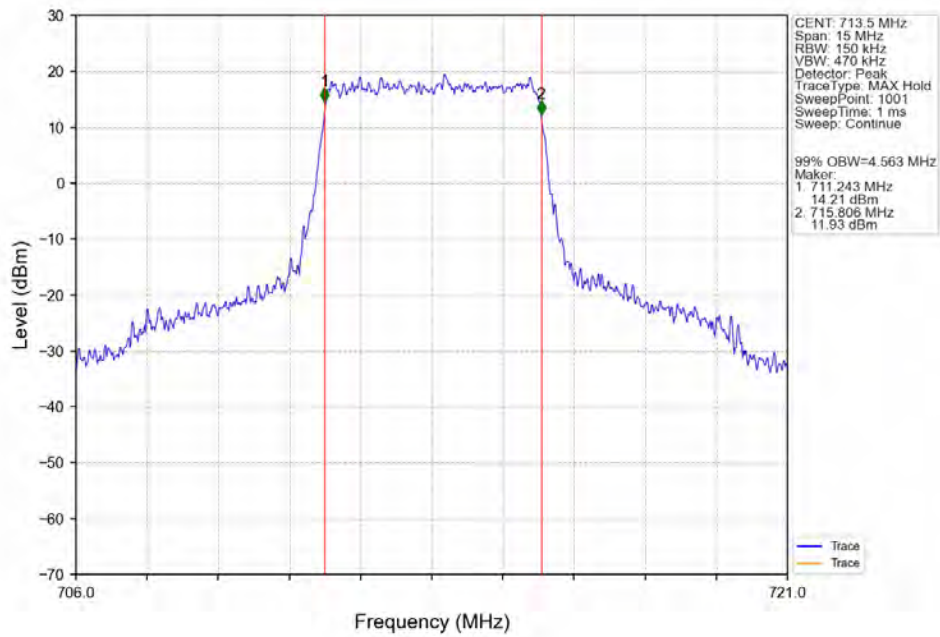
Band12 5MHz QPSK LCH 701.5MHz RB 25 0 NTNV



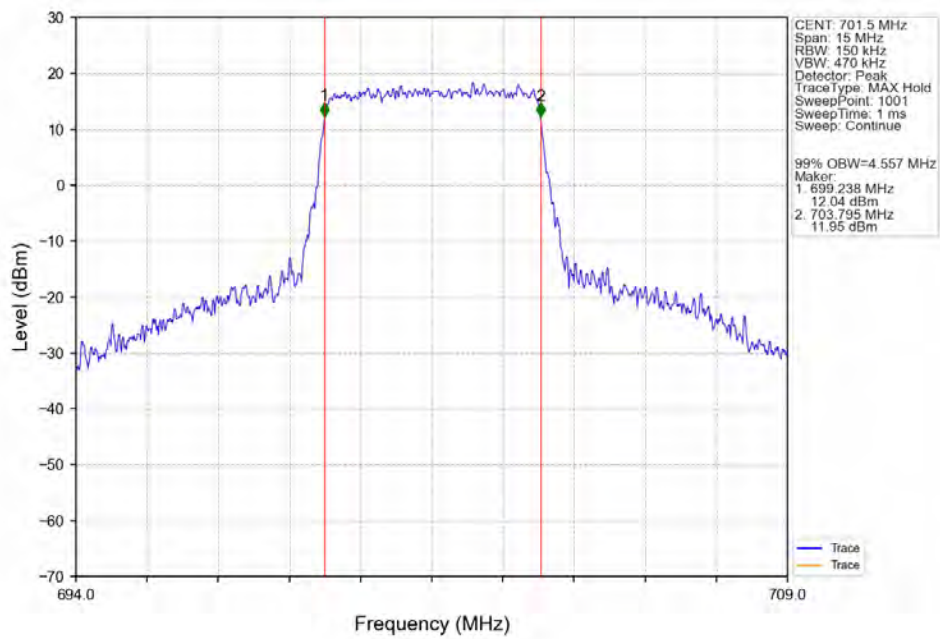
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



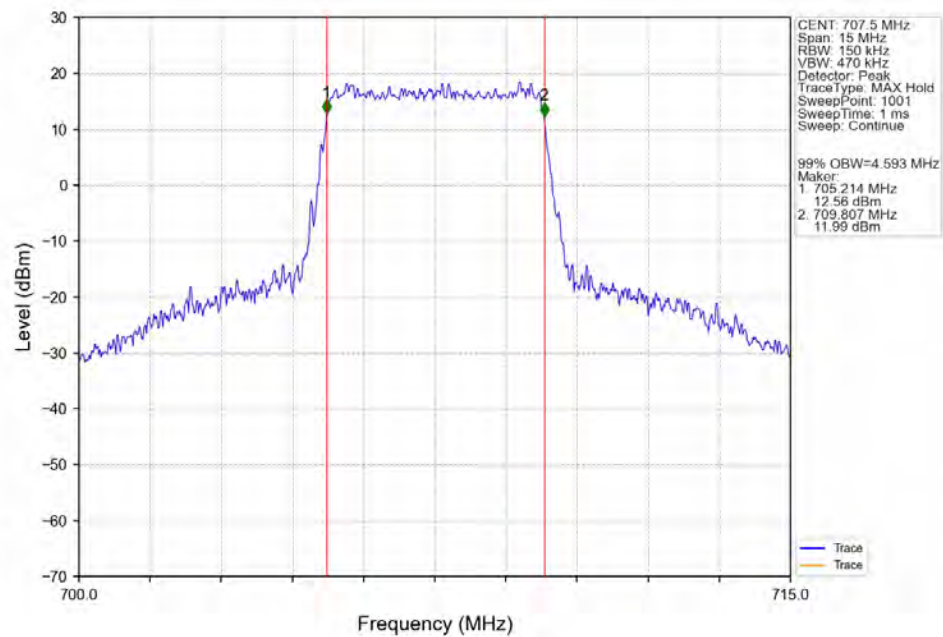
Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTNV



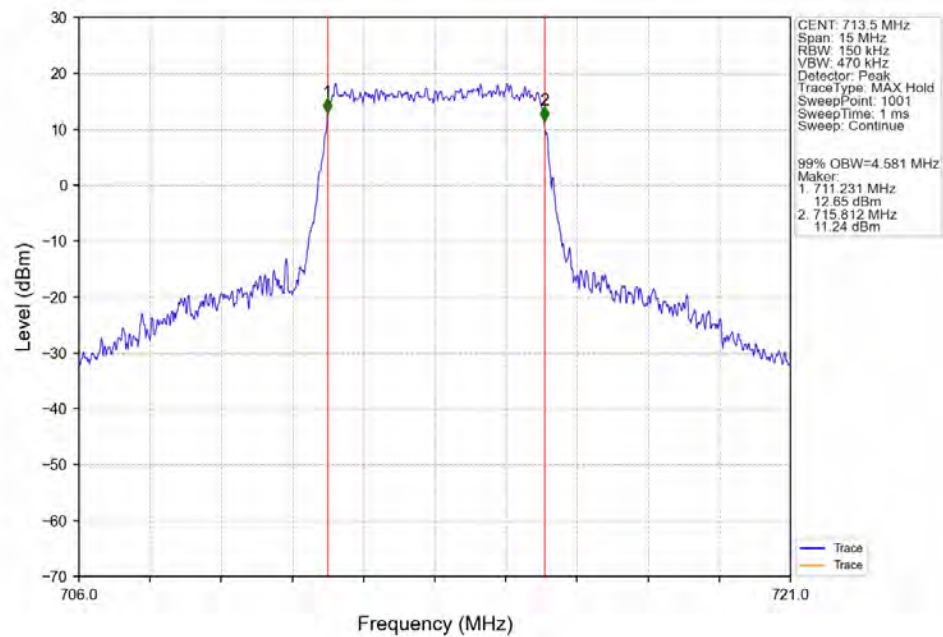
Band12 5MHz 16QAM LCH 701.5MHz RB 25 0 NTNV



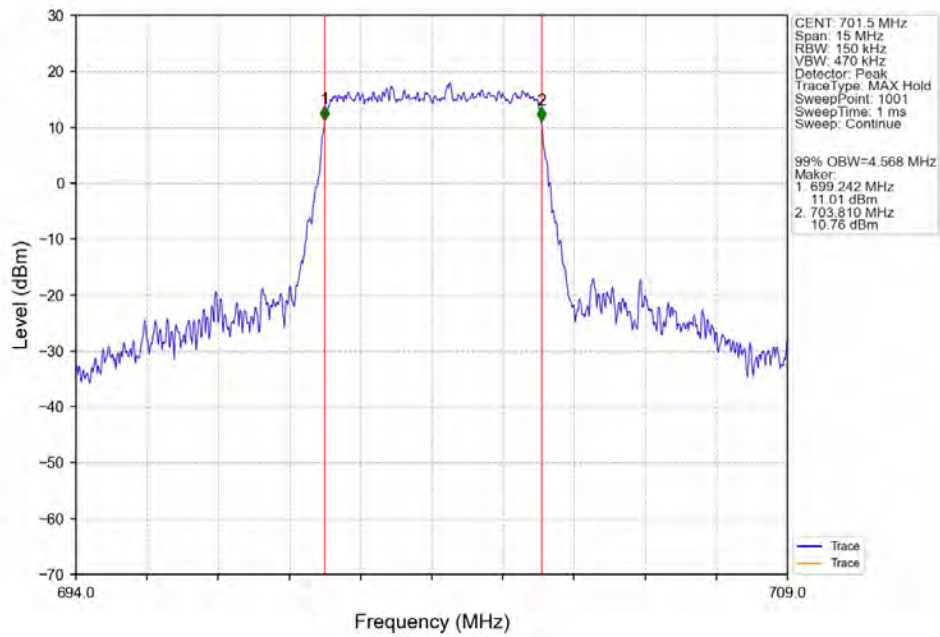
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV



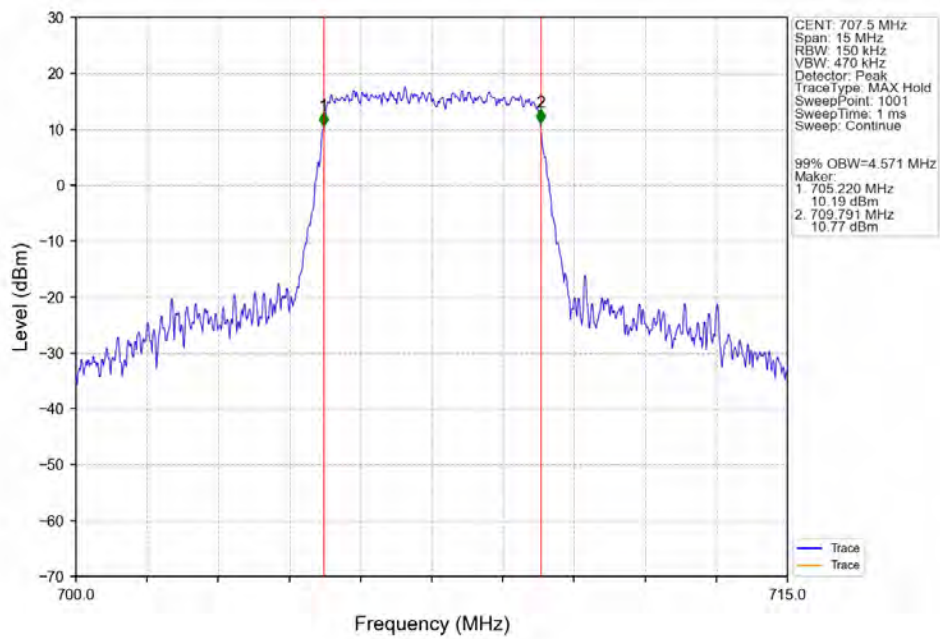
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



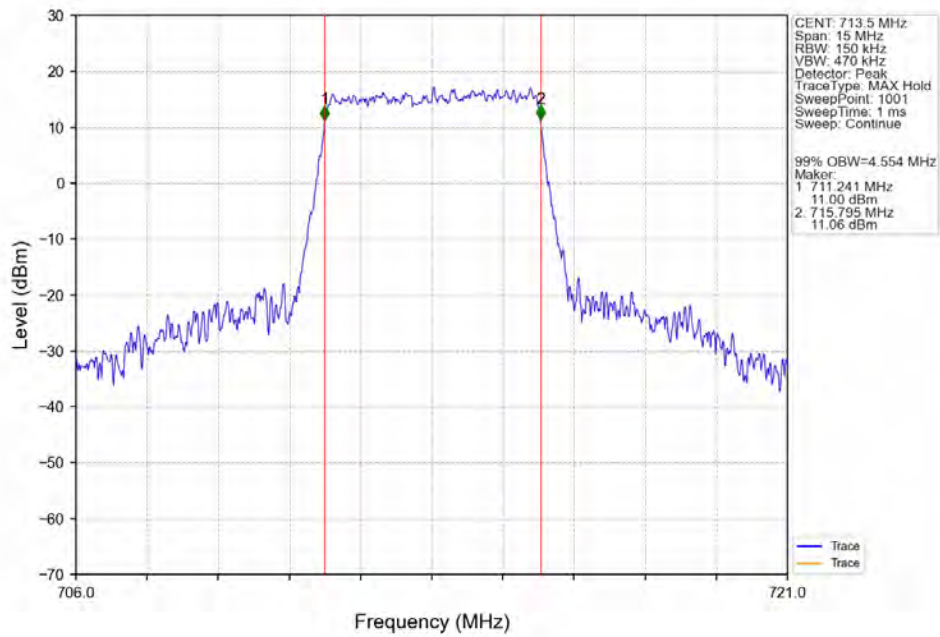
Band12 5MHz 64QAM LCH 701.5MHz RB 25 0 NTNV



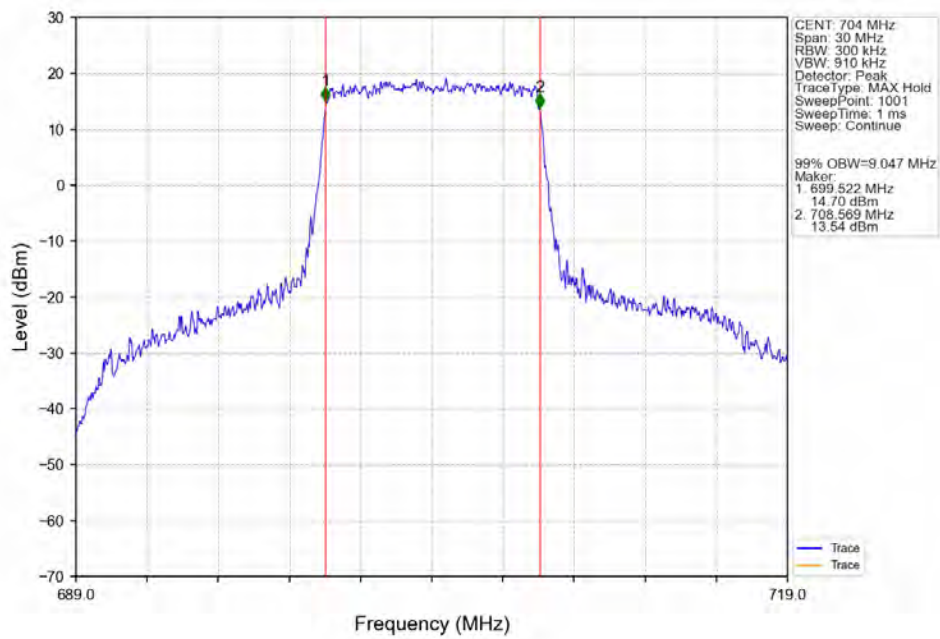
Band12 5MHz 64QAM MCH 707.5MHz RB 25 0 NTNV



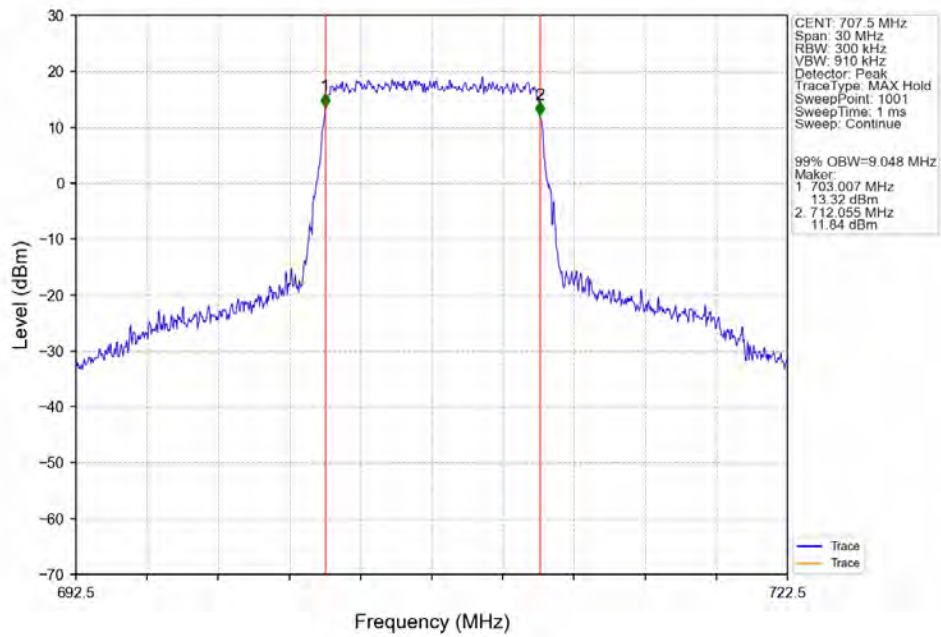
Band12 5MHz 64QAM HCH 713.5MHz RB 25 0 NTNV



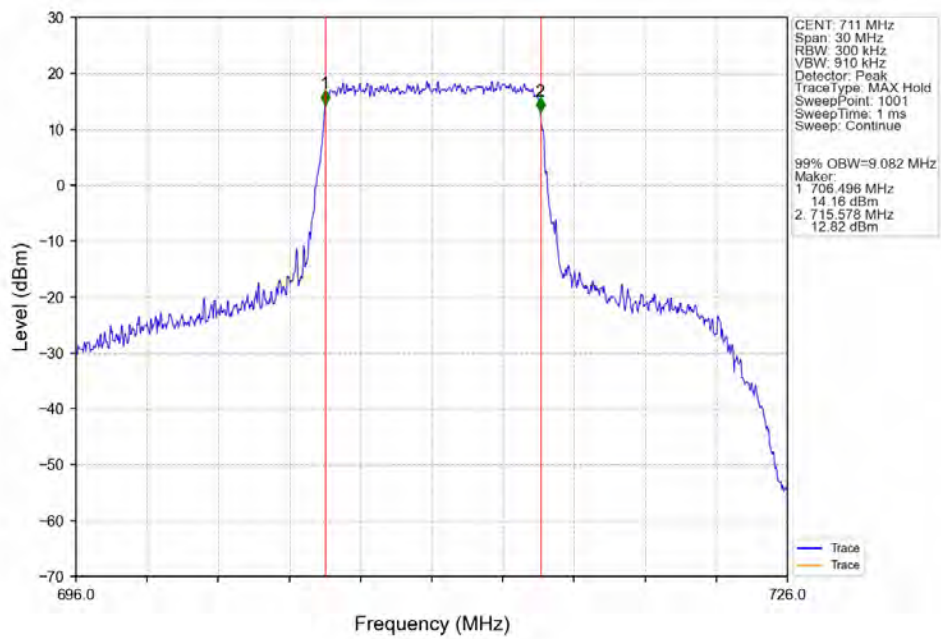
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



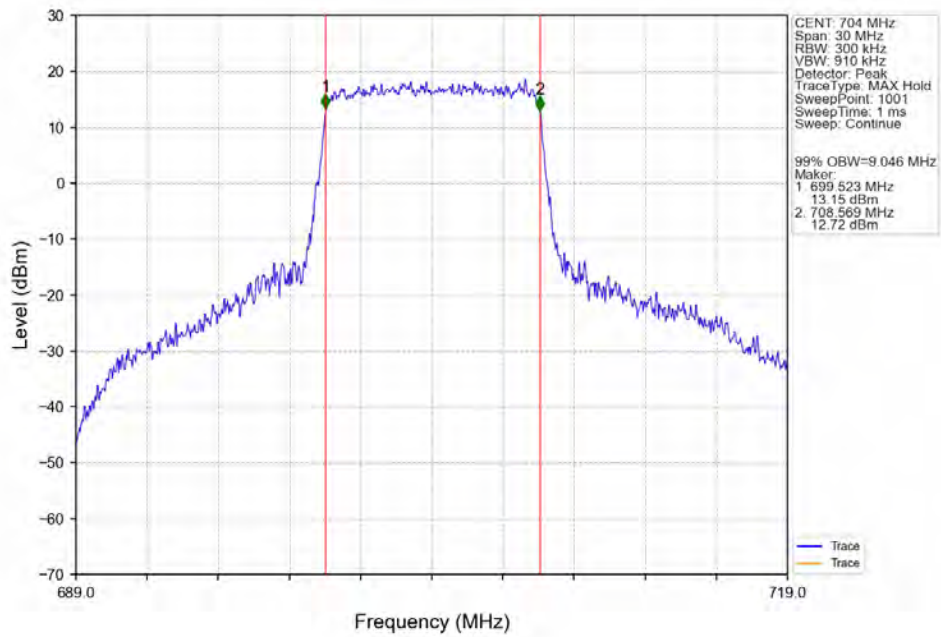
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



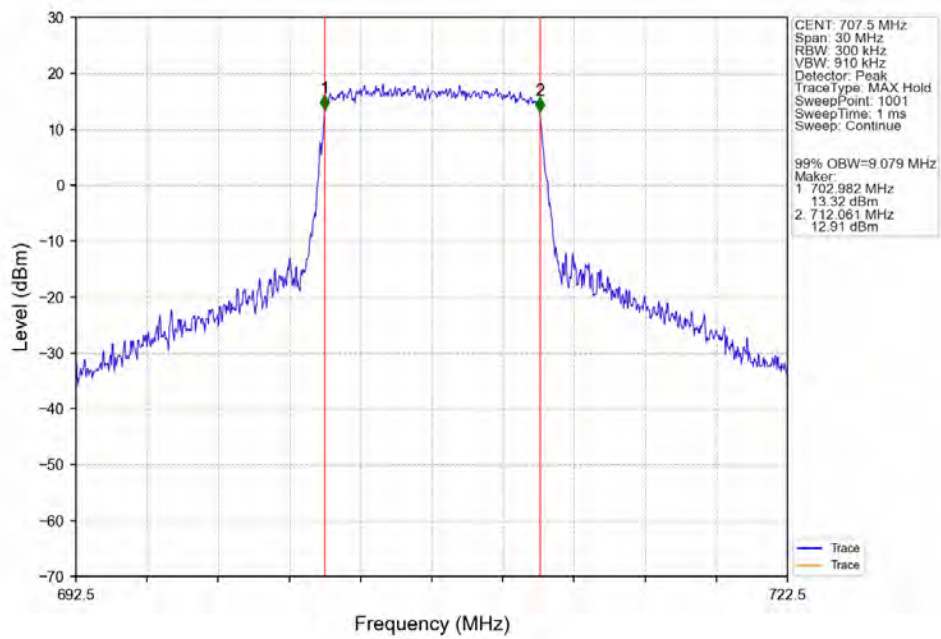
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



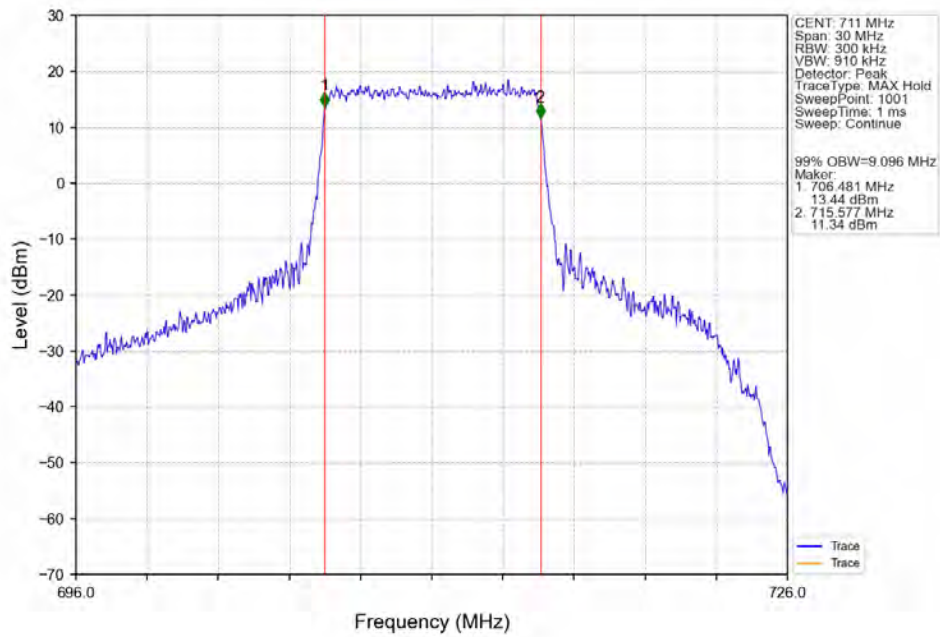
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



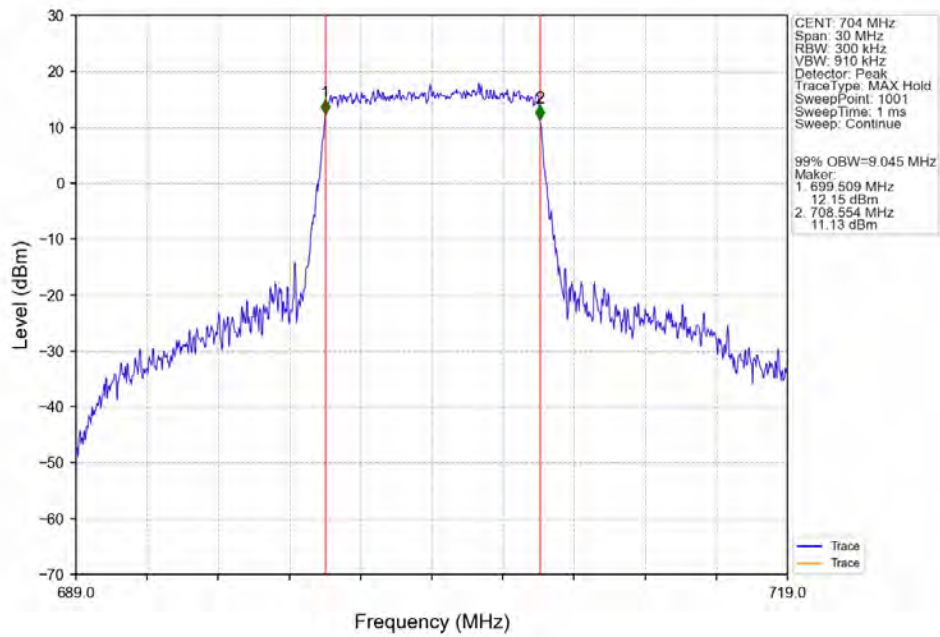
Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



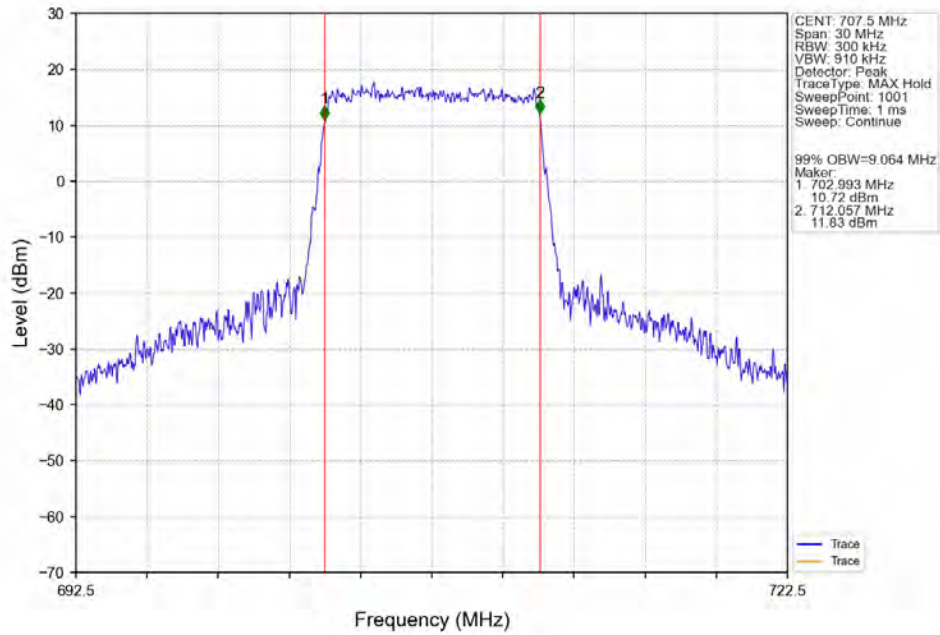
Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



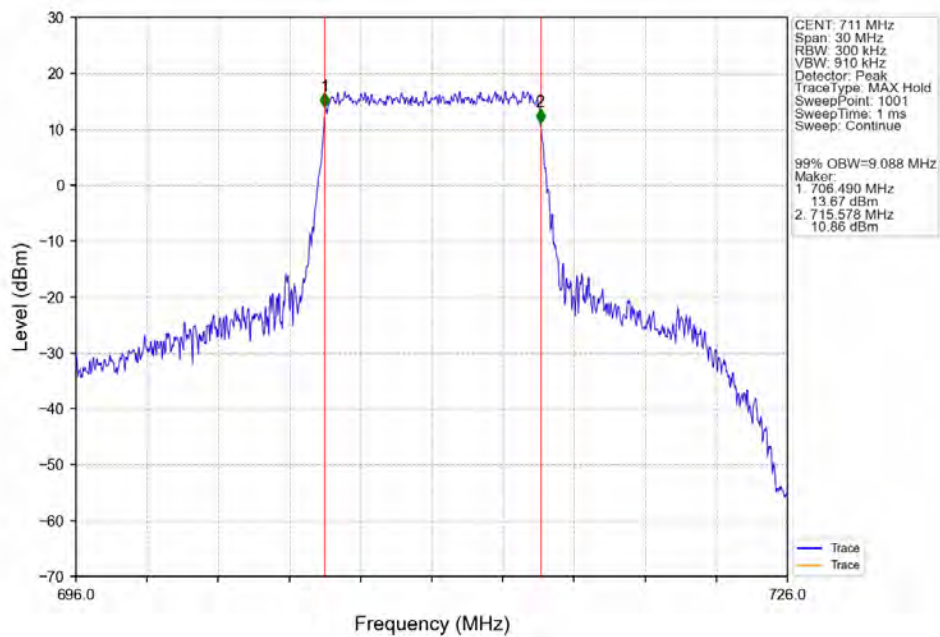
Band12\_10MHz\_64QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



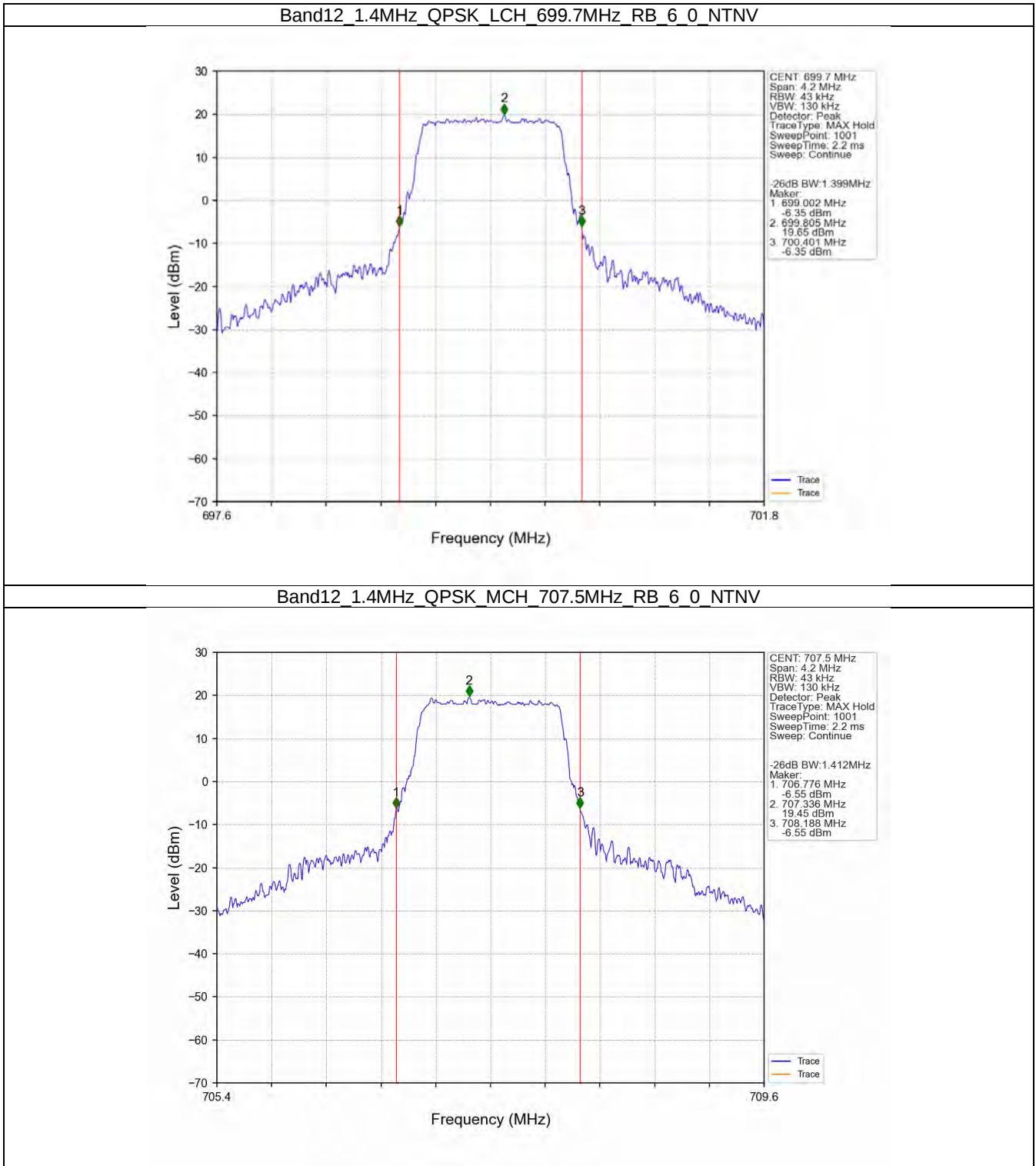
Band12\_10MHz\_64QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



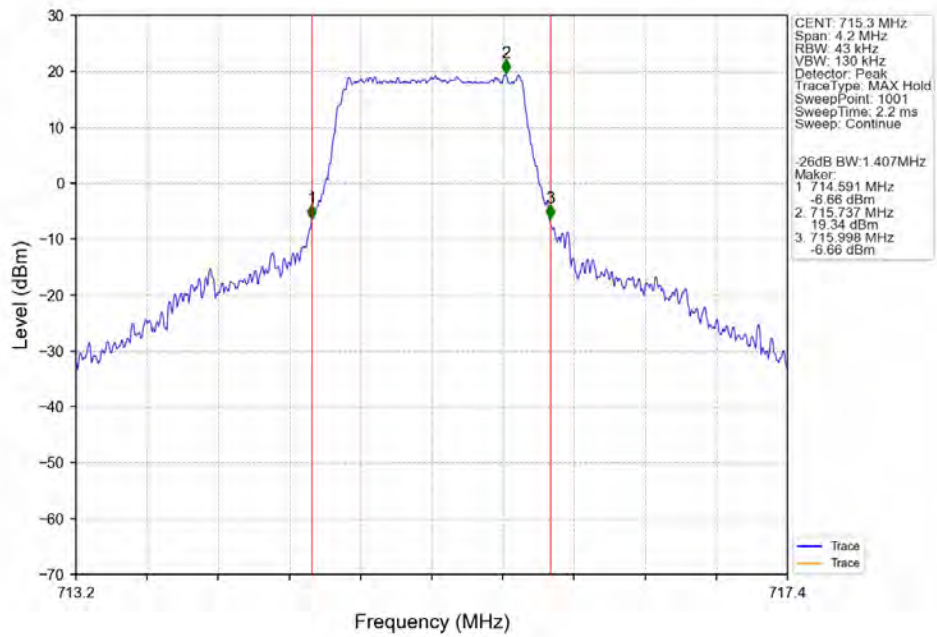
Band12\_10MHz\_64QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



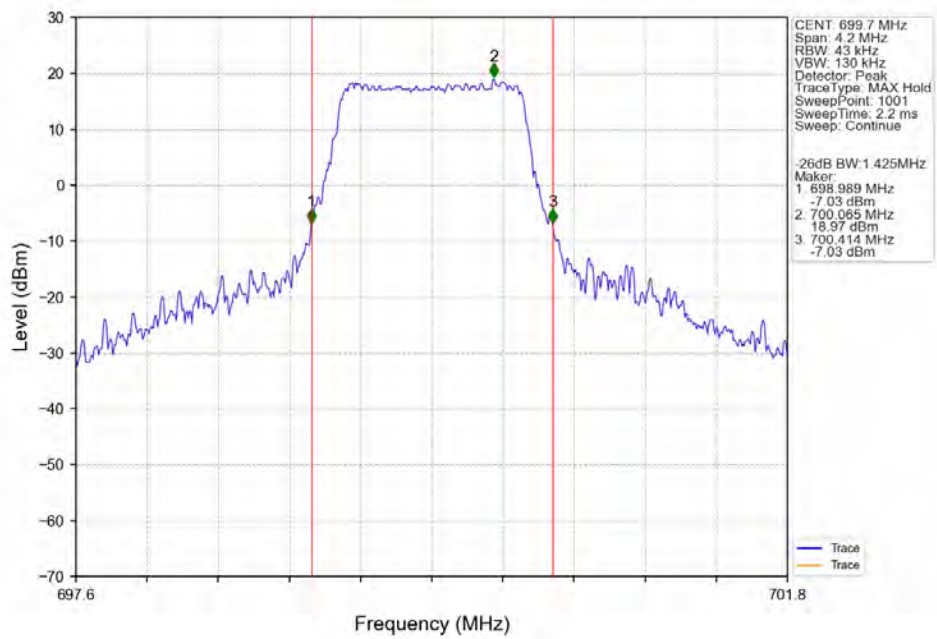
3.2.2 Band12\_XDB



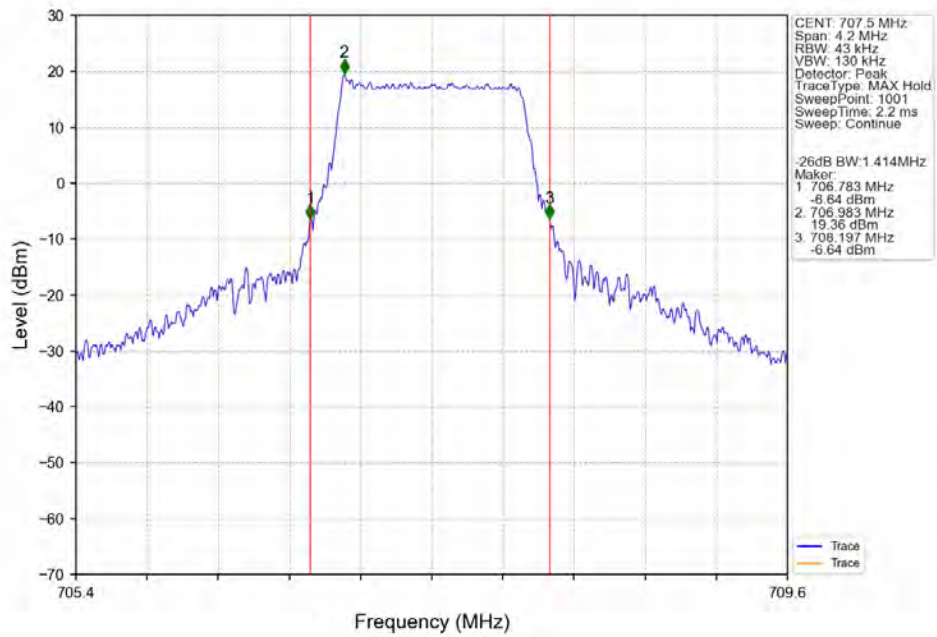
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



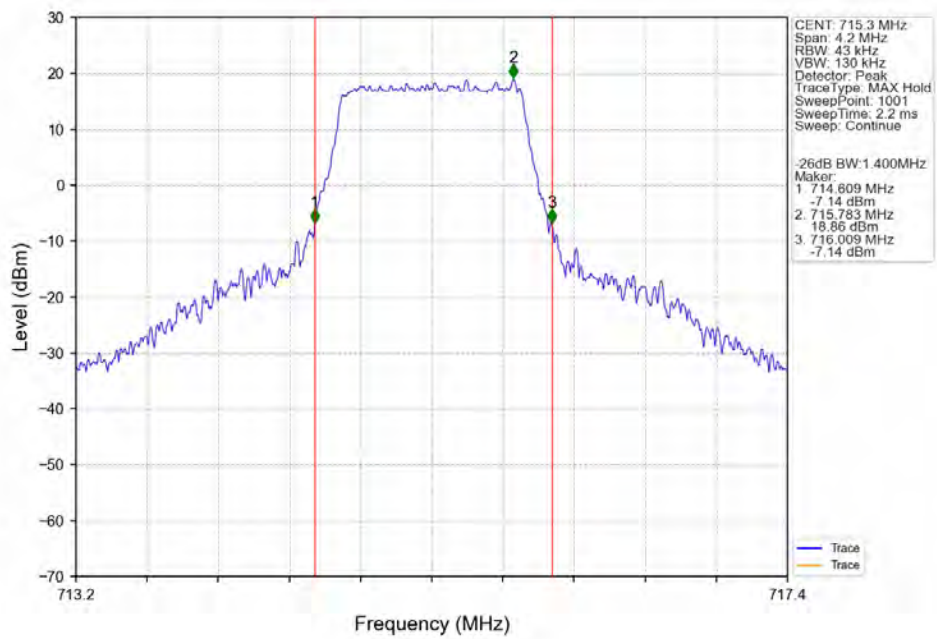
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTNV



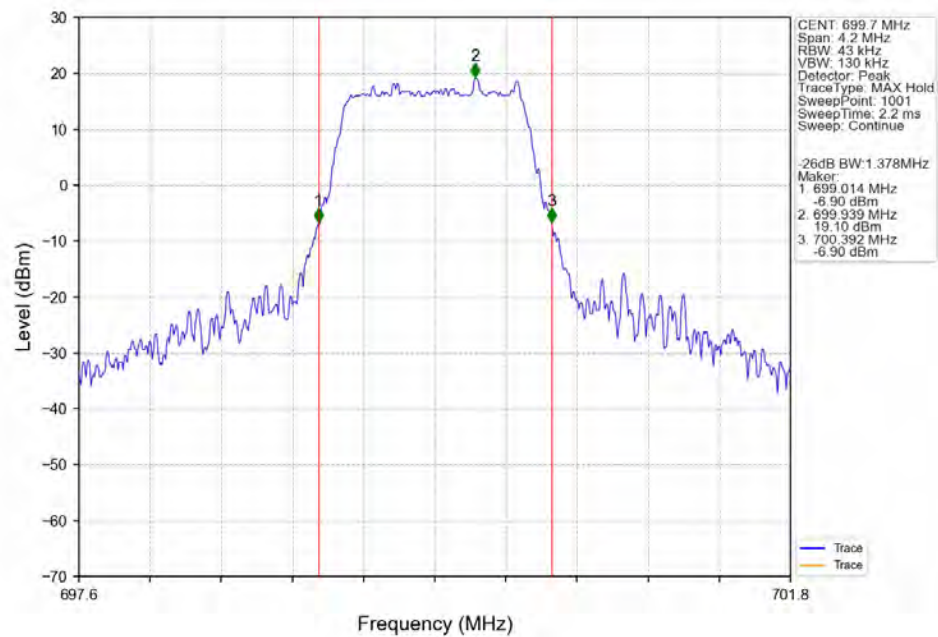
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV



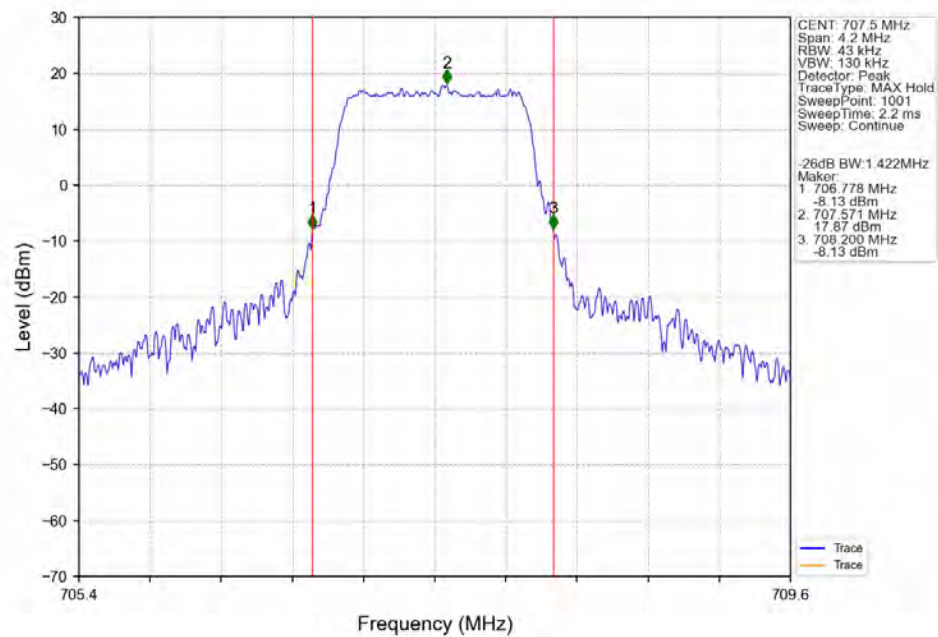
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



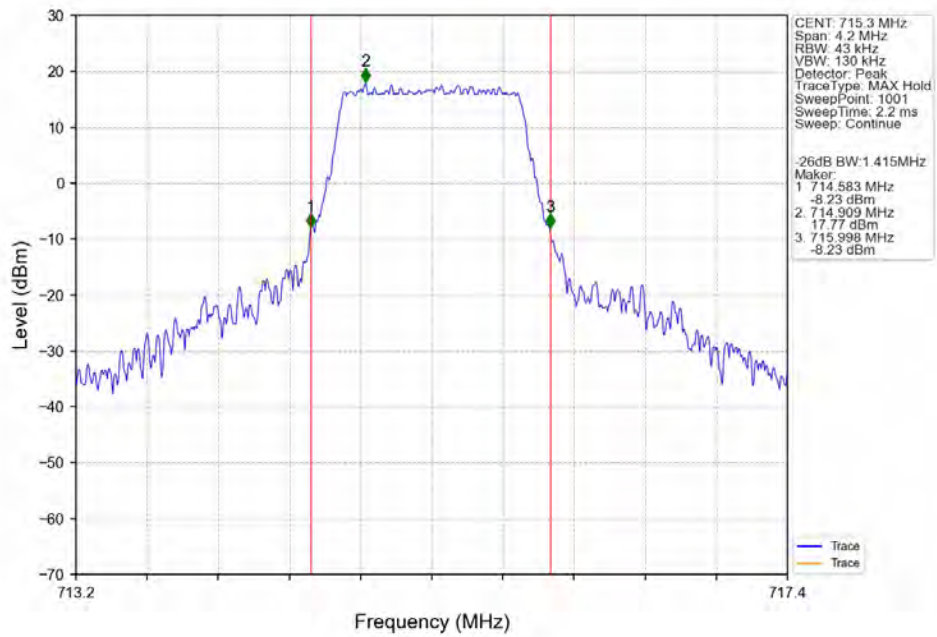
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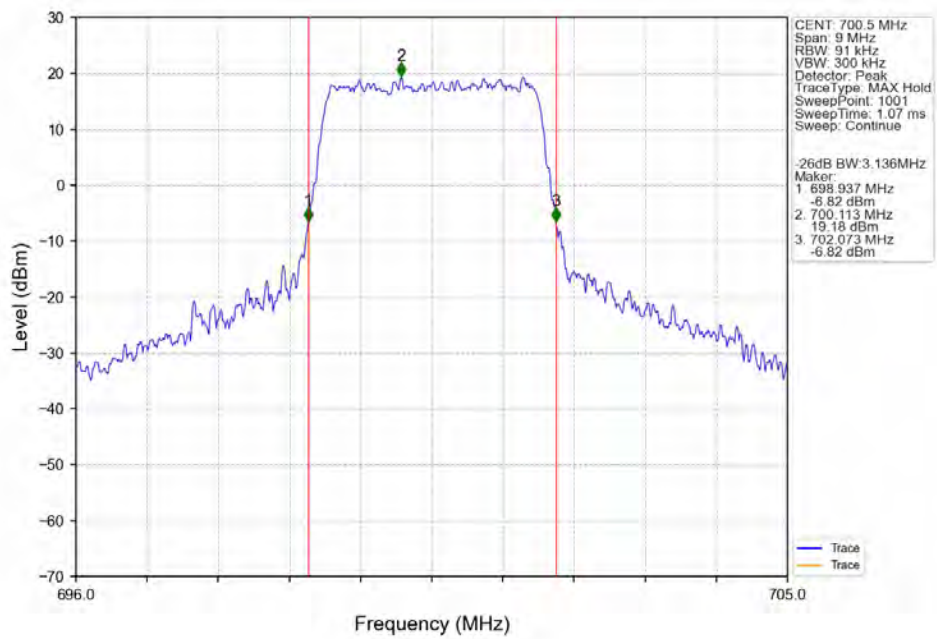
Band12 1.4MHz 64QAM MCH 707.5MHz RB 6 0 NTNV



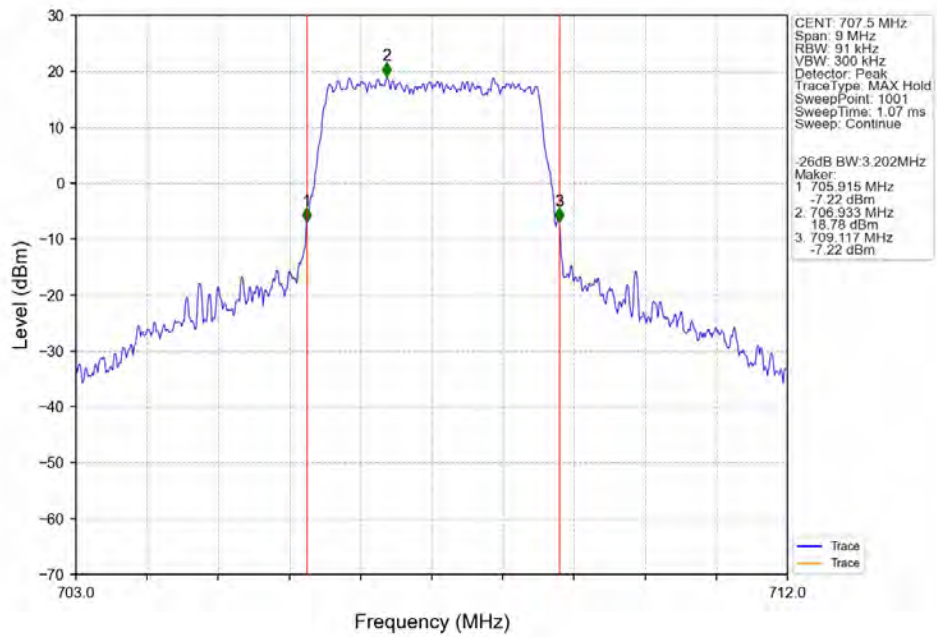
Band12 1.4MHz 64QAM HCH 715.3MHz RB 6 0 NTNV



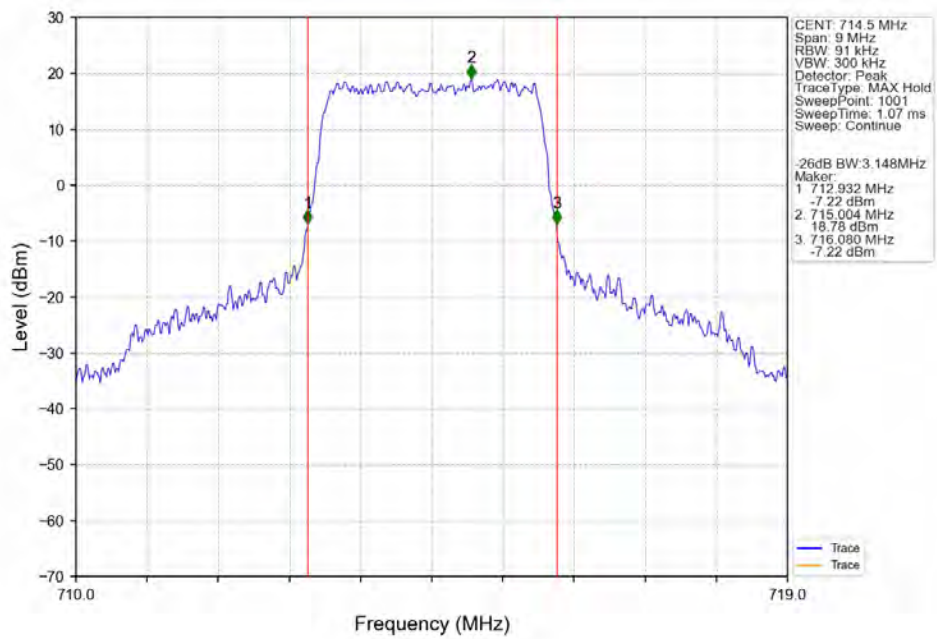
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



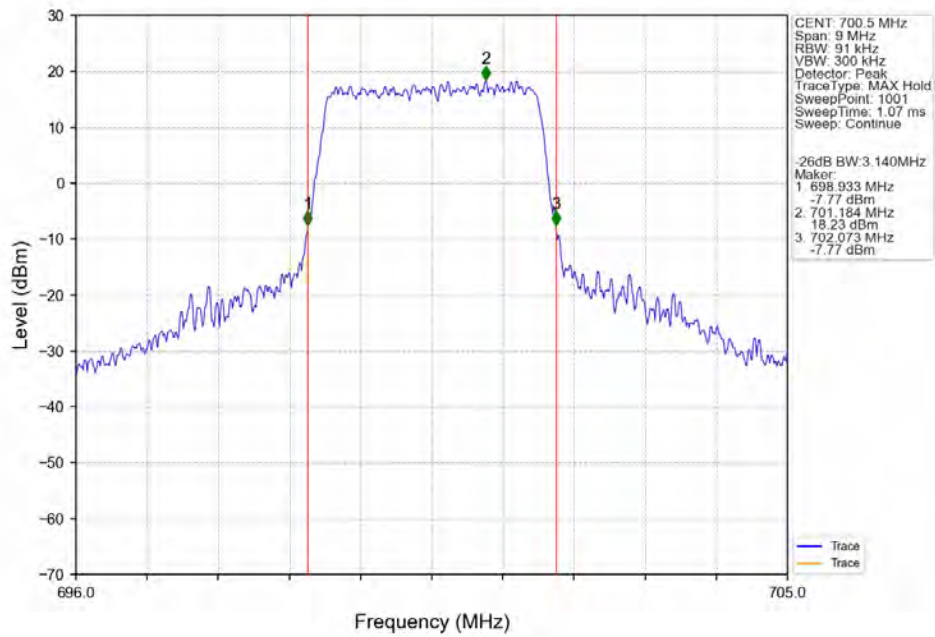
Band12 3MHz QPSK MCH 707.5MHz RB 15 0 NTNV



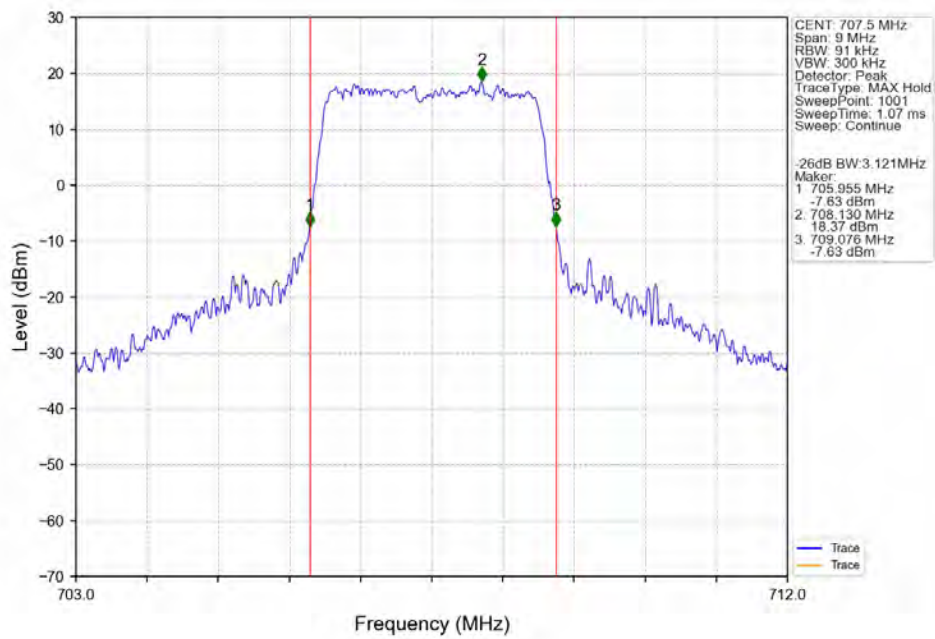
Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTNV



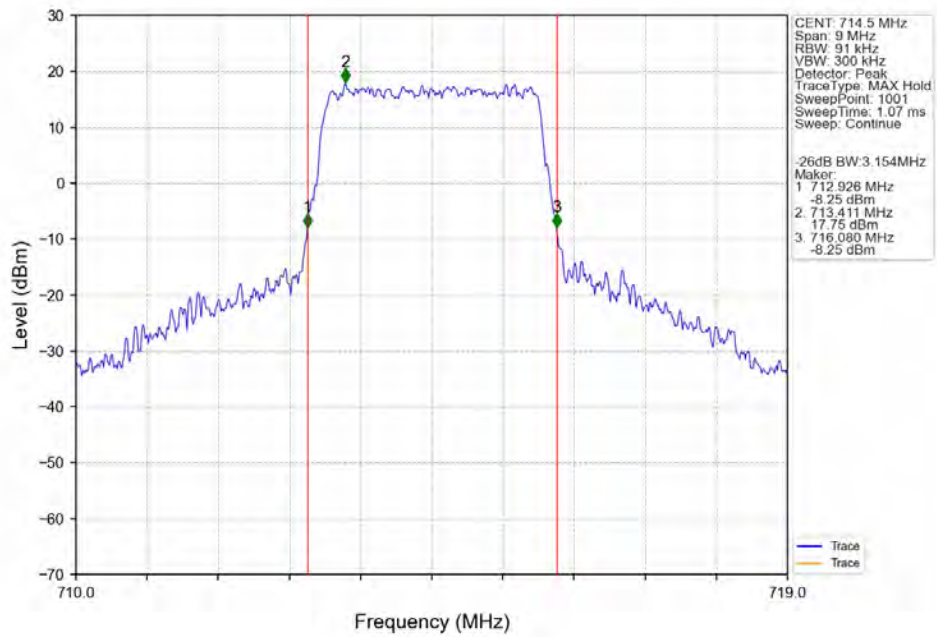
Band12 3MHz 16QAM LCH 700.5MHz RB 15 0 NTNV



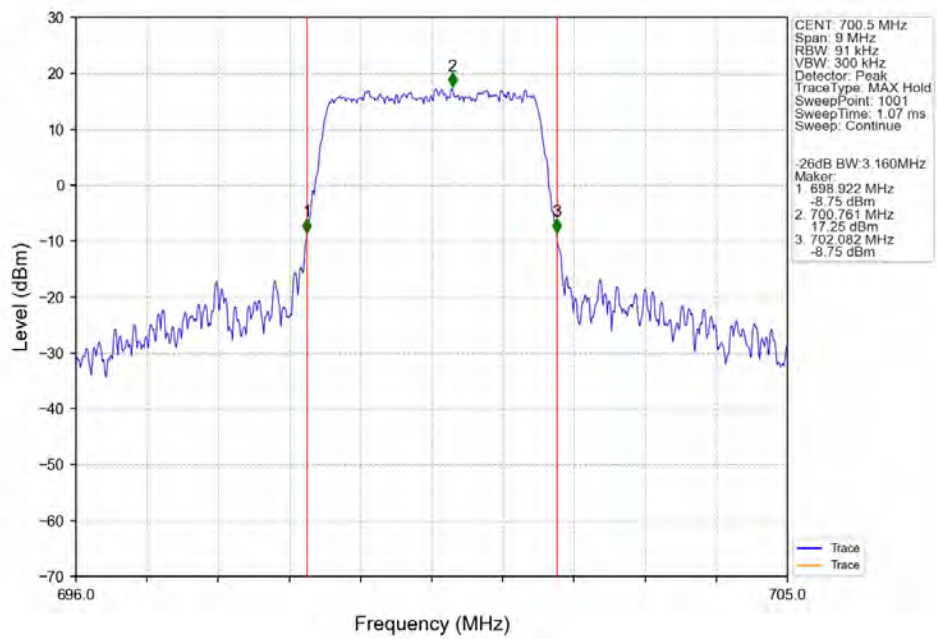
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



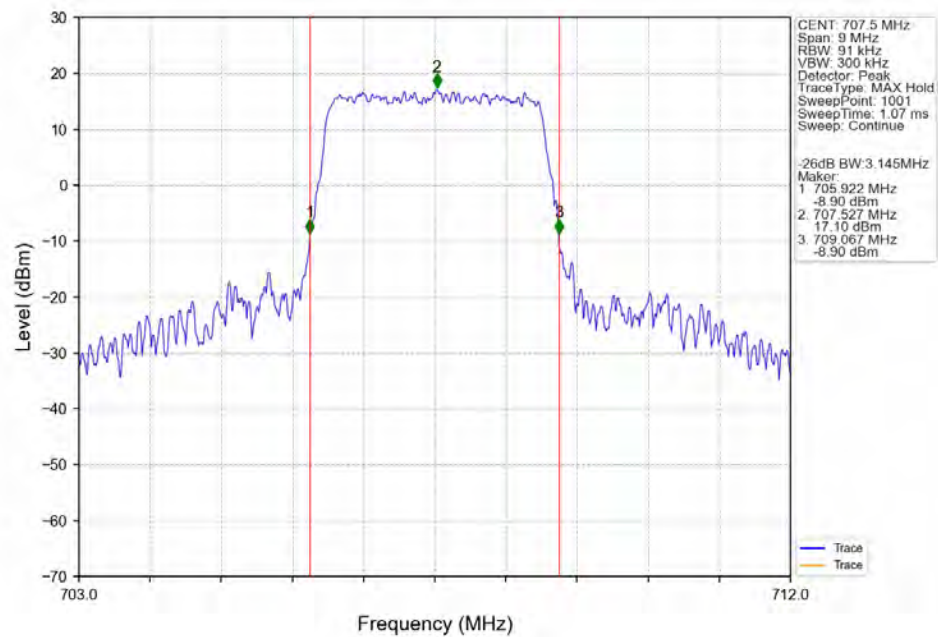
Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV



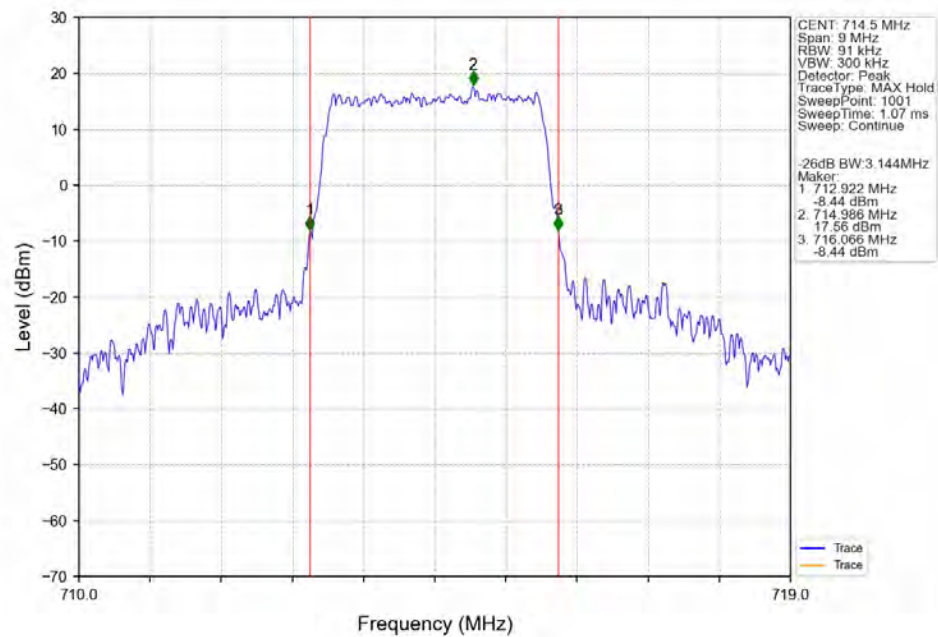
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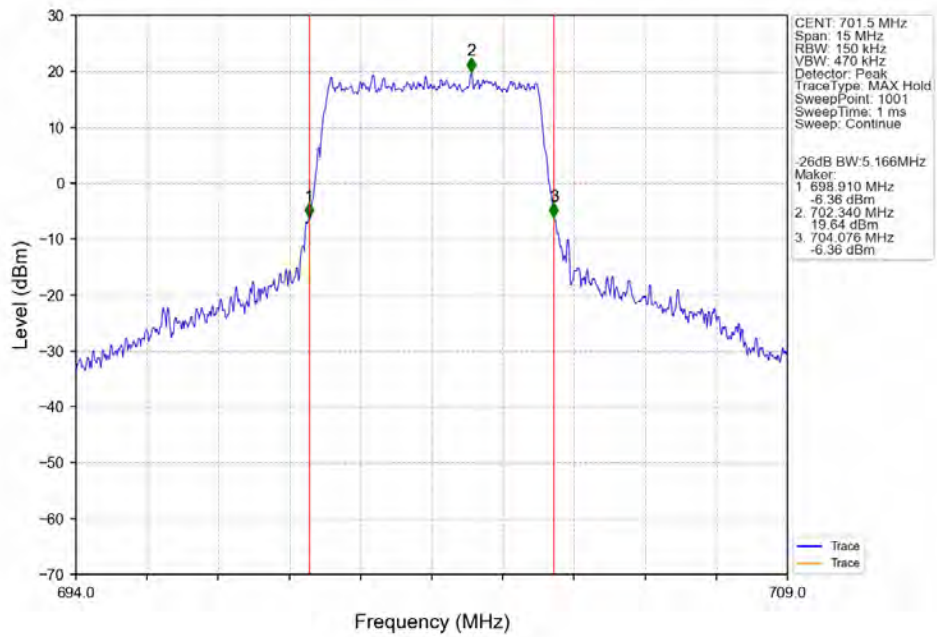
Band12 3MHz 64QAM MCH 707.5MHz RB 15 0 NTNV



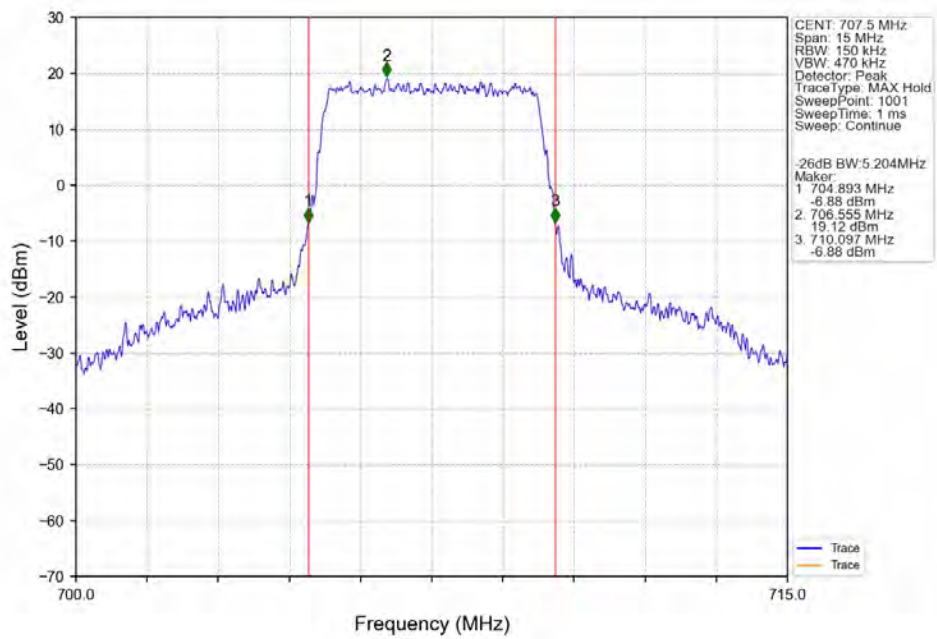
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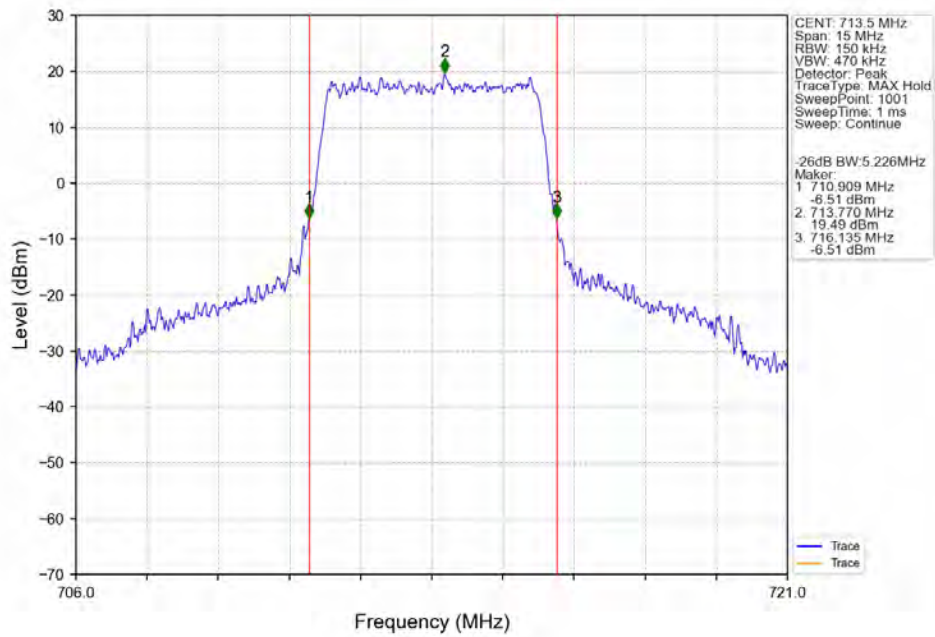
Band12 5MHz QPSK LCH 701.5MHz RB 25 0 NTNV



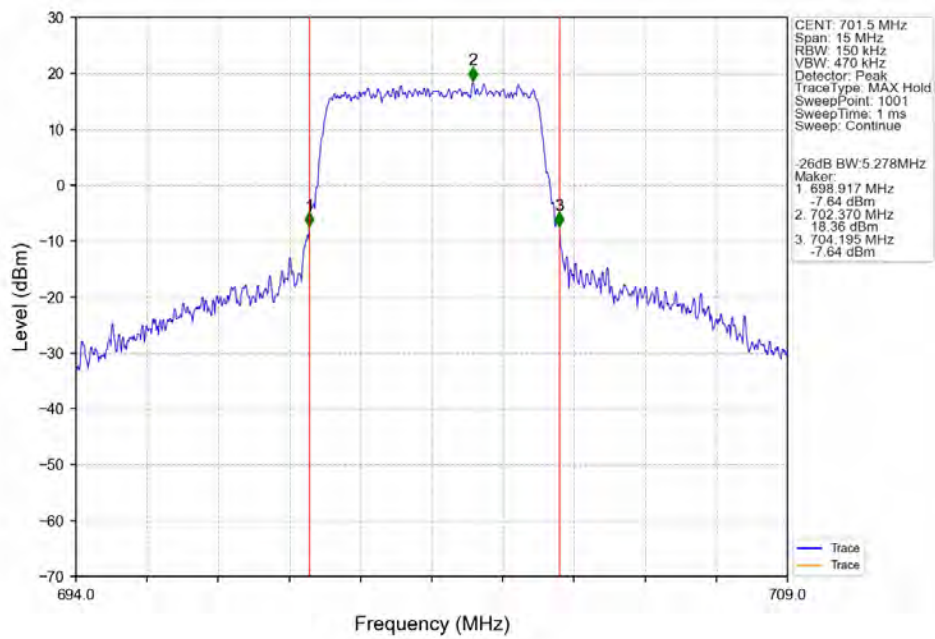
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



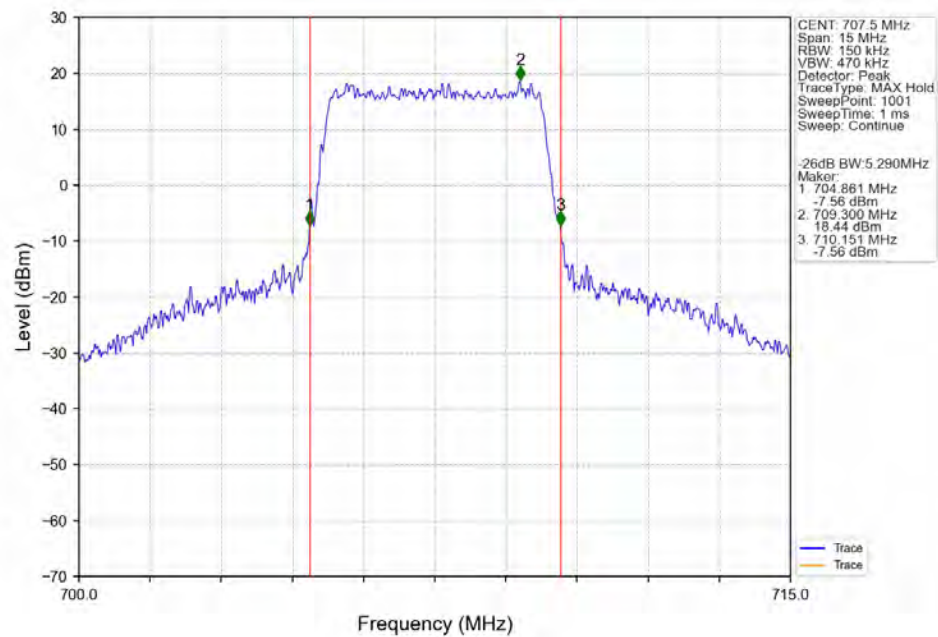
Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTNV



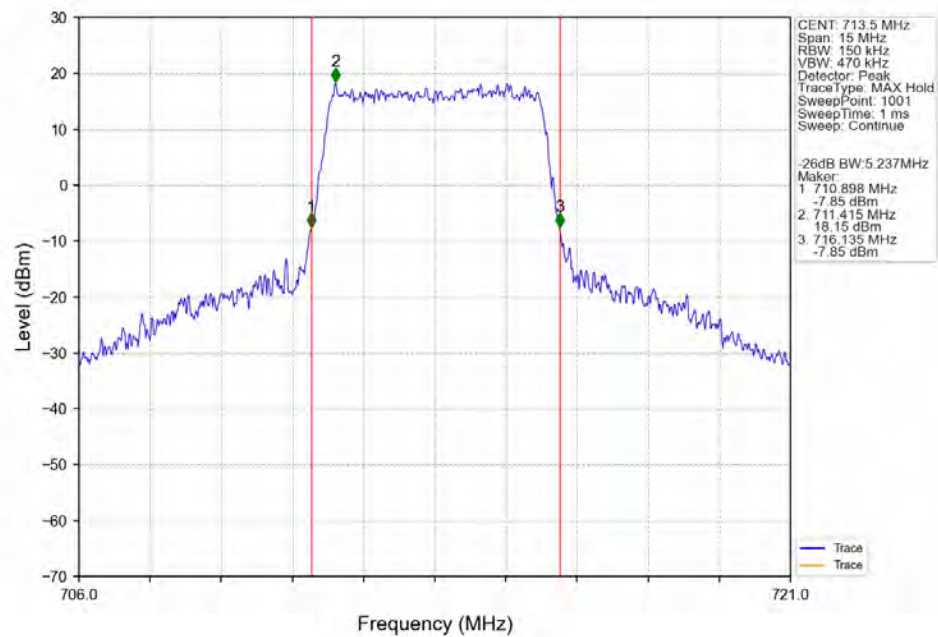
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



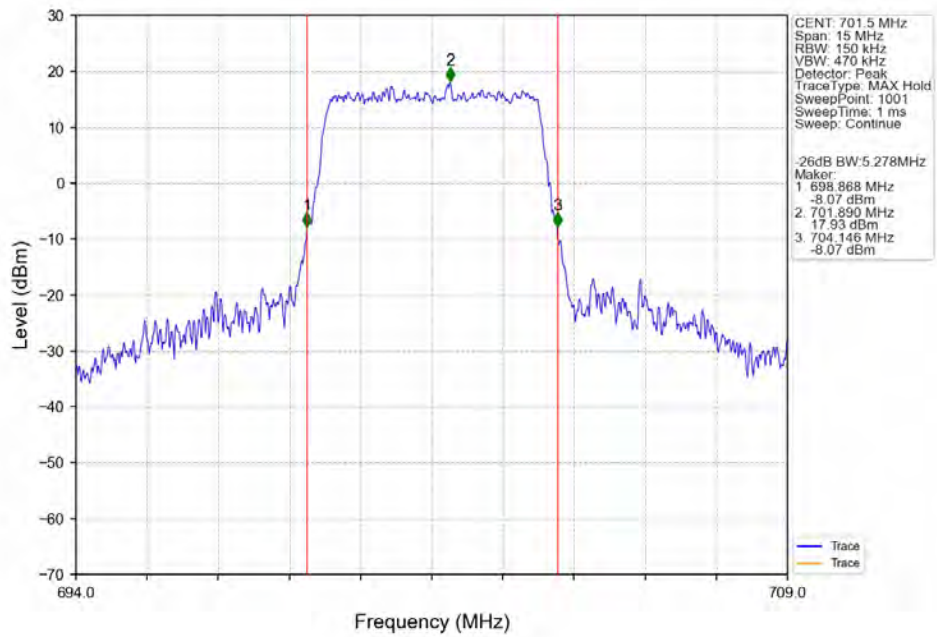
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV



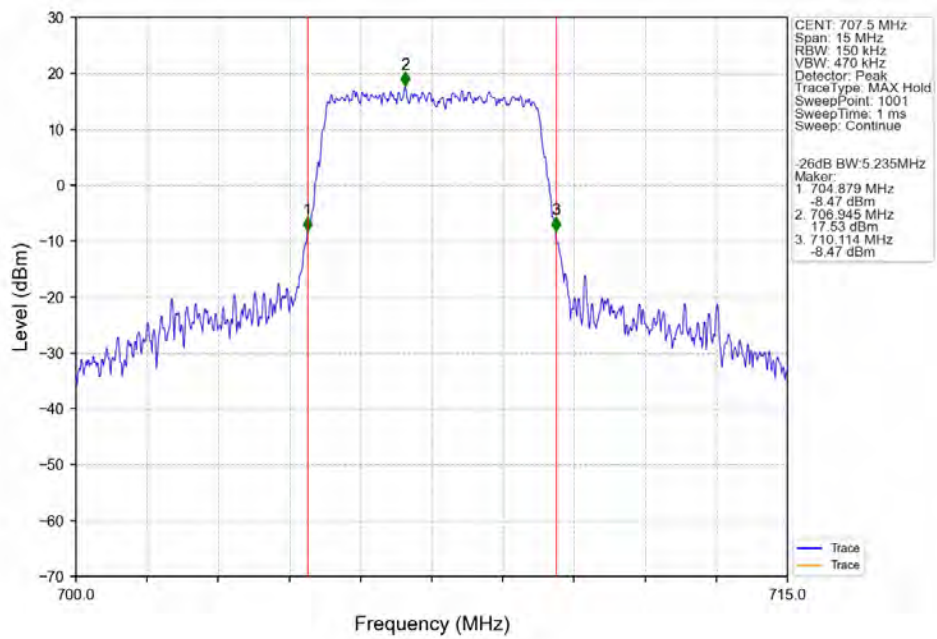
Band12 5MHz 16QAM HCH 713.5MHz RB 25 0 NTNV



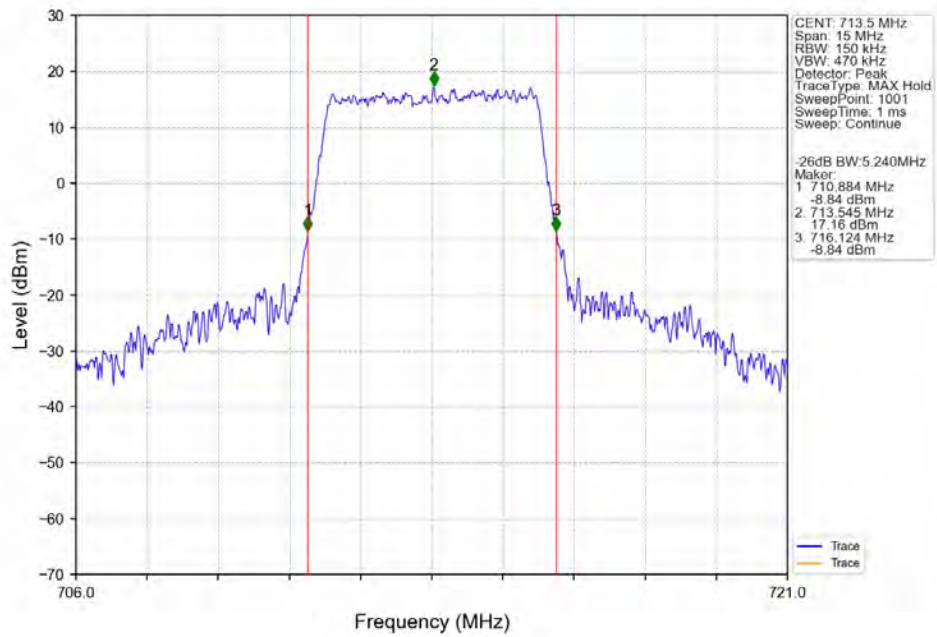
Band12\_5MHz\_64QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



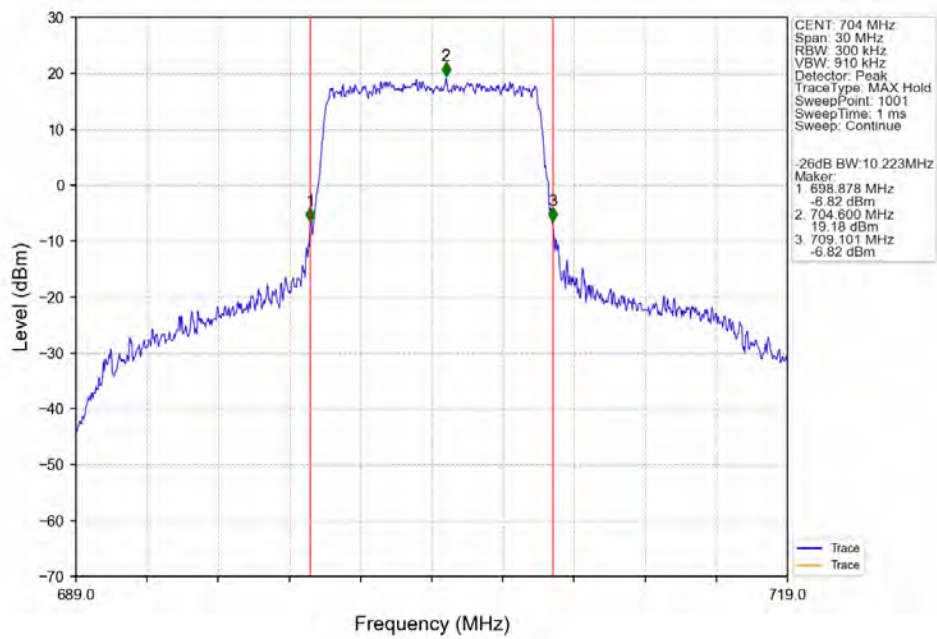
Band12\_5MHz\_64QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



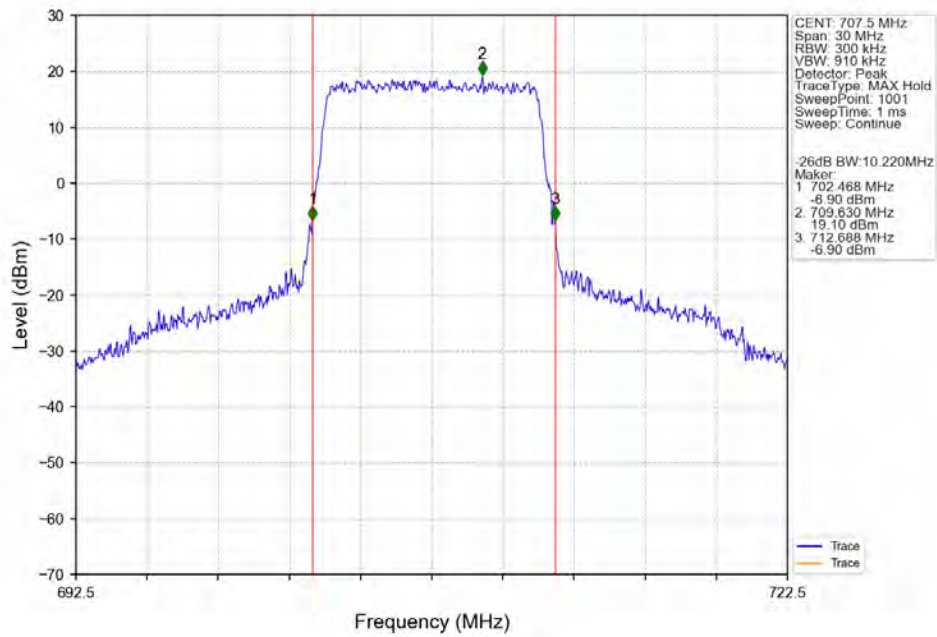
Band12 5MHz 64QAM HCH 713.5MHz RB 25 0 NTN



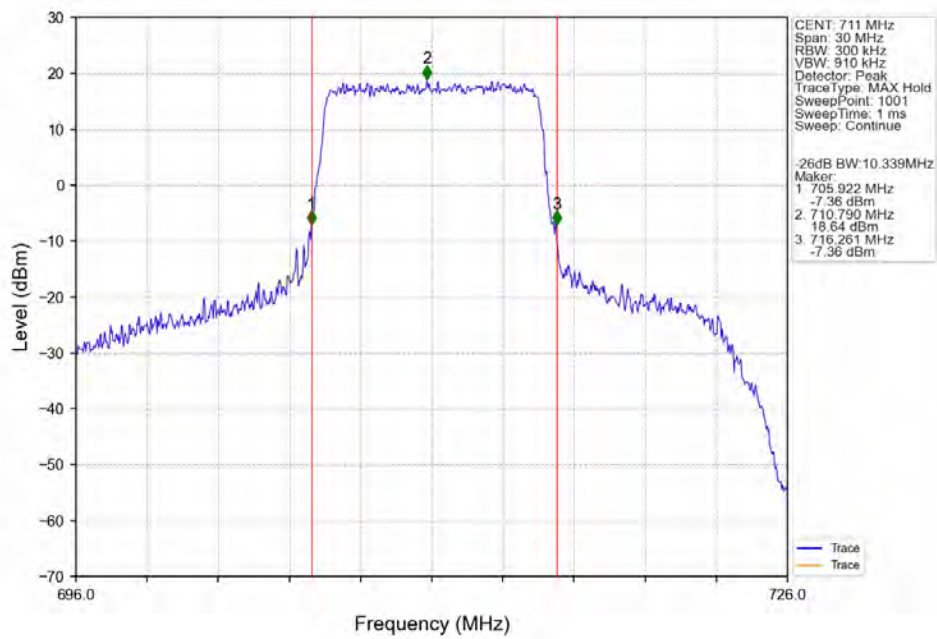
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0 NTN



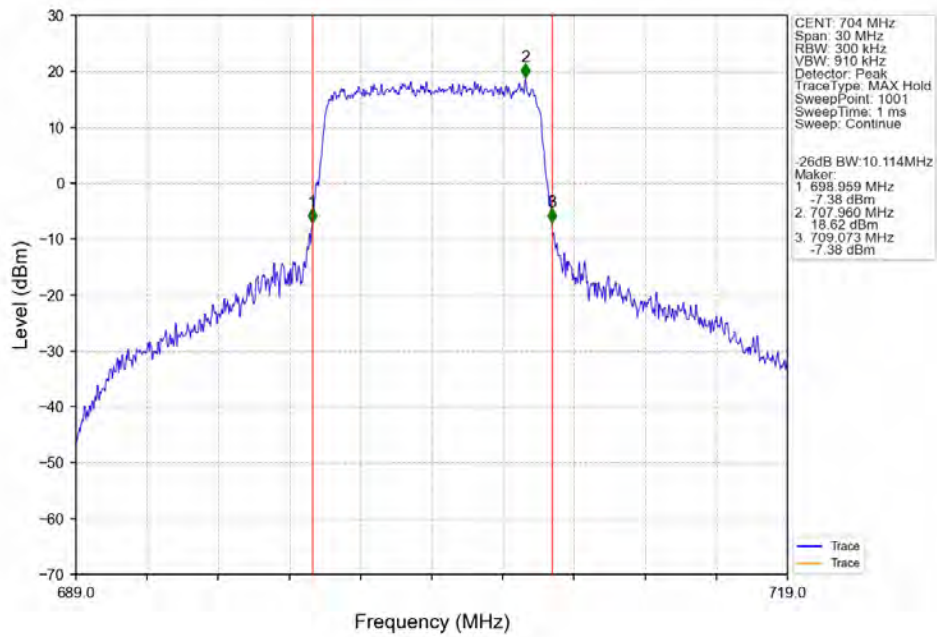
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



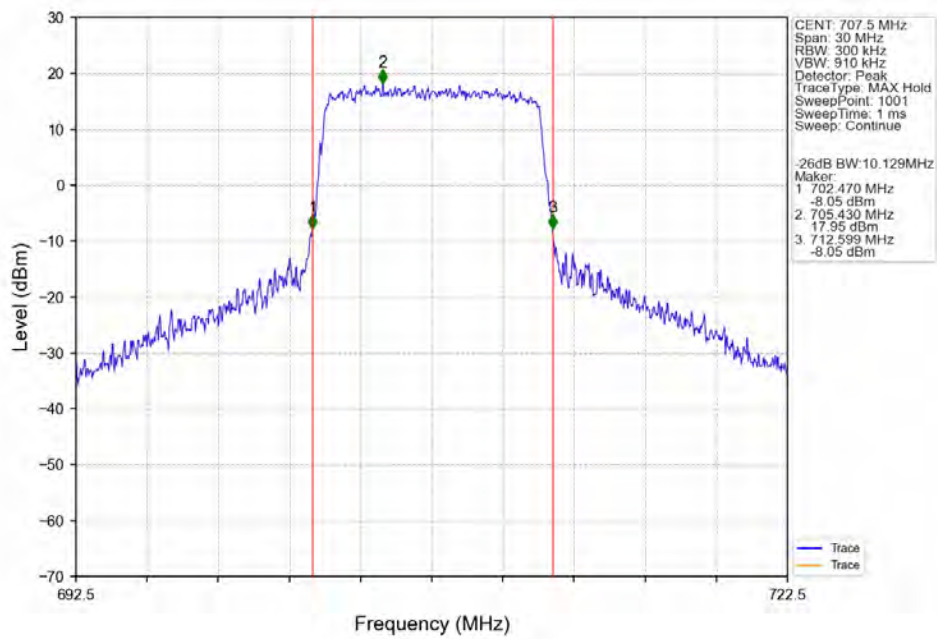
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



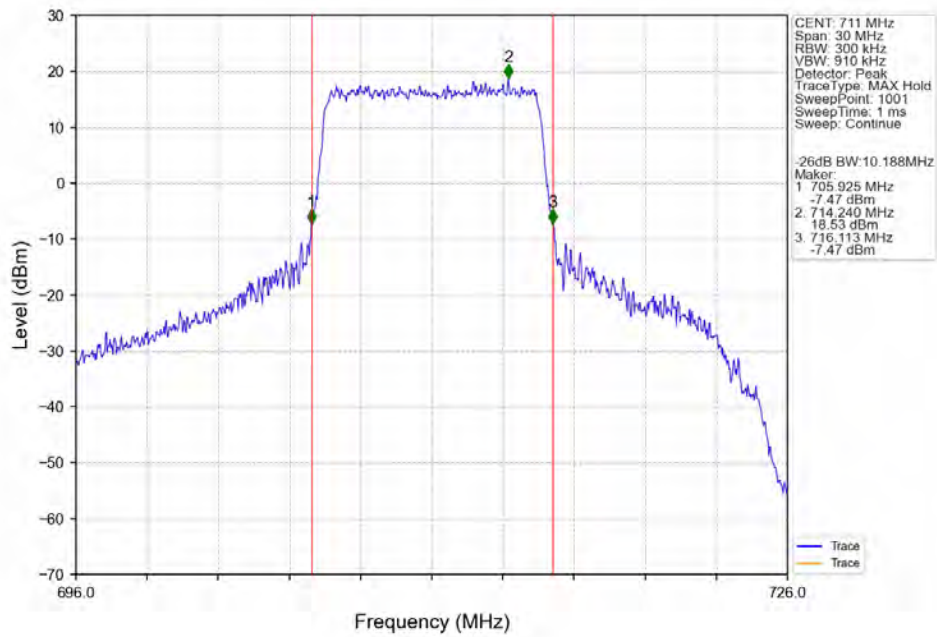
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



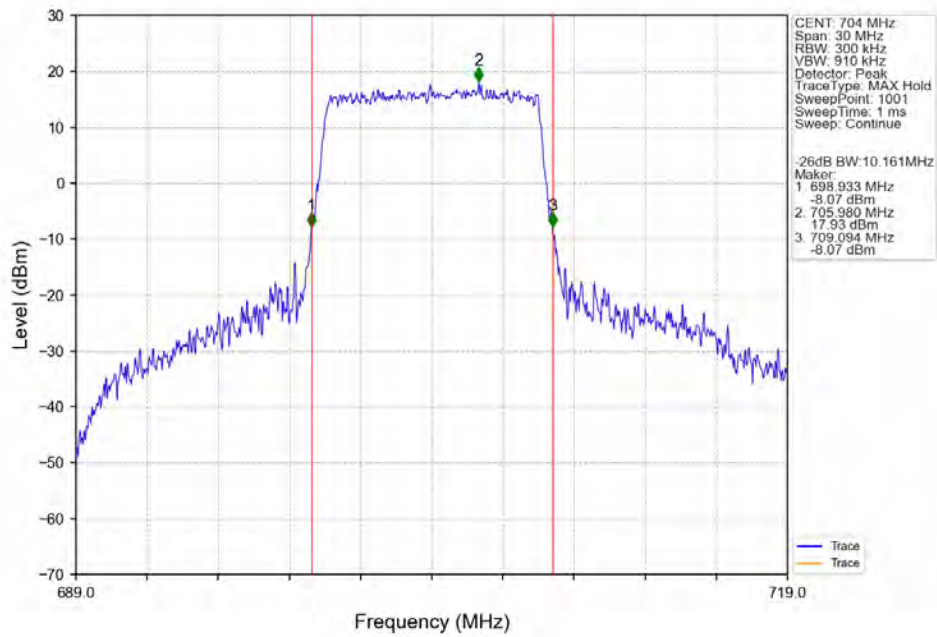
Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



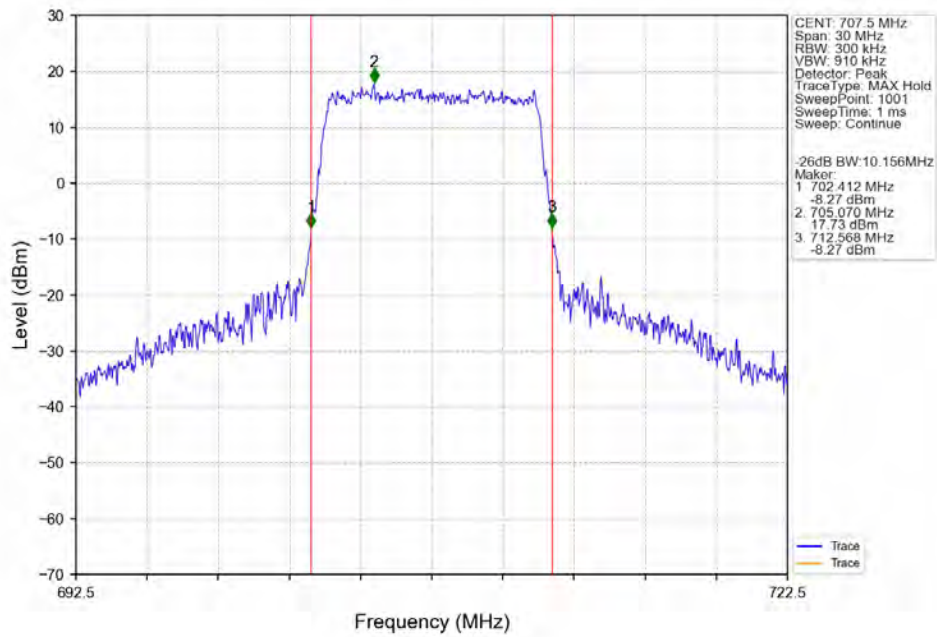
Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



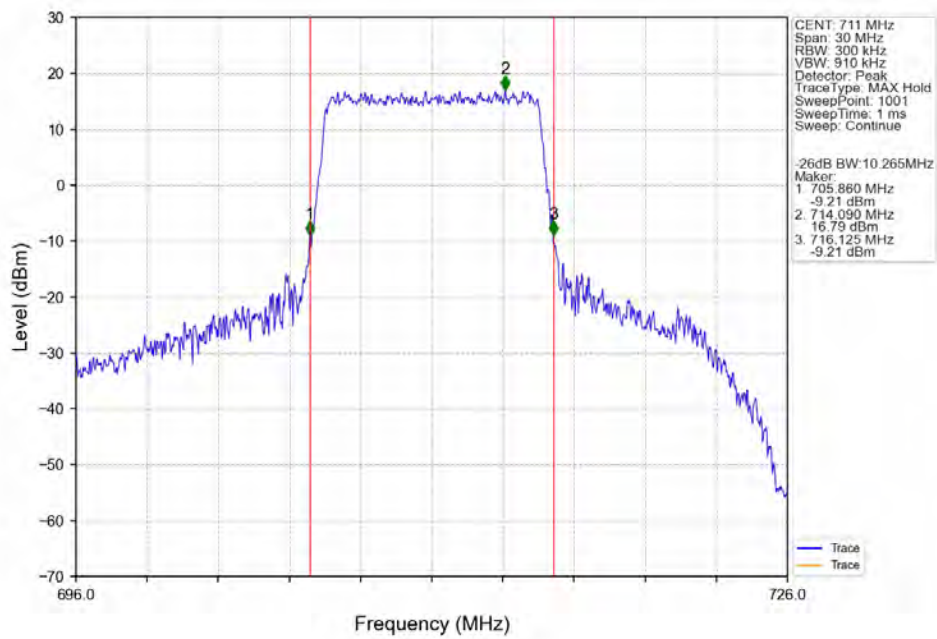
Band12\_10MHz\_64QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_64QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_64QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



## 4. Peak-Average Ratio

### 4.1 Test Result

#### 4.1.1 B12\_1.4MHz

| Band: 12 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                         |       |         |
|-------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                     |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                                | 699.7           | 6             | 0      | 4.90                    | <=13  | Pass    |
|                                     | 707.5           | 6             | 0      | 4.81                    | <=13  | Pass    |
|                                     | 715.3           | 6             | 0      | 4.57                    | <=13  | Pass    |
| 16QAM                               | 699.7           | 6             | 0      | 5.81                    | <=13  | Pass    |
|                                     | 707.5           | 6             | 0      | 5.74                    | <=13  | Pass    |
|                                     | 715.3           | 6             | 0      | 5.48                    | <=13  | Pass    |
| 64QAM                               | 699.7           | 6             | 0      | 6.40                    | <=13  | Pass    |
|                                     | 707.5           | 6             | 0      | 6.35                    | <=13  | Pass    |
|                                     | 715.3           | 6             | 0      | 6.13                    | <=13  | Pass    |

#### 4.1.2 B12\_3MHz

| Band: 12 / Bandwidth: 3MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 700.5           | 15            | 0      | 5.16                    | <=13  | Pass    |
|                                   | 707.5           | 15            | 0      | 5.07                    | <=13  | Pass    |
|                                   | 714.5           | 15            | 0      | 4.96                    | <=13  | Pass    |
| 16QAM                             | 700.5           | 15            | 0      | 6.03                    | <=13  | Pass    |
|                                   | 707.5           | 15            | 0      | 5.94                    | <=13  | Pass    |
|                                   | 714.5           | 15            | 0      | 5.83                    | <=13  | Pass    |
| 64QAM                             | 700.5           | 15            | 0      | 6.45                    | <=13  | Pass    |
|                                   | 707.5           | 15            | 0      | 6.38                    | <=13  | Pass    |
|                                   | 714.5           | 15            | 0      | 6.30                    | <=13  | Pass    |

#### 4.1.3 B12\_5MHz

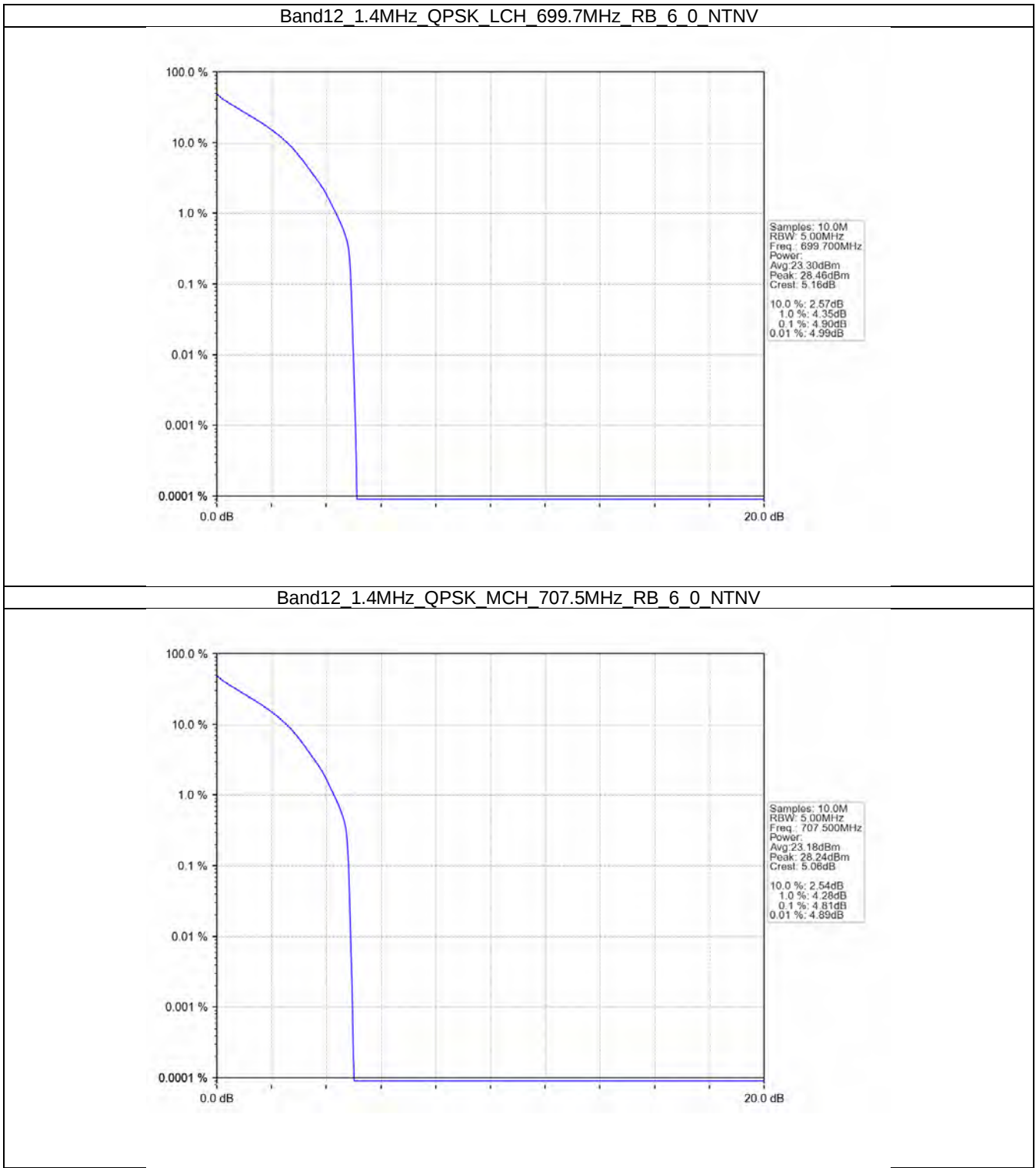
| Band: 12 / Bandwidth: 5MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 701.5           | 25            | 0      | 5.34                    | <=13  | Pass    |
|                                   | 707.5           | 25            | 0      | 5.36                    | <=13  | Pass    |
|                                   | 713.5           | 25            | 0      | 5.32                    | <=13  | Pass    |
| 16QAM                             | 701.5           | 25            | 0      | 6.15                    | <=13  | Pass    |
|                                   | 707.5           | 25            | 0      | 6.12                    | <=13  | Pass    |
|                                   | 713.5           | 25            | 0      | 6.11                    | <=13  | Pass    |
| 64QAM                             | 701.5           | 25            | 0      | 6.47                    | <=13  | Pass    |
|                                   | 707.5           | 25            | 0      | 6.45                    | <=13  | Pass    |
|                                   | 713.5           | 25            | 0      | 6.43                    | <=13  | Pass    |

#### 4.1.4 B12\_10MHz

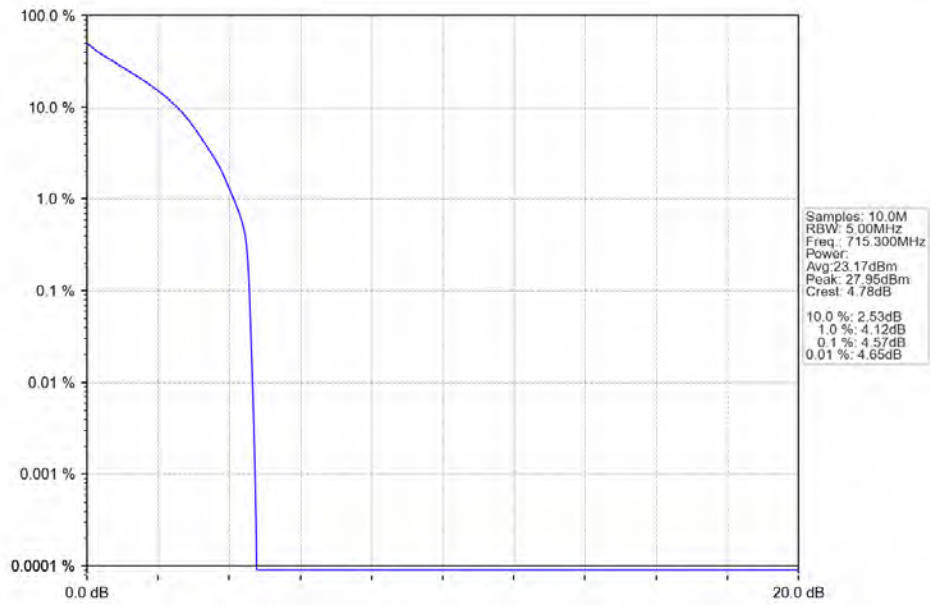
| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 704             | 50            | 0      | 5.26                    | <=13  | Pass    |
|                                    | 707.5           | 50            | 0      | 5.31                    | <=13  | Pass    |
|                                    | 711             | 50            | 0      | 5.35                    | <=13  | Pass    |
| 16QAM                              | 704             | 50            | 0      | 6.06                    | <=13  | Pass    |
|                                    | 707.5           | 50            | 0      | 6.10                    | <=13  | Pass    |
|                                    | 711             | 50            | 0      | 6.13                    | <=13  | Pass    |
| 64QAM                              | 704             | 50            | 0      | 6.41                    | <=13  | Pass    |
|                                    | 707.5           | 50            | 0      | 6.43                    | <=13  | Pass    |
|                                    | 711             | 50            | 0      | 6.45                    | <=13  | Pass    |

4.2 Test Graph

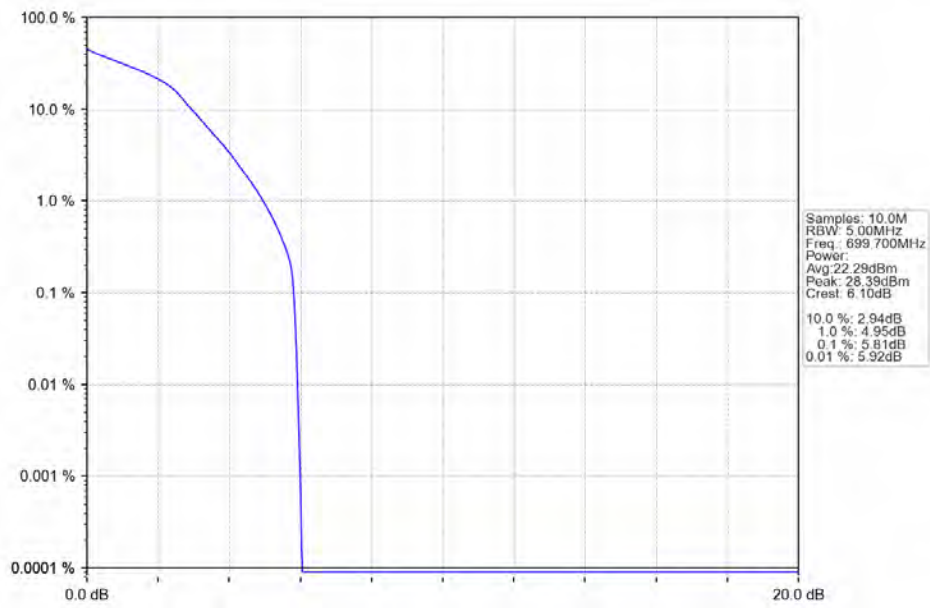
4.2.1 B12\_1.4MHz



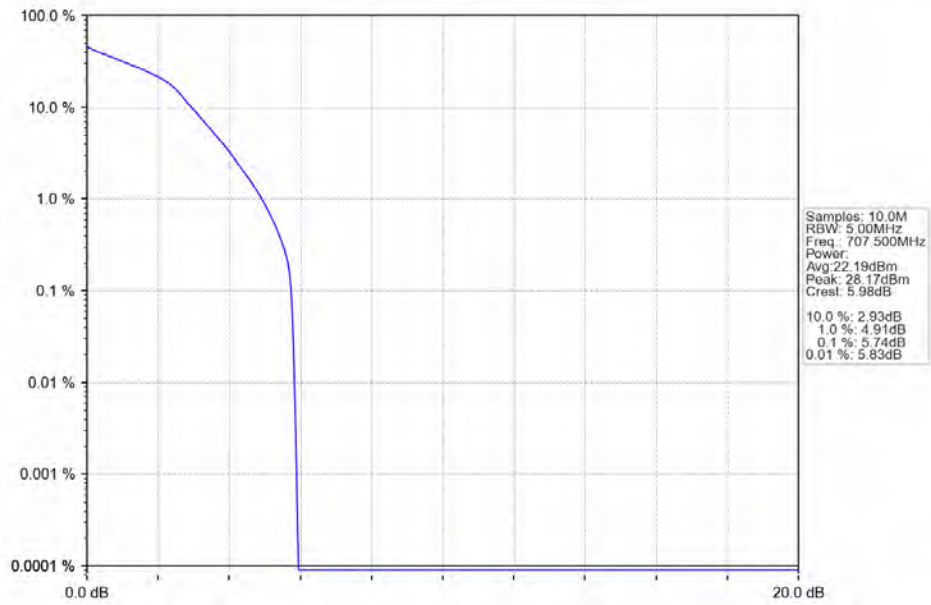
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



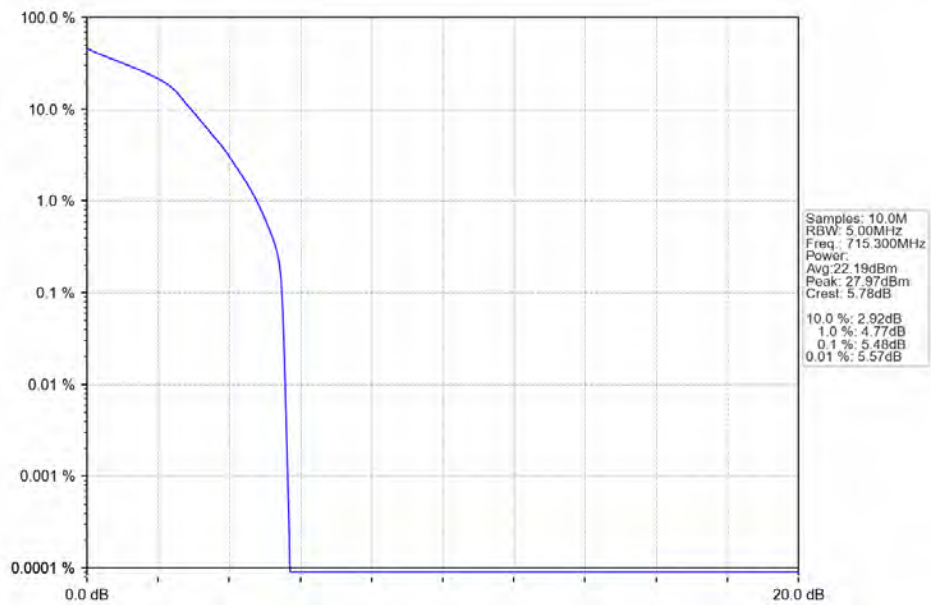
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTNV



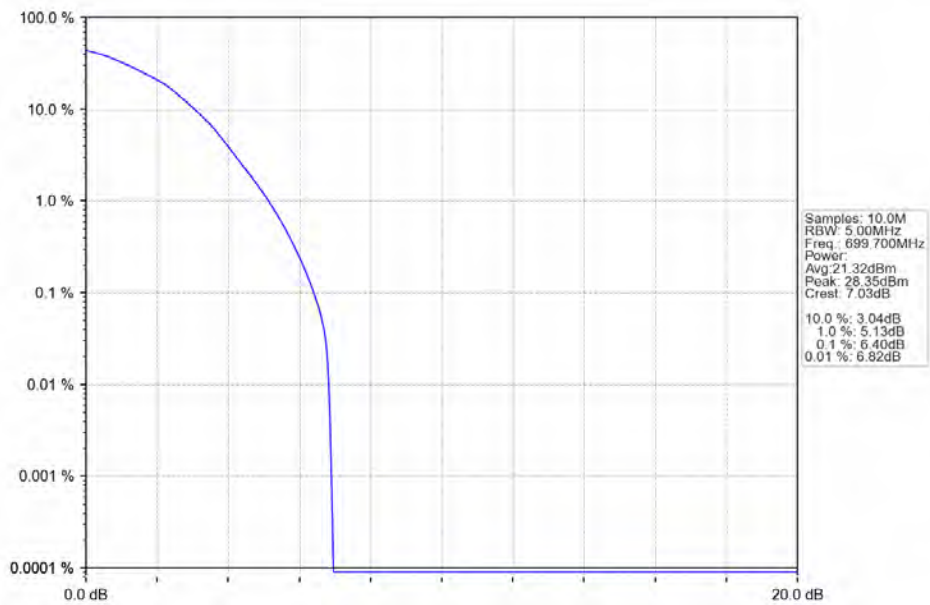
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6.0 NTNV



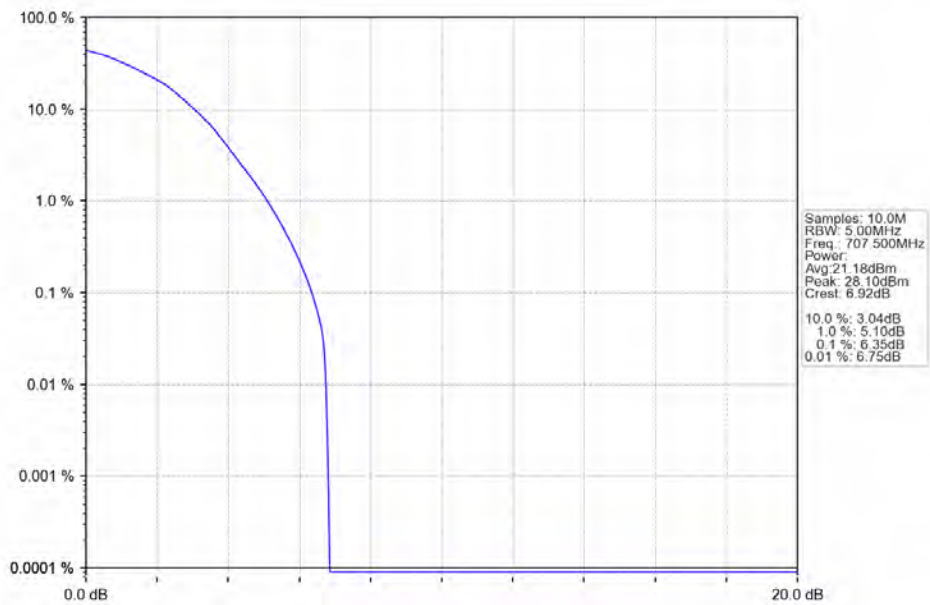
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6.0 NTNV



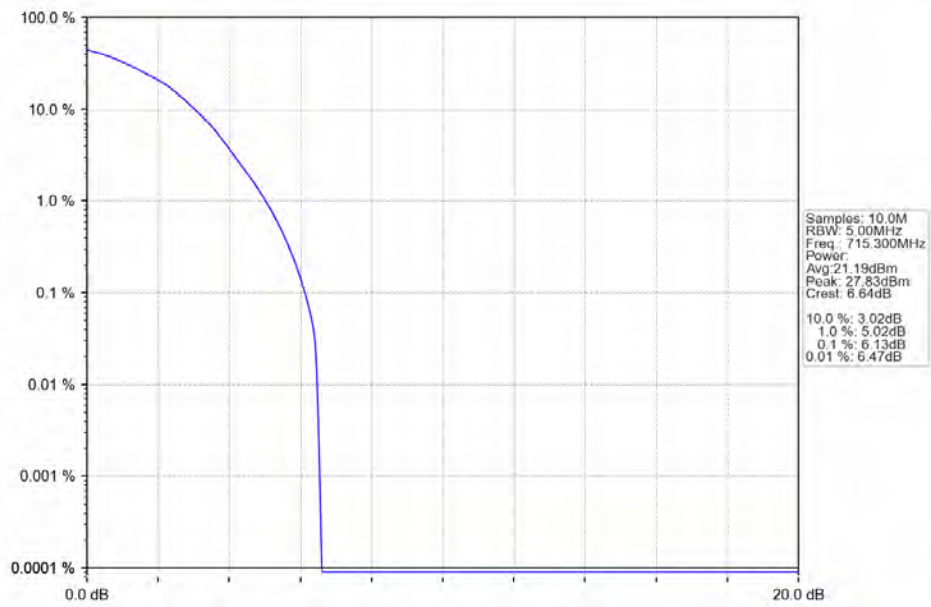
Band12 1.4MHz 64QAM LCH 699.7MHz RB 6 0 NTNV



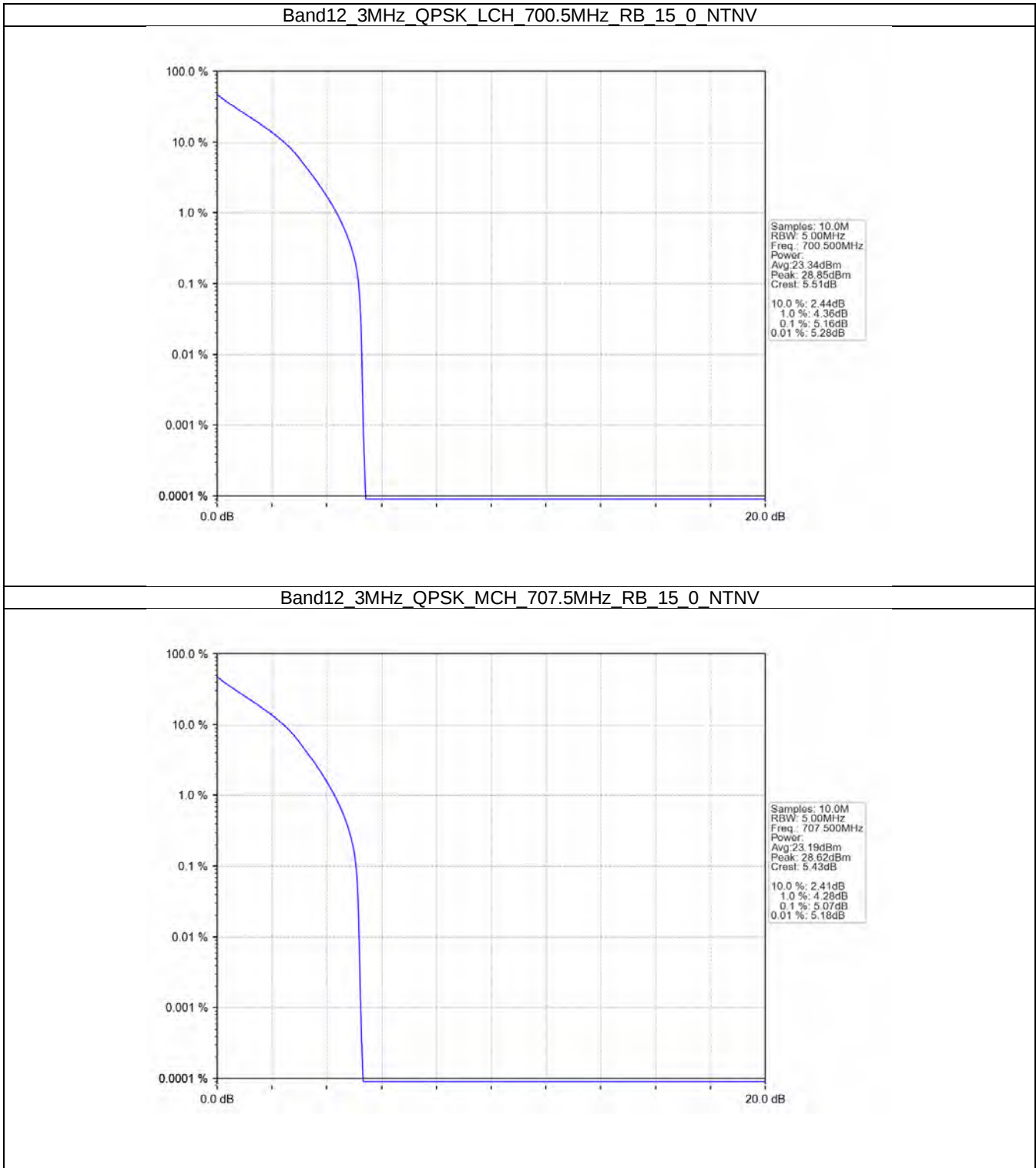
Band12 1.4MHz 64QAM MCH 707.5MHz RB 6 0 NTNV



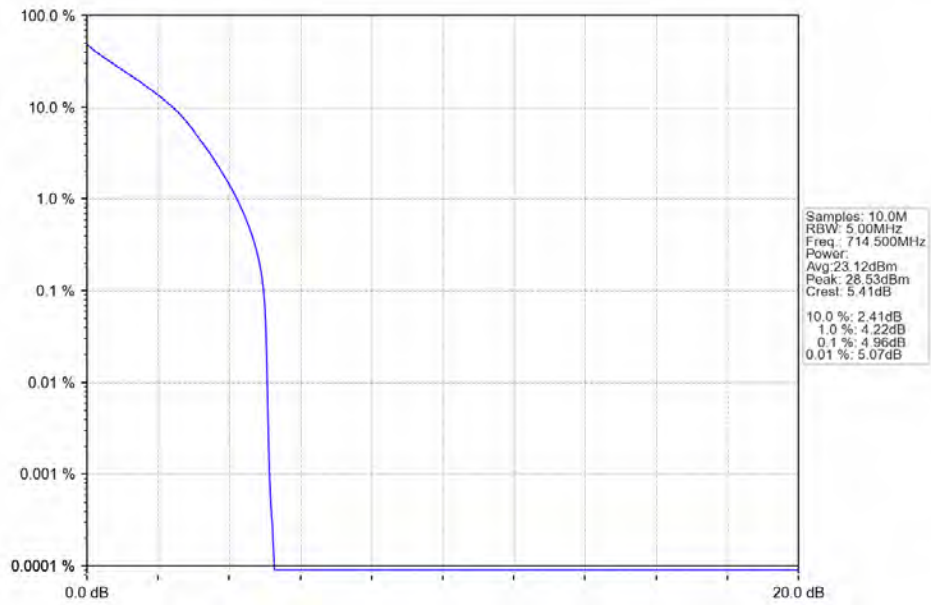
Band12 1.4MHz 64QAM HCH 715.3MHz RB 6 0 NTV



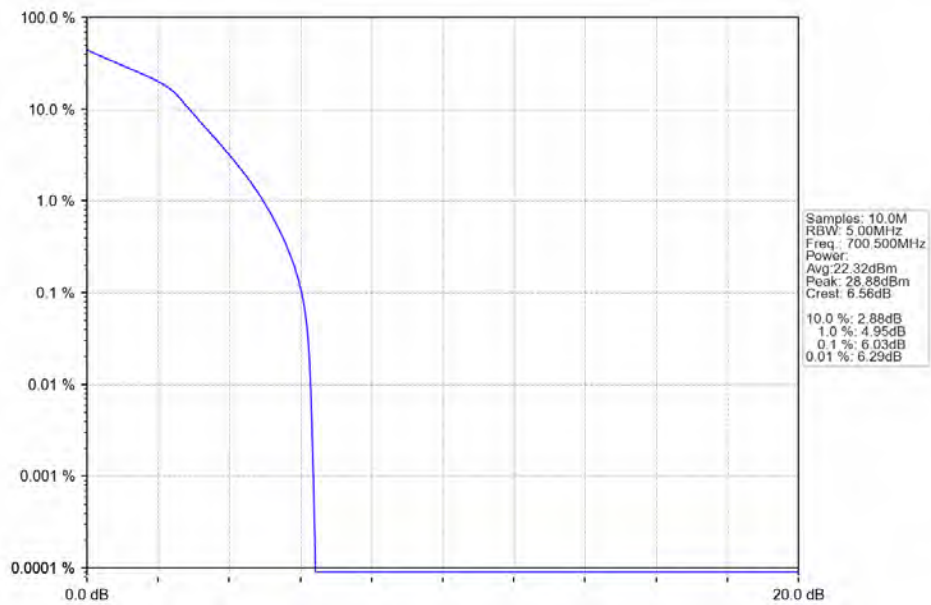
4.2.2 B12\_3MHz



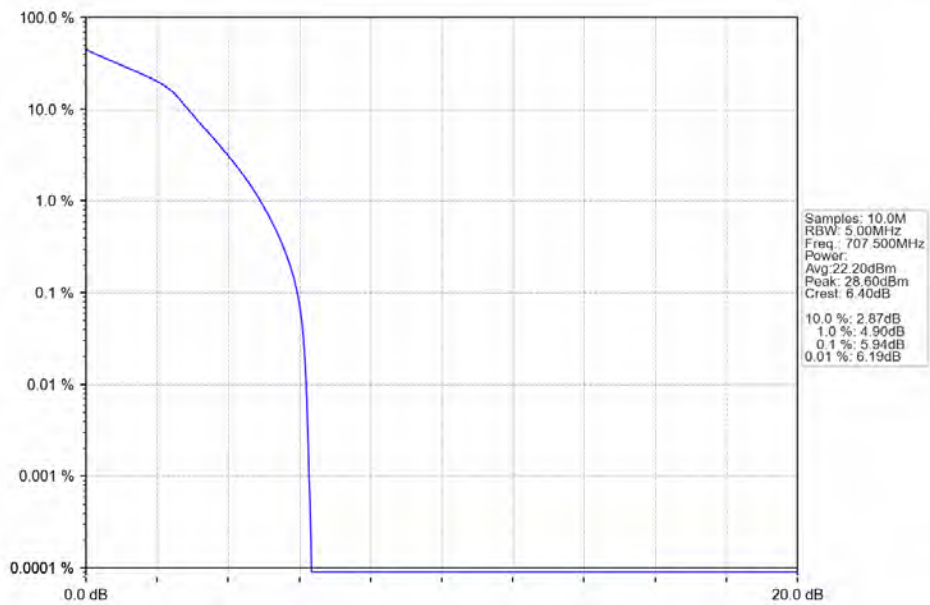
Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTN



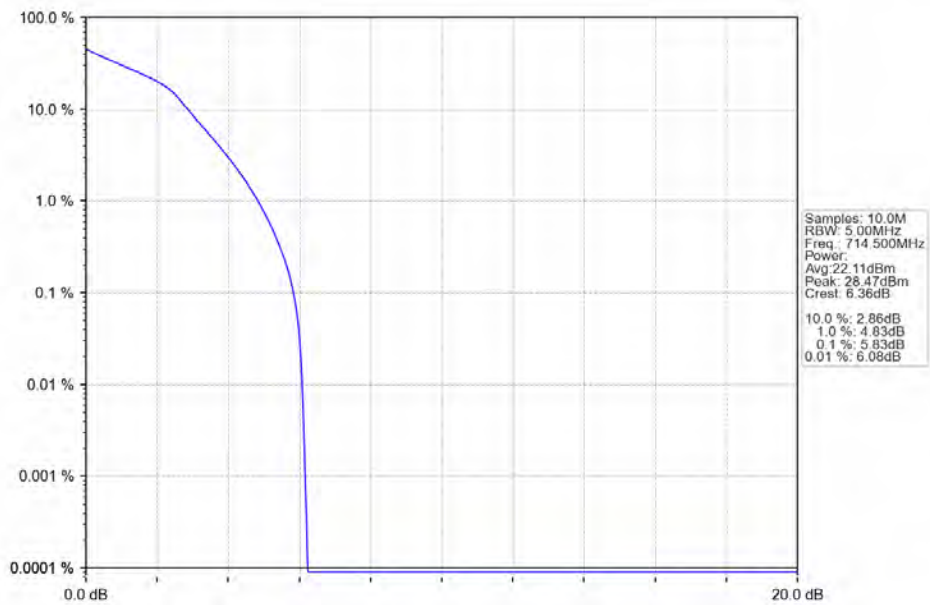
Band12 3MHz 16QAM LCH 700.5MHz RB 15 0 NTN



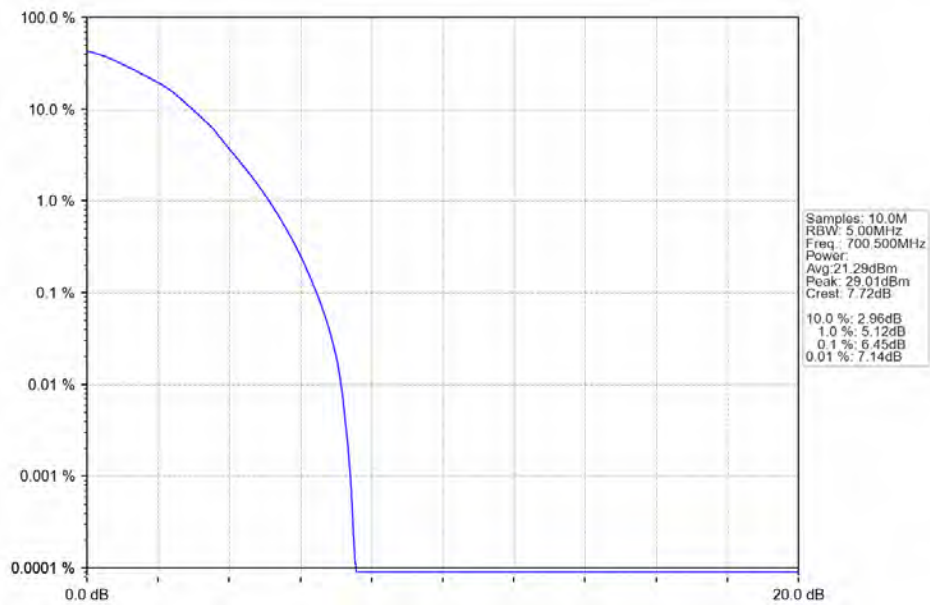
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



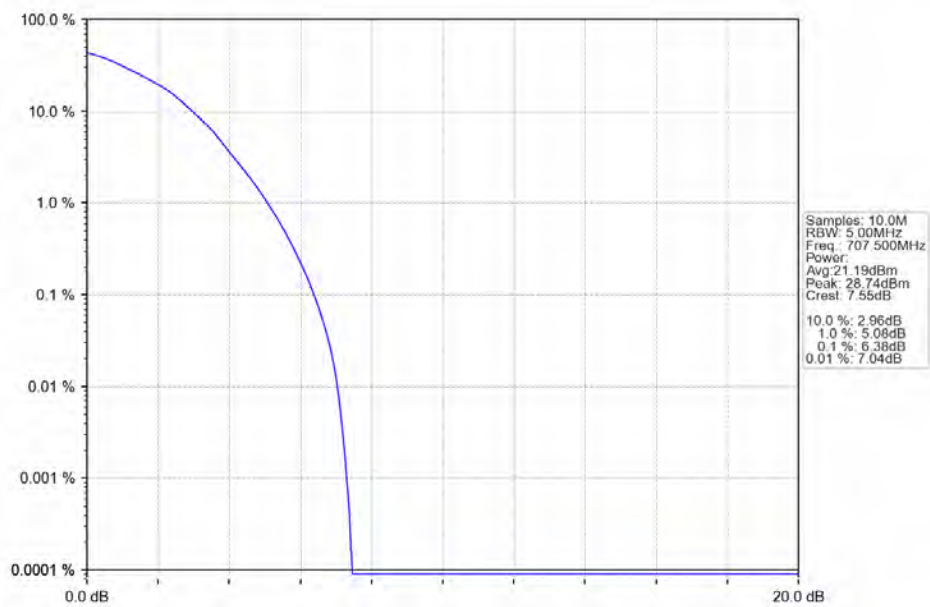
Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV



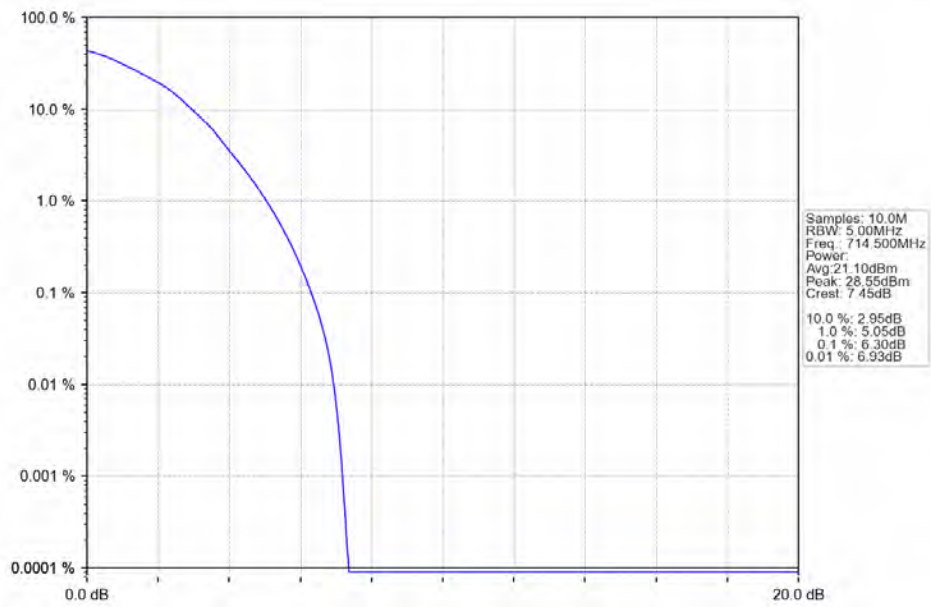
Band12\_3MHz\_64QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



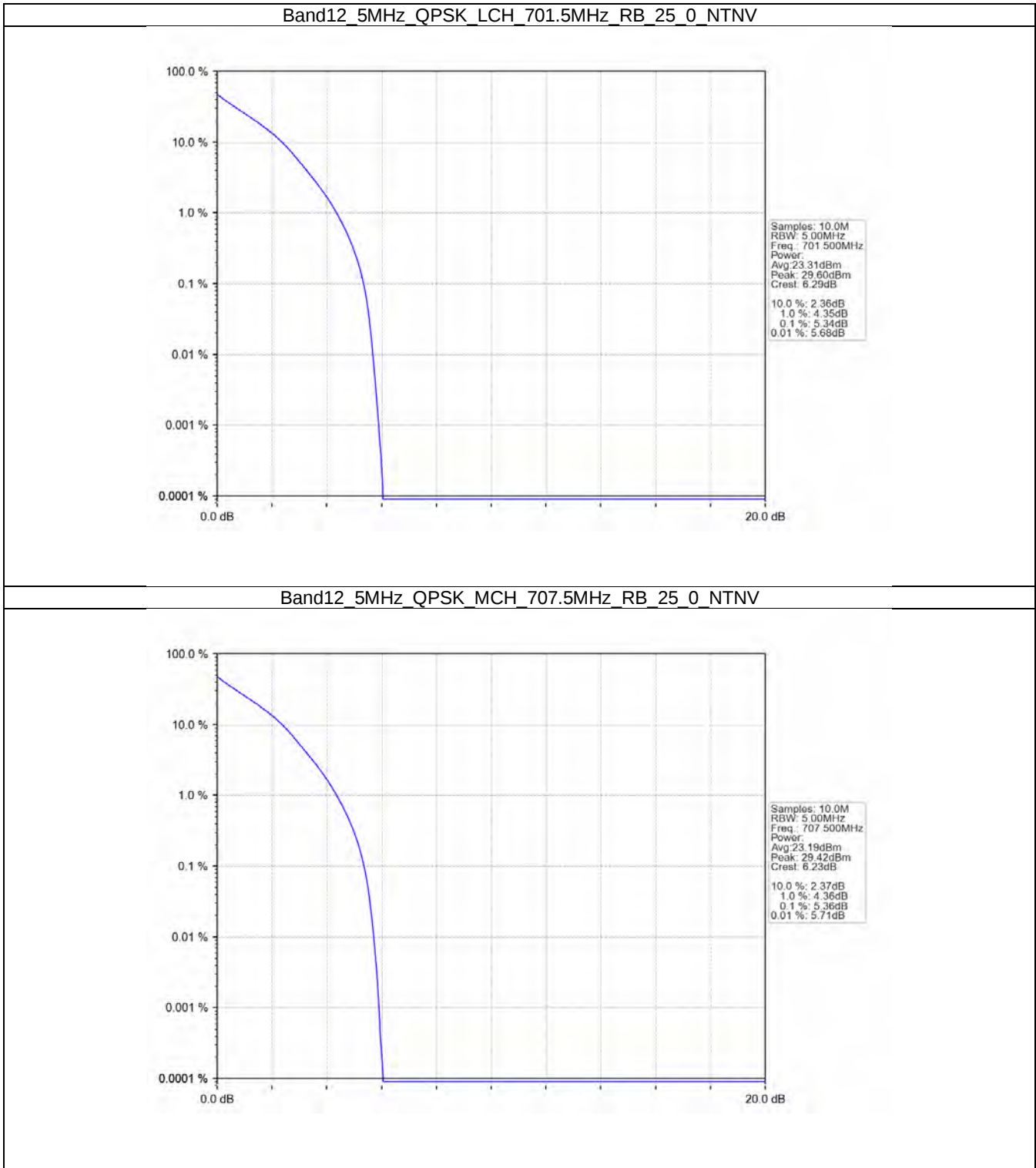
Band12\_3MHz\_64QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



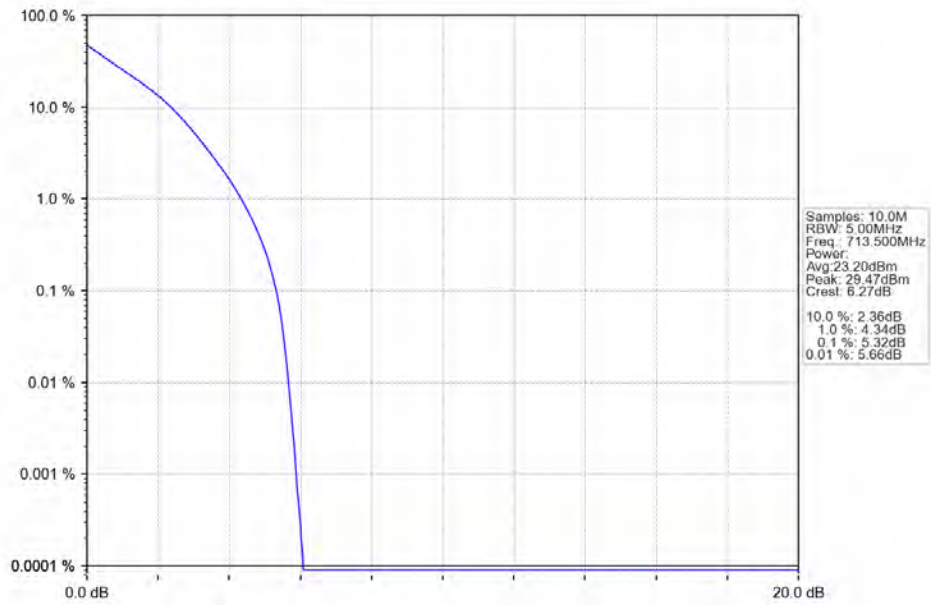
Band12 3MHz 64QAM HCH 714.5MHz RB 15 0 NTNV



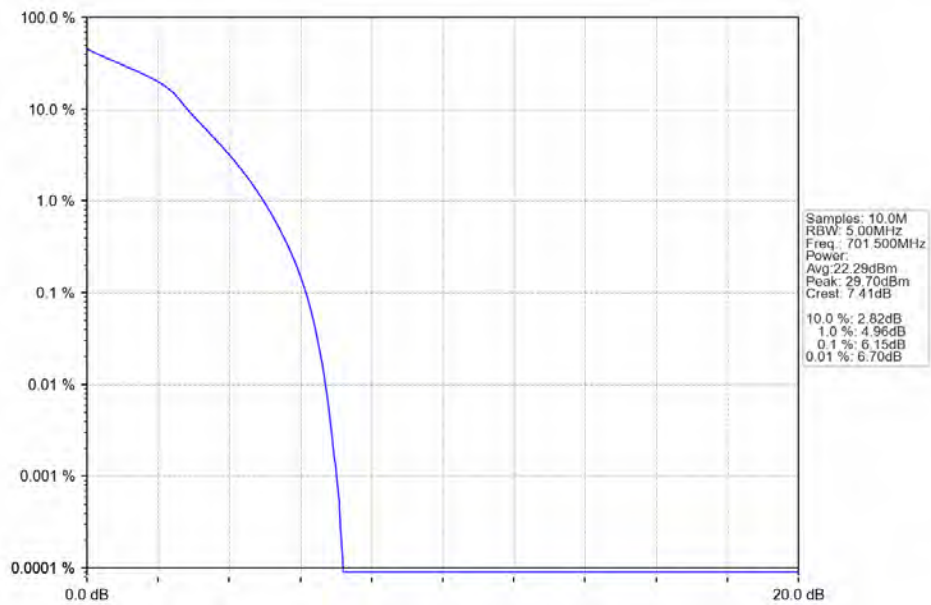
4.2.3 B12\_5MHz



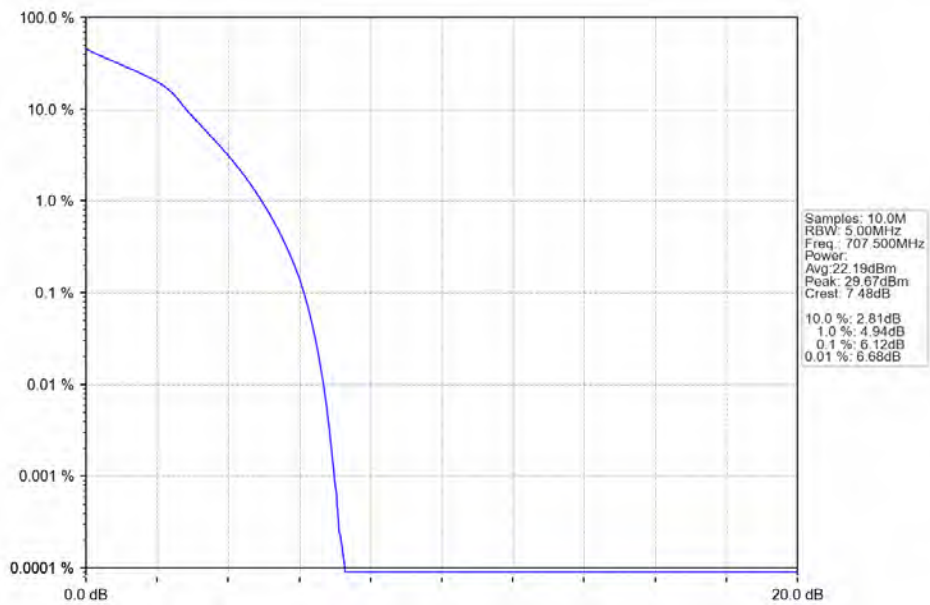
Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTN



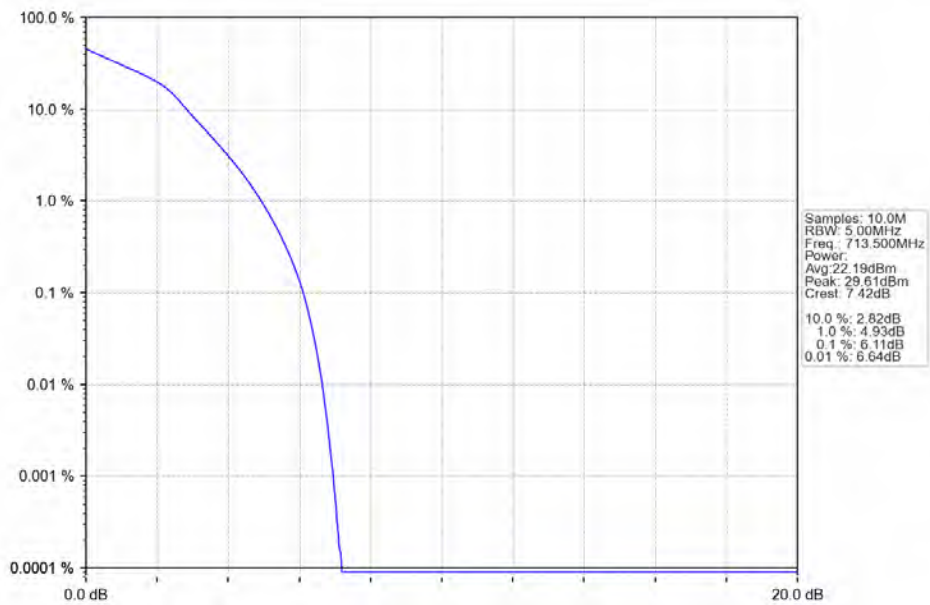
Band12 5MHz 16QAM LCH 701.5MHz RB 25 0 NTN



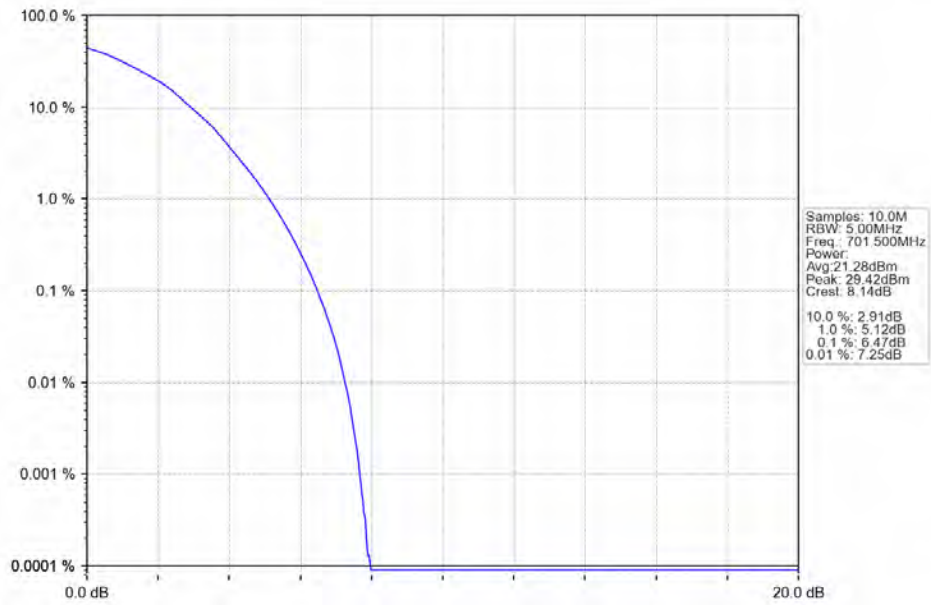
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV



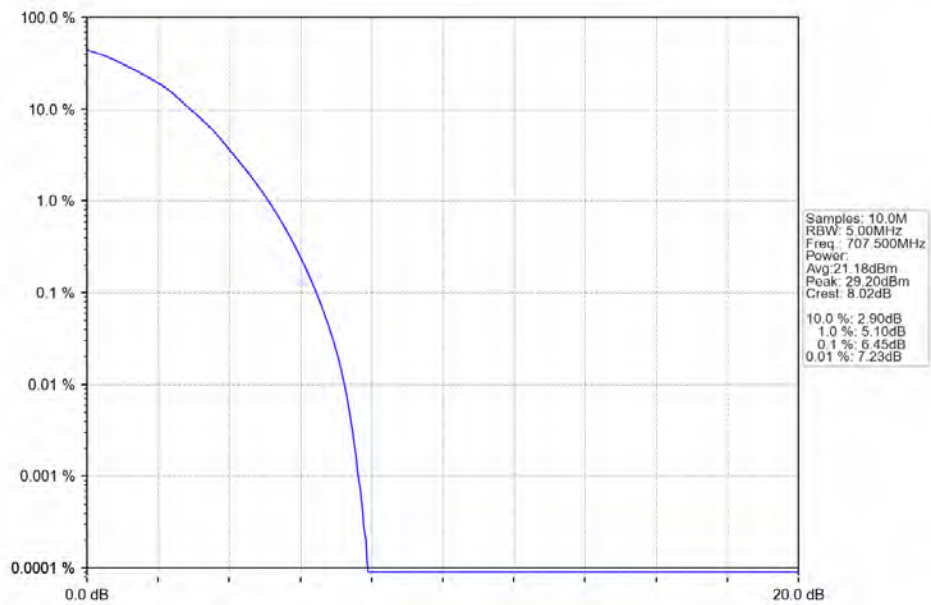
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



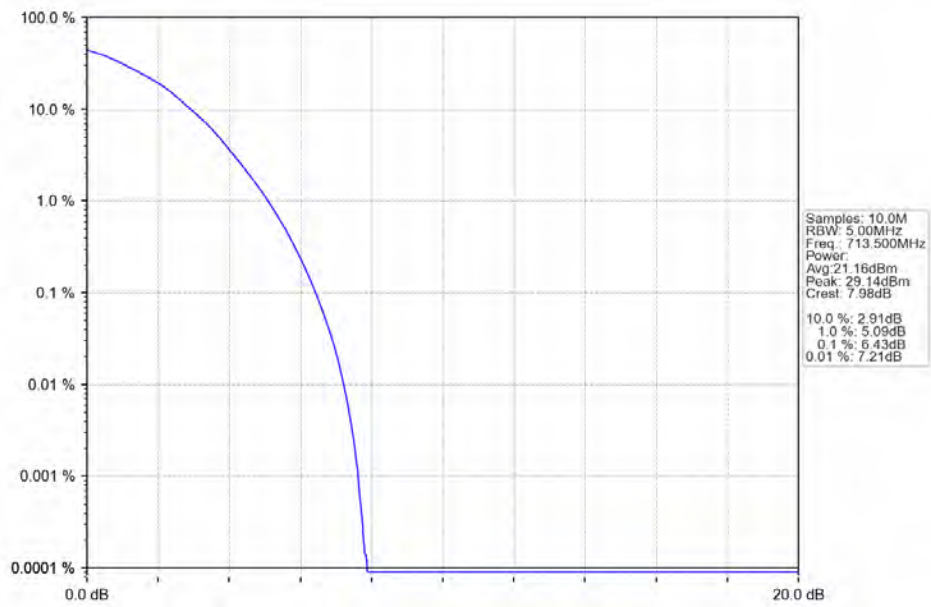
Band12 5MHz 64QAM LCH 701.5MHz RB 25 0 NTNV



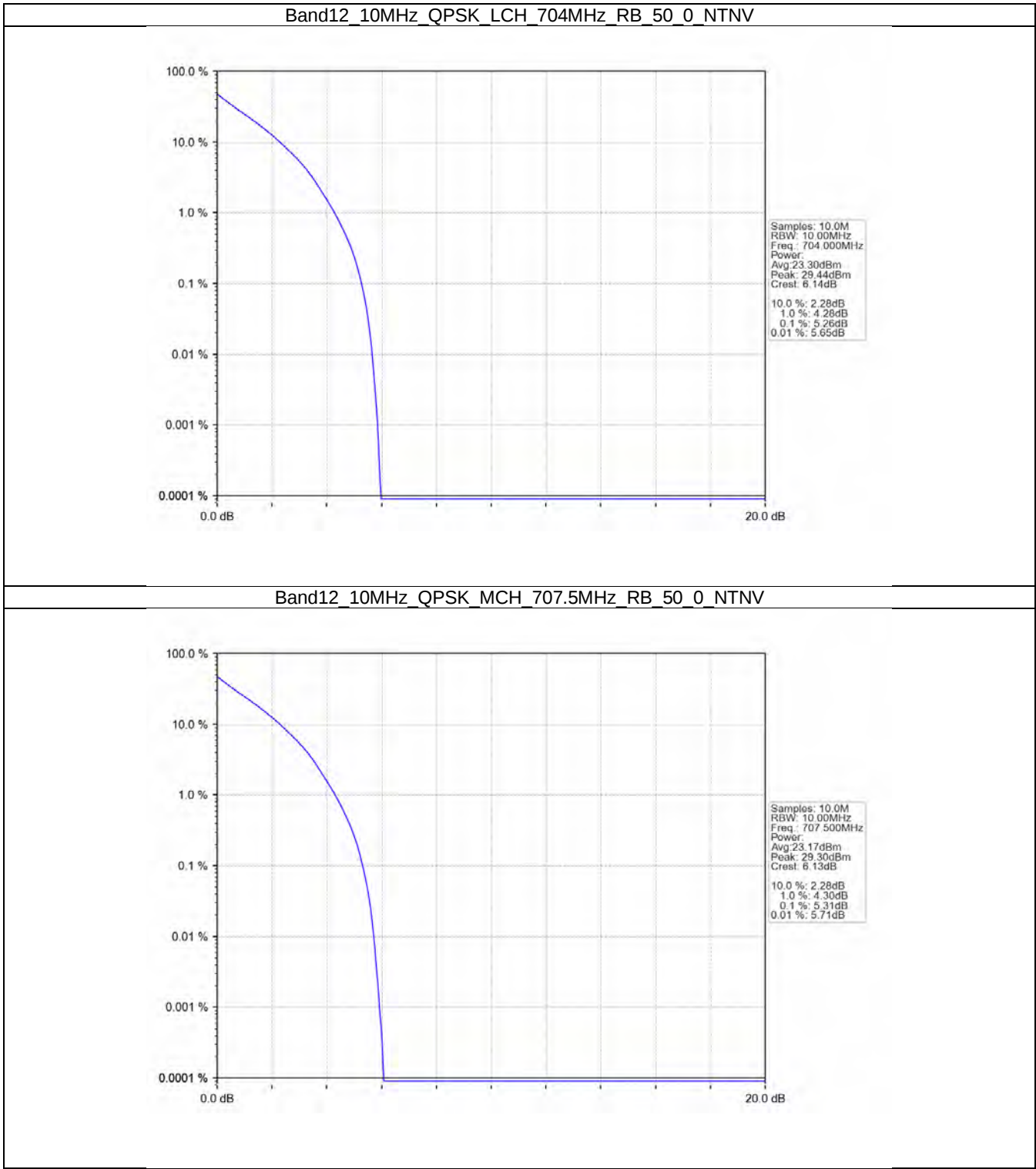
Band12 5MHz 64QAM MCH 707.5MHz RB 25 0 NTNV



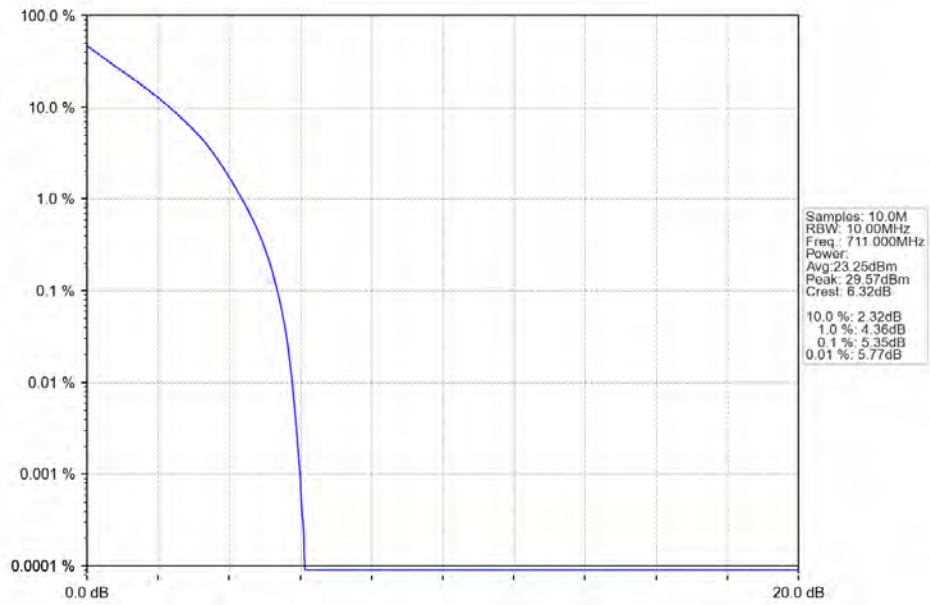
Band12 5MHz 64QAM HCH 713.5MHz RB 25 0 NTV



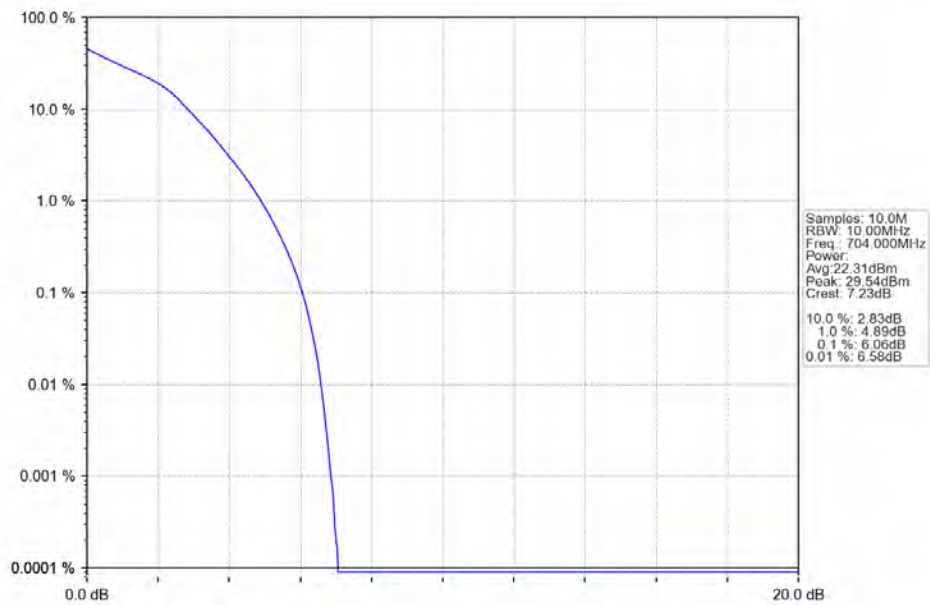
4.2.4 B12\_10MHz



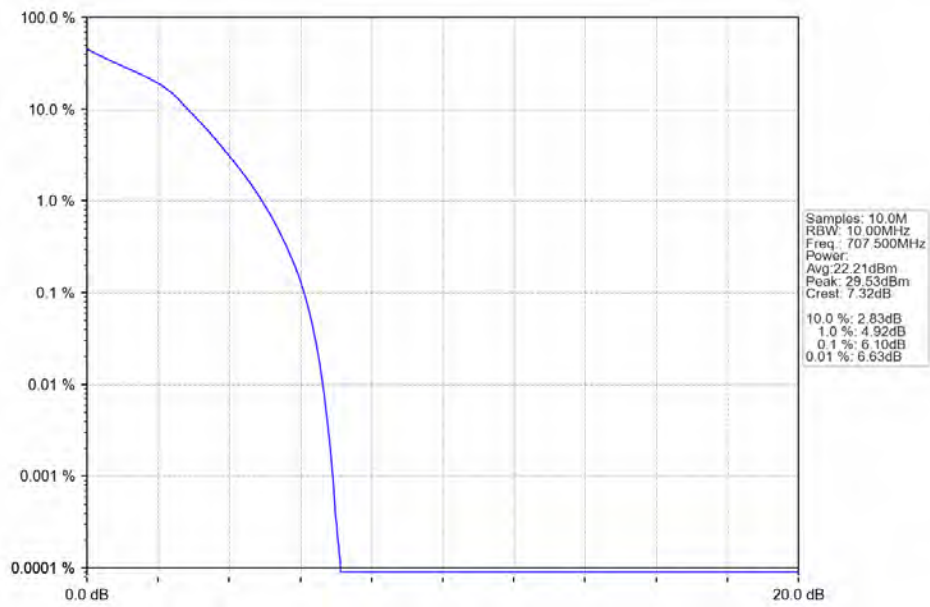
Band12 10MHz QPSK HCH 711MHz RB 50 0 NTN



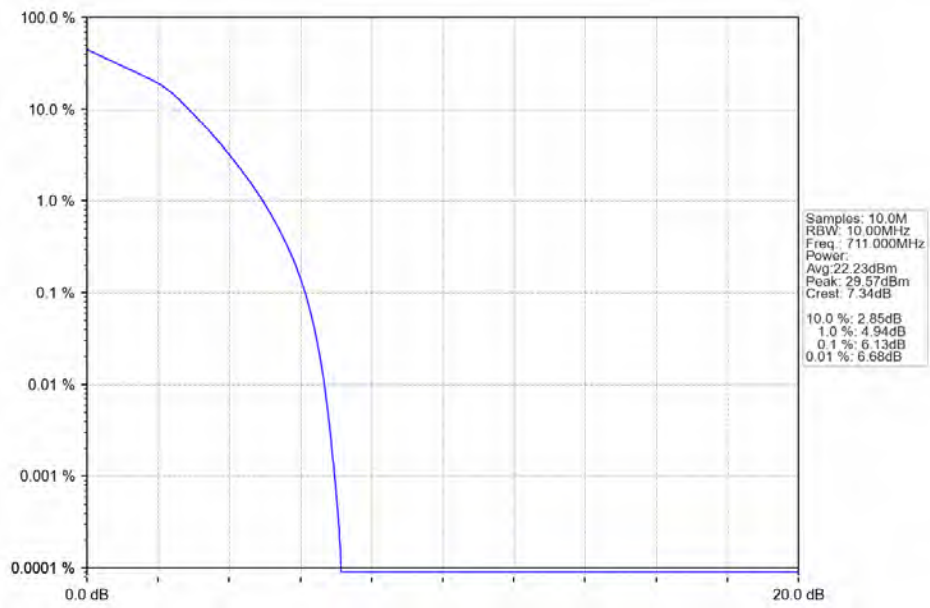
Band12 10MHz 16QAM LCH 704MHz RB 50 0 NTN



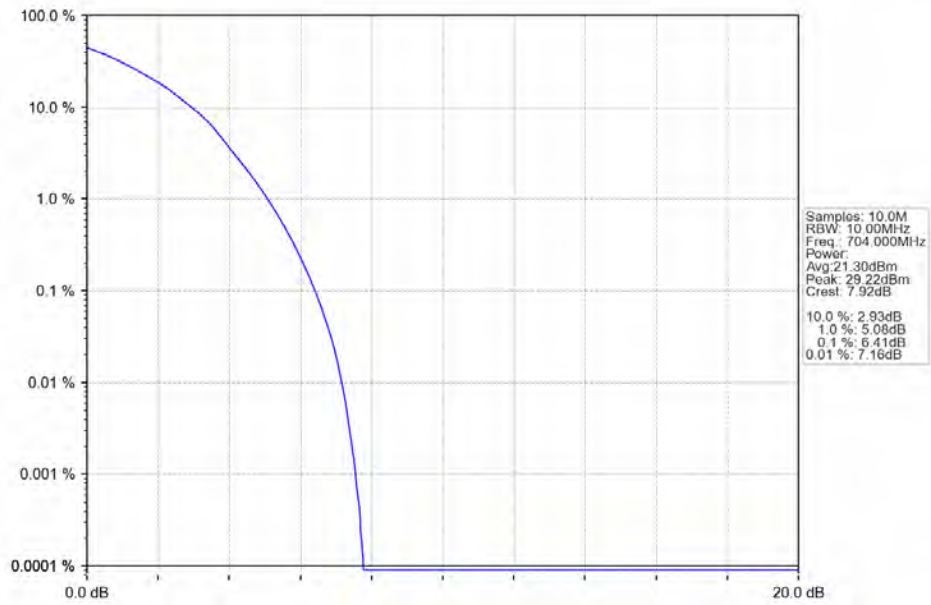
Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



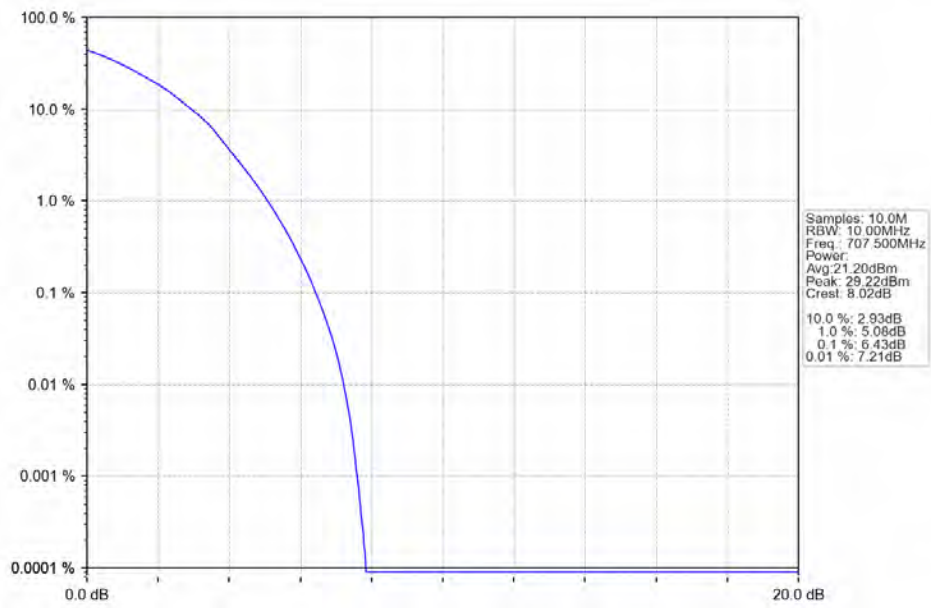
Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



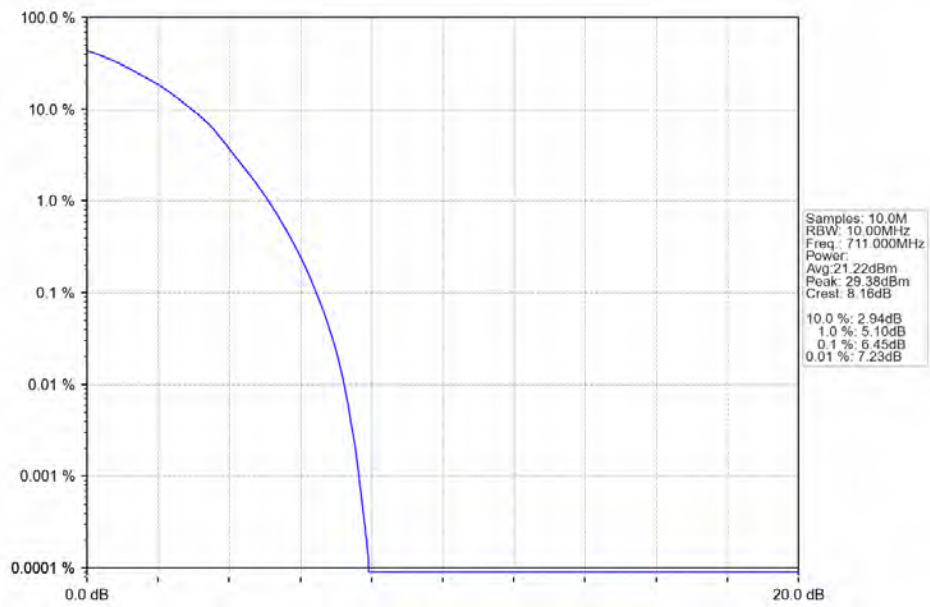
Band12\_10MHz\_64QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_64QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12 10MHz 64QAM HCH 711MHz RB 50 0 NTNV



## 5. Spurious Emission

### 5.1 Test Result

#### 5.1.1 B12\_1.4MHz

| Band: 12 / Bandwidth: 1.4MHz / NTVN |                 |               |        |                     |       |         |
|-------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                     |                 | Size          | Offset | Result              | Limit |         |
| QPSK                                | 699.7           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     |                 | 6             | 0      | Refer To Test Graph |       | Pass    |
|                                     | 707.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     | 715.3           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     |                 |               | 5      | Refer To Test Graph |       | Pass    |
|                                     |                 | 6             | 0      | Refer To Test Graph |       | Pass    |
| 16QAM                               | 699.7           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     |                 | 6             | 0      | Refer To Test Graph |       | Pass    |
|                                     | 707.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     | 715.3           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     |                 |               | 5      | Refer To Test Graph |       | Pass    |
|                                     |                 | 6             | 0      | Refer To Test Graph |       | Pass    |
| 64QAM                               | 699.7           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     |                 | 6             | 0      | Refer To Test Graph |       | Pass    |
|                                     | 707.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     | 715.3           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     |                 |               | 5      | Refer To Test Graph |       | Pass    |
|                                     |                 | 6             | 0      | Refer To Test Graph |       | Pass    |

#### 5.1.2 B12\_3MHz

| Band: 12 / Bandwidth: 3MHz / NTNV |                 |               |        |                     |       |         |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                   |                 | Size          | Offset | Result              | Limit |         |
| QPSK                              | 700.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 15            | 0      | Refer To Test Graph |       | Pass    |
|                                   | 707.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   | 714.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               | 14     | Refer To Test Graph |       | Pass    |
|                                   |                 | 15            | 0      | Refer To Test Graph |       | Pass    |
| 16QAM                             | 700.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 15            | 0      | Refer To Test Graph |       | Pass    |
|                                   | 707.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   | 714.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               | 14     | Refer To Test Graph |       | Pass    |
|                                   |                 | 15            | 0      | Refer To Test Graph |       | Pass    |
| 64QAM                             | 700.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 15            | 0      | Refer To Test Graph |       | Pass    |
|                                   | 707.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   | 714.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               | 14     | Refer To Test Graph |       | Pass    |
|                                   |                 | 15            | 0      | Refer To Test Graph |       | Pass    |

#### 5.1.3 B12\_5MHz

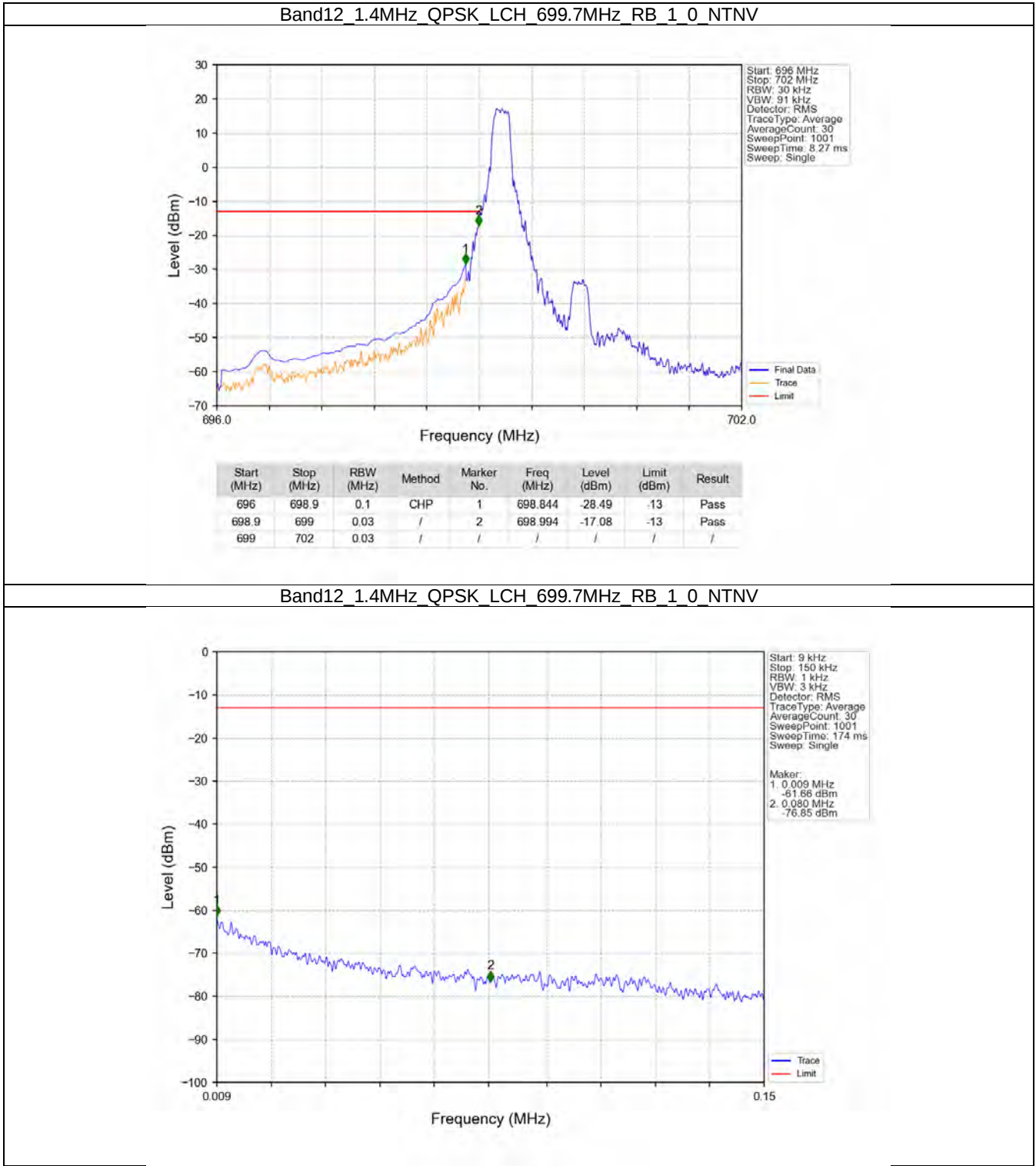
| Band: 12 / Bandwidth: 5MHz / NTVN |                 |               |        |                     |       |         |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                   |                 | Size          | Offset | Result              | Limit |         |
| QPSK                              | 701.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                   | 707.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   | 713.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                   |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
| 16QAM                             | 701.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                   | 707.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   | 713.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                   |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
| 64QAM                             | 701.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                   | 707.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   | 713.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                   |                 | 25            | 0      | Refer To Test Graph |       | Pass    |

#### 5.1.4 B12\_10MHz

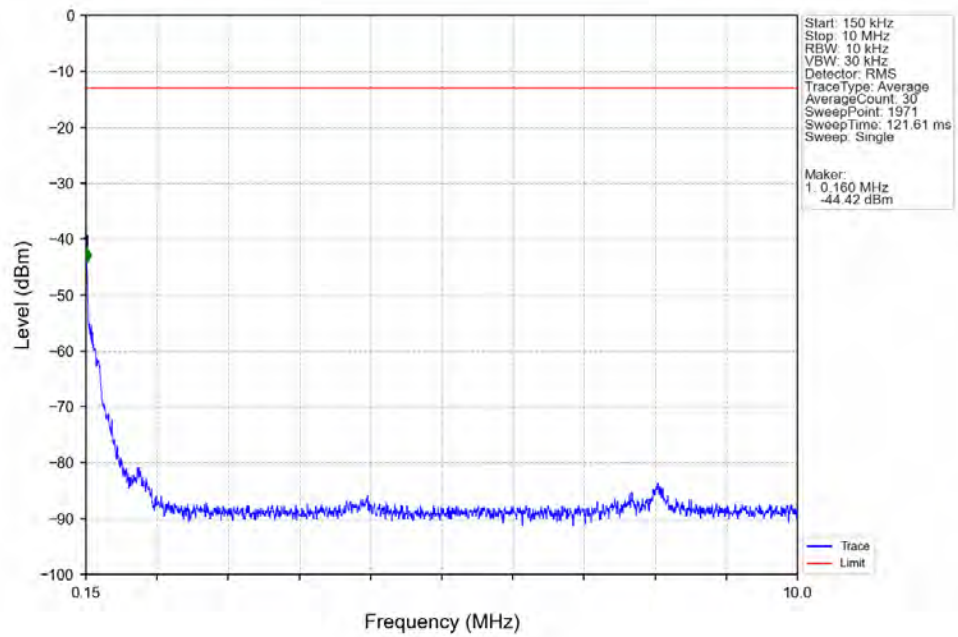
| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |                     |                     |       |         |
|------------------------------------|-----------------|---------------|---------------------|---------------------|-------|---------|
| Modulation                         | 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    |
|                                    | 707.5           | 1             | 0                   | Refer To Test Graph |       | Pass    |
|                                    | 711             | 1             | 0                   | Refer To Test Graph |       | Pass    |
|                                    |                 |               | 49                  | Refer To Test Graph |       | Pass    |
|                                    | 50              | 0             | Refer To Test Graph |                     | Pass  |         |
| 16QAM                              | 704             | 1             | 0                   | Refer To Test Graph |       | Pass    |
|                                    |                 | 50            | 0                   | Refer To Test Graph |       | Pass    |
|                                    | 707.5           | 1             | 0                   | Refer To Test Graph |       | Pass    |
|                                    | 711             | 1             | 0                   | Refer To Test Graph |       | Pass    |
|                                    |                 |               | 49                  | Refer To Test Graph |       | Pass    |
|                                    | 50              | 0             | Refer To Test Graph |                     | Pass  |         |
| 64QAM                              | 704             | 1             | 0                   | Refer To Test Graph |       | Pass    |
|                                    |                 | 50            | 0                   | Refer To Test Graph |       | Pass    |
|                                    | 707.5           | 1             | 0                   | Refer To Test Graph |       | Pass    |
|                                    | 711             | 1             | 0                   | Refer To Test Graph |       | Pass    |
|                                    |                 |               | 49                  | Refer To Test Graph |       | Pass    |
|                                    | 50              | 0             | Refer To Test Graph |                     | Pass  |         |

5.2 Test Graph

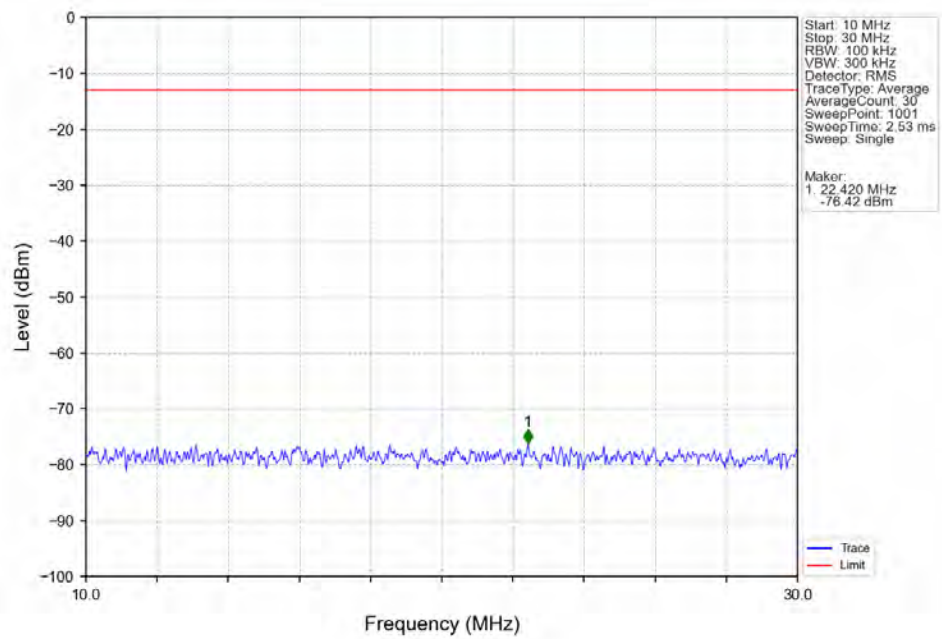
5.2.1 B12\_1.4MHz



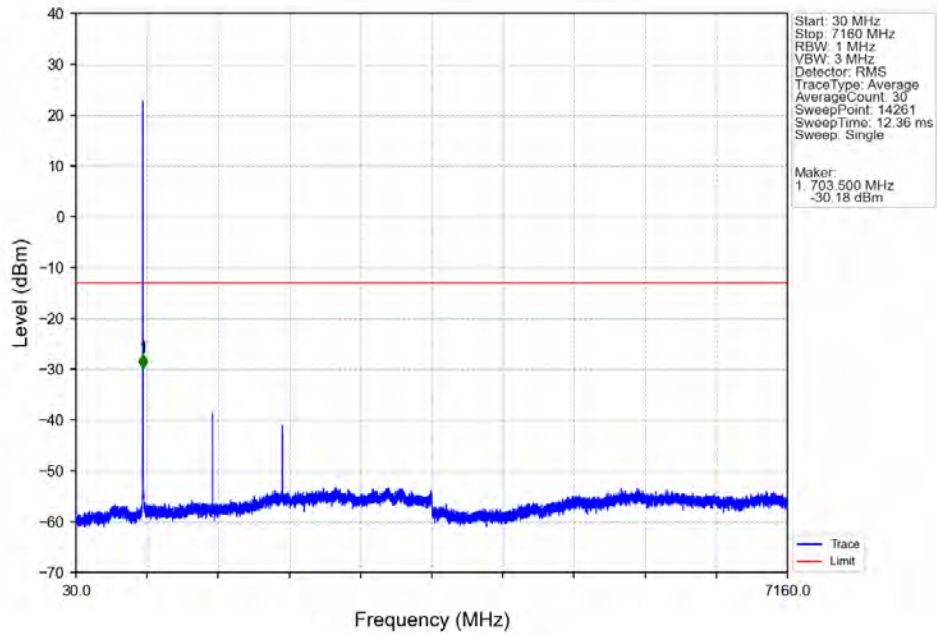
Band12 1.4MHz QPSK LCH 699.7MHz RB 1 0 NTNV



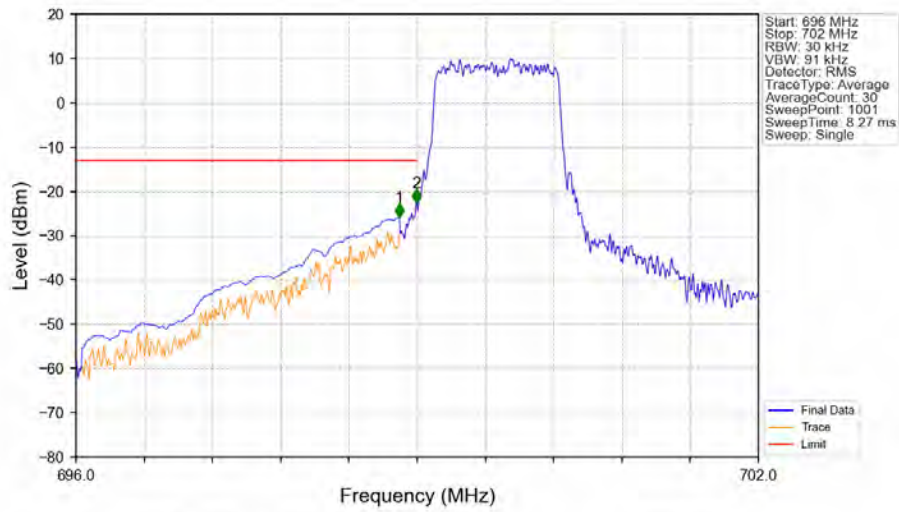
Band12 1.4MHz QPSK LCH 699.7MHz RB 1 0 NTNV



Band12 1.4MHz QPSK LCH 699.7MHz RB 1 0 NTV

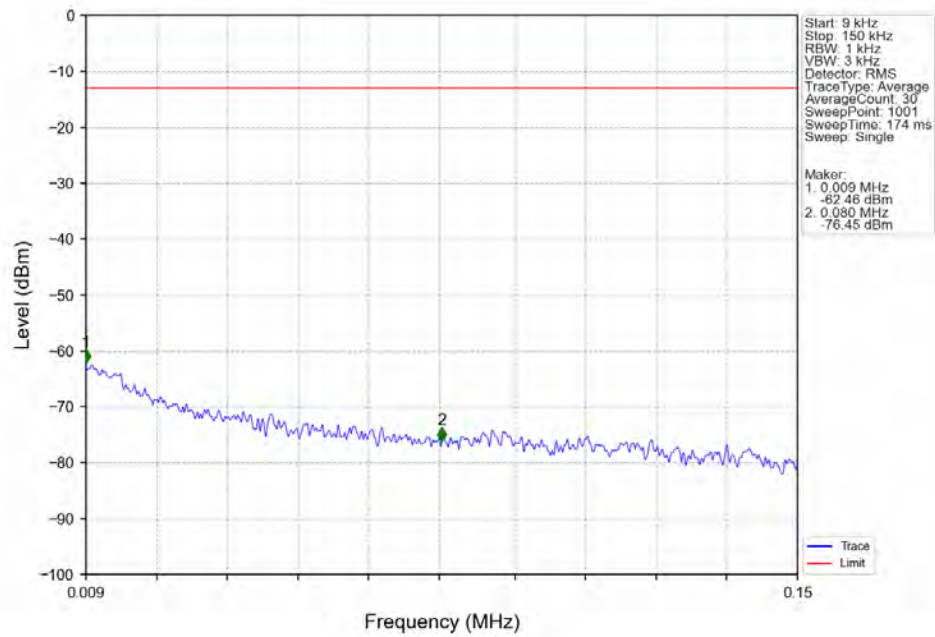


Band12 1.4MHz QPSK LCH 699.7MHz RB 6 0 NTV

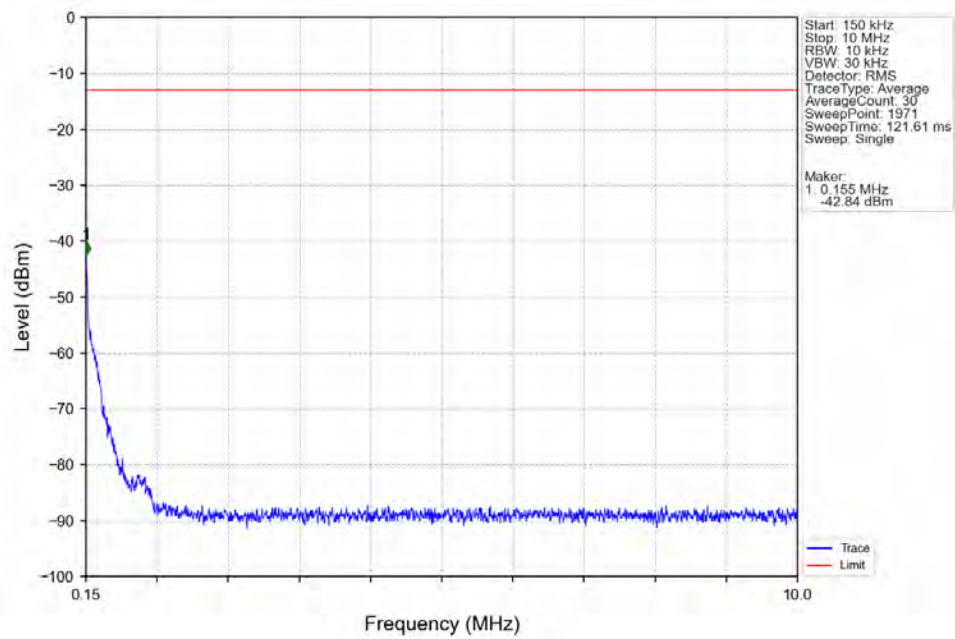


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.844    | -25.79      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.994    | -22.53      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

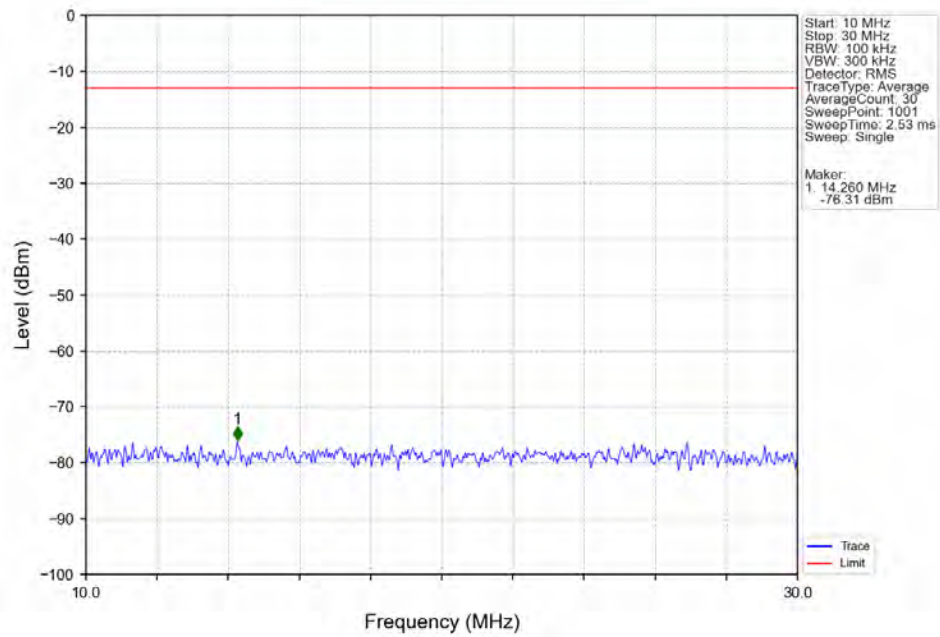
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTNV



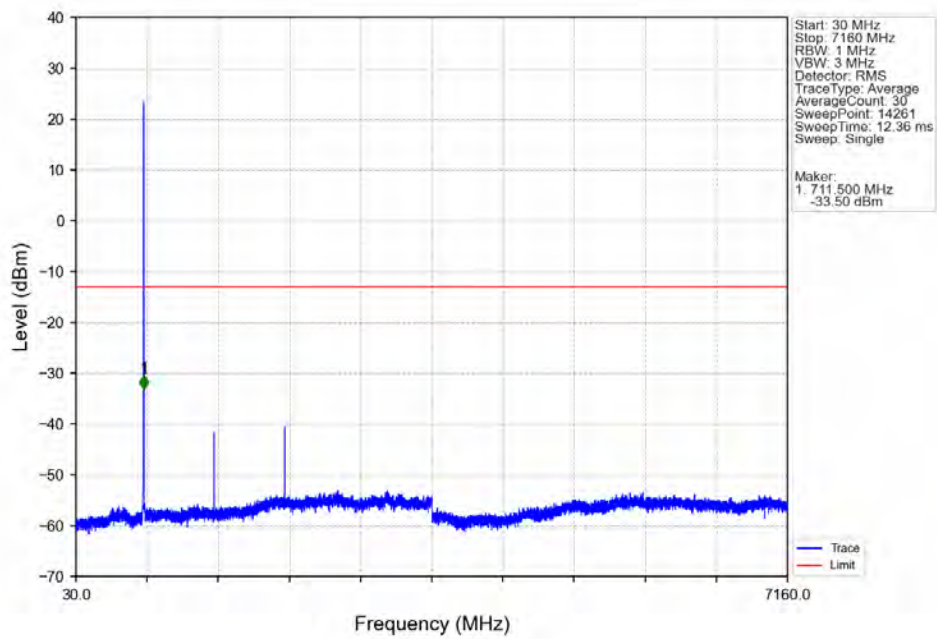
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTNV



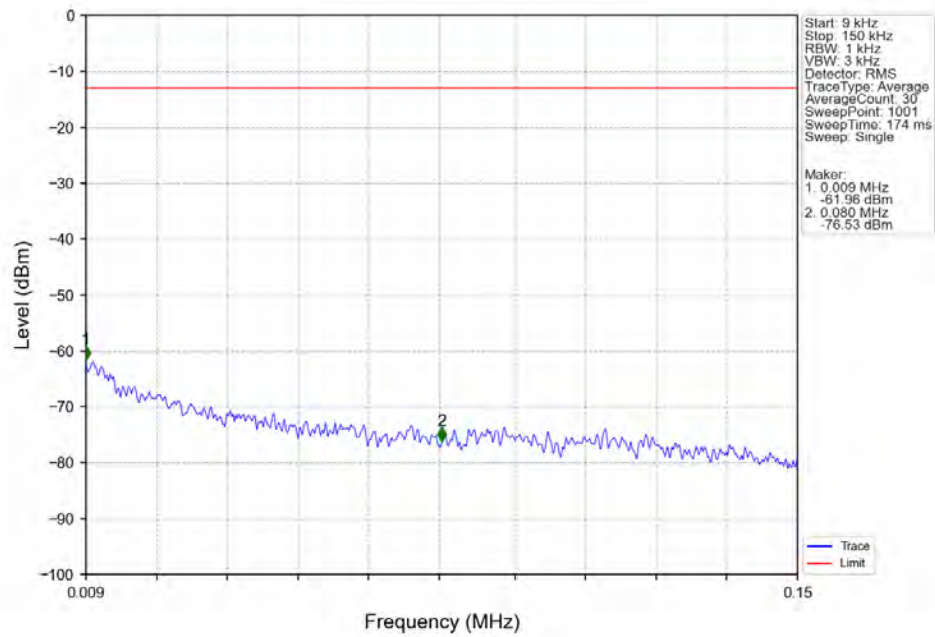
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTNV



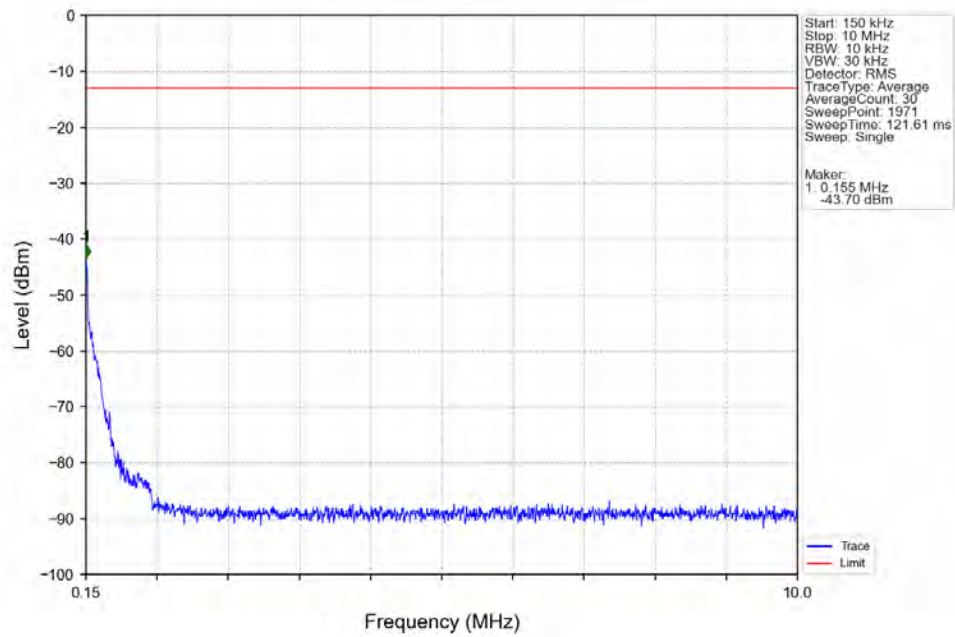
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTNV



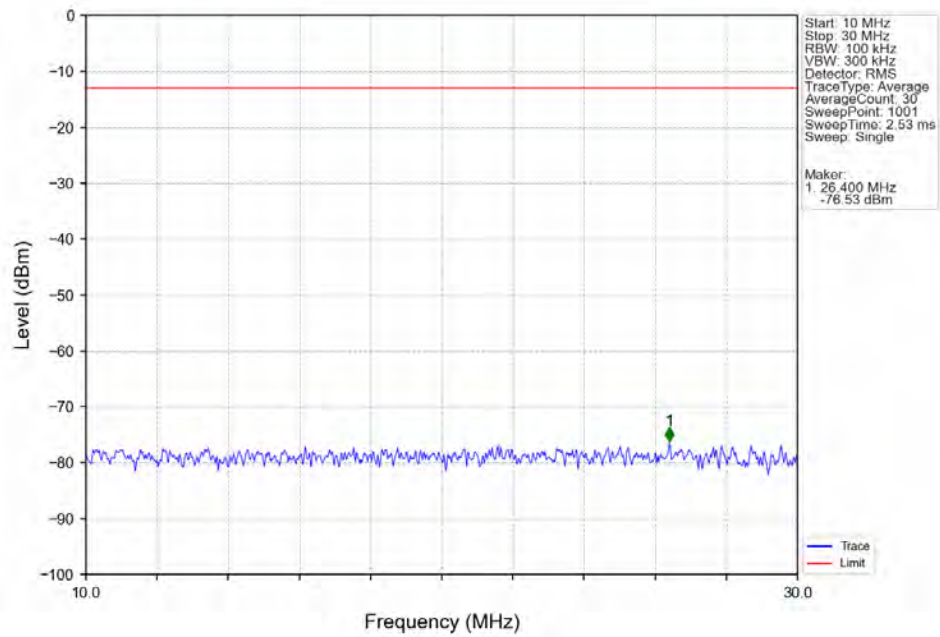
Band12 1.4MHz QPSK HCH 715.3MHz RB 1 0 NTV



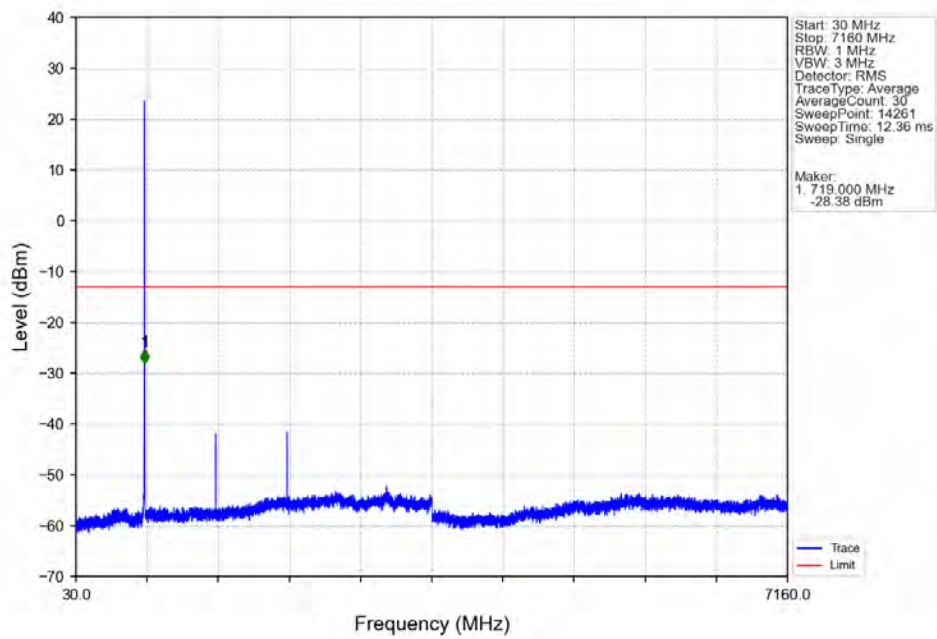
Band12 1.4MHz QPSK HCH 715.3MHz RB 1 0 NTV



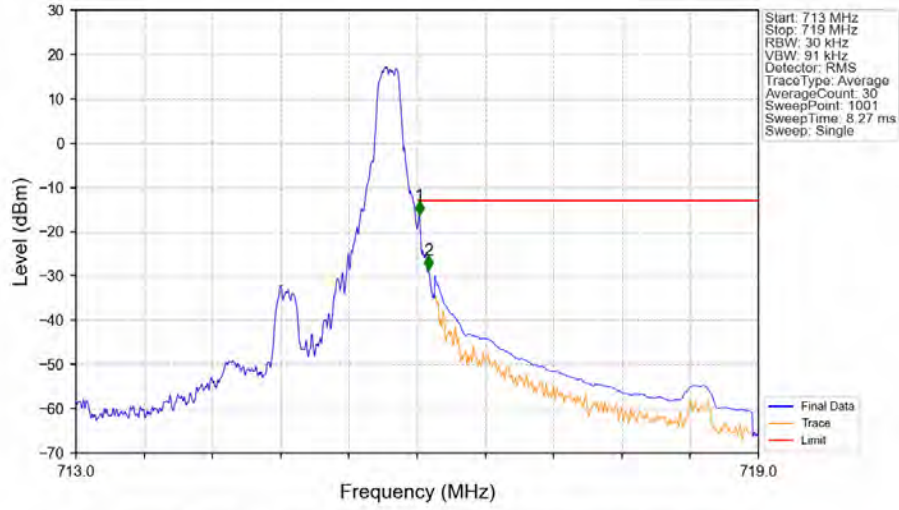
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_0\_NTNV



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

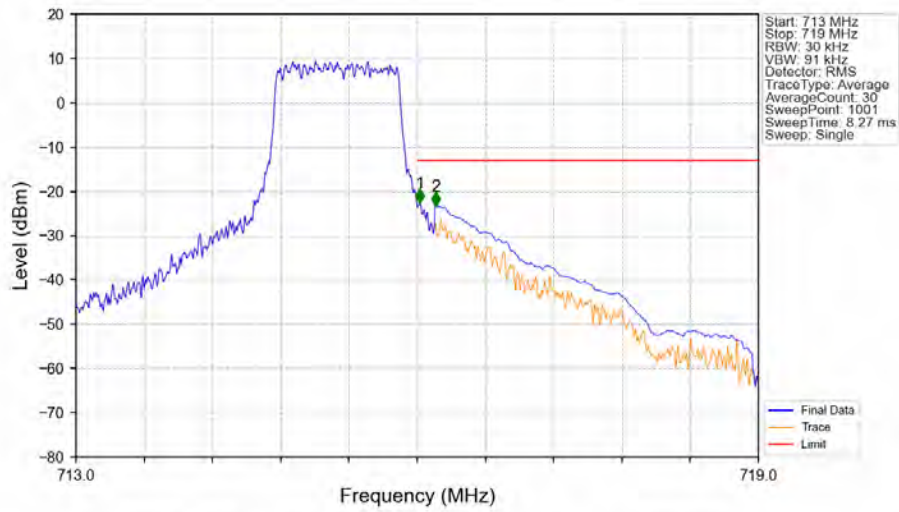


Band12 1.4MHz QPSK HCH 715.3MHz RB 1 5 NTNV



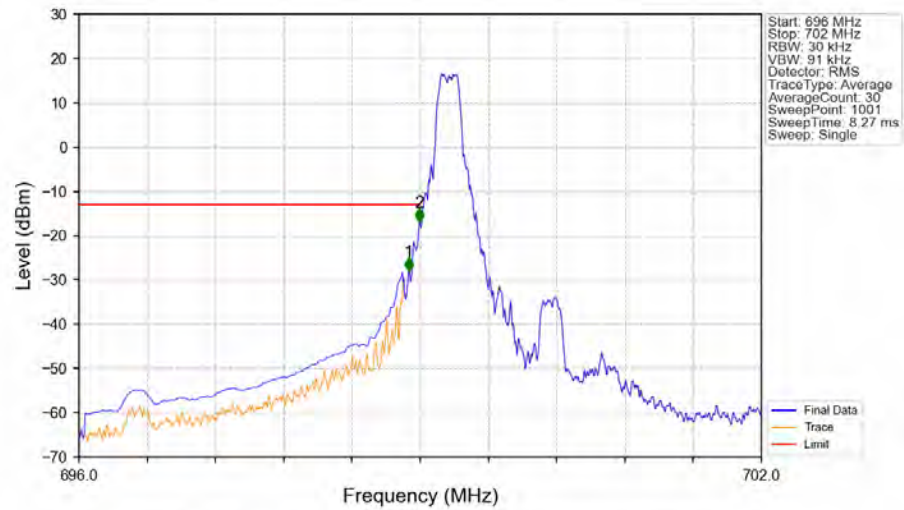
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.018    | -16.14      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.102    | -28.68      | -13         | Pass   |

Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



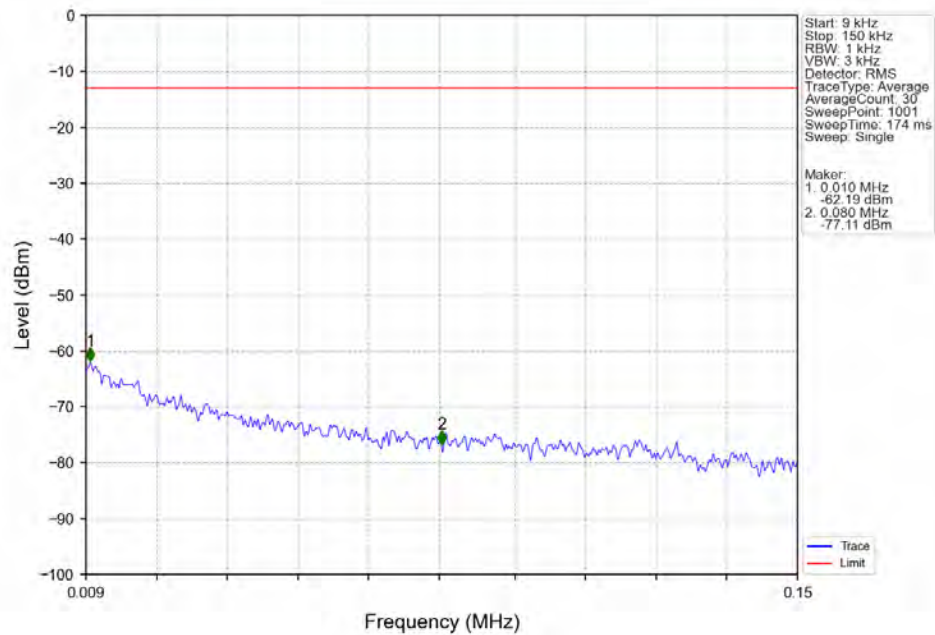
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.024    | -22.56      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.162    | -23.32      | -13         | Pass   |

Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTNV

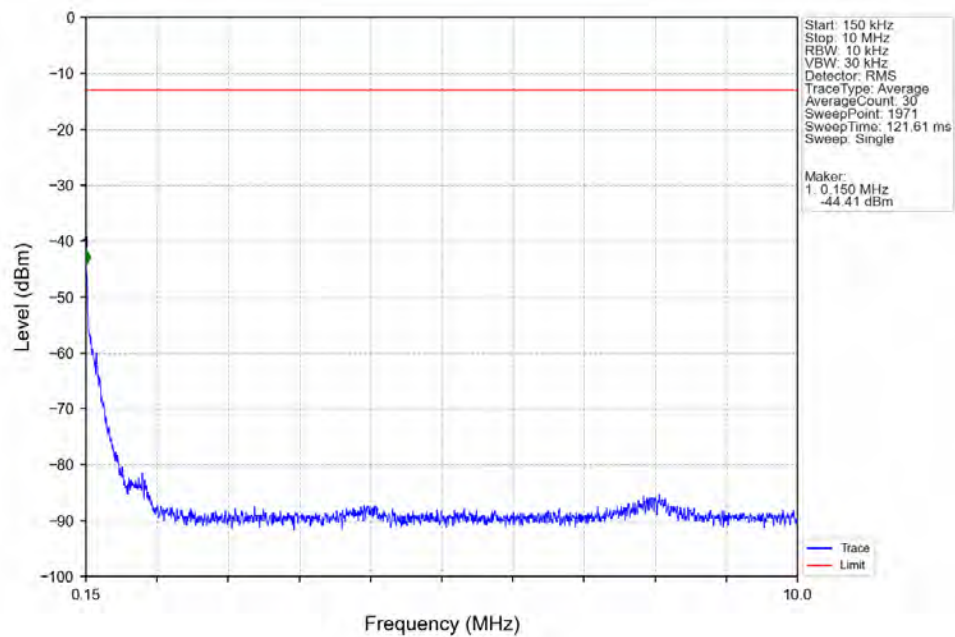


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.898    | -27.98      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.994    | -16.97      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

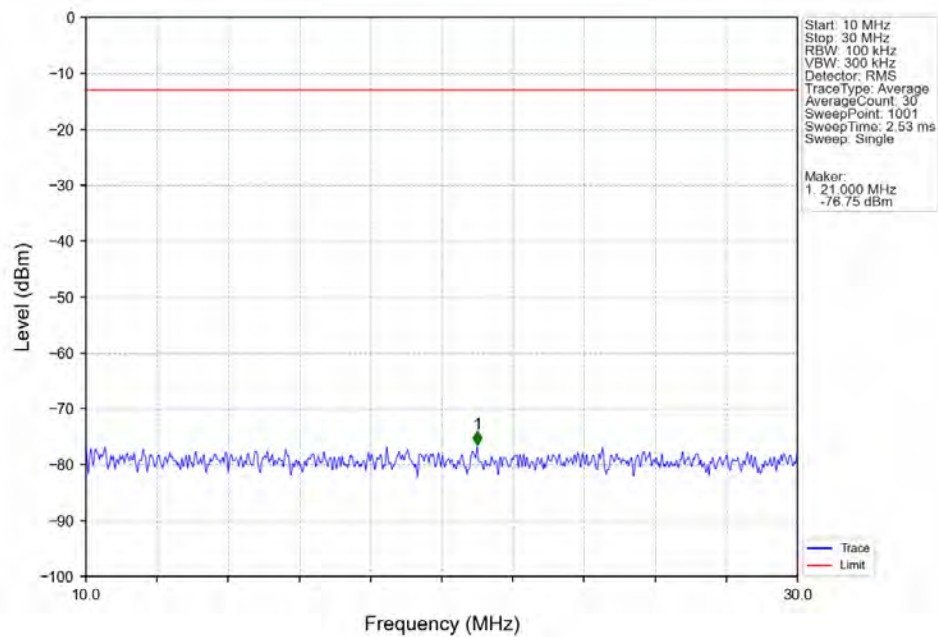
Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTNV



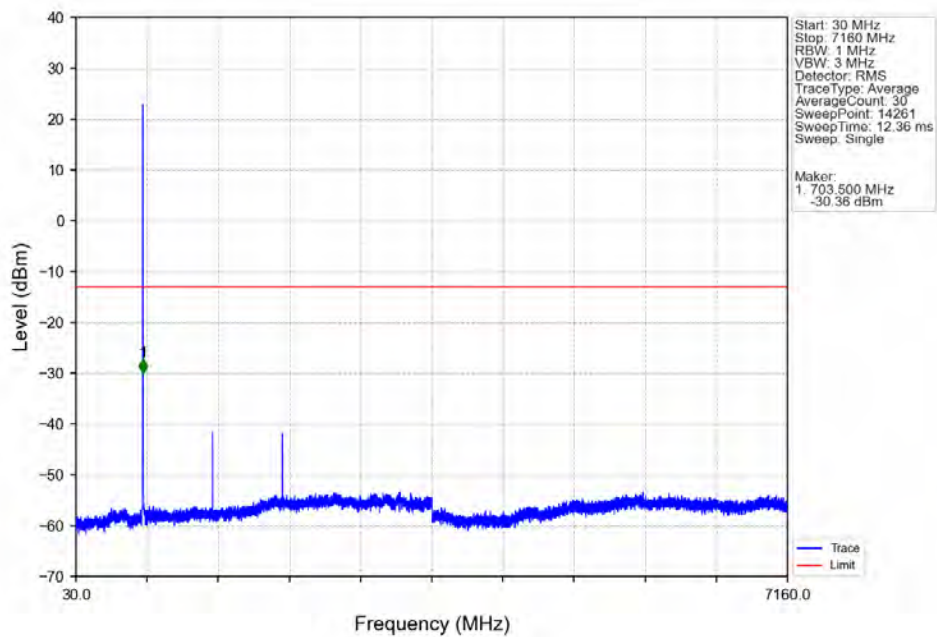
Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTV



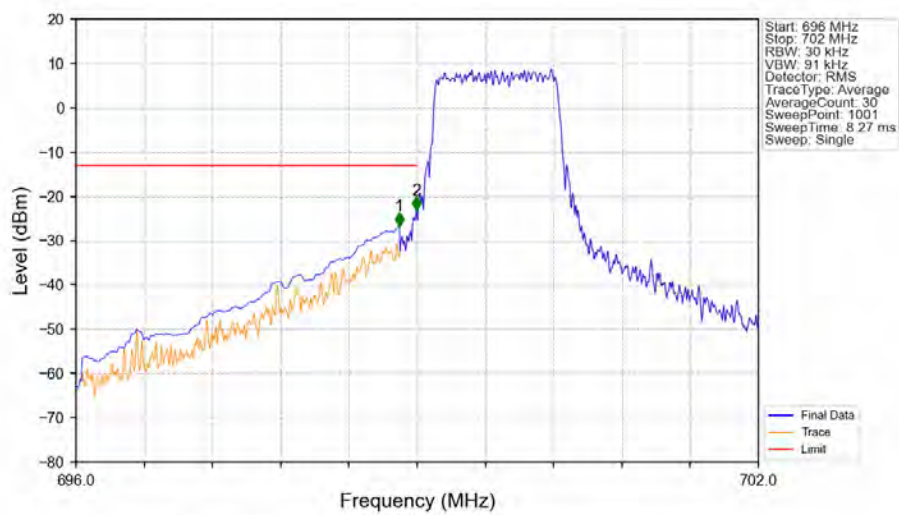
Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTV



Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTV

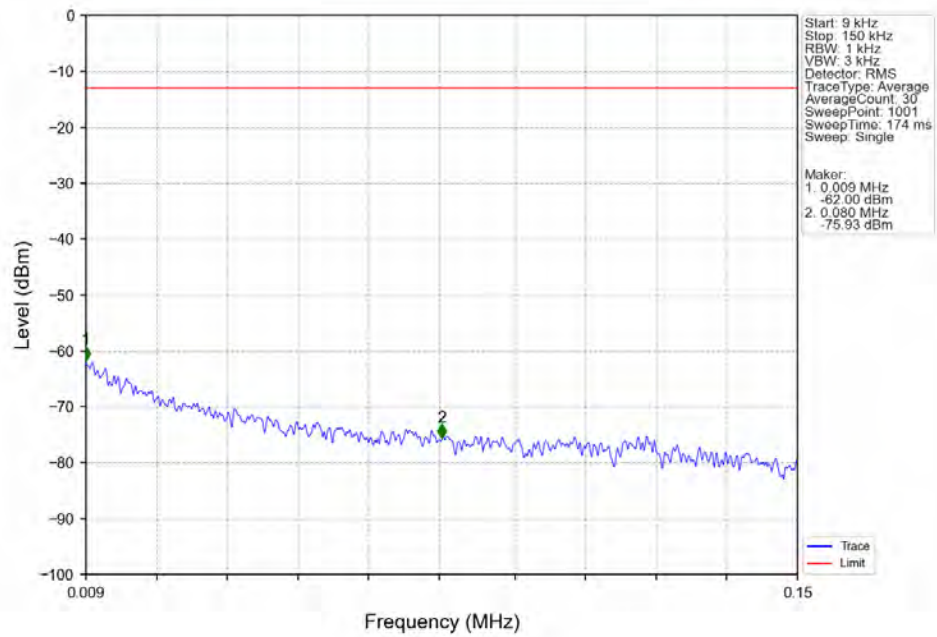


Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTV

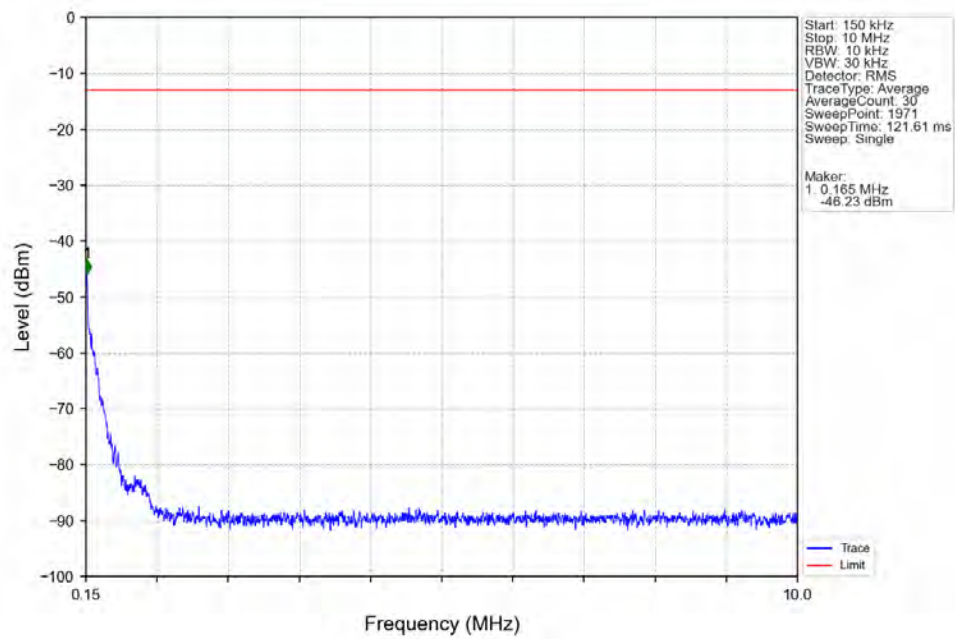


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.844    | -26.67      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.994    | -23.17      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

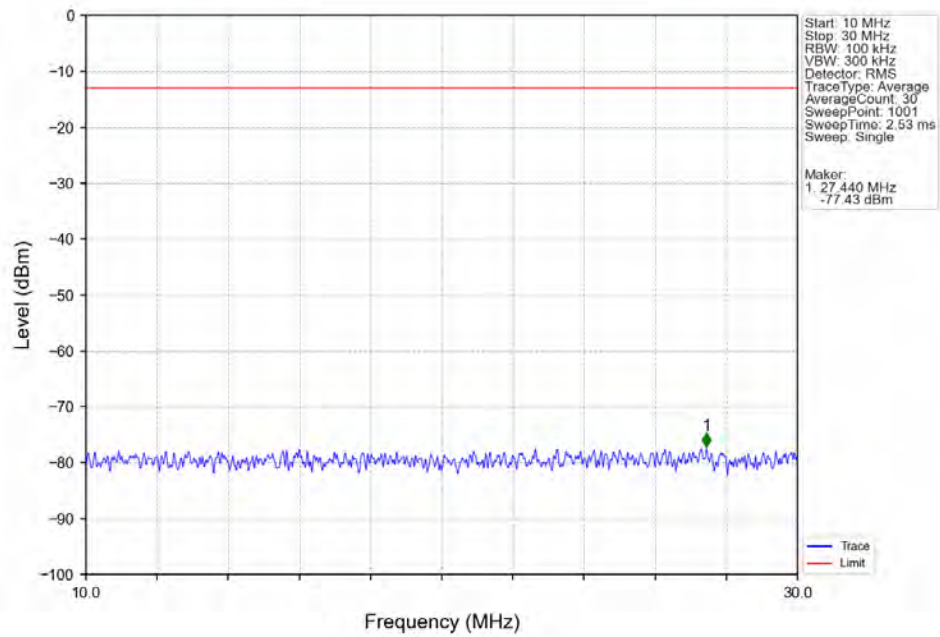
Band12 1.4MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



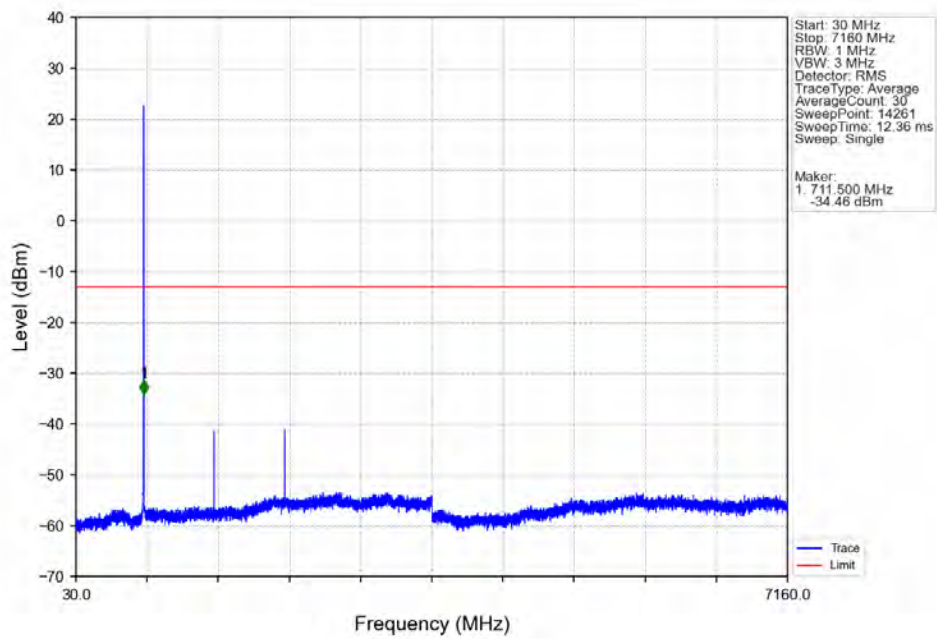
Band12 1.4MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



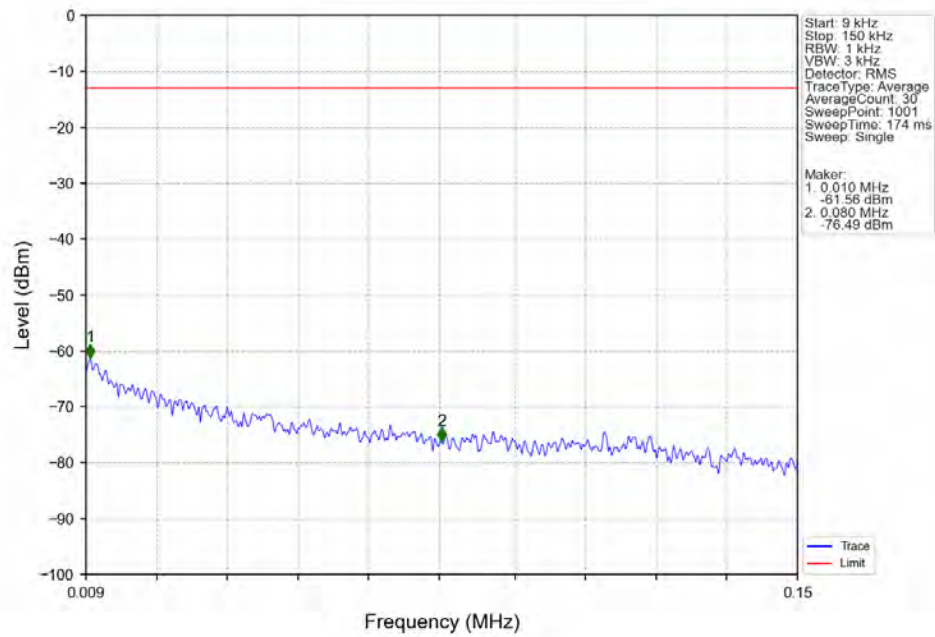
Band12 1.4MHz 16QAM MCH 707.5MHz RB 1 0 NTV



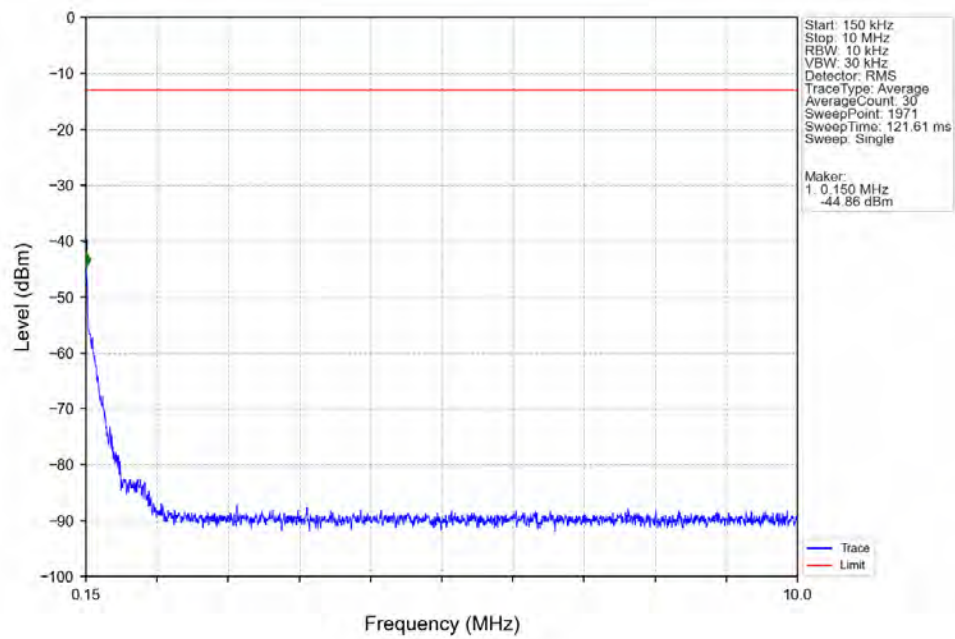
Band12 1.4MHz 16QAM MCH 707.5MHz RB 1 0 NTV



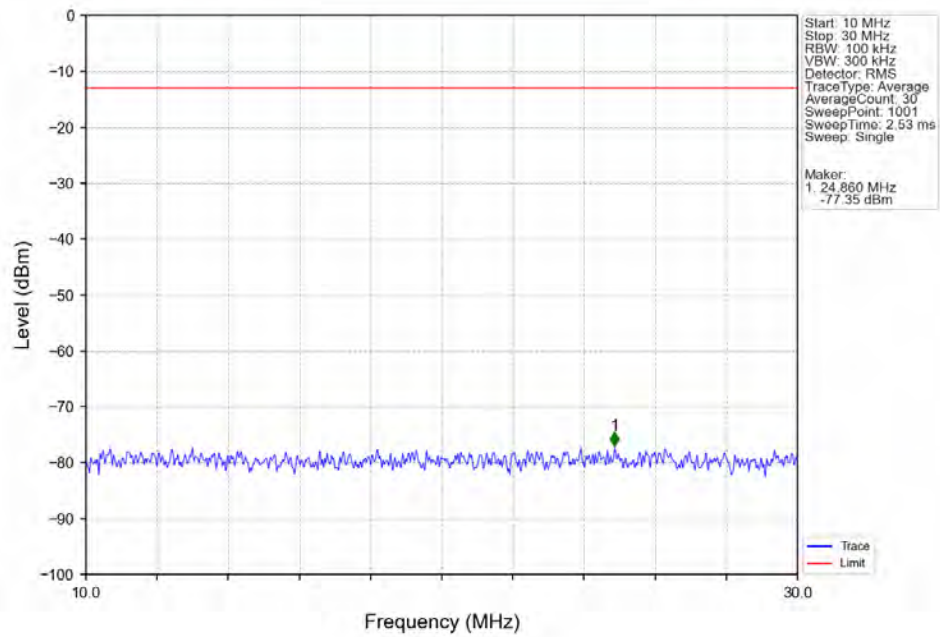
Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 0 NTNV



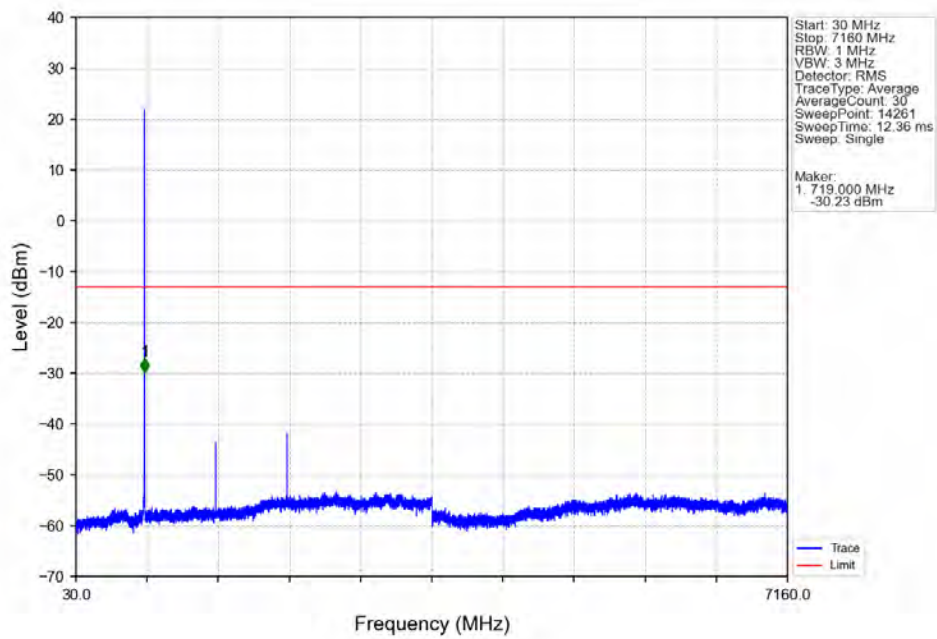
Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 0 NTNV



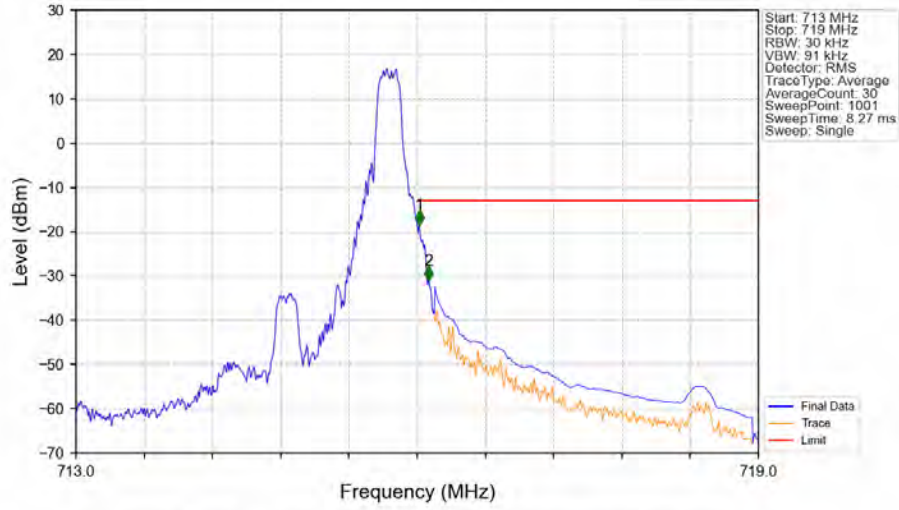
Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 0 NTV



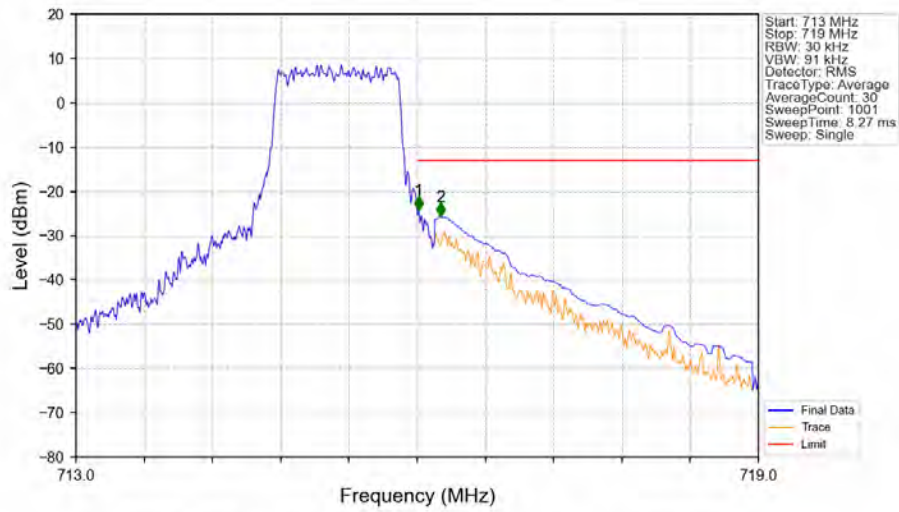
Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 0 NTV



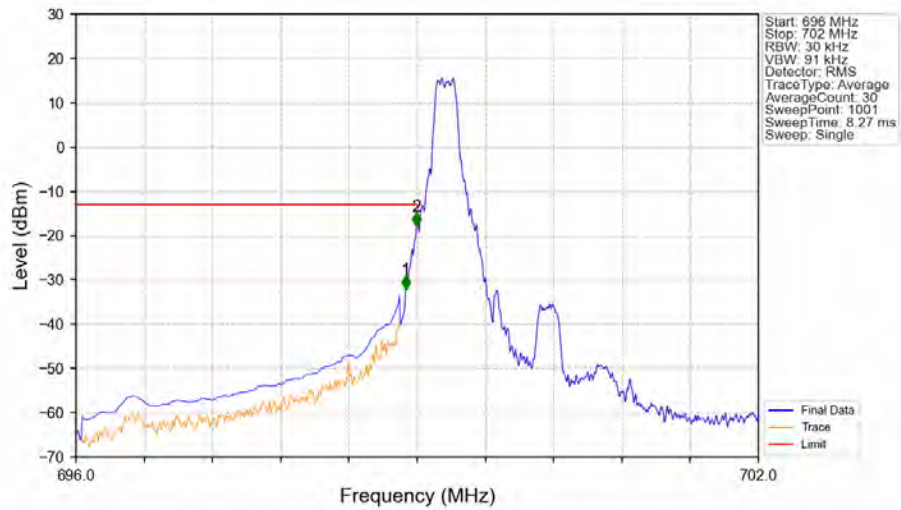
Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 5 NTNV



Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV

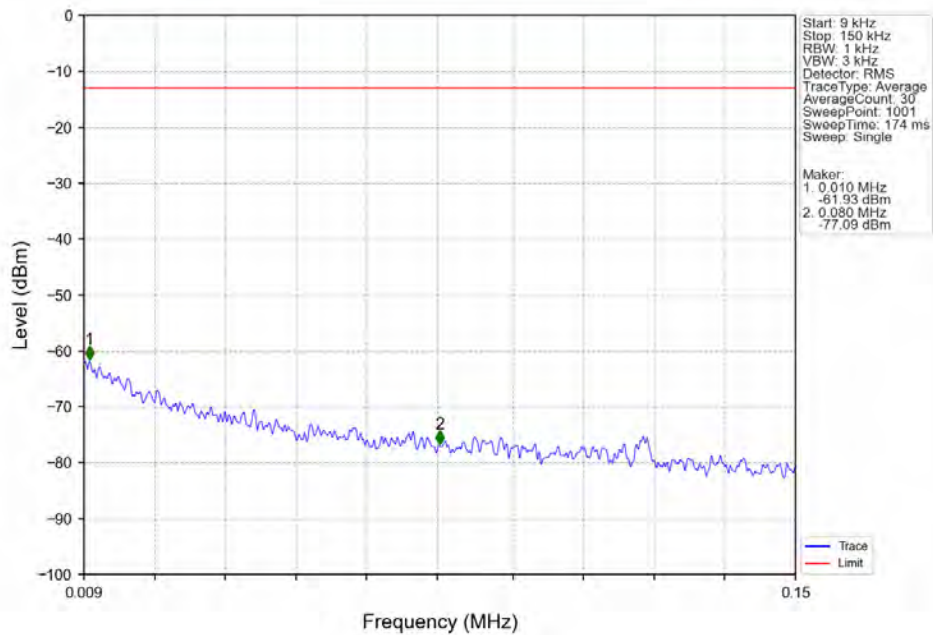


Band12 1.4MHz 64QAM LCH 699.7MHz RB 1 0 NTNV

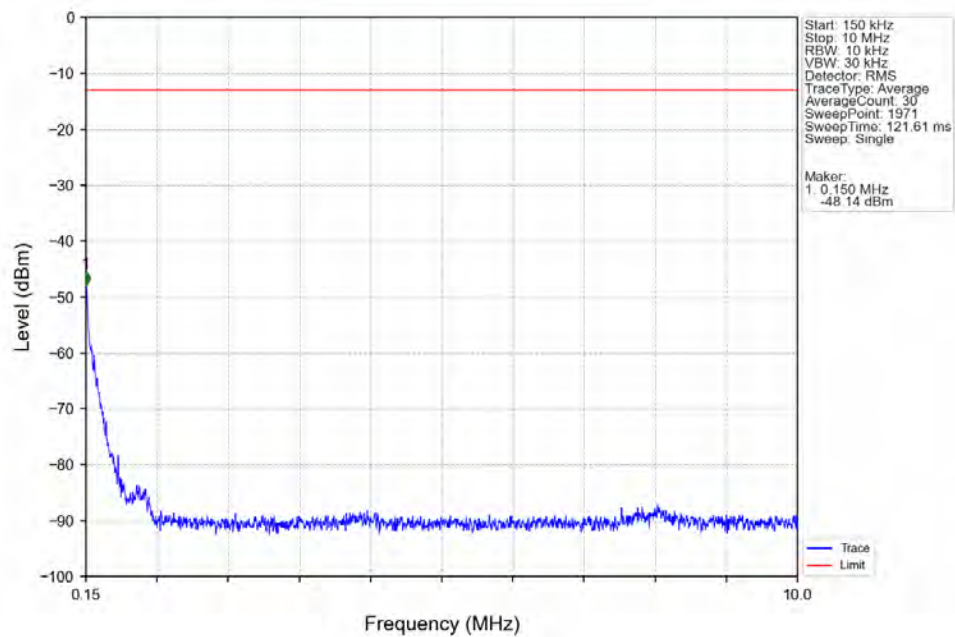


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.898    | -32.06      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.994    | -17.89      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

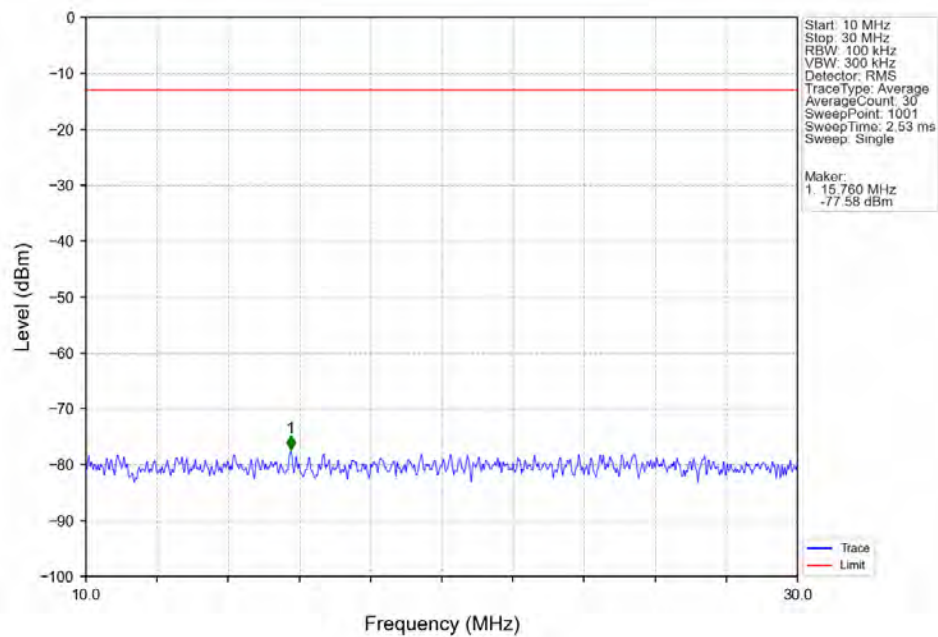
Band12 1.4MHz 64QAM LCH 699.7MHz RB 1 0 NTNV



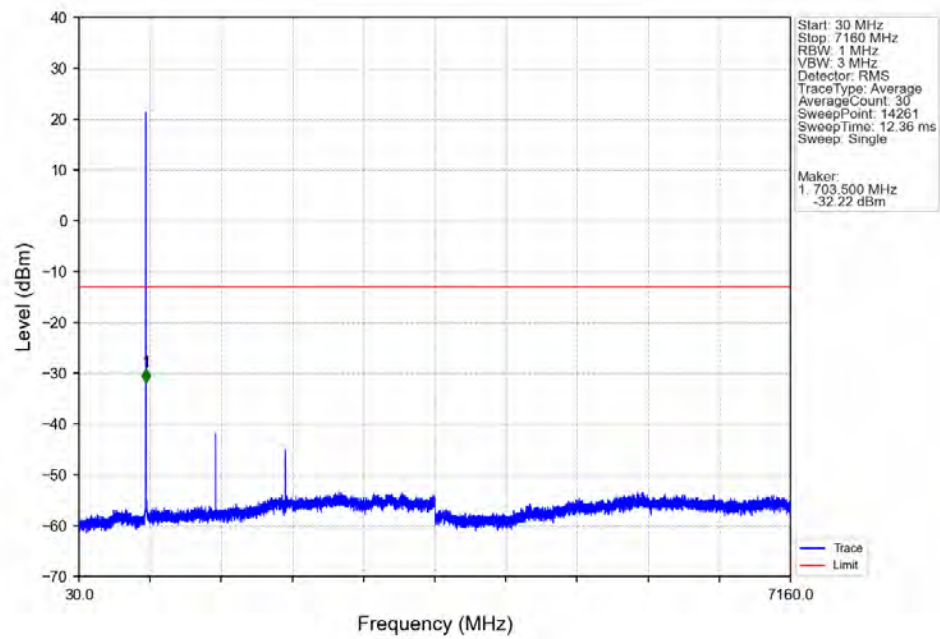
Band12 1.4MHz 64QAM LCH 699.7MHz RB 1 0 NTV



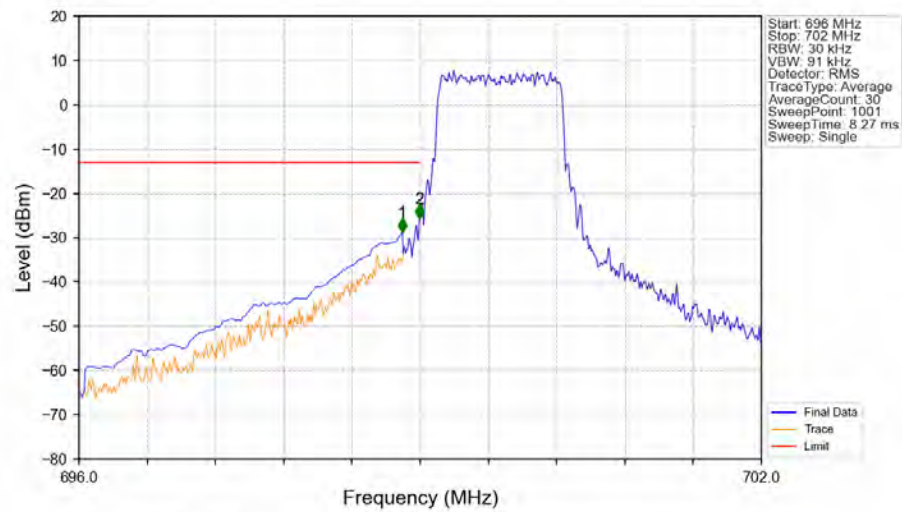
Band12 1.4MHz 64QAM LCH 699.7MHz RB 1 0 NTV



Band12 1.4MHz 64QAM LCH 699.7MHz RB 1 0 NTNV

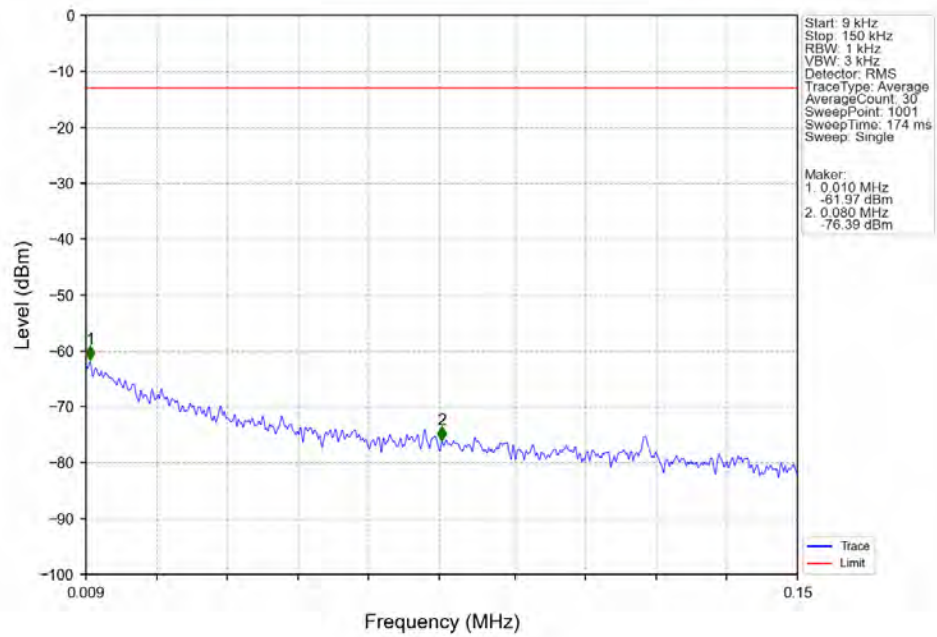


Band12 1.4MHz 64QAM LCH 699.7MHz RB 6 0 NTNV

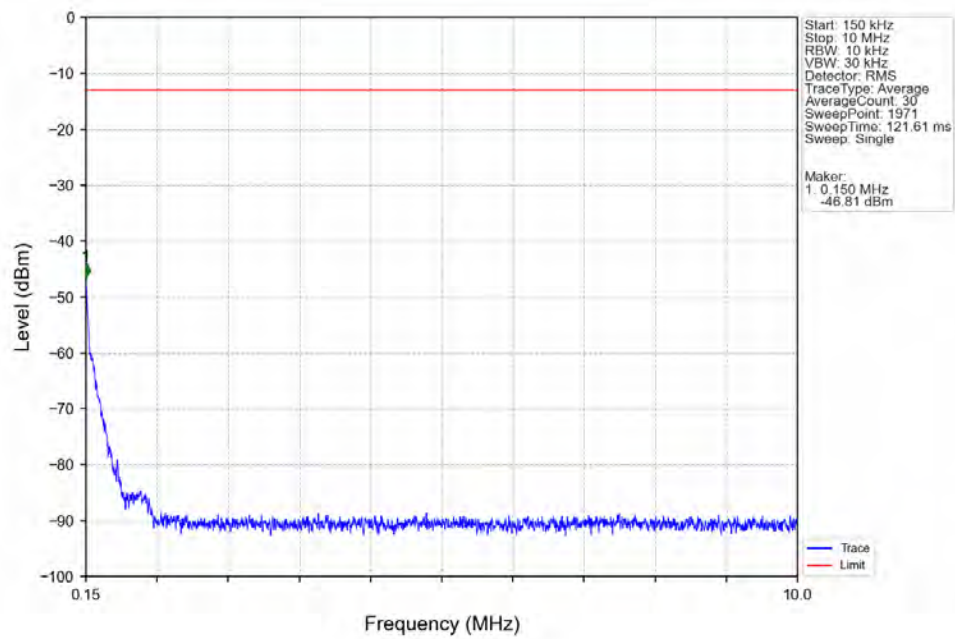


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.844    | -28.72      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.994    | -25.67      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

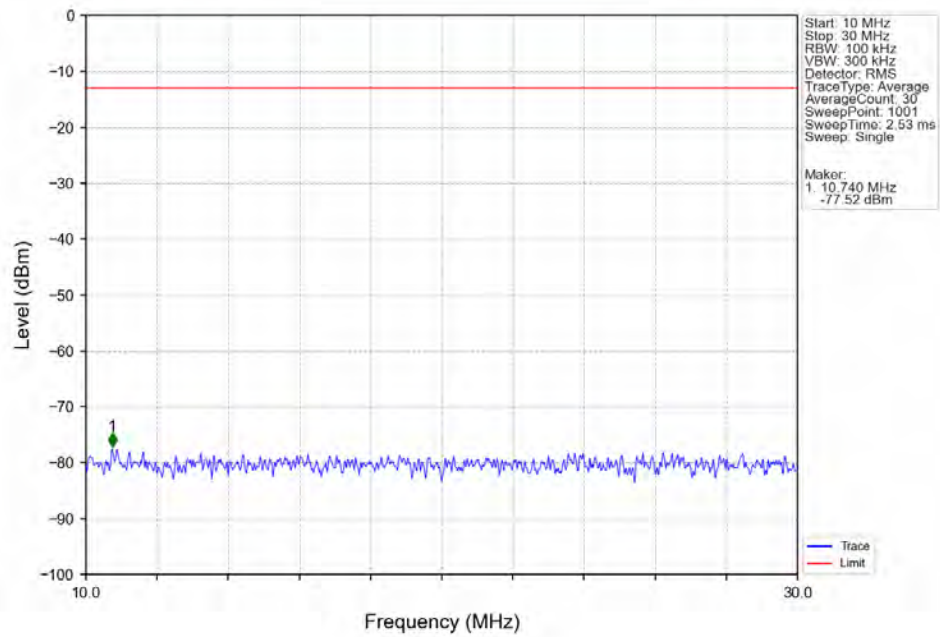
Band12 1.4MHz 64QAM MCH 707.5MHz RB 1 0 NTNV



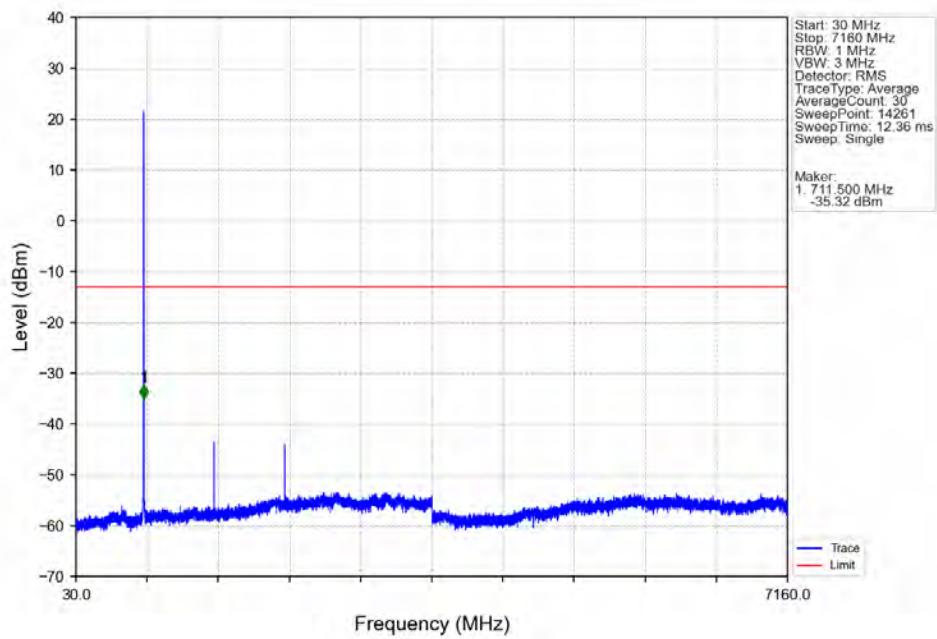
Band12 1.4MHz 64QAM MCH 707.5MHz RB 1 0 NTNV



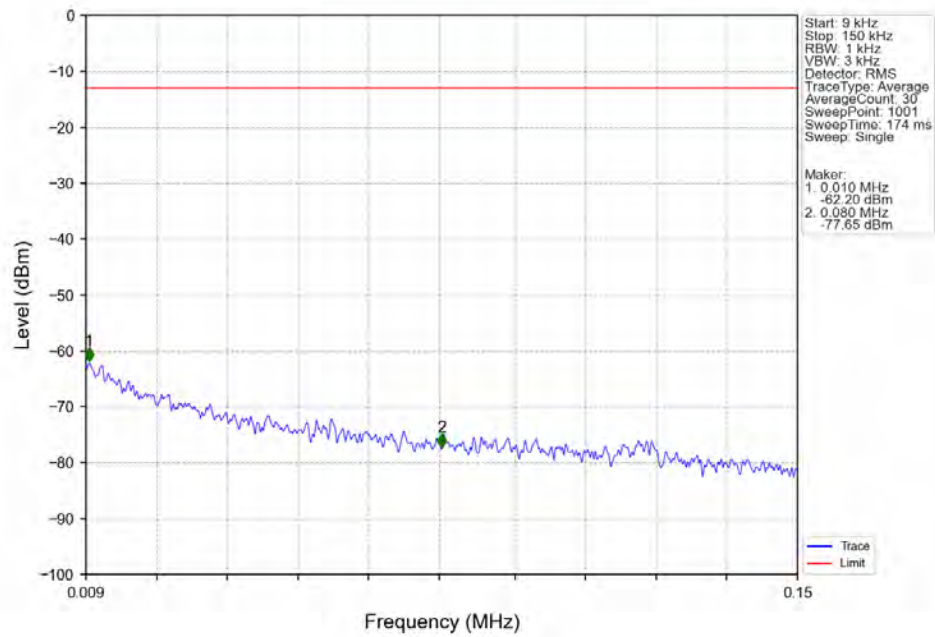
Band12 1.4MHz 64QAM MCH 707.5MHz RB 1 0 NTV



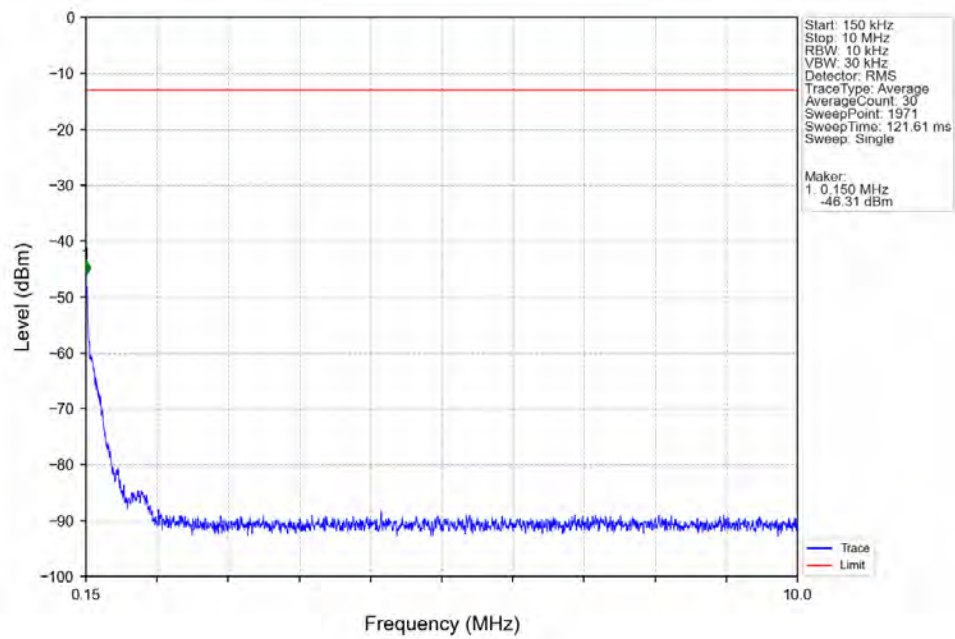
Band12 1.4MHz 64QAM MCH 707.5MHz RB 1 0 NTV



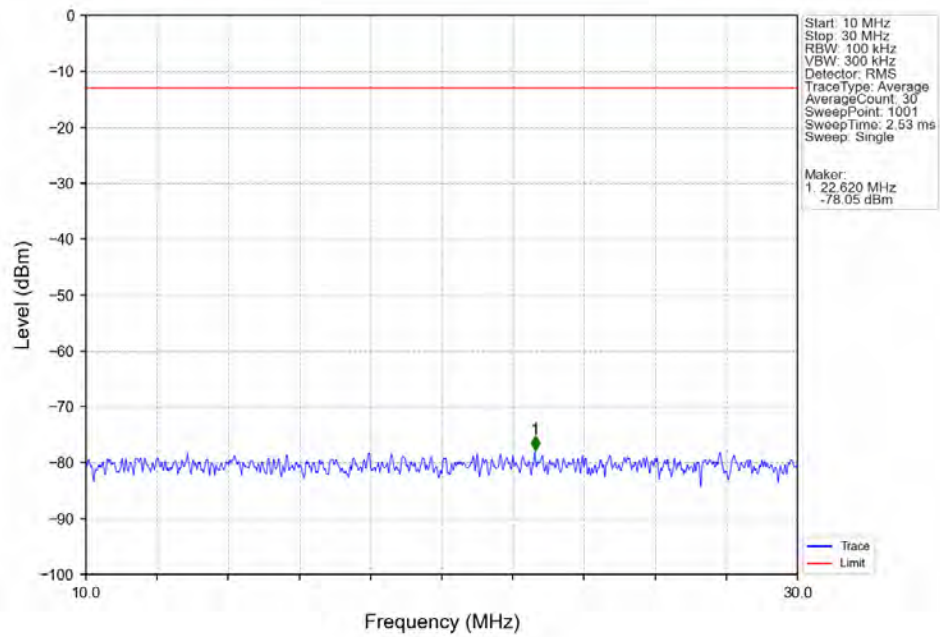
Band12 1.4MHz 64QAM HCH 715.3MHz RB 1 0 NTNV



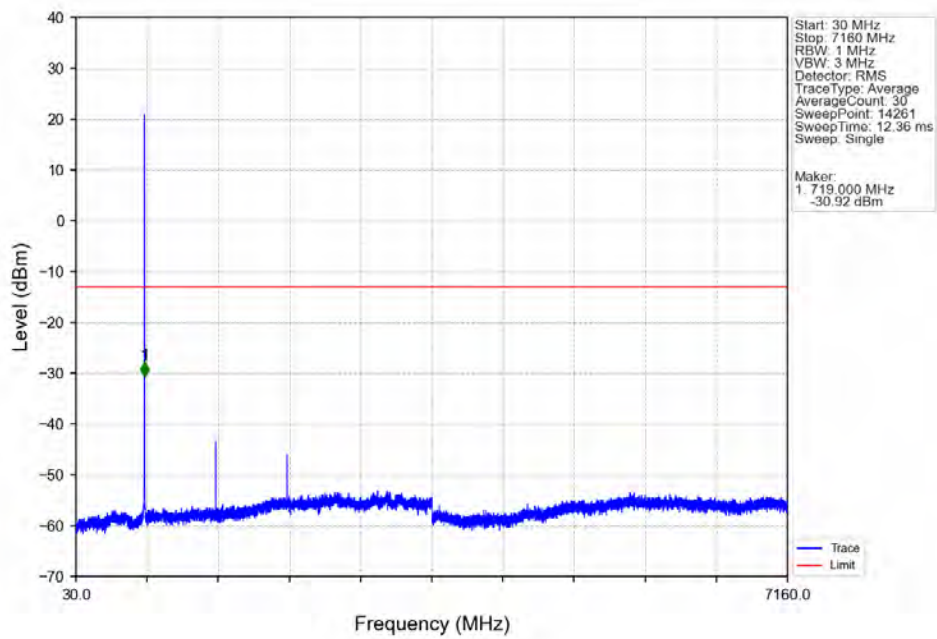
Band12 1.4MHz 64QAM HCH 715.3MHz RB 1 0 NTNV



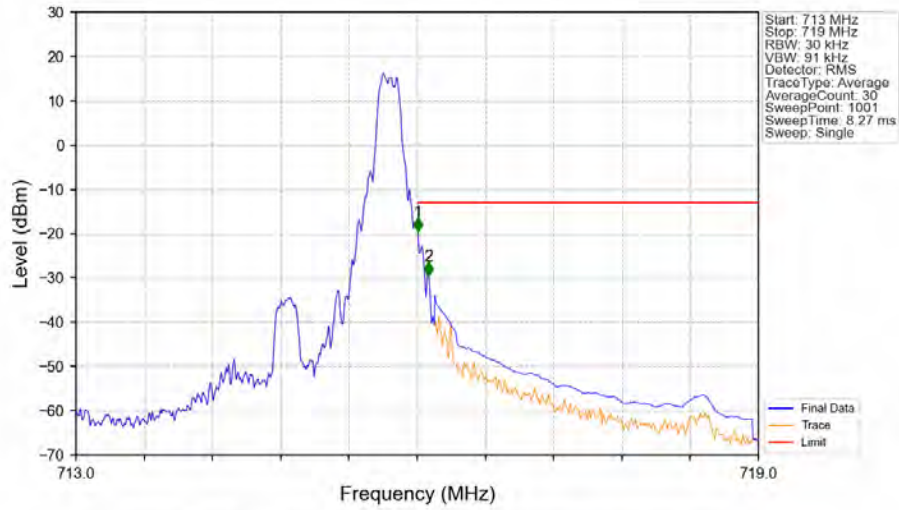
Band12 1.4MHz 64QAM HCH 715.3MHz RB 1 0 NTV



Band12 1.4MHz 64QAM HCH 715.3MHz RB 1 0 NTV

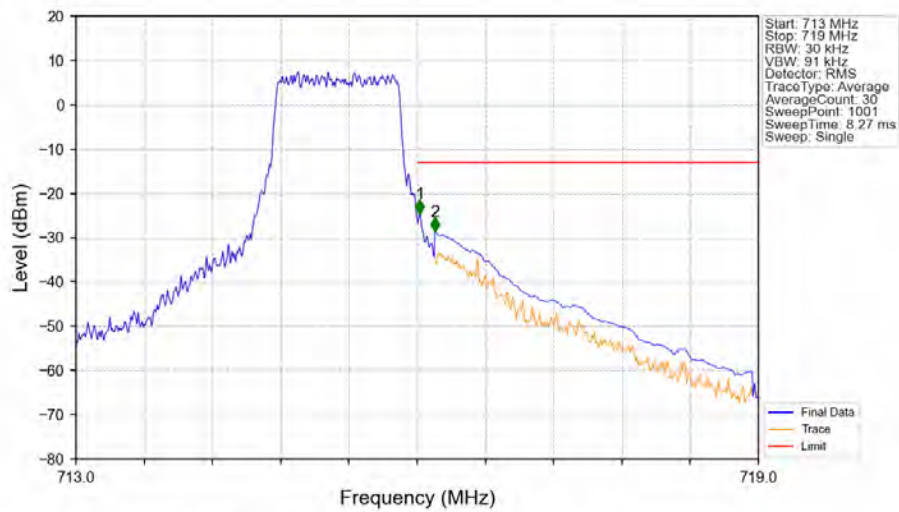


Band12 1.4MHz 64QAM HCH 715.3MHz RB 1 5 NTNV



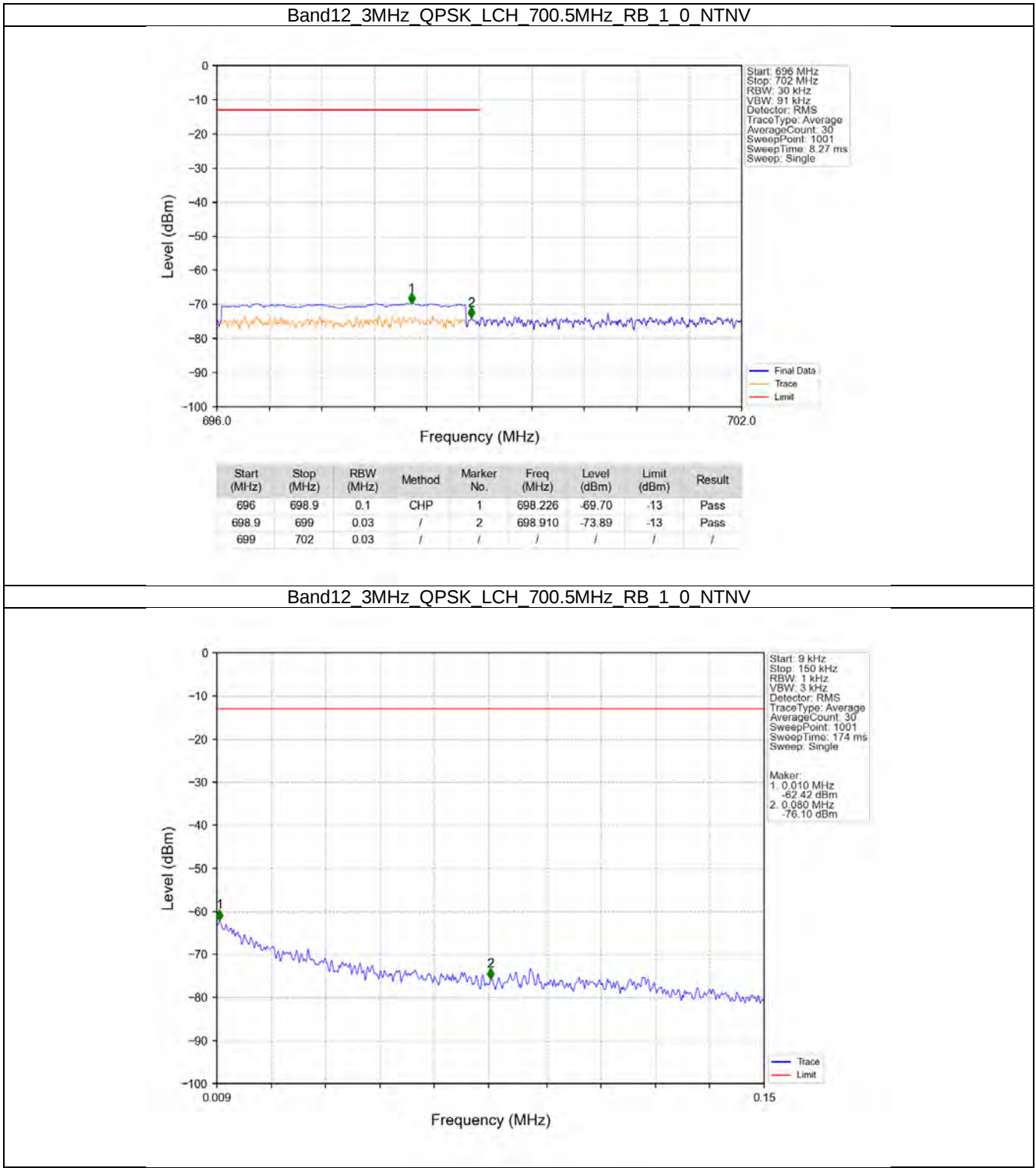
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.006    | -19.43      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.102    | -29.43      | -13         | Pass   |

Band12 1.4MHz 64QAM HCH 715.3MHz RB 6 0 NTNV

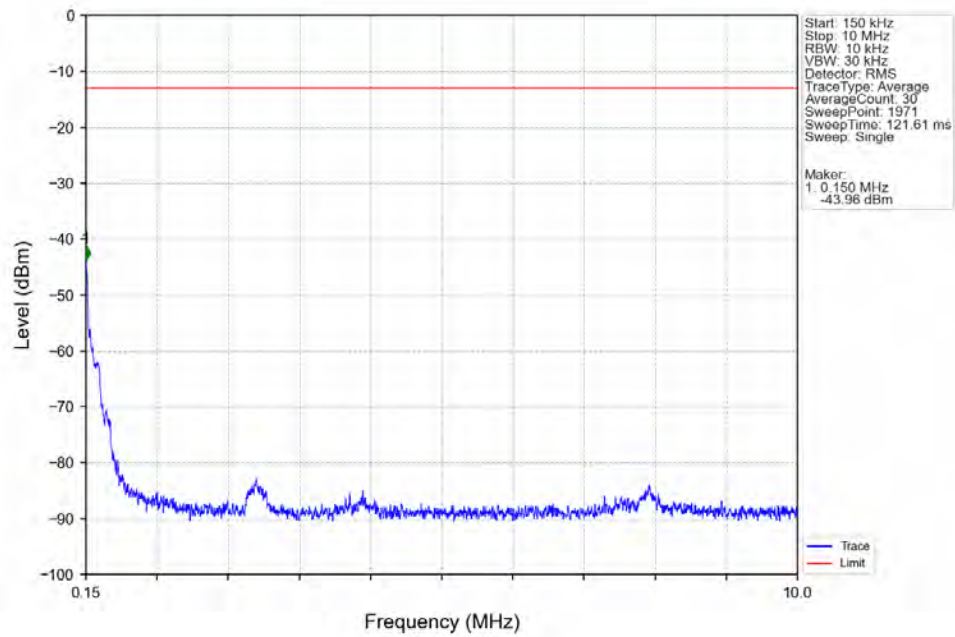


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.024    | -24.64      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -28.59      | -13         | Pass   |

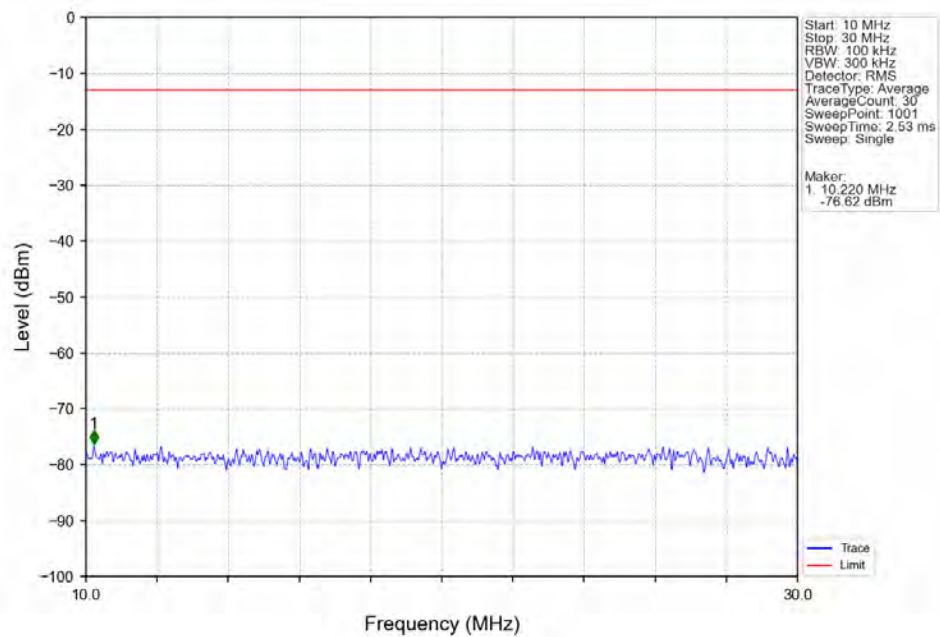
5.2.2 B12\_3MHz



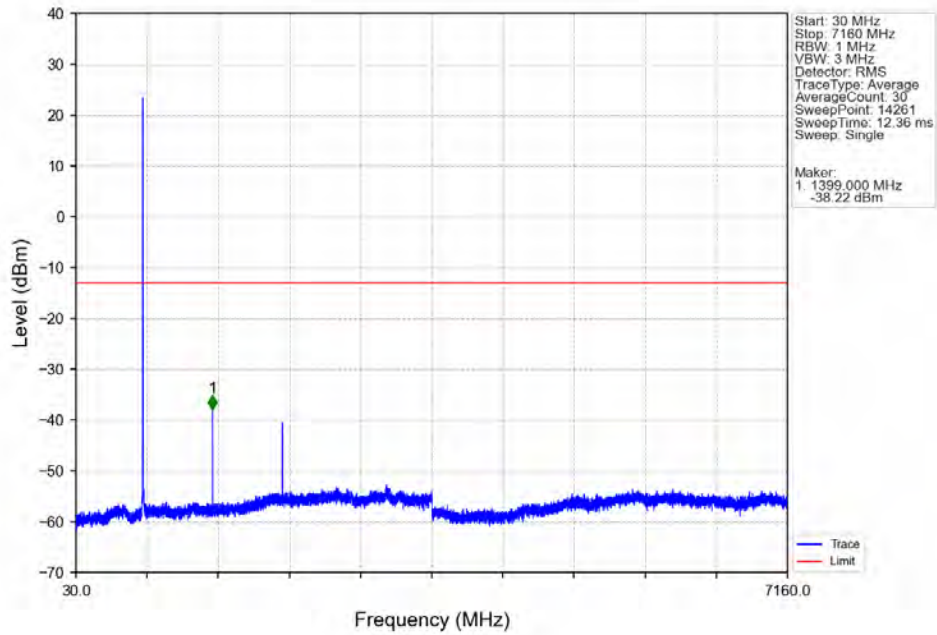
Band12 3MHz QPSK LCH 700.5MHz RB 1 0 NTNV



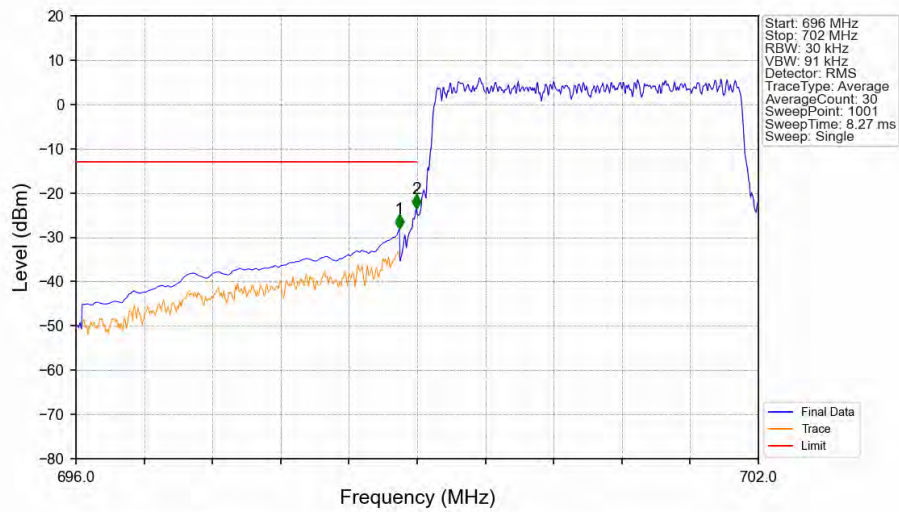
Band12 3MHz QPSK LCH 700.5MHz RB 1 0 NTNV



Band12 3MHz QPSK LCH 700.5MHz RB 1 0 NTN

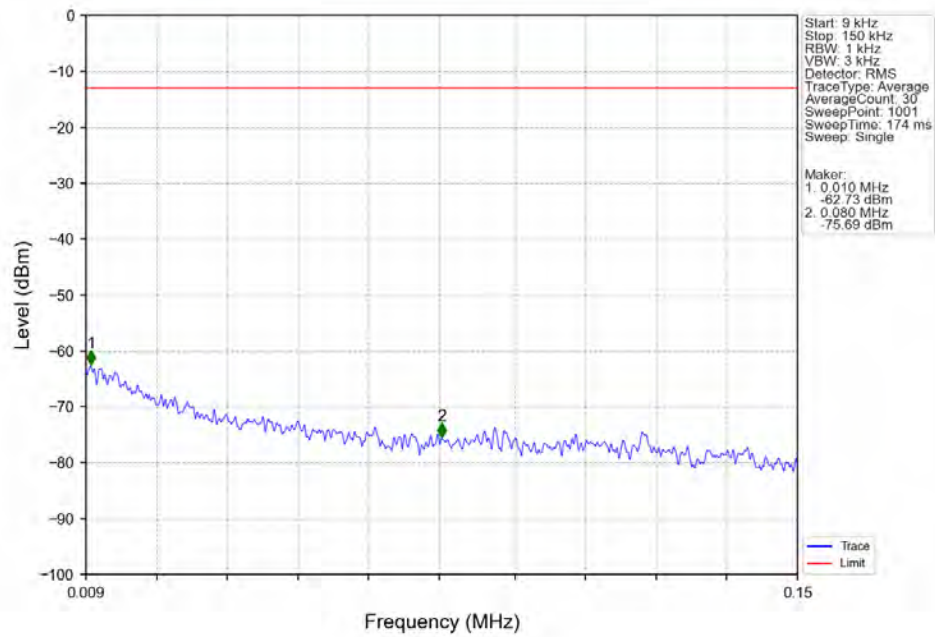


Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTN

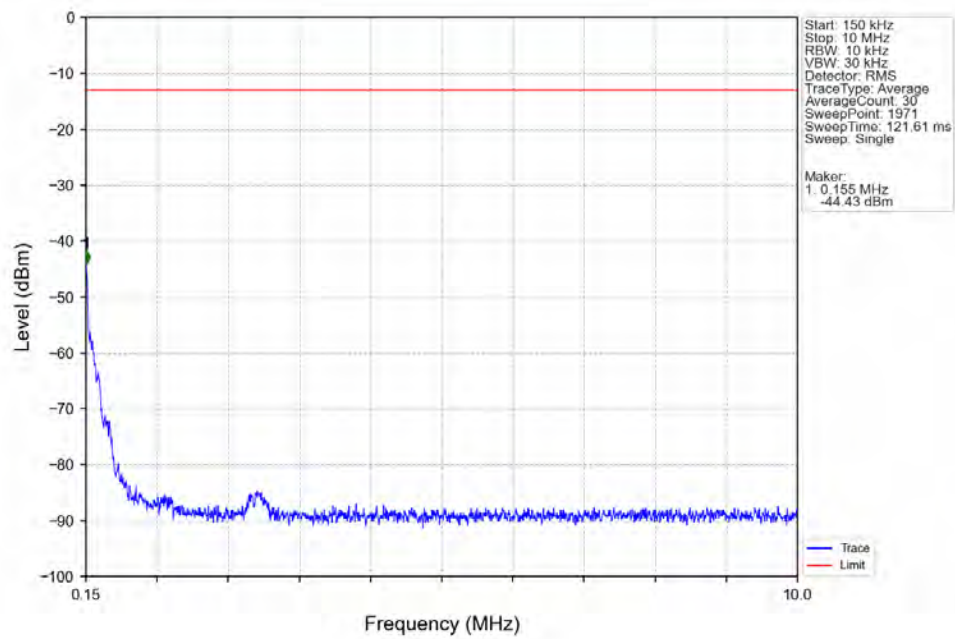


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.844    | -28.09      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.994    | -23.50      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

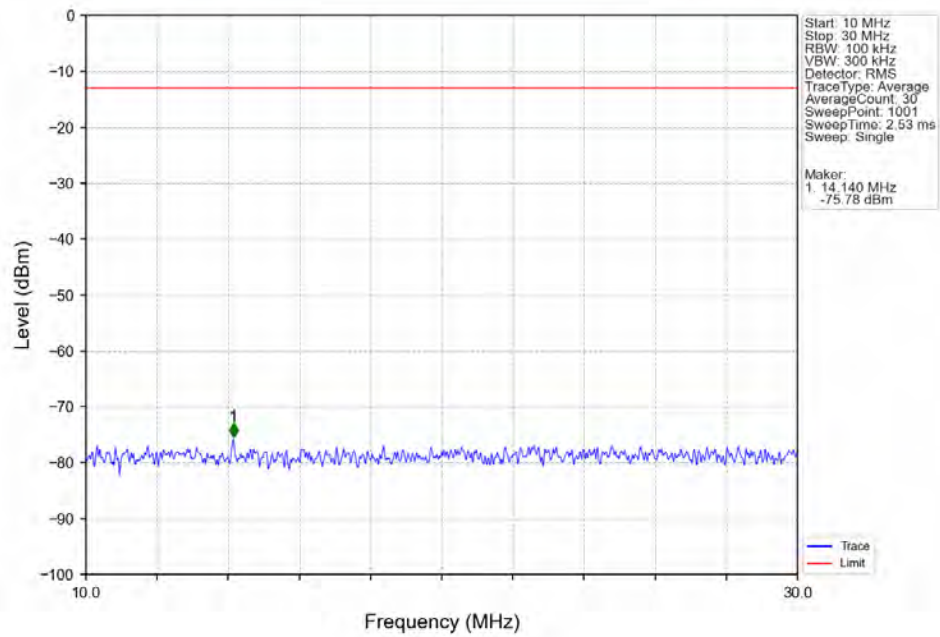
# Band12 3MHz QPSK MCH 707.5MHz RB 1 0 NTN



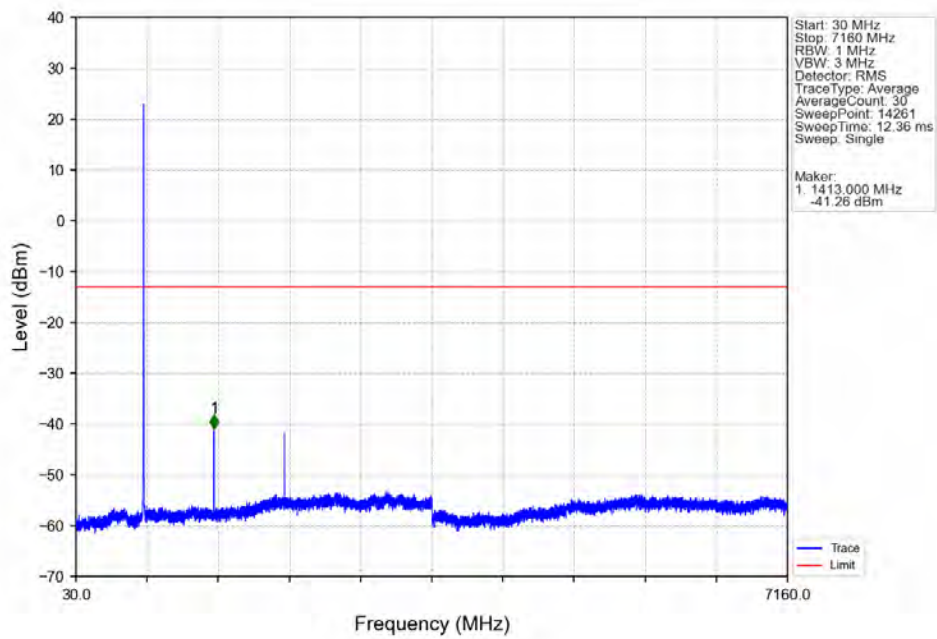
# Band12 3MHz QPSK MCH 707.5MHz RB 1 0 NTN



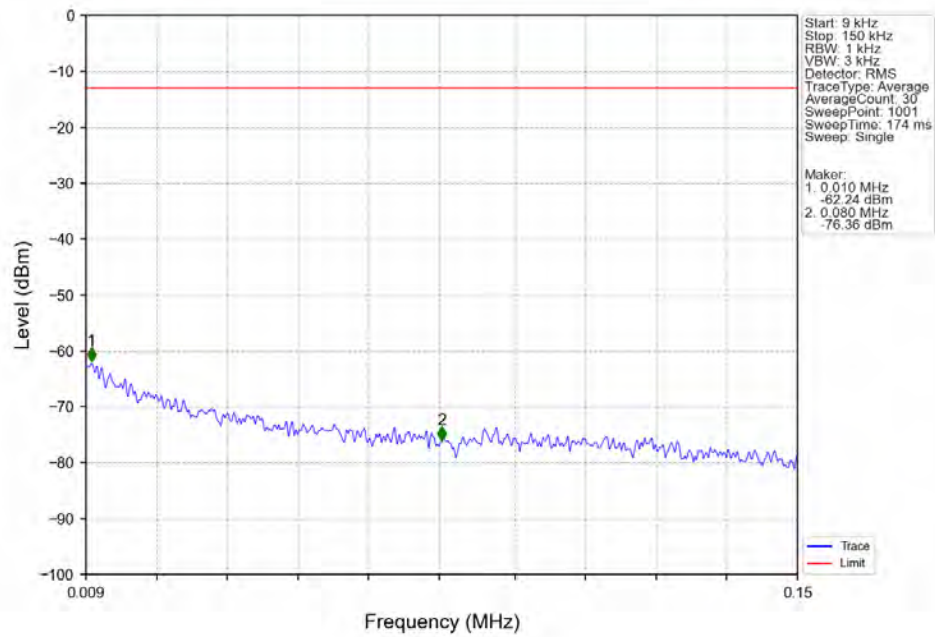
Band12 3MHz QPSK MCH 707.5MHz RB 1 0 NTNV



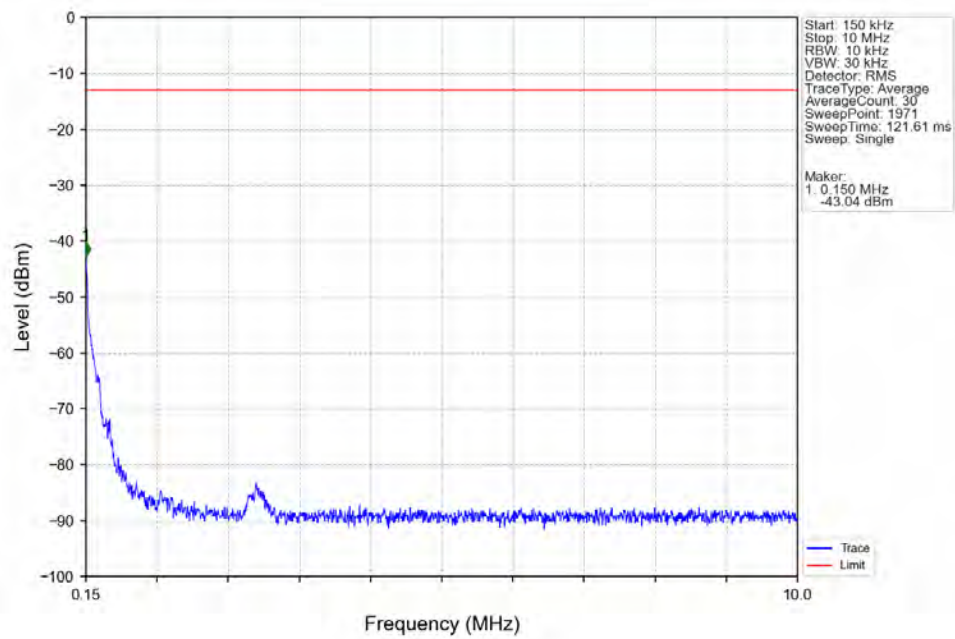
Band12 3MHz QPSK MCH 707.5MHz RB 1 0 NTNV



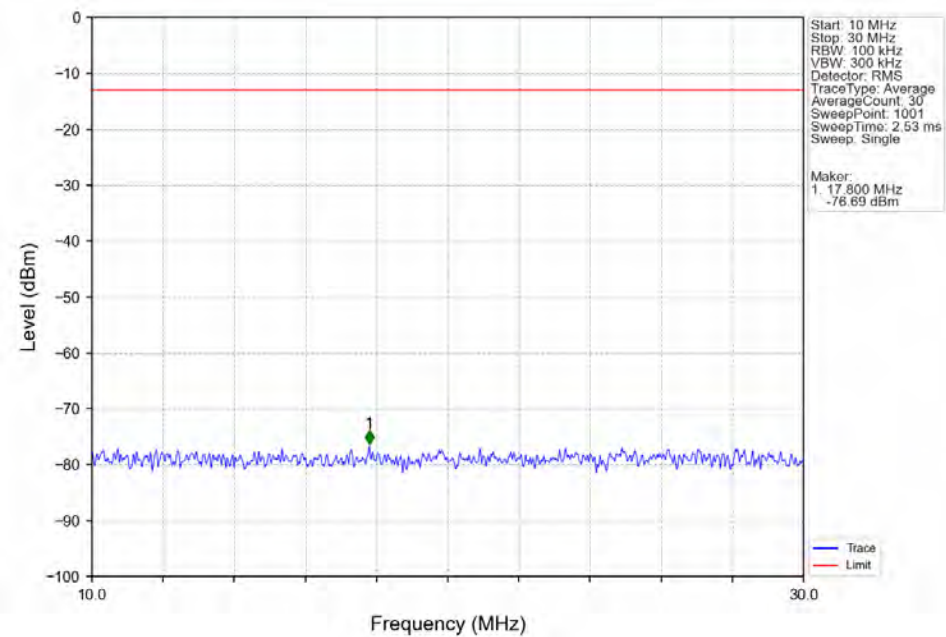
Band12 3MHz QPSK HCH 714.5MHz RB 1 0 NTN



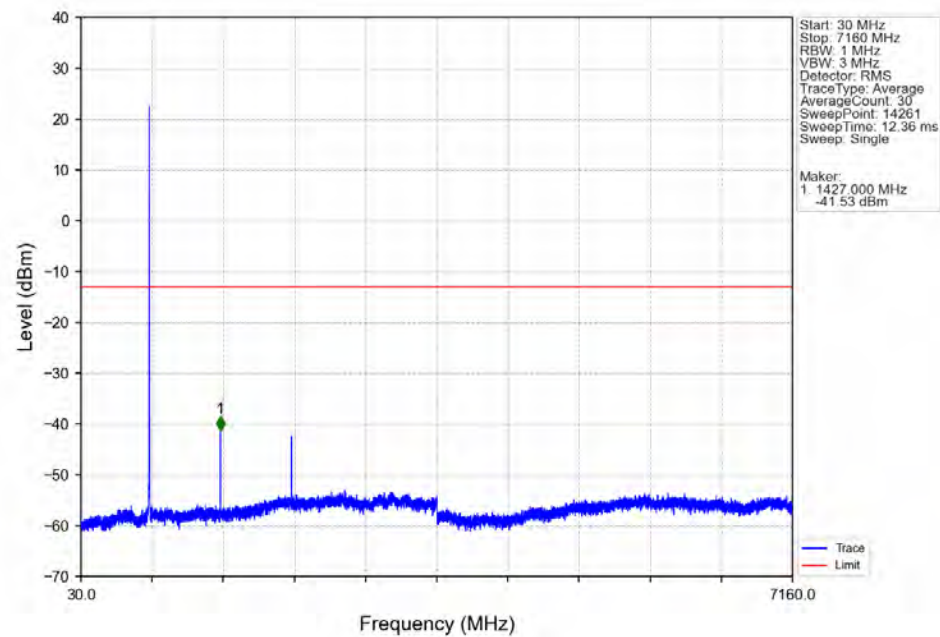
Band12 3MHz QPSK HCH 714.5MHz RB 1 0 NTN



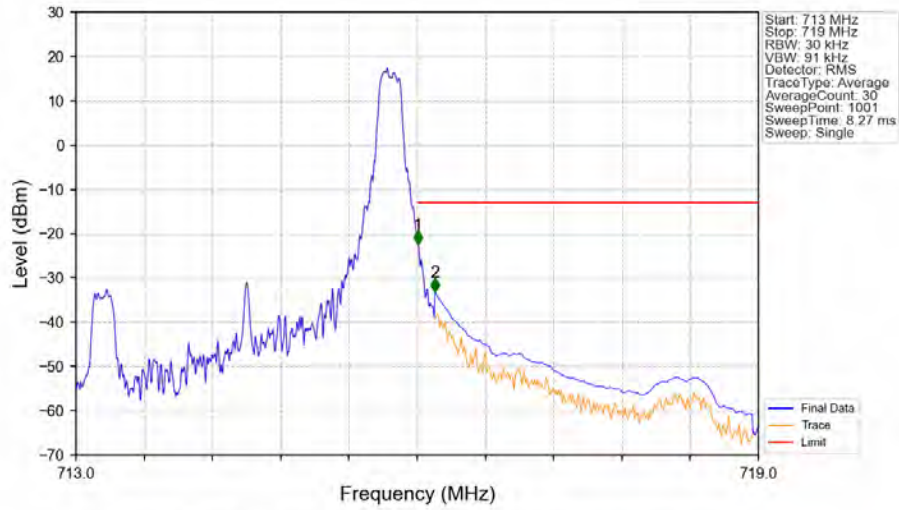
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_1\_0\_NTNV



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

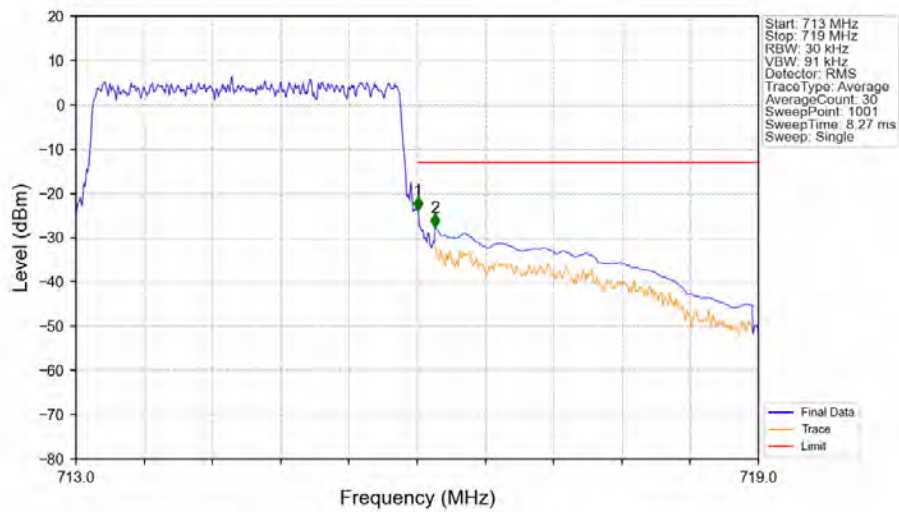


# Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_1\_14\_NTNV



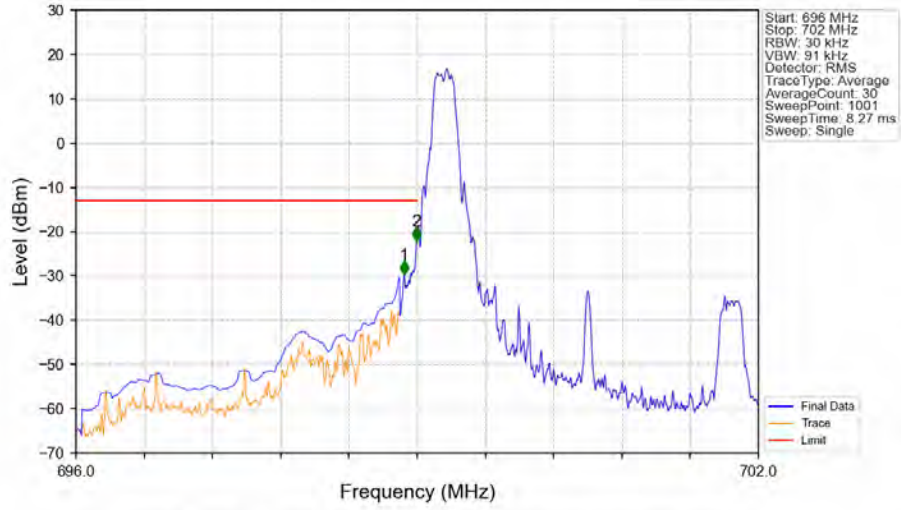
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.006    | -22.41      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -33.12      | -13         | Pass   |

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

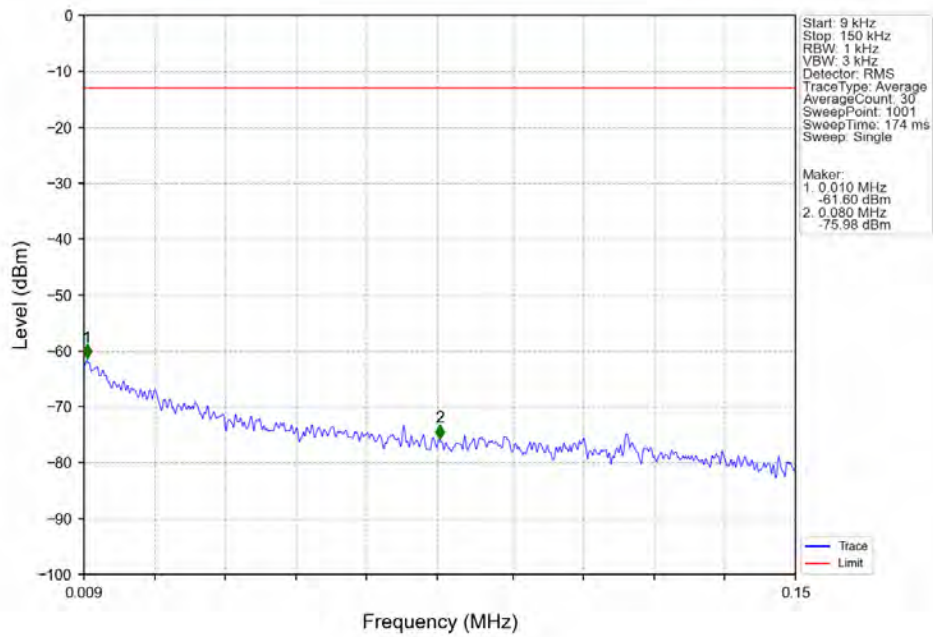


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.006    | -23.86      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -27.69      | -13         | Pass   |

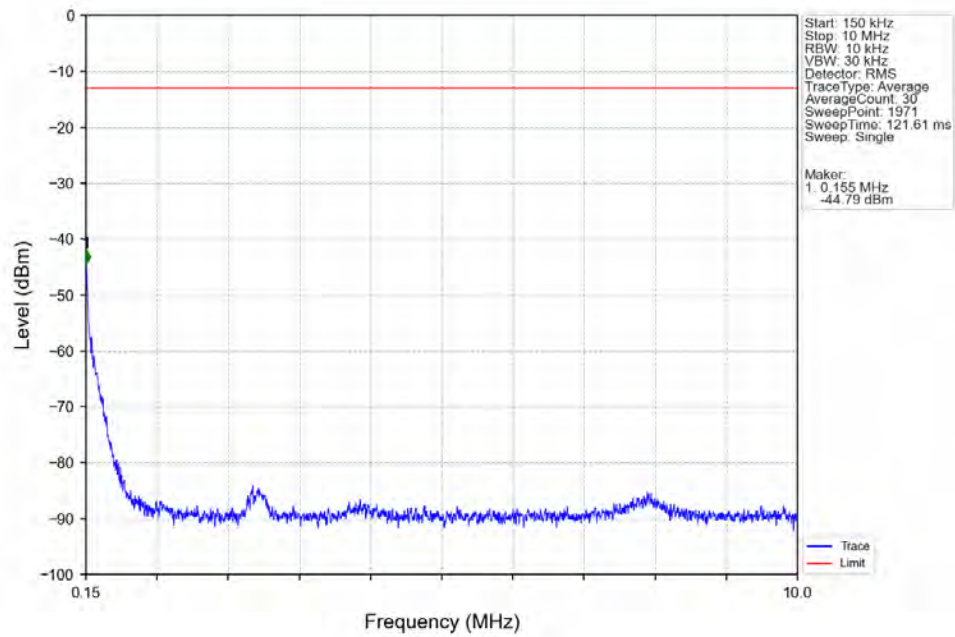
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV



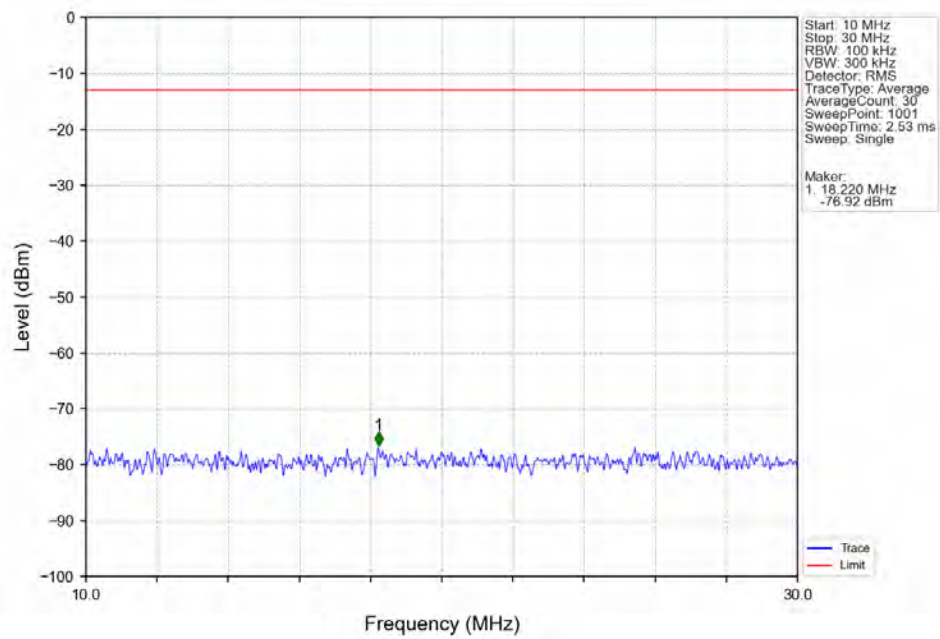
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV



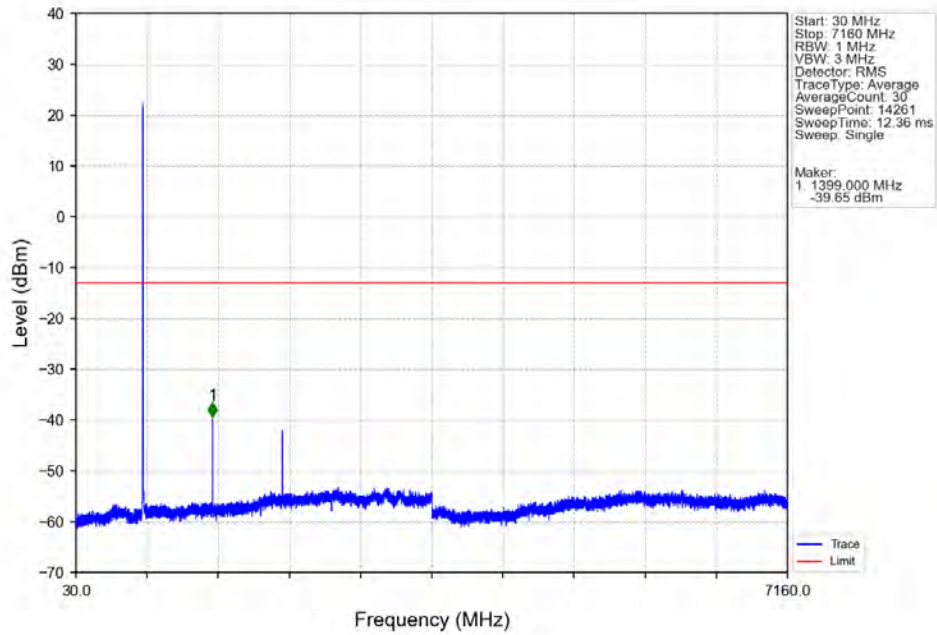
Band12 3MHz 16QAM LCH 700.5MHz RB 1 0 NTNV



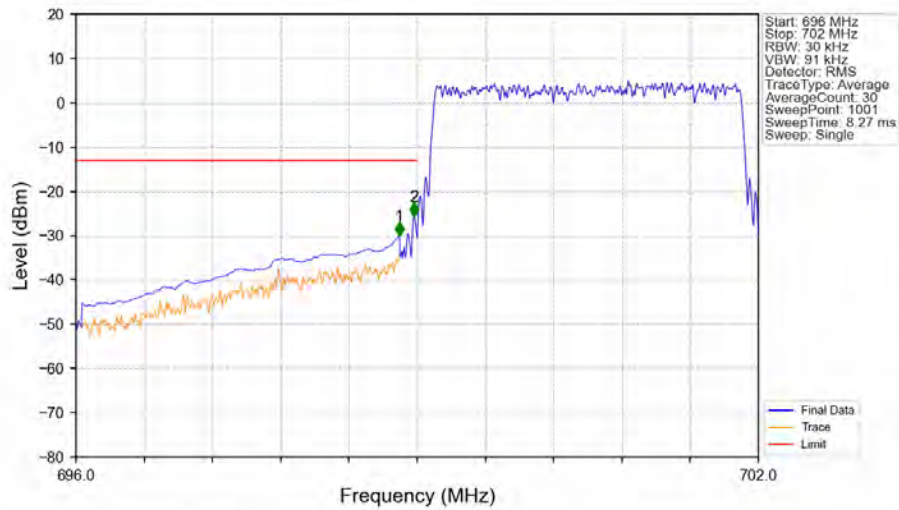
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV



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

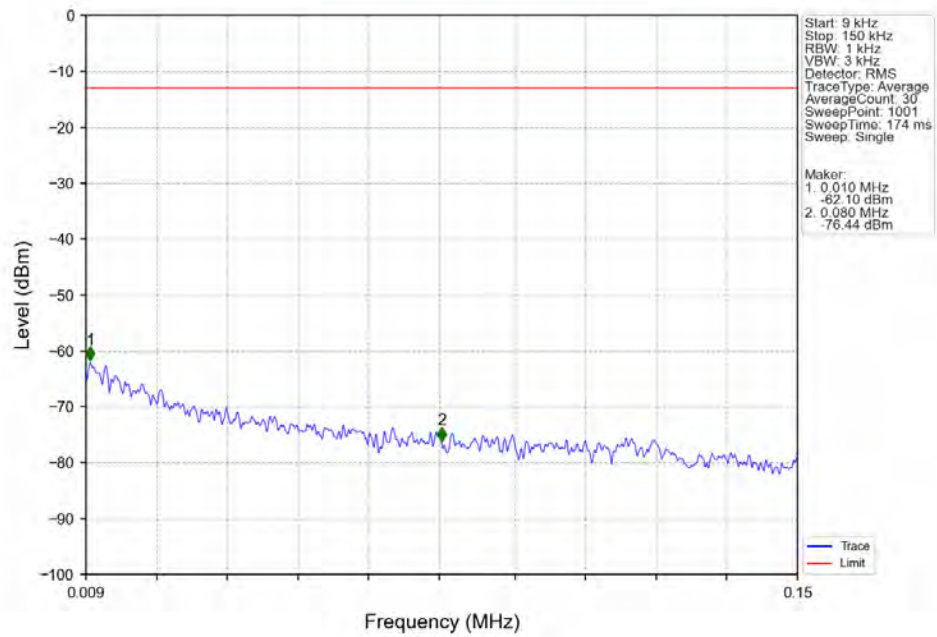


Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV

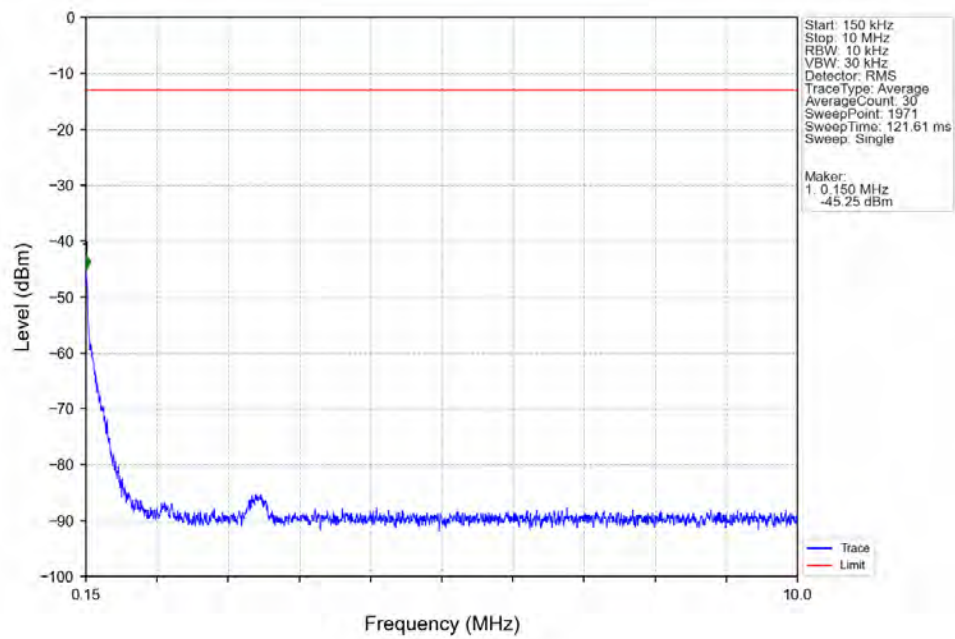


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.844    | -30.00      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.970    | -25.70      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

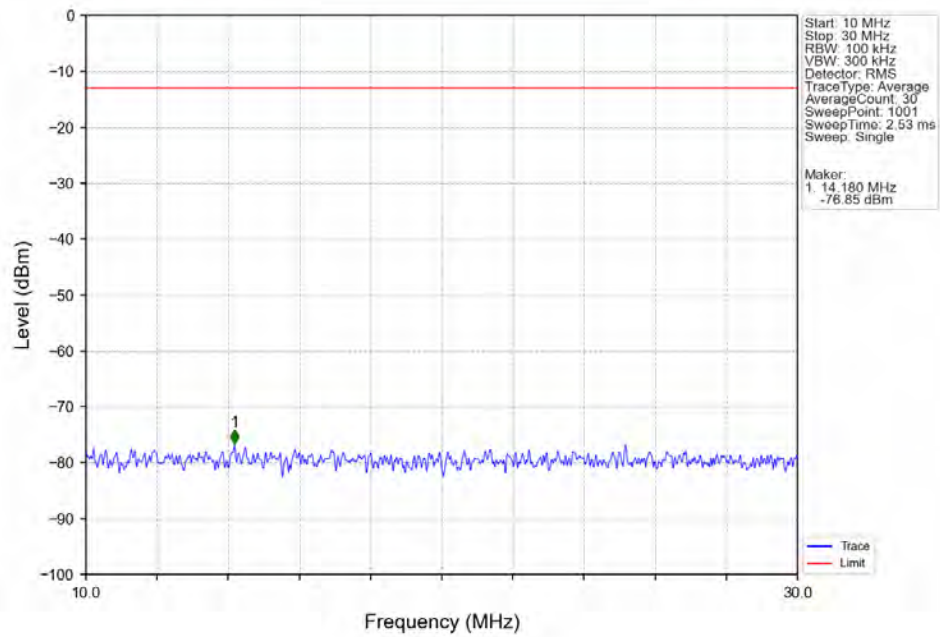
Band12 3MHz 16QAM MCH 707.5MHz RB 1 0 NTV



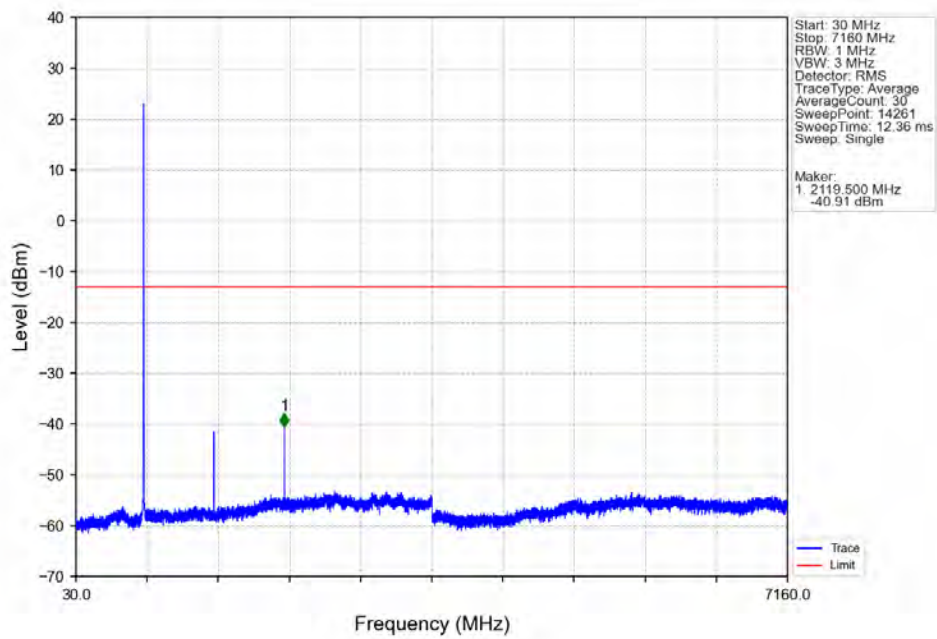
Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTV



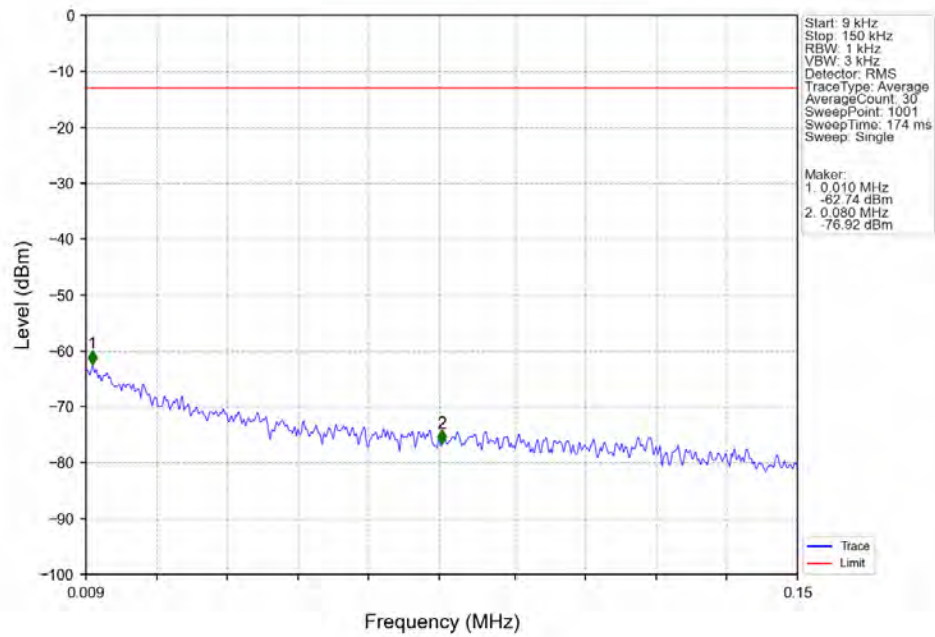
Band12 3MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



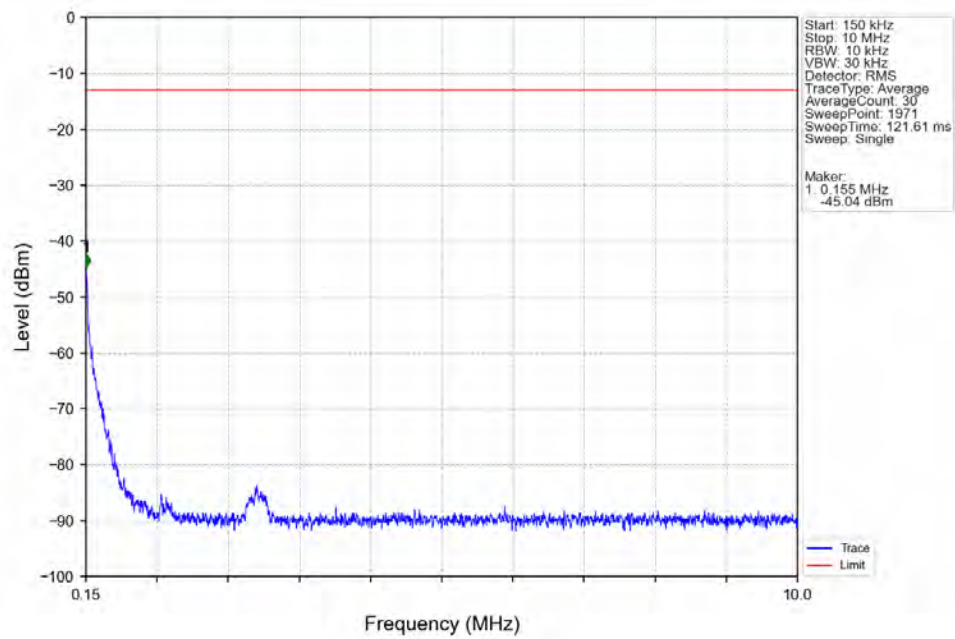
Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



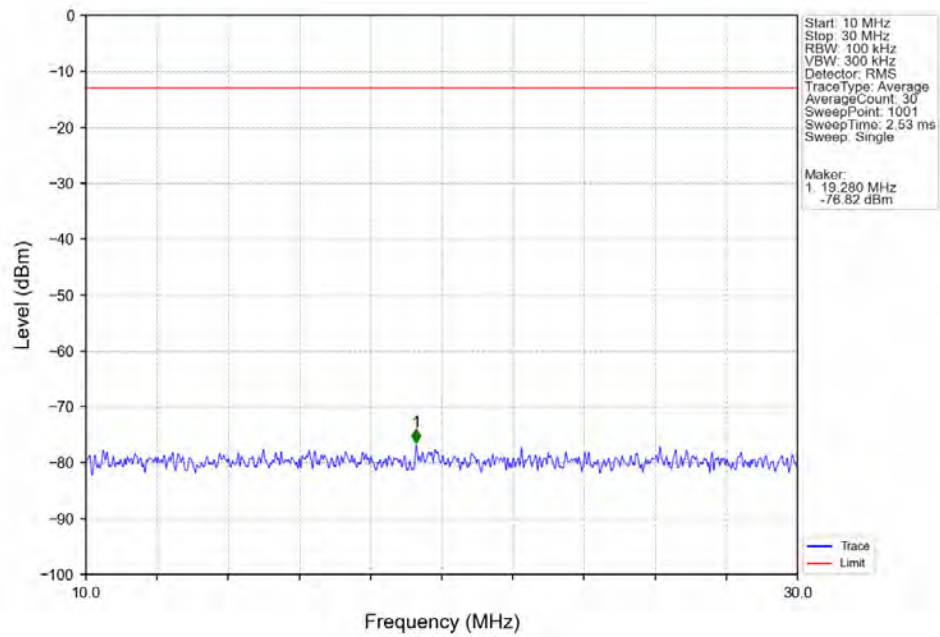
Band12 3MHz 16QAM HCH 714.5MHz RB 1 0 NTNV



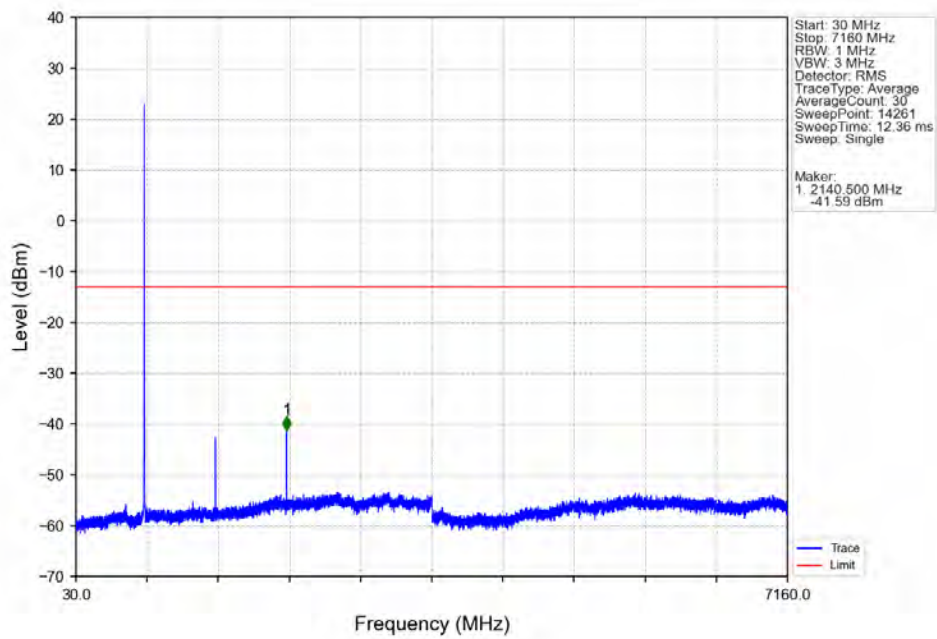
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_1\_0\_NTNV



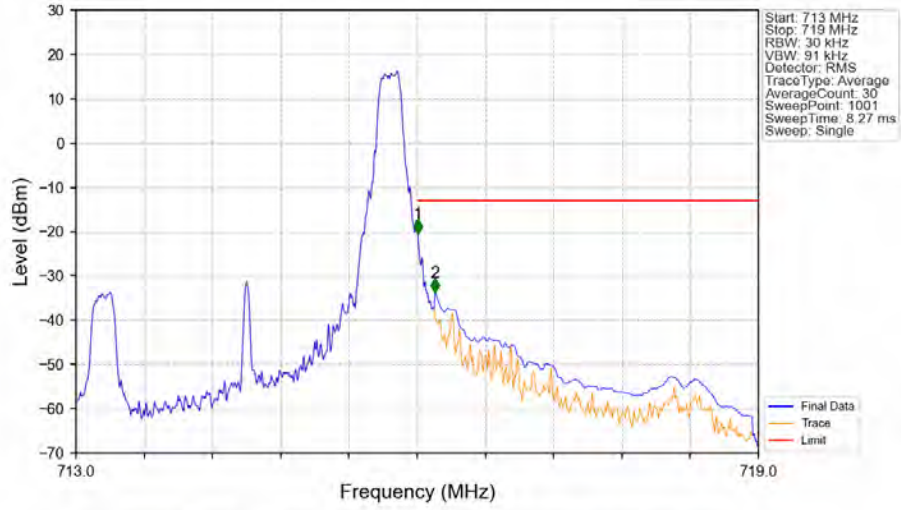
Band12 3MHz 16QAM HCH 714.5MHz RB 1 0 NTNV



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

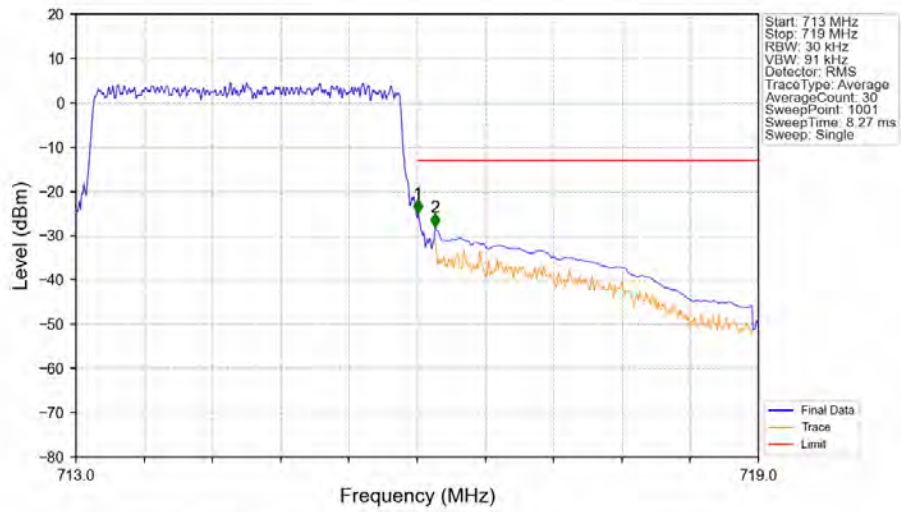


Band12 3MHz 16QAM HCH 714.5MHz RB 1 14 NTNV



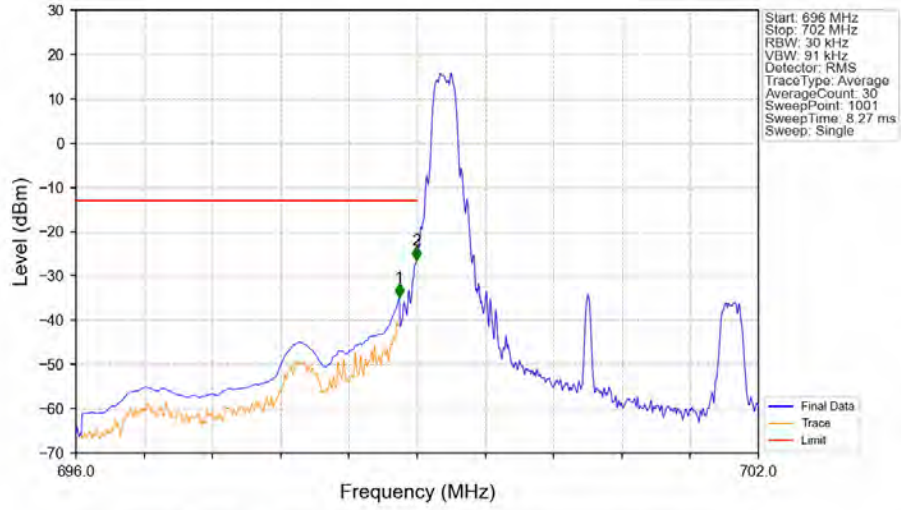
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.006    | -20.37      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -33.68      | -13         | Pass   |

Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV

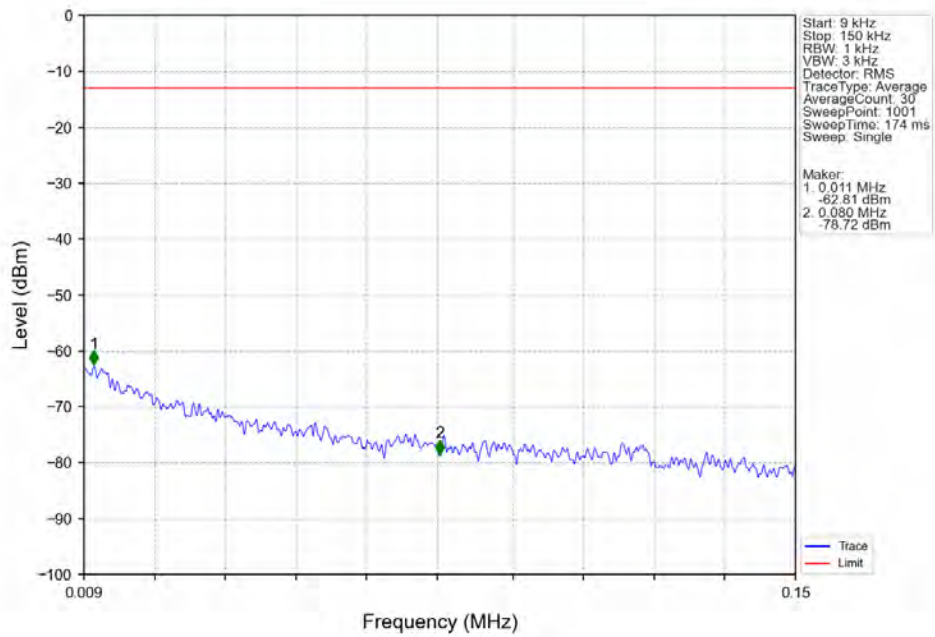


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.006    | -24.89      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -28.11      | -13         | Pass   |

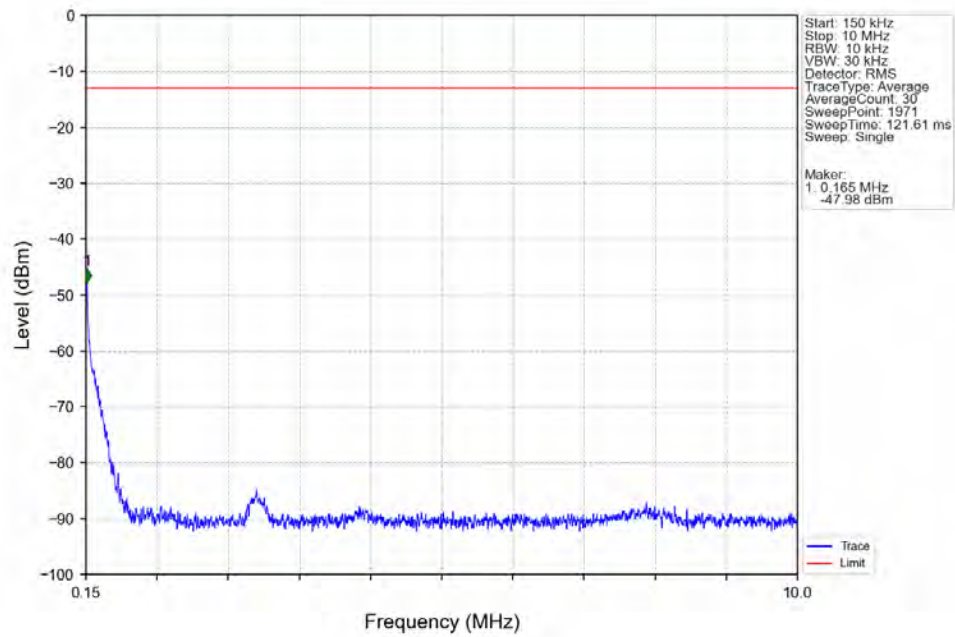
# Band12 3MHz 64QAM LCH 700.5MHz RB 1 0 NTV



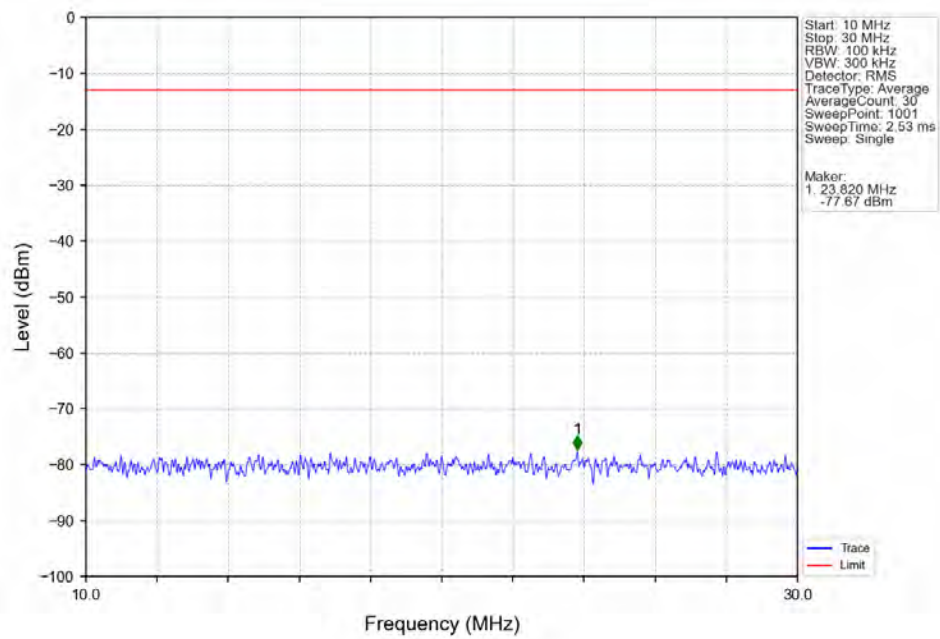
# Band12\_3MHz\_64QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTV



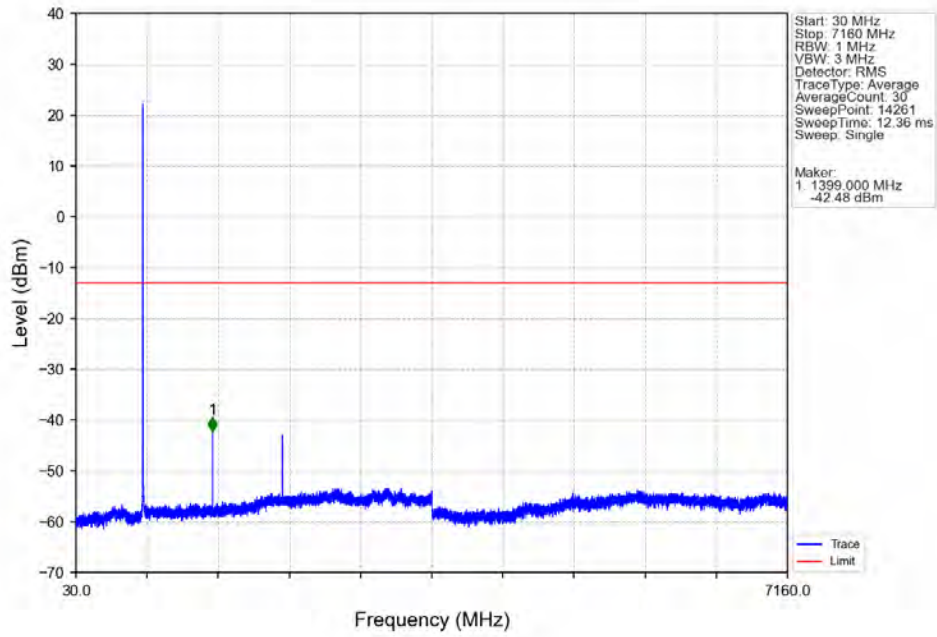
Band12\_3MHz\_64QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV



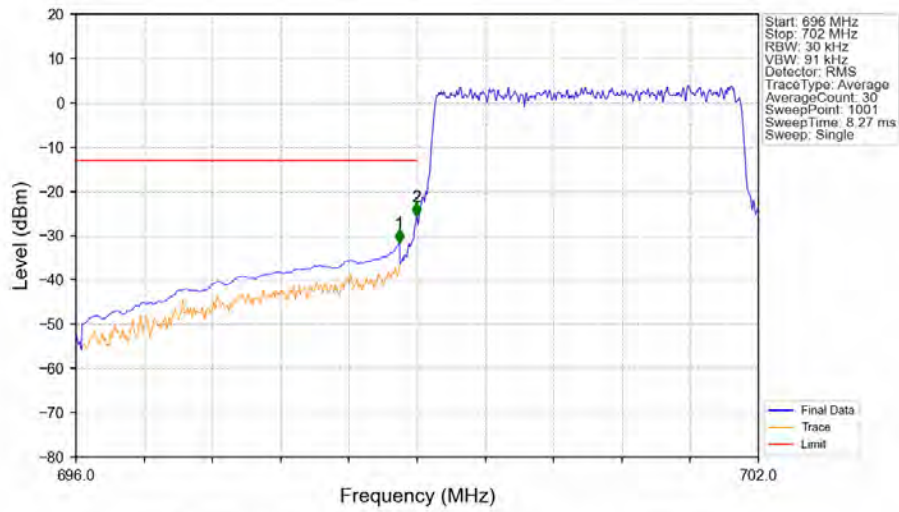
Band12\_3MHz\_64QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV



Band12 3MHz 64QAM LCH 700.5MHz RB 1 0 NTNV

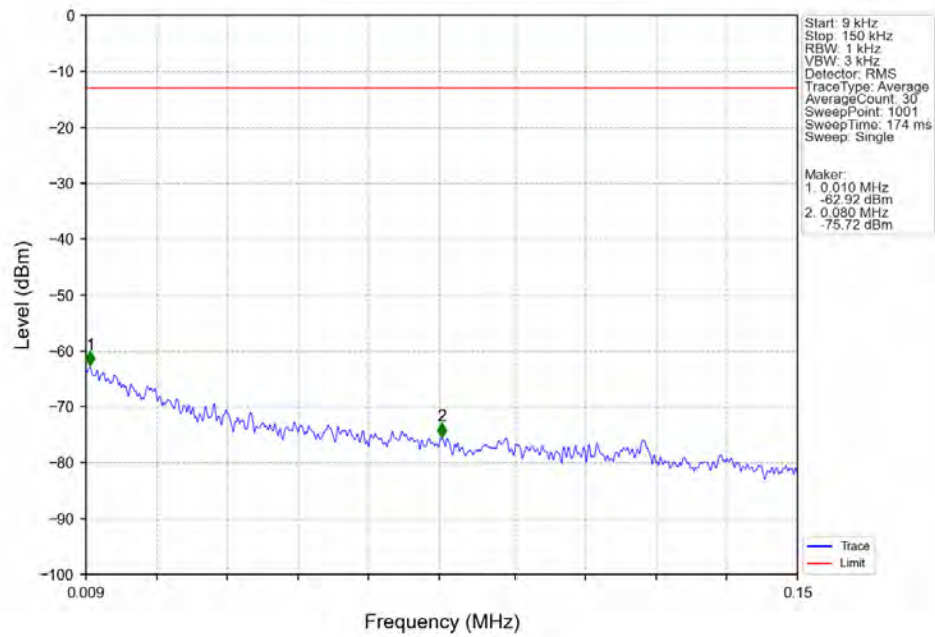


Band12\_3MHz\_64QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV

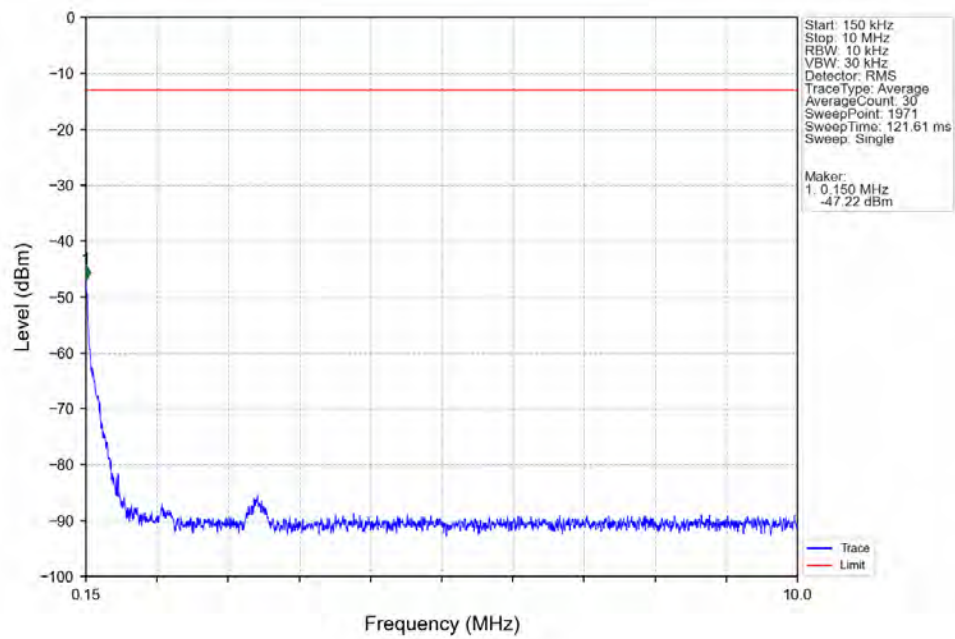


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.844    | -31.60      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.994    | -25.60      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

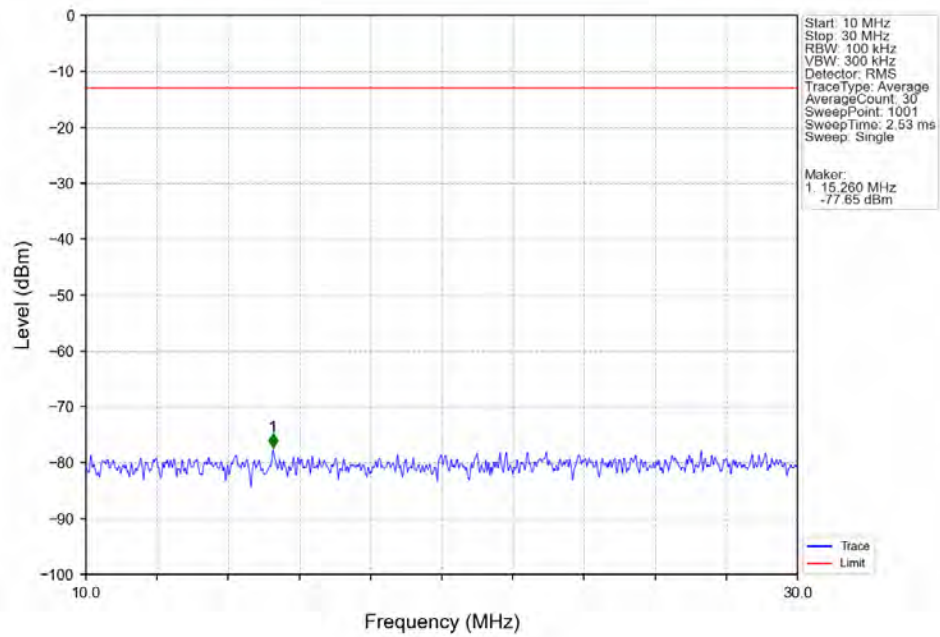
Band12 3MHz 64QAM MCH 707.5MHz RB 1 0 NTNV



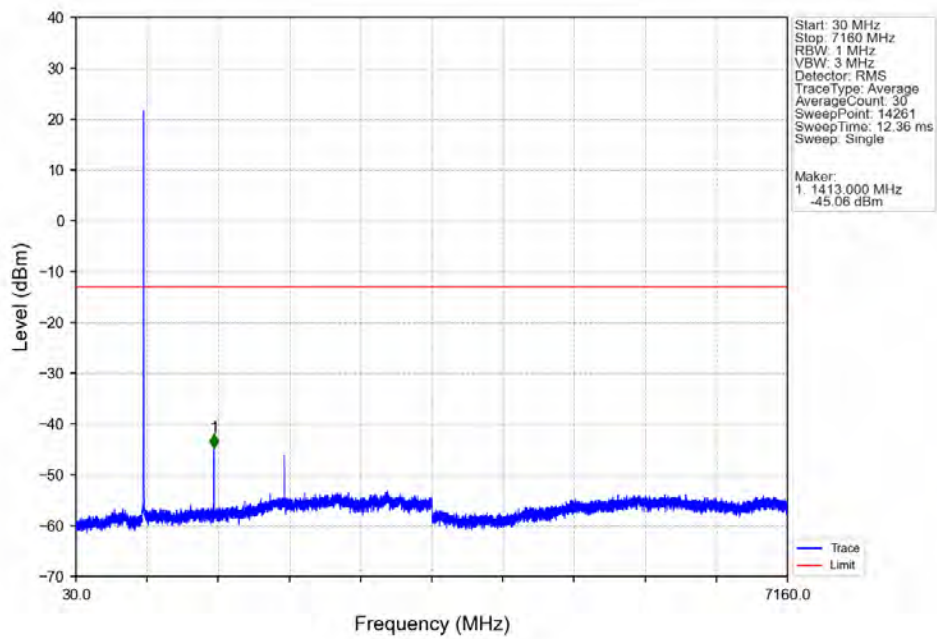
Band12\_3MHz\_64QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



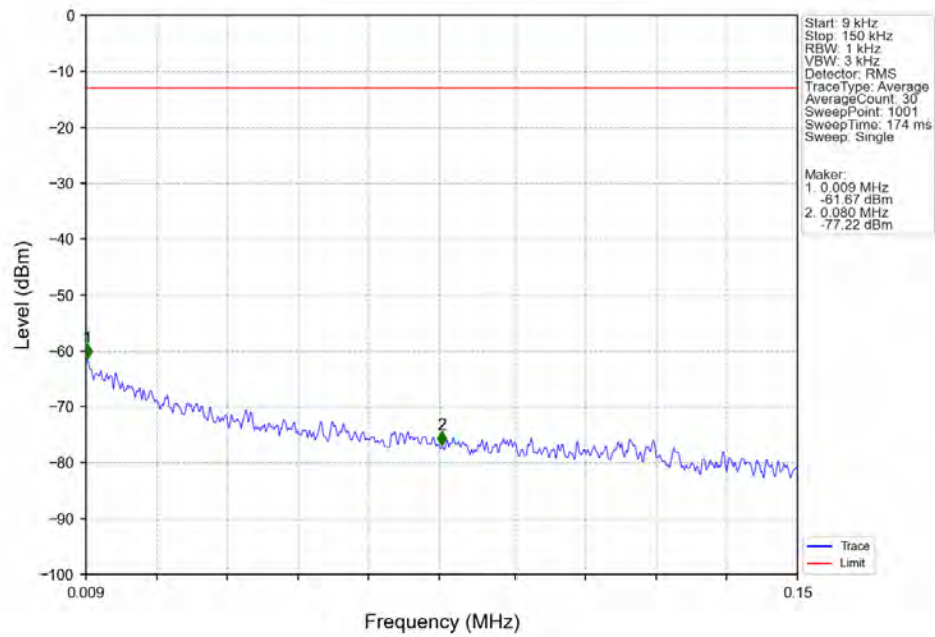
Band12 3MHz 64QAM MCH 707.5MHz RB 1 0 NTNV



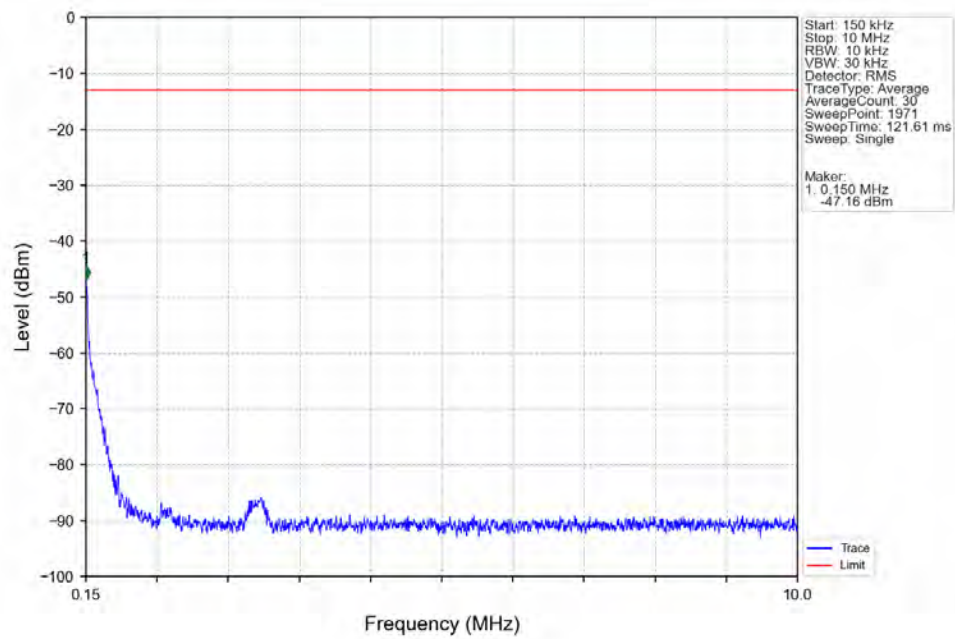
Band12\_3MHz\_64QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



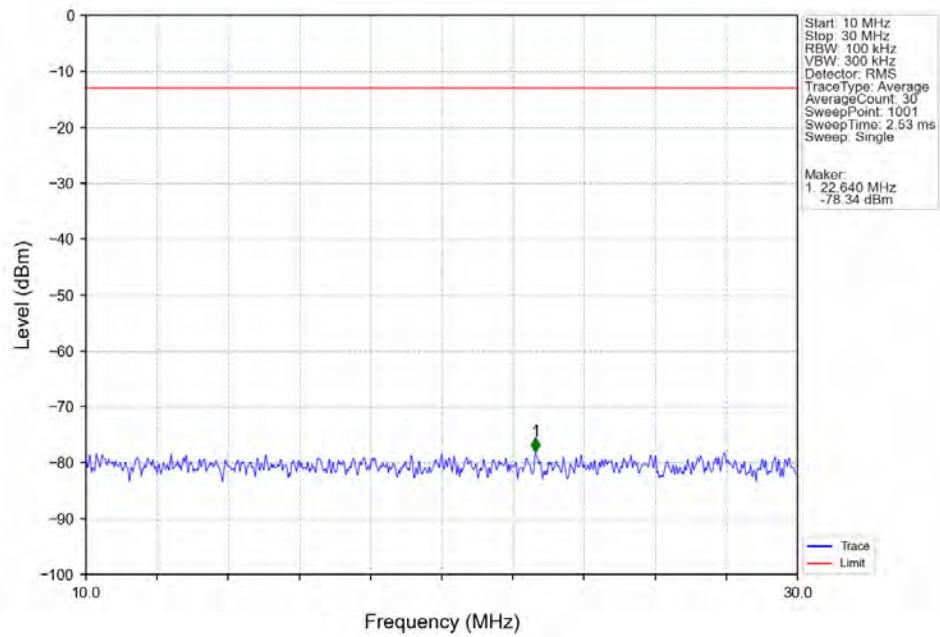
Band12 3MHz 64QAM HCH 714.5MHz RB 1 0 NTNV



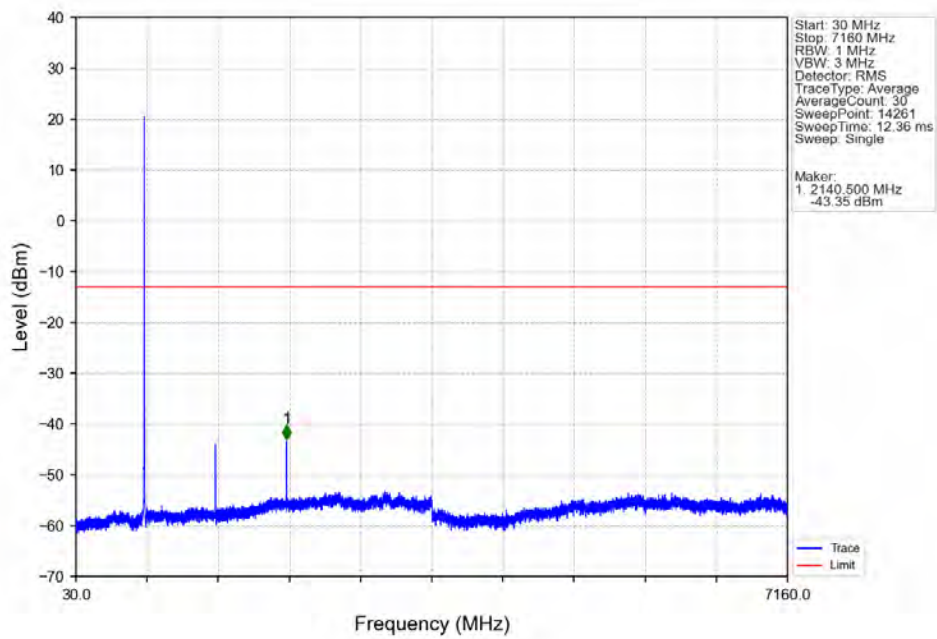
Band12\_3MHz\_64QAM\_HCH\_714.5MHz\_RB\_1\_0\_NTNV



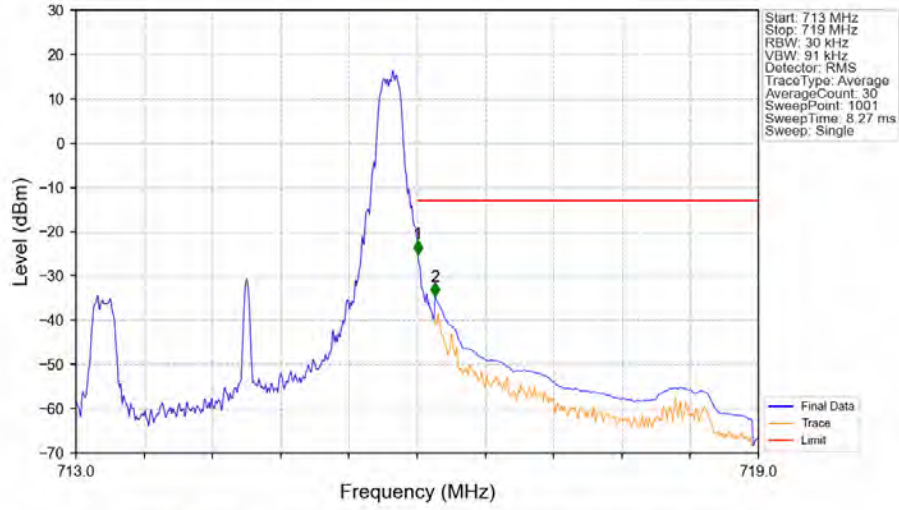
Band12 3MHz 64QAM HCH 714.5MHz RB 1 0 NTNV



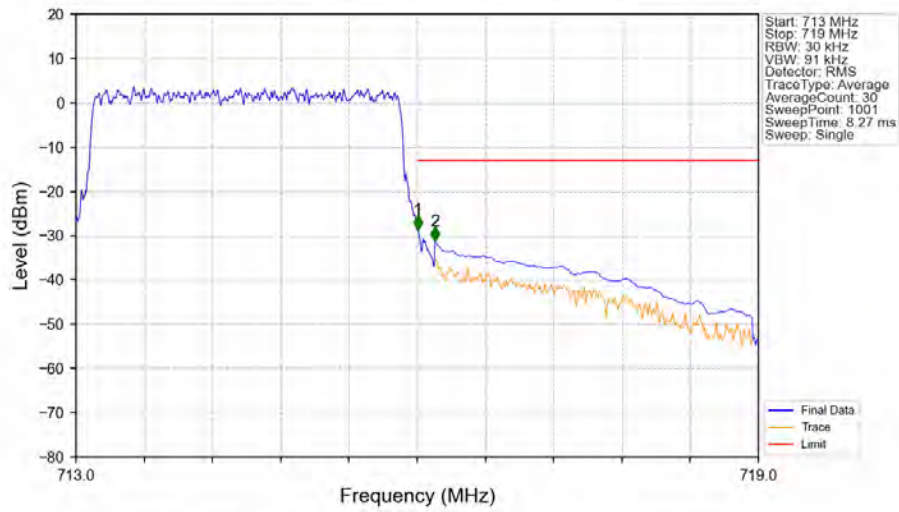
Band12\_3MHz\_64QAM\_HCH\_714.5MHz\_RB\_1\_0\_NTNV



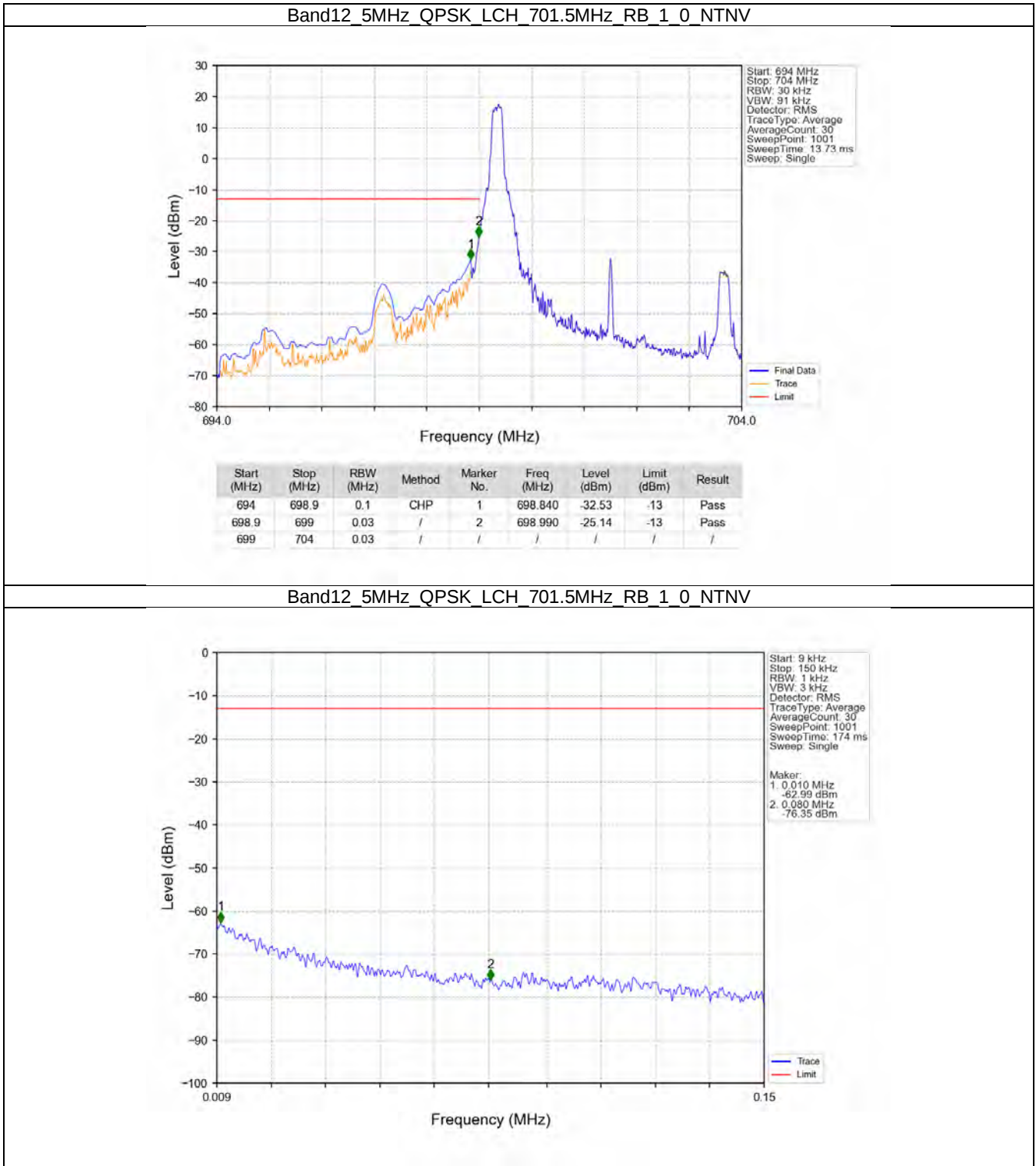
Band12 3MHz 64QAM HCH 714.5MHz RB 1 14 NTNV



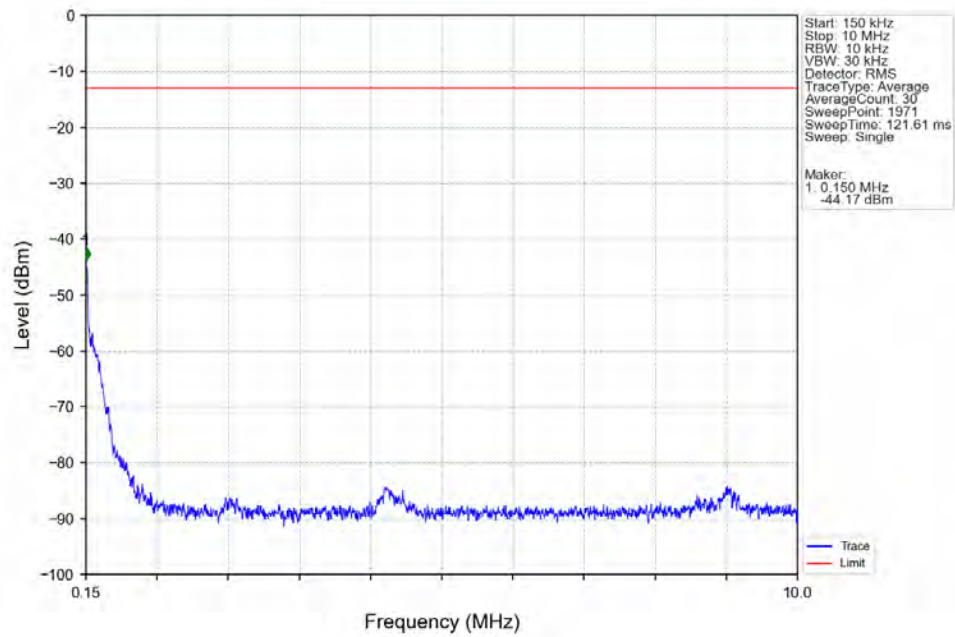
Band12 3MHz 64QAM HCH 714.5MHz RB 15 0 NTNV



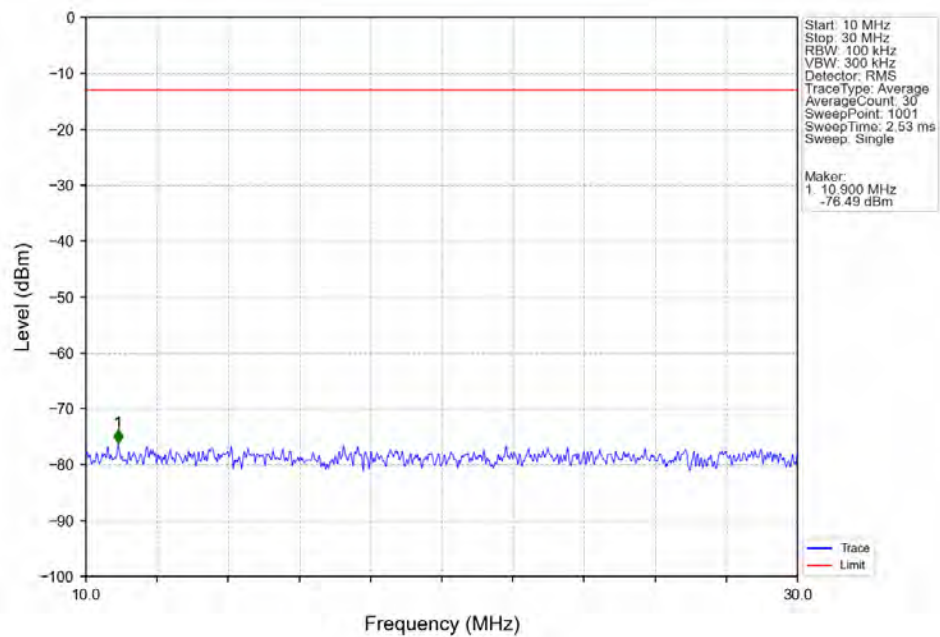
5.2.3 B12\_5MHz



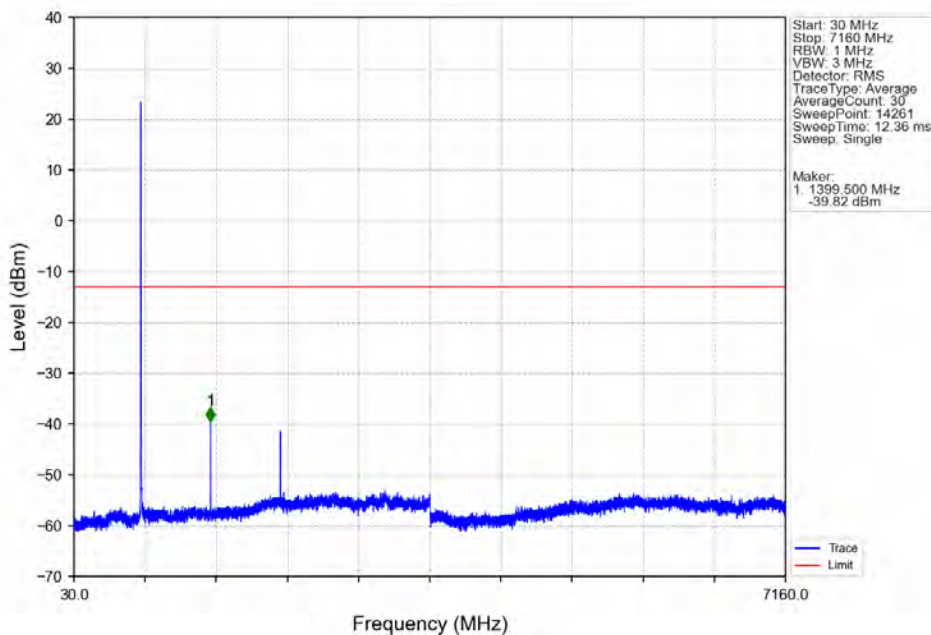
Band12 5MHz QPSK LCH 701.5MHz RB 1 0 NTNV



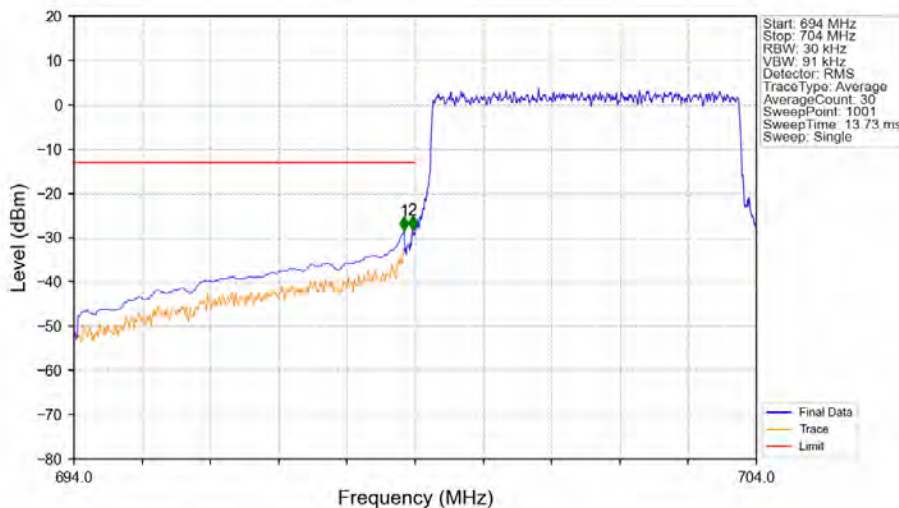
Band12 5MHz QPSK LCH 701.5MHz RB 1 0 NTNV



Band12 5MHz QPSK LCH 701.5MHz RB 1 0 NTNV

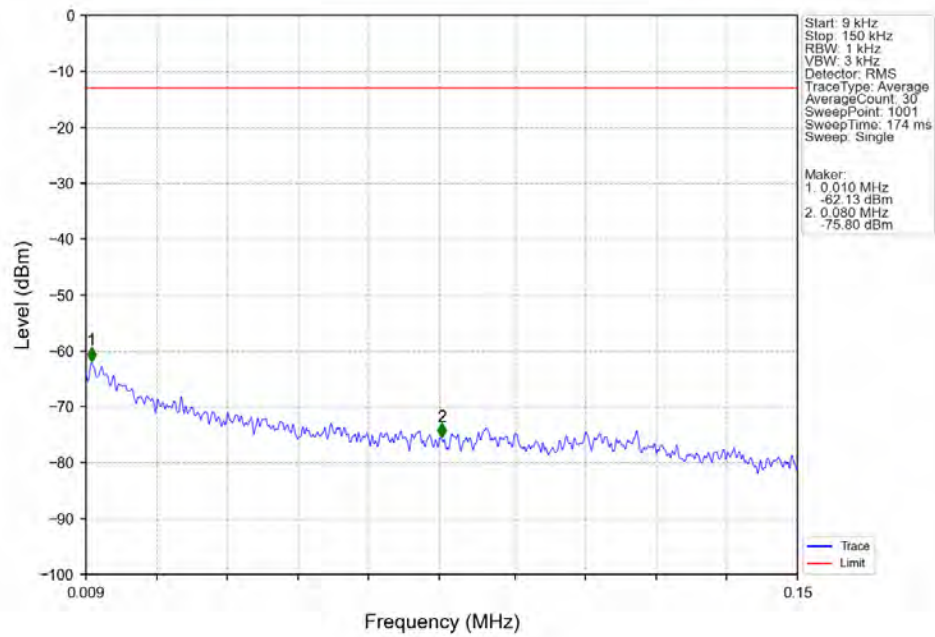


Band12 5MHz QPSK LCH 701.5MHz RB 25 0 NTNV

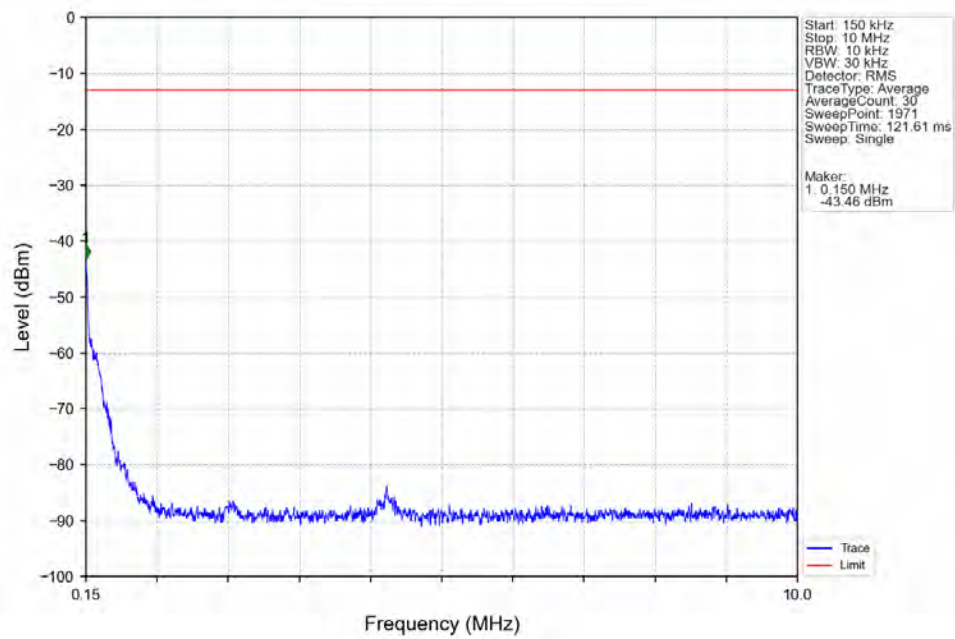


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 694         | 698.9      | 0.1       | CHP    | 1          | 698.840    | -28.47      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.960    | -28.23      | -13         | Pass   |
| 699         | 704        | 0.03      | /      | /          | /          | /           | /           | /      |

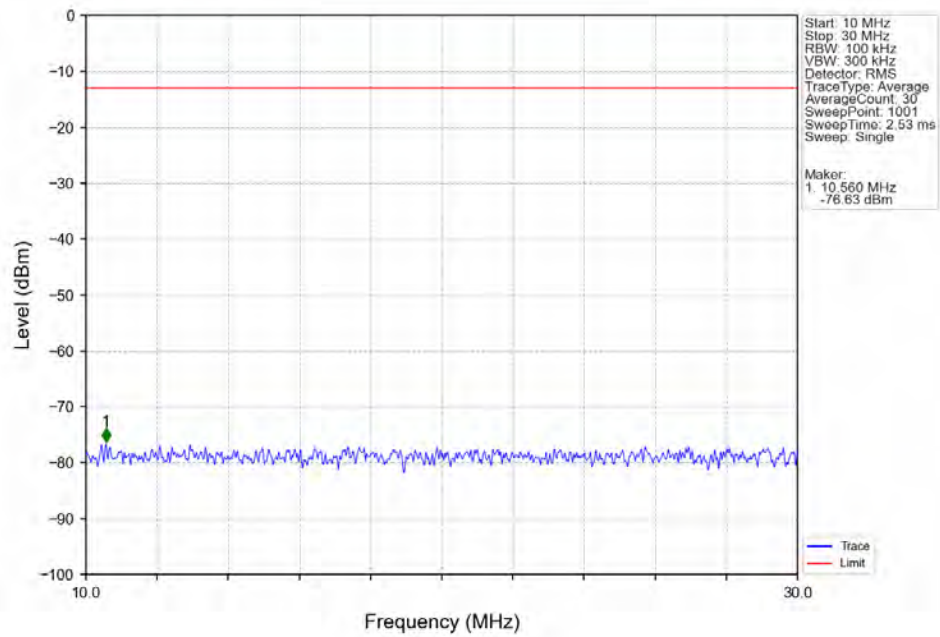
# Band12 5MHz QPSK MCH 707.5MHz RB 1 0 NTN



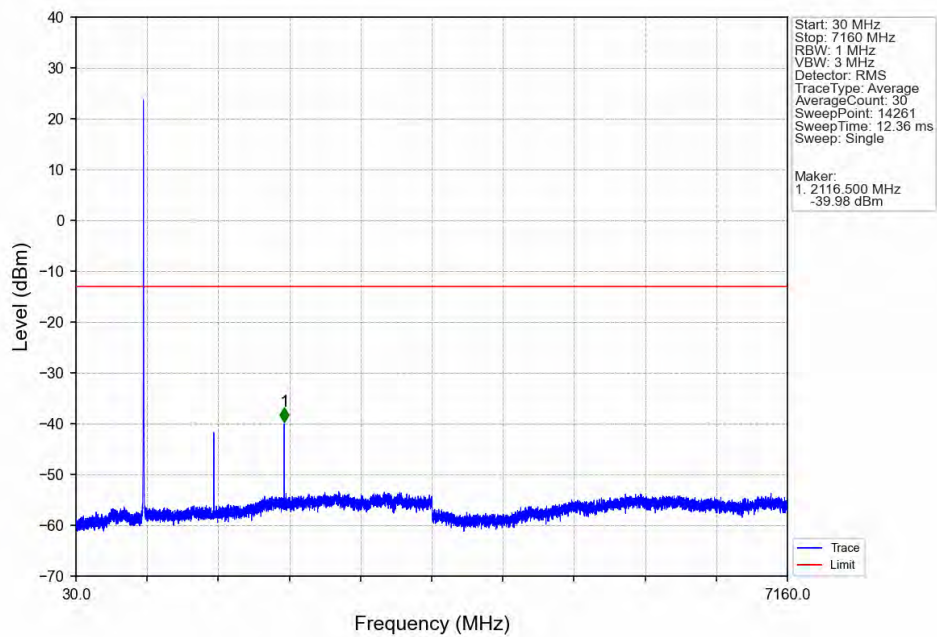
# Band12 5MHz QPSK MCH 707.5MHz RB 1 0 NTN



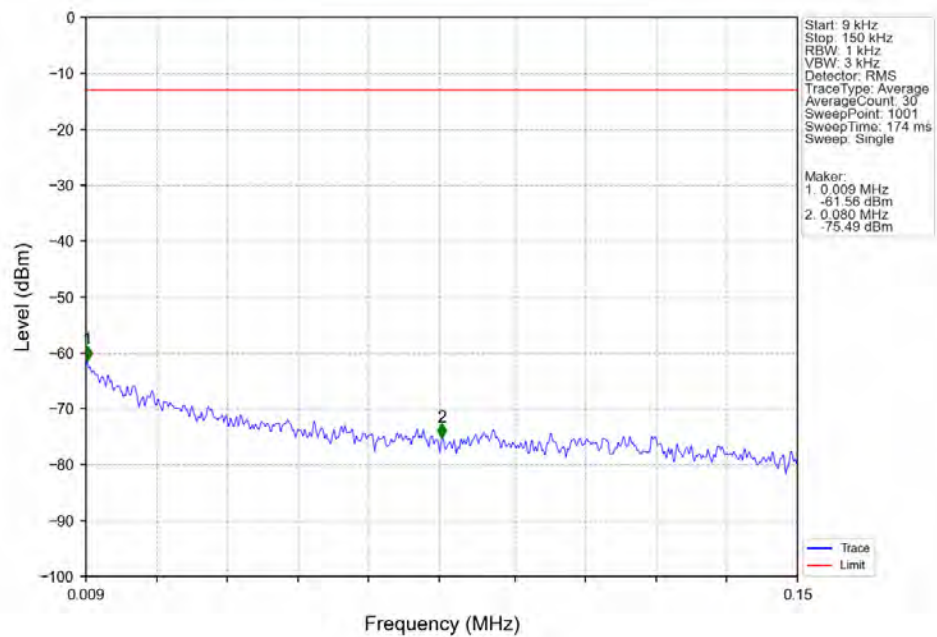
Band12 5MHz QPSK MCH 707.5MHz RB 1 0 NTNV



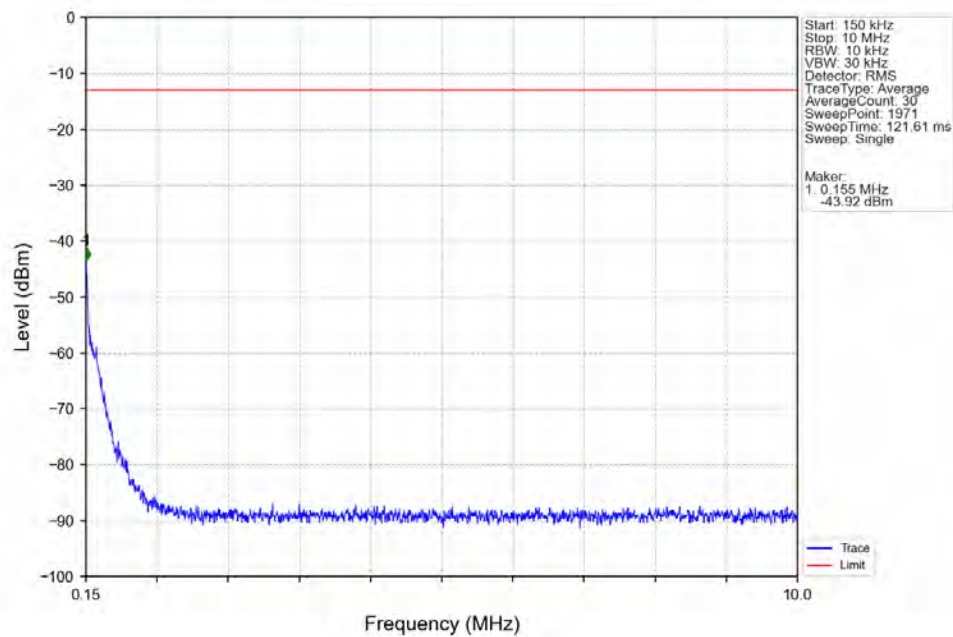
Band12 5MHz QPSK MCH 707.5MHz RB 1 0 NTNV



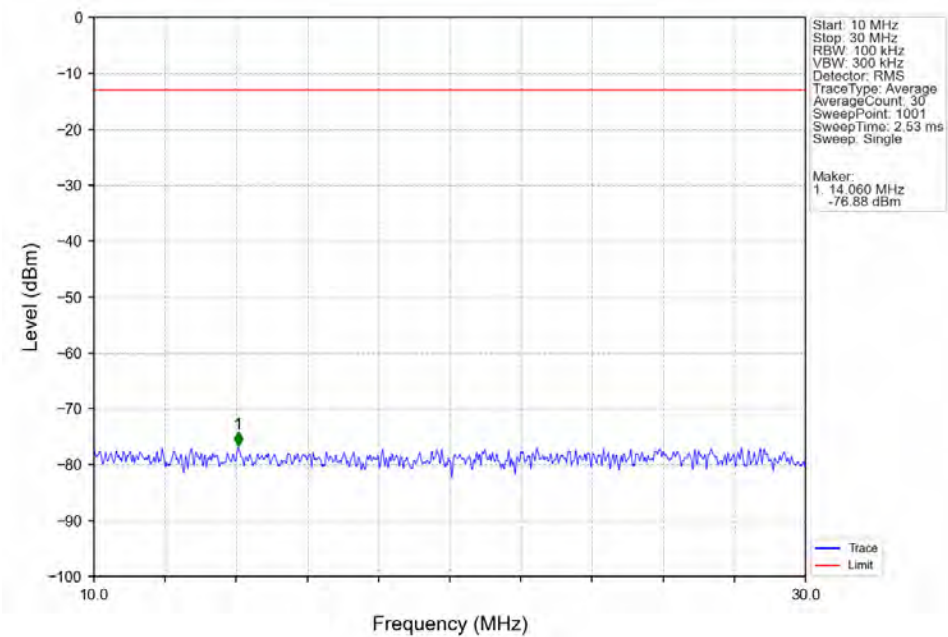
Band12 5MHz QPSK HCH 713.5MHz RB 1 0 NTN



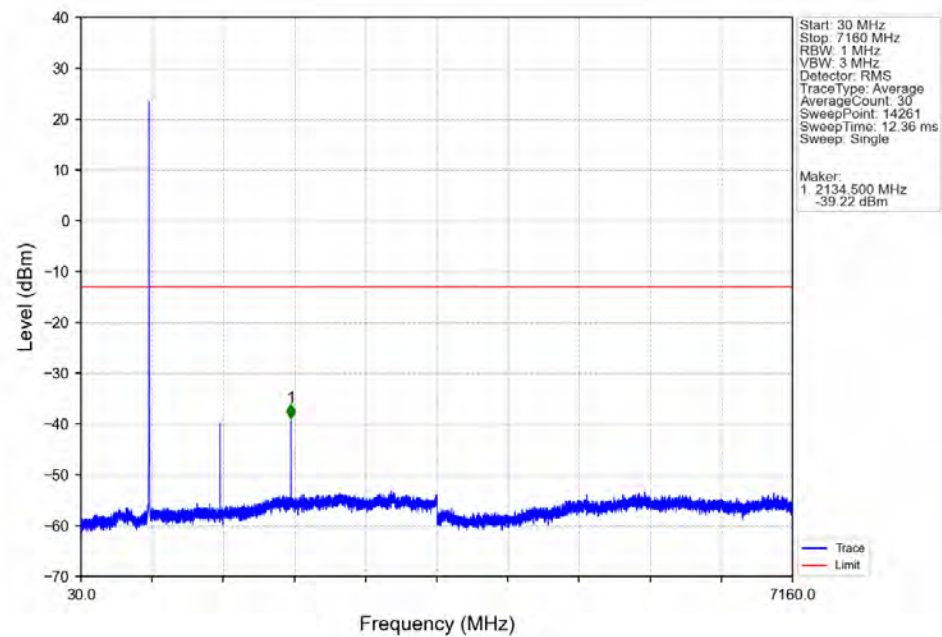
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_0 NTN



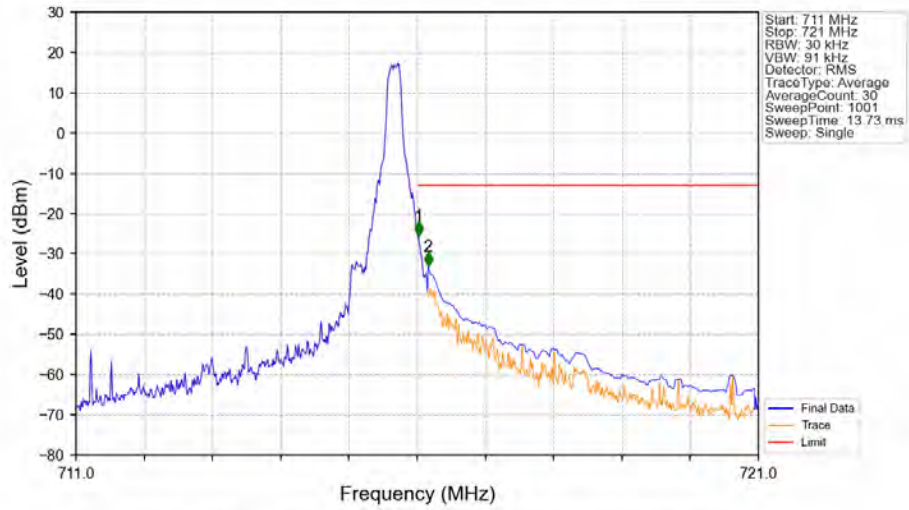
Band12 5MHz QPSK HCH 713.5MHz RB 1 0 NTNV



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

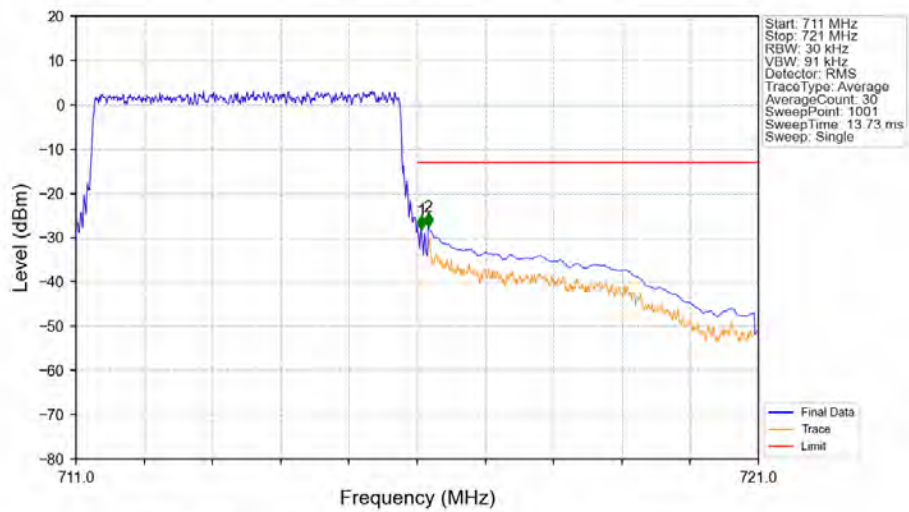


# Band12 5MHz QPSK HCH 713.5MHz RB 1 24 NTV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 711         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.020    | -25.37      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2          | 716.160    | -33.10      | -13         | Pass   |

# Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTV



| 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          | 716.060    | -28.21      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2          | 716.160    | -27.43      | -13         | Pass   |