

# 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      | 24.28                 | -1.52      | 20.61     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.21                 | -1.52      | 20.54     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 24.19                 | -1.52      | 20.52     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 24.25                 | -1.52      | 20.58     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.22                 | -1.52      | 20.55     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 24.18                 | -1.52      | 20.51     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 23.21                 | -1.52      | 19.54     | <=34.77 | Pass    |
|                                     | 707.5           | 1             | 0      | 24.23                 | -1.52      | 20.56     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.26                 | -1.52      | 20.59     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 24.22                 | -1.52      | 20.55     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 24.23                 | -1.52      | 20.56     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.24                 | -1.52      | 20.57     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 24.26                 | -1.52      | 20.59     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 23.25                 | -1.52      | 19.58     | <=34.77 | Pass    |
|                                     | 715.3           | 1             | 0      | 24.42                 | -1.52      | 20.75     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.45                 | -1.52      | 20.78     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 24.40                 | -1.52      | 20.73     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 24.37                 | -1.52      | 20.70     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.39                 | -1.52      | 20.72     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 24.37                 | -1.52      | 20.70     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 23.44                 | -1.52      | 19.77     | <=34.77 | Pass    |
| 16QAM                               | 699.7           | 1             | 0      | 23.35                 | -1.52      | 19.68     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.32                 | -1.52      | 19.65     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 23.29                 | -1.52      | 19.62     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 23.26                 | -1.52      | 19.59     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.27                 | -1.52      | 19.60     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 23.26                 | -1.52      | 19.59     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 22.25                 | -1.52      | 18.58     | <=34.77 | Pass    |
|                                     | 707.5           | 1             | 0      | 23.30                 | -1.52      | 19.63     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.41                 | -1.52      | 19.74     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 23.37                 | -1.52      | 19.70     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 23.30                 | -1.52      | 19.63     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.33                 | -1.52      | 19.66     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 23.36                 | -1.52      | 19.69     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 22.32                 | -1.52      | 18.65     | <=34.77 | Pass    |
|                                     | 715.3           | 1             | 0      | 23.50                 | -1.52      | 19.83     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.52                 | -1.52      | 19.85     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 23.40                 | -1.52      | 19.73     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 23.42                 | -1.52      | 19.75     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.43                 | -1.52      | 19.76     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 23.41                 | -1.52      | 19.74     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 22.36                 | -1.52      | 18.69     | <=34.77 | Pass    |
| 64QAM                               | 699.7           | 1             | 0      | 22.55                 | -1.52      | 18.88     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 22.47                 | -1.52      | 18.80     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 22.44                 | -1.52      | 18.77     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 22.35                 | -1.52      | 18.68     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 22.31                 | -1.52      | 18.64     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 22.28                 | -1.52      | 18.61     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 21.30                 | -1.52      | 17.63     | <=34.77 | Pass    |

|        |       |   |   |       |       |       |         |      |
|--------|-------|---|---|-------|-------|-------|---------|------|
|        | 707.5 | 1 | 0 | 22.45 | -1.52 | 18.78 | <=34.77 | Pass |
|        |       |   | 2 | 22.63 | -1.52 | 18.96 | <=34.77 | Pass |
|        |       |   | 5 | 22.53 | -1.52 | 18.86 | <=34.77 | Pass |
|        |       | 3 | 0 | 22.37 | -1.52 | 18.70 | <=34.77 | Pass |
|        |       |   | 2 | 22.38 | -1.52 | 18.71 | <=34.77 | Pass |
|        |       |   | 3 | 22.36 | -1.52 | 18.69 | <=34.77 | Pass |
|        |       | 6 | 0 | 21.32 | -1.52 | 17.65 | <=34.77 | Pass |
|        | 715.3 | 1 | 0 | 22.67 | -1.52 | 19.00 | <=34.77 | Pass |
|        |       |   | 2 | 22.61 | -1.52 | 18.94 | <=34.77 | Pass |
|        |       |   | 5 | 22.69 | -1.52 | 19.02 | <=34.77 | Pass |
|        |       | 3 | 0 | 22.47 | -1.52 | 18.80 | <=34.77 | Pass |
|        |       |   | 2 | 22.50 | -1.52 | 18.83 | <=34.77 | Pass |
|        |       |   | 3 | 22.44 | -1.52 | 18.77 | <=34.77 | Pass |
|        |       | 6 | 0 | 21.45 | -1.52 | 17.78 | <=34.77 | Pass |
| 256QAM | 699.7 | 1 | 0 | 19.29 | -1.52 | 15.62 | <=34.77 | Pass |
|        |       |   | 2 | 19.32 | -1.52 | 15.65 | <=34.77 | Pass |
|        |       |   | 5 | 19.30 | -1.52 | 15.63 | <=34.77 | Pass |
|        |       | 3 | 0 | 19.36 | -1.52 | 15.69 | <=34.77 | Pass |
|        |       |   | 2 | 19.31 | -1.52 | 15.64 | <=34.77 | Pass |
|        |       |   | 3 | 19.29 | -1.52 | 15.62 | <=34.77 | Pass |
|        |       | 6 | 0 | 19.20 | -1.52 | 15.53 | <=34.77 | Pass |
|        | 707.5 | 1 | 0 | 19.32 | -1.52 | 15.65 | <=34.77 | Pass |
|        |       |   | 2 | 19.33 | -1.52 | 15.66 | <=34.77 | Pass |
|        |       |   | 5 | 19.36 | -1.52 | 15.69 | <=34.77 | Pass |
|        |       | 3 | 0 | 19.33 | -1.52 | 15.66 | <=34.77 | Pass |
|        |       |   | 2 | 19.29 | -1.52 | 15.62 | <=34.77 | Pass |
|        |       |   | 3 | 19.33 | -1.52 | 15.66 | <=34.77 | Pass |
|        |       | 6 | 0 | 19.36 | -1.52 | 15.69 | <=34.77 | Pass |
|        | 715.3 | 1 | 0 | 19.54 | -1.52 | 15.87 | <=34.77 | Pass |
|        |       |   | 2 | 19.66 | -1.52 | 15.99 | <=34.77 | Pass |
|        |       |   | 5 | 19.58 | -1.52 | 15.91 | <=34.77 | Pass |
|        |       | 3 | 0 | 19.44 | -1.52 | 15.77 | <=34.77 | Pass |
|        |       |   | 2 | 19.47 | -1.52 | 15.80 | <=34.77 | Pass |
|        |       |   | 3 | 19.49 | -1.52 | 15.82 | <=34.77 | Pass |
|        |       | 6 | 0 | 19.50 | -1.52 | 15.83 | <=34.77 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.2 B12\_3MHz\_ERP

| Band: 12 / Bandwidth: 3MHz / NTNV |                 |               |        |                       |            |           |         |         |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                   |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                              | 700.5           | 1             | 0      | 24.22                 | -1.52      | 20.55     | <=34.77 | Pass    |
|                                   |                 |               | 7      | 24.26                 | -1.52      | 20.59     | <=34.77 | Pass    |
|                                   |                 |               | 14     | 24.19                 | -1.52      | 20.52     | <=34.77 | Pass    |
|                                   |                 | 8             | 0      | 23.29                 | -1.52      | 19.62     | <=34.77 | Pass    |
|                                   |                 |               | 4      | 23.30                 | -1.52      | 19.63     | <=34.77 | Pass    |
|                                   |                 |               | 7      | 23.23                 | -1.52      | 19.56     | <=34.77 | Pass    |
|                                   |                 | 15            | 0      | 23.26                 | -1.52      | 19.59     | <=34.77 | Pass    |
|                                   | 707.5           | 1             | 0      | 24.19                 | -1.52      | 20.52     | <=34.77 | Pass    |
|                                   |                 |               | 7      | 24.35                 | -1.52      | 20.68     | <=34.77 | Pass    |
|                                   |                 |               | 14     | 24.21                 | -1.52      | 20.54     | <=34.77 | Pass    |
|                                   |                 | 8             | 0      | 23.27                 | -1.52      | 19.60     | <=34.77 | Pass    |
|                                   |                 |               | 4      | 23.36                 | -1.52      | 19.69     | <=34.77 | Pass    |
|                                   |                 |               | 7      | 23.32                 | -1.52      | 19.65     | <=34.77 | Pass    |
|                                   |                 | 15            | 0      | 23.24                 | -1.52      | 19.57     | <=34.77 | Pass    |
|                                   | 714.5           | 1             | 0      | 24.34                 | -1.52      | 20.67     | <=34.77 | Pass    |

|        |       |       |    |       |       |       |         |      |
|--------|-------|-------|----|-------|-------|-------|---------|------|
|        |       | 8     | 7  | 24.44 | -1.52 | 20.77 | <=34.77 | Pass |
|        |       |       | 14 | 24.35 | -1.52 | 20.68 | <=34.77 | Pass |
|        |       |       | 0  | 23.42 | -1.52 | 19.75 | <=34.77 | Pass |
|        |       |       | 4  | 23.51 | -1.52 | 19.84 | <=34.77 | Pass |
|        |       |       | 7  | 23.48 | -1.52 | 19.81 | <=34.77 | Pass |
| 16QAM  | 700.5 | 1     | 0  | 23.38 | -1.52 | 19.71 | <=34.77 | Pass |
|        |       |       | 0  | 23.41 | -1.52 | 19.74 | <=34.77 | Pass |
|        |       |       | 7  | 23.42 | -1.52 | 19.75 | <=34.77 | Pass |
|        |       | 8     | 14 | 23.30 | -1.52 | 19.63 | <=34.77 | Pass |
|        |       |       | 0  | 22.29 | -1.52 | 18.62 | <=34.77 | Pass |
|        |       |       | 4  | 22.33 | -1.52 | 18.66 | <=34.77 | Pass |
|        |       |       | 7  | 22.26 | -1.52 | 18.59 | <=34.77 | Pass |
|        |       | 15    | 0  | 22.26 | -1.52 | 18.59 | <=34.77 | Pass |
|        |       |       | 0  | 23.30 | -1.52 | 19.63 | <=34.77 | Pass |
|        | 707.5 | 1     | 7  | 23.45 | -1.52 | 19.78 | <=34.77 | Pass |
|        |       |       | 14 | 23.37 | -1.52 | 19.70 | <=34.77 | Pass |
|        |       |       | 0  | 22.27 | -1.52 | 18.60 | <=34.77 | Pass |
|        |       | 8     | 4  | 22.41 | -1.52 | 18.74 | <=34.77 | Pass |
|        |       |       | 7  | 22.34 | -1.52 | 18.67 | <=34.77 | Pass |
|        |       |       | 0  | 22.25 | -1.52 | 18.58 | <=34.77 | Pass |
|        |       | 714.5 | 0  | 23.46 | -1.52 | 19.79 | <=34.77 | Pass |
|        |       |       | 7  | 23.61 | -1.52 | 19.94 | <=34.77 | Pass |
|        |       |       | 14 | 23.44 | -1.52 | 19.77 | <=34.77 | Pass |
| 64QAM  | 700.5 | 1     | 0  | 22.44 | -1.52 | 18.77 | <=34.77 | Pass |
|        |       |       | 4  | 22.51 | -1.52 | 18.84 | <=34.77 | Pass |
|        |       |       | 7  | 22.50 | -1.52 | 18.83 | <=34.77 | Pass |
|        |       | 8     | 0  | 22.39 | -1.52 | 18.72 | <=34.77 | Pass |
|        |       |       | 0  | 22.41 | -1.52 | 18.74 | <=34.77 | Pass |
|        |       |       | 7  | 22.47 | -1.52 | 18.80 | <=34.77 | Pass |
|        |       | 15    | 14 | 22.42 | -1.52 | 18.75 | <=34.77 | Pass |
|        |       |       | 0  | 21.32 | -1.52 | 17.65 | <=34.77 | Pass |
|        |       |       | 4  | 21.34 | -1.52 | 17.67 | <=34.77 | Pass |
|        | 707.5 | 8     | 7  | 21.29 | -1.52 | 17.62 | <=34.77 | Pass |
|        |       |       | 0  | 21.28 | -1.52 | 17.61 | <=34.77 | Pass |
|        |       |       | 0  | 22.60 | -1.52 | 18.93 | <=34.77 | Pass |
|        |       | 1     | 7  | 22.60 | -1.52 | 18.93 | <=34.77 | Pass |
|        |       |       | 14 | 22.61 | -1.52 | 18.94 | <=34.77 | Pass |
|        |       |       | 0  | 21.29 | -1.52 | 17.62 | <=34.77 | Pass |
|        |       | 8     | 4  | 21.42 | -1.52 | 17.75 | <=34.77 | Pass |
|        |       |       | 7  | 21.38 | -1.52 | 17.71 | <=34.77 | Pass |
|        |       |       | 0  | 21.28 | -1.52 | 17.61 | <=34.77 | Pass |
|        | 714.5 | 1     | 0  | 22.63 | -1.52 | 18.96 | <=34.77 | Pass |
|        |       |       | 7  | 22.79 | -1.52 | 19.12 | <=34.77 | Pass |
|        |       |       | 14 | 22.60 | -1.52 | 18.93 | <=34.77 | Pass |
| 256QAM | 700.5 | 8     | 0  | 21.48 | -1.52 | 17.81 | <=34.77 | Pass |
|        |       |       | 4  | 21.57 | -1.52 | 17.90 | <=34.77 | Pass |
|        |       |       | 7  | 21.50 | -1.52 | 17.83 | <=34.77 | Pass |
|        |       | 15    | 0  | 21.41 | -1.52 | 17.74 | <=34.77 | Pass |
|        |       |       | 0  | 19.47 | -1.52 | 15.80 | <=34.77 | Pass |
|        |       |       | 7  | 19.45 | -1.52 | 15.78 | <=34.77 | Pass |
|        |       | 1     | 14 | 19.38 | -1.52 | 15.71 | <=34.77 | Pass |
|        |       |       | 0  | 19.32 | -1.52 | 15.65 | <=34.77 | Pass |
|        |       |       | 4  | 19.35 | -1.52 | 15.68 | <=34.77 | Pass |
|        | 707.5 | 8     | 7  | 19.31 | -1.52 | 15.64 | <=34.77 | Pass |
|        |       |       | 0  | 19.28 | -1.52 | 15.61 | <=34.77 | Pass |
|        |       |       | 0  | 19.41 | -1.52 | 15.74 | <=34.77 | Pass |
|        |       | 1     | 7  | 19.46 | -1.52 | 15.79 | <=34.77 | Pass |
|        |       |       | 14 | 19.46 | -1.52 | 15.79 | <=34.77 | Pass |
|        |       |       | 0  | 19.31 | -1.52 | 15.64 | <=34.77 | Pass |

|                                              |       |    |    |       |       |       |         |      |
|----------------------------------------------|-------|----|----|-------|-------|-------|---------|------|
|                                              |       |    | 4  | 19.39 | -1.52 | 15.72 | <=34.77 | Pass |
|                                              |       |    | 7  | 19.34 | -1.52 | 15.67 | <=34.77 | Pass |
|                                              |       | 15 | 0  | 19.26 | -1.52 | 15.59 | <=34.77 | Pass |
|                                              | 714.5 | 1  | 0  | 19.50 | -1.52 | 15.83 | <=34.77 | Pass |
|                                              |       |    | 7  | 19.67 | -1.52 | 16.00 | <=34.77 | Pass |
|                                              |       |    | 14 | 19.53 | -1.52 | 15.86 | <=34.77 | Pass |
|                                              |       | 8  | 0  | 19.45 | -1.52 | 15.78 | <=34.77 | Pass |
|                                              |       |    | 4  | 19.52 | -1.52 | 15.85 | <=34.77 | Pass |
|                                              |       |    | 7  | 19.52 | -1.52 | 15.85 | <=34.77 | Pass |
|                                              |       | 15 | 0  | 19.38 | -1.52 | 15.71 | <=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      | 24.32                 | -1.52      | 20.65     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 24.33                 | -1.52      | 20.66     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 24.23                 | -1.52      | 20.56     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 23.33                 | -1.52      | 19.66     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 23.32                 | -1.52      | 19.65     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.28                 | -1.52      | 19.61     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 23.28                 | -1.52      | 19.61     | <=34.77 | Pass    |
|                                   | 707.5           | 1             | 0      | 24.28                 | -1.52      | 20.61     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 24.47                 | -1.52      | 20.80     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 24.37                 | -1.52      | 20.70     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 23.30                 | -1.52      | 19.63     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 23.34                 | -1.52      | 19.67     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.38                 | -1.52      | 19.71     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 23.29                 | -1.52      | 19.62     | <=34.77 | Pass    |
|                                   | 713.5           | 1             | 0      | 24.52                 | -1.52      | 20.85     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 24.53                 | -1.52      | 20.86     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 24.46                 | -1.52      | 20.79     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 23.44                 | -1.52      | 19.77     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 23.45                 | -1.52      | 19.78     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.46                 | -1.52      | 19.79     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 23.42                 | -1.52      | 19.75     | <=34.77 | Pass    |
| 16QAM                             | 701.5           | 1             | 0      | 23.48                 | -1.52      | 19.81     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.43                 | -1.52      | 19.76     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 23.36                 | -1.52      | 19.69     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 22.33                 | -1.52      | 18.66     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 22.31                 | -1.52      | 18.64     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 22.27                 | -1.52      | 18.60     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 22.30                 | -1.52      | 18.63     | <=34.77 | Pass    |
|                                   | 707.5           | 1             | 0      | 23.29                 | -1.52      | 19.62     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.39                 | -1.52      | 19.72     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 23.30                 | -1.52      | 19.63     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 22.31                 | -1.52      | 18.64     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 22.32                 | -1.52      | 18.65     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 22.38                 | -1.52      | 18.71     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 22.31                 | -1.52      | 18.64     | <=34.77 | Pass    |
|                                   | 713.5           | 1             | 0      | 23.63                 | -1.52      | 19.96     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.72                 | -1.52      | 20.05     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 23.61                 | -1.52      | 19.94     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 22.45                 | -1.52      | 18.78     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 22.46                 | -1.52      | 18.79     | <=34.77 | Pass    |

|                                              |       |        |       |       |       |       |         |         |         |
|----------------------------------------------|-------|--------|-------|-------|-------|-------|---------|---------|---------|
|                                              |       |        | 13    | 22.48 | -1.52 | 18.81 | <=34.77 | Pass    |         |
|                                              |       | 25     | 0     | 22.43 | -1.52 | 18.76 | <=34.77 | Pass    |         |
| 64QAM                                        | 701.5 | 1      | 0     | 22.58 | -1.52 | 18.91 | <=34.77 | Pass    |         |
|                                              |       |        | 13    | 22.53 | -1.52 | 18.86 | <=34.77 | Pass    |         |
|                                              |       |        | 24    | 22.49 | -1.52 | 18.82 | <=34.77 | Pass    |         |
|                                              |       |        | 0     | 21.25 | -1.52 | 17.58 | <=34.77 | Pass    |         |
|                                              |       | 12     | 6     | 21.39 | -1.52 | 17.72 | <=34.77 | Pass    |         |
|                                              |       |        | 13    | 21.33 | -1.52 | 17.66 | <=34.77 | Pass    |         |
|                                              |       |        | 25    | 0     | 21.31 | -1.52 | 17.64   | <=34.77 | Pass    |
|                                              |       | 707.5  | 1     | 0     | 22.47 | -1.52 | 18.80   | <=34.77 | Pass    |
|                                              |       |        |       | 13    | 22.62 | -1.52 | 18.95   | <=34.77 | Pass    |
|                                              | 24    |        |       | 22.52 | -1.52 | 18.85 | <=34.77 | Pass    |         |
|                                              | 0     |        |       | 21.31 | -1.52 | 17.64 | <=34.77 | Pass    |         |
|                                              | 12    |        | 6     | 21.34 | -1.52 | 17.67 | <=34.77 | Pass    |         |
|                                              |       |        | 13    | 21.42 | -1.52 | 17.75 | <=34.77 | Pass    |         |
|                                              |       |        | 25    | 0     | 21.33 | -1.52 | 17.66   | <=34.77 | Pass    |
|                                              | 713.5 |        | 1     | 0     | 22.77 | -1.52 | 19.10   | <=34.77 | Pass    |
|                                              |       |        |       | 13    | 22.89 | -1.52 | 19.22   | <=34.77 | Pass    |
|                                              |       | 24     |       | 22.77 | -1.52 | 19.10 | <=34.77 | Pass    |         |
|                                              |       | 0      |       | 21.49 | -1.52 | 17.82 | <=34.77 | Pass    |         |
|                                              |       | 12     | 6     | 21.46 | -1.52 | 17.79 | <=34.77 | Pass    |         |
|                                              |       |        | 13    | 21.55 | -1.52 | 17.88 | <=34.77 | Pass    |         |
|                                              |       |        | 25    | 0     | 21.43 | -1.52 | 17.76   | <=34.77 | Pass    |
|                                              |       | 256QAM | 701.5 | 1     | 0     | 19.41 | -1.52   | 15.74   | <=34.77 |
| 13                                           |       |        |       |       | 19.46 | -1.52 | 15.79   | <=34.77 | Pass    |
| 24                                           | 19.39 |        |       |       | -1.52 | 15.72 | <=34.77 | Pass    |         |
| 12                                           | 0     |        |       | 19.35 | -1.52 | 15.68 | <=34.77 | Pass    |         |
|                                              | 6     |        |       | 19.39 | -1.52 | 15.72 | <=34.77 | Pass    |         |
|                                              | 13    |        |       | 19.37 | -1.52 | 15.70 | <=34.77 | Pass    |         |
| 25                                           | 0     |        |       | 19.38 | -1.52 | 15.71 | <=34.77 | Pass    |         |
| 707.5                                        | 1     |        | 0     | 19.47 | -1.52 | 15.80 | <=34.77 | Pass    |         |
|                                              |       |        | 13    | 19.59 | -1.52 | 15.92 | <=34.77 | Pass    |         |
|                                              |       |        | 24    | 19.50 | -1.52 | 15.83 | <=34.77 | Pass    |         |
|                                              | 12    |        | 0     | 19.33 | -1.52 | 15.66 | <=34.77 | Pass    |         |
|                                              |       |        | 6     | 19.35 | -1.52 | 15.68 | <=34.77 | Pass    |         |
|                                              |       |        | 13    | 19.46 | -1.52 | 15.79 | <=34.77 | Pass    |         |
|                                              | 25    |        | 0     | 19.37 | -1.52 | 15.70 | <=34.77 | Pass    |         |
| 713.5                                        | 1     |        | 0     | 19.54 | -1.52 | 15.87 | <=34.77 | Pass    |         |
|                                              |       |        | 13    | 19.69 | -1.52 | 16.02 | <=34.77 | Pass    |         |
|                                              |       |        | 24    | 19.60 | -1.52 | 15.93 | <=34.77 | Pass    |         |
|                                              | 12    |        | 0     | 19.52 | -1.52 | 15.85 | <=34.77 | Pass    |         |
|                                              |       |        | 6     | 19.49 | -1.52 | 15.82 | <=34.77 | Pass    |         |
|                                              |       |        | 13    | 19.49 | -1.52 | 15.82 | <=34.77 | Pass    |         |
|                                              | 25    |        | 0     | 19.50 | -1.52 | 15.83 | <=34.77 | Pass    |         |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |       |        |       |       |       |       |         |         |         |

#### 1.1.4 B12\_10MHz\_ERP

| Band: 12 / Bandwidth: 10MHz / NTVN |                 |               |        |                       |            |           |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                               | 704             | 1             | 0      | 24.35                 | -1.52      | 20.68     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 24.32                 | -1.52      | 20.65     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 24.39                 | -1.52      | 20.72     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 23.26                 | -1.52      | 19.59     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 23.31                 | -1.52      | 19.64     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 23.29                 | -1.52      | 19.62     | <=34.77 | Pass    |

|        |     |       |    |       |       |       |         |         |
|--------|-----|-------|----|-------|-------|-------|---------|---------|
|        |     | 50    | 0  | 23.31 | -1.52 | 19.64 | <=34.77 | Pass    |
|        |     | 707.5 | 1  | 0     | 24.32 | -1.52 | 20.65   | <=34.77 |
|        |     |       |    | 25    | 24.38 | -1.52 | 20.71   | <=34.77 |
|        |     |       |    | 49    | 24.37 | -1.52 | 20.70   | <=34.77 |
|        |     |       |    | 0     | 23.32 | -1.52 | 19.65   | <=34.77 |
|        |     |       | 25 | 13    | 23.35 | -1.52 | 19.68   | <=34.77 |
|        |     |       |    | 25    | 23.40 | -1.52 | 19.73   | <=34.77 |
|        |     |       |    | 0     | 23.31 | -1.52 | 19.64   | <=34.77 |
|        |     | 711   | 1  | 0     | 24.38 | -1.52 | 20.71   | <=34.77 |
|        |     |       |    | 25    | 24.42 | -1.52 | 20.75   | <=34.77 |
|        |     |       |    | 49    | 24.33 | -1.52 | 20.66   | <=34.77 |
|        |     |       | 25 | 0     | 23.36 | -1.52 | 19.69   | <=34.77 |
|        |     |       |    | 13    | 23.46 | -1.52 | 19.79   | <=34.77 |
|        |     |       |    | 25    | 23.48 | -1.52 | 19.81   | <=34.77 |
|        |     |       | 50 | 0     | 23.39 | -1.52 | 19.72   | <=34.77 |
|        |     |       |    | 0     | 23.48 | -1.52 | 19.81   | <=34.77 |
| 16QAM  | 704 | 1     | 1  | 25    | 23.46 | -1.52 | 19.79   | <=34.77 |
|        |     |       |    | 49    | 23.52 | -1.52 | 19.85   | <=34.77 |
|        |     |       |    | 0     | 22.27 | -1.52 | 18.60   | <=34.77 |
|        |     |       |    | 13    | 22.32 | -1.52 | 18.65   | <=34.77 |
|        |     |       | 25 | 25    | 22.30 | -1.52 | 18.63   | <=34.77 |
|        |     |       |    | 0     | 22.32 | -1.52 | 18.65   | <=34.77 |
|        |     |       |    | 0     | 23.35 | -1.52 | 19.68   | <=34.77 |
|        |     | 707.5 | 1  | 25    | 23.51 | -1.52 | 19.84   | <=34.77 |
|        |     |       |    | 49    | 23.47 | -1.52 | 19.80   | <=34.77 |
|        |     |       |    | 0     | 22.32 | -1.52 | 18.65   | <=34.77 |
|        |     |       | 25 | 13    | 22.37 | -1.52 | 18.70   | <=34.77 |
|        |     |       |    | 25    | 22.43 | -1.52 | 18.76   | <=34.77 |
|        |     |       |    | 0     | 22.31 | -1.52 | 18.64   | <=34.77 |
|        |     | 711   | 1  | 0     | 23.57 | -1.52 | 19.90   | <=34.77 |
|        |     |       |    | 25    | 23.64 | -1.52 | 19.97   | <=34.77 |
|        |     |       |    | 49    | 23.53 | -1.52 | 19.86   | <=34.77 |
|        |     |       | 25 | 0     | 22.39 | -1.52 | 18.72   | <=34.77 |
|        |     |       |    | 13    | 22.49 | -1.52 | 18.82   | <=34.77 |
|        |     |       |    | 25    | 22.49 | -1.52 | 18.82   | <=34.77 |
|        |     |       | 50 | 0     | 22.37 | -1.52 | 18.70   | <=34.77 |
|        |     |       |    | 0     | 22.56 | -1.52 | 18.89   | <=34.77 |
| 64QAM  | 704 | 1     | 1  | 25    | 22.60 | -1.52 | 18.93   | <=34.77 |
|        |     |       |    | 49    | 22.58 | -1.52 | 18.91   | <=34.77 |
|        |     |       |    | 0     | 21.29 | -1.52 | 17.62   | <=34.77 |
|        |     |       |    | 13    | 21.34 | -1.52 | 17.67   | <=34.77 |
|        |     |       | 25 | 25    | 21.34 | -1.52 | 17.67   | <=34.77 |
|        |     |       |    | 0     | 21.33 | -1.52 | 17.66   | <=34.77 |
|        |     | 707.5 | 1  | 0     | 22.50 | -1.52 | 18.83   | <=34.77 |
|        |     |       |    | 25    | 22.71 | -1.52 | 19.04   | <=34.77 |
|        |     |       |    | 49    | 22.64 | -1.52 | 18.97   | <=34.77 |
|        |     |       | 25 | 0     | 21.35 | -1.52 | 17.68   | <=34.77 |
|        |     |       |    | 13    | 21.38 | -1.52 | 17.71   | <=34.77 |
|        |     |       |    | 25    | 21.46 | -1.52 | 17.79   | <=34.77 |
|        |     |       | 50 | 0     | 21.36 | -1.52 | 17.69   | <=34.77 |
|        |     |       |    | 0     | 22.70 | -1.52 | 19.03   | <=34.77 |
|        | 711 | 1     | 1  | 25    | 22.73 | -1.52 | 19.06   | <=34.77 |
|        |     |       |    | 49    | 22.72 | -1.52 | 19.05   | <=34.77 |
|        |     |       |    | 0     | 21.38 | -1.52 | 17.71   | <=34.77 |
|        |     | 25    | 1  | 13    | 21.50 | -1.52 | 17.83   | <=34.77 |
|        |     |       |    | 25    | 21.50 | -1.52 | 17.83   | <=34.77 |
|        |     |       |    | 0     | 21.39 | -1.52 | 17.72   | <=34.77 |
| 256QAM | 704 | 1     | 1  | 0     | 19.49 | -1.52 | 15.82   | <=34.77 |
|        |     |       |    | 25    | 19.53 | -1.52 | 15.86   | <=34.77 |

|                                              |       |     |    |       |       |       |         |         |
|----------------------------------------------|-------|-----|----|-------|-------|-------|---------|---------|
|                                              |       |     | 49 | 19.57 | -1.52 | 15.90 | <=34.77 | Pass    |
|                                              |       | 25  | 0  | 19.31 | -1.52 | 15.64 | <=34.77 | Pass    |
|                                              |       |     | 13 | 19.42 | -1.52 | 15.75 | <=34.77 | Pass    |
|                                              |       |     | 25 | 19.37 | -1.52 | 15.70 | <=34.77 | Pass    |
|                                              |       | 50  | 0  | 19.39 | -1.52 | 15.72 | <=34.77 | Pass    |
|                                              | 707.5 | 1   | 0  | 19.37 | -1.52 | 15.70 | <=34.77 | Pass    |
|                                              |       |     | 25 | 19.73 | -1.52 | 16.06 | <=34.77 | Pass    |
|                                              |       |     | 49 | 19.61 | -1.52 | 15.94 | <=34.77 | Pass    |
|                                              |       | 25  | 0  | 19.36 | -1.52 | 15.69 | <=34.77 | Pass    |
|                                              |       |     | 13 | 19.37 | -1.52 | 15.70 | <=34.77 | Pass    |
|                                              |       |     | 25 | 19.42 | -1.52 | 15.75 | <=34.77 | Pass    |
|                                              |       | 50  | 0  | 19.40 | -1.52 | 15.73 | <=34.77 | Pass    |
|                                              |       | 711 | 1  | 0     | 19.46 | -1.52 | 15.79   | <=34.77 |
|                                              | 25    |     |    | 19.51 | -1.52 | 15.84 | <=34.77 | Pass    |
|                                              | 49    |     |    | 19.52 | -1.52 | 15.85 | <=34.77 | Pass    |
|                                              | 25    |     | 0  | 19.39 | -1.52 | 15.72 | <=34.77 | Pass    |
|                                              |       |     | 13 | 19.54 | -1.52 | 15.87 | <=34.77 | Pass    |
|                                              |       |     | 25 | 19.54 | -1.52 | 15.87 | <=34.77 | Pass    |
|                                              | 50    |     | 0  | 19.49 | -1.52 | 15.82 | <=34.77 | Pass    |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |       |     |    |       |       |       |         |         |

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B12\_10MHz

| Band: 12 / Bandwidth: 10MHz |                 |               |        |            |         |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |         |                  | Result                | Limit       |         |
| QPSK                        | 707.5           | 50            | 0      | 20         | LV      | 0.046            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | NV      | -0.258           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | HV      | -0.459           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | NV      | -0.680           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | NV      | 1.474            | 0.0021                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | NV      | 0.162            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | NV      | 0.260            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | NV      | 0.511            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | NV      | 0.272            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | NV      | 0.099            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | NV      | -0.410           | -0.0006               | -2.5 to 2.5 | Pass    |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band12\_OBW

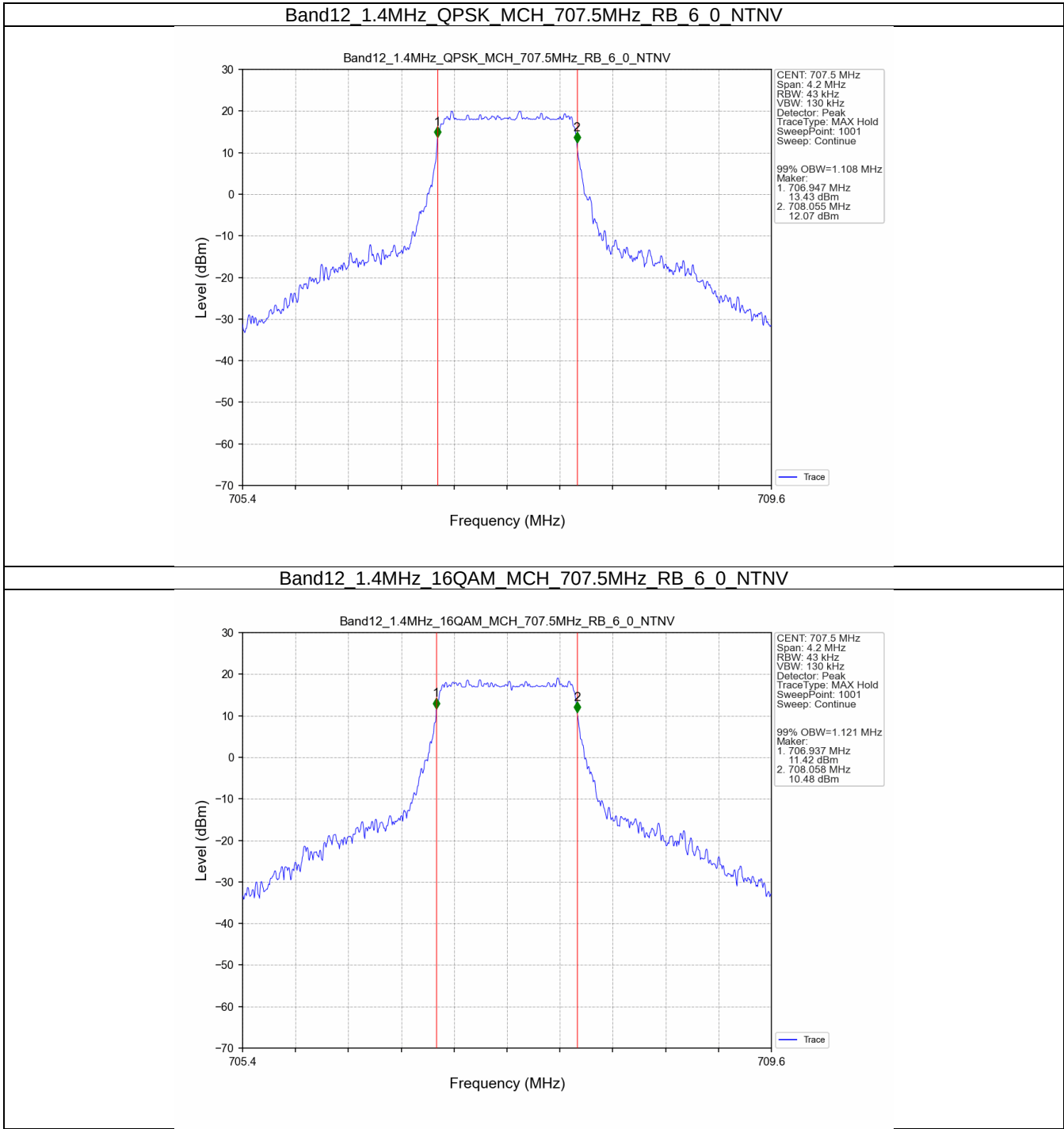
| Band: 12 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 1.4             | QPSK       | 707.5           | 6             | 0      | 1.108                        | /     | Pass    |
|                 | 16QAM      | 707.5           | 6             | 0      | 1.121                        | /     | Pass    |
|                 | 64QAM      | 707.5           | 6             | 0      | 1.120                        | /     | Pass    |
|                 | 256QAM     | 707.5           | 6             | 0      | 1.121                        | /     | Pass    |
| 3               | QPSK       | 707.5           | 15            | 0      | 2.754                        | /     | Pass    |
|                 | 16QAM      | 707.5           | 15            | 0      | 2.754                        | /     | Pass    |
|                 | 64QAM      | 707.5           | 15            | 0      | 2.748                        | /     | Pass    |
|                 | 256QAM     | 707.5           | 15            | 0      | 2.738                        | /     | Pass    |
| 5               | QPSK       | 707.5           | 25            | 0      | 4.565                        | /     | Pass    |
|                 | 16QAM      | 707.5           | 25            | 0      | 4.571                        | /     | Pass    |
|                 | 64QAM      | 707.5           | 25            | 0      | 4.574                        | /     | Pass    |
|                 | 256QAM     | 707.5           | 25            | 0      | 4.584                        | /     | Pass    |
| 10              | QPSK       | 707.5           | 50            | 0      | 9.074                        | /     | Pass    |
|                 | 16QAM      | 707.5           | 50            | 0      | 9.066                        | /     | Pass    |
|                 | 64QAM      | 707.5           | 50            | 0      | 9.088                        | /     | Pass    |
|                 | 256QAM     | 707.5           | 50            | 0      | 9.068                        | /     | Pass    |

##### 3.1.2 Band12\_XDB

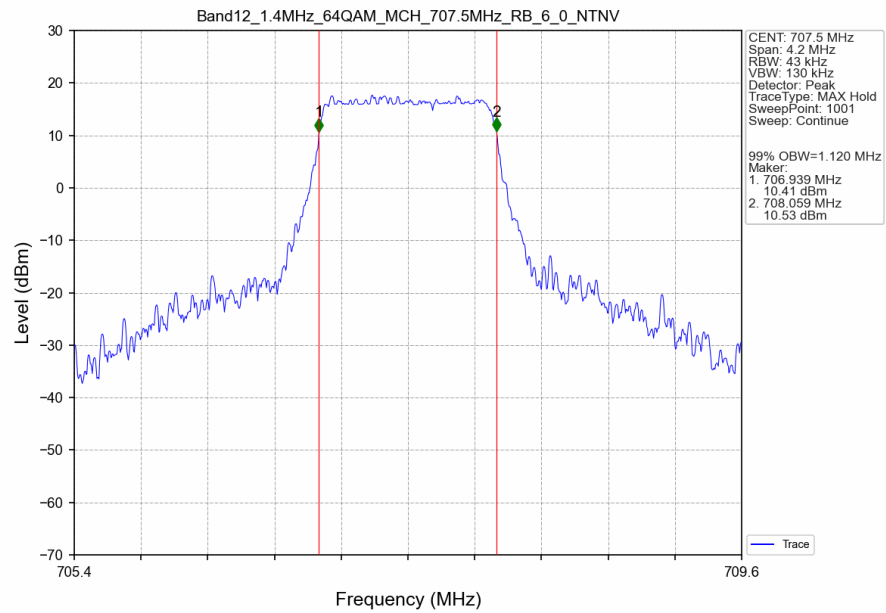
| Band: 12 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 1.4             | QPSK       | 707.5           | 6             | 0      | 1.400                | /     | Pass    |
|                 | 16QAM      | 707.5           | 6             | 0      | 1.411                | /     | Pass    |
|                 | 64QAM      | 707.5           | 6             | 0      | 1.421                | /     | Pass    |
|                 | 256QAM     | 707.5           | 6             | 0      | 1.381                | /     | Pass    |
| 3               | QPSK       | 707.5           | 15            | 0      | 3.117                | /     | Pass    |
|                 | 16QAM      | 707.5           | 15            | 0      | 3.141                | /     | Pass    |
|                 | 64QAM      | 707.5           | 15            | 0      | 3.155                | /     | Pass    |
|                 | 256QAM     | 707.5           | 15            | 0      | 3.080                | /     | Pass    |
| 5               | QPSK       | 707.5           | 25            | 0      | 5.208                | /     | Pass    |
|                 | 16QAM      | 707.5           | 25            | 0      | 5.323                | /     | Pass    |
|                 | 64QAM      | 707.5           | 25            | 0      | 5.194                | /     | Pass    |
|                 | 256QAM     | 707.5           | 25            | 0      | 5.316                | /     | Pass    |
| 10              | QPSK       | 707.5           | 50            | 0      | 10.076               | /     | Pass    |
|                 | 16QAM      | 707.5           | 50            | 0      | 10.165               | /     | Pass    |
|                 | 64QAM      | 707.5           | 50            | 0      | 10.144               | /     | Pass    |
|                 | 256QAM     | 707.5           | 50            | 0      | 10.239               | /     | Pass    |

3.2 Test Graph

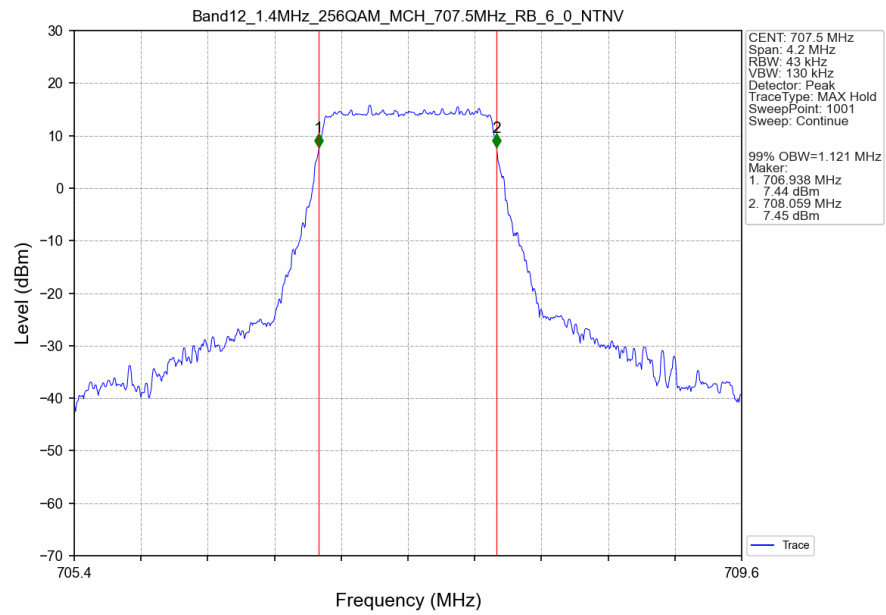
3.2.1 Band12\_OBW



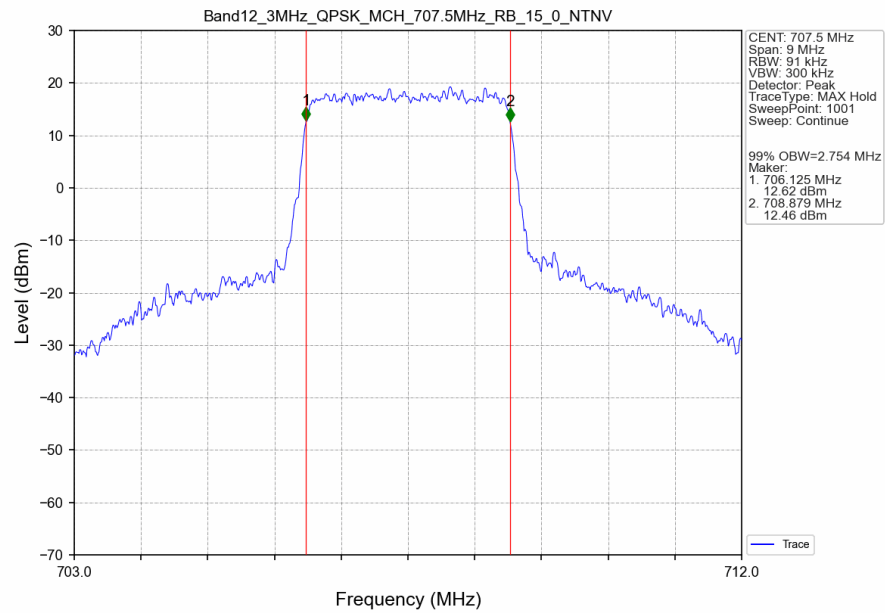
Band12 1.4MHz 64QAM MCH 707.5MHz RB 6 0 NTV



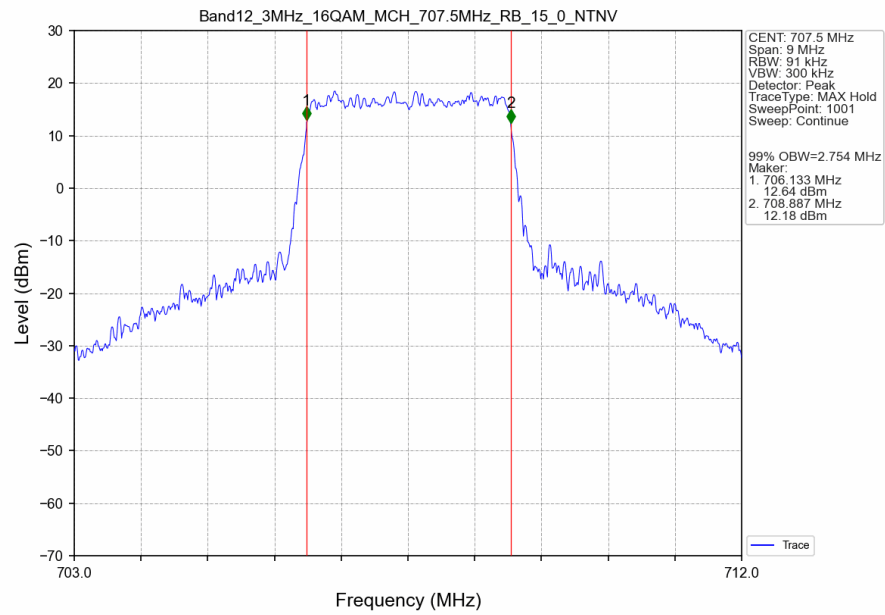
Band12 1.4MHz 256QAM MCH 707.5MHz RB 6 0 NTV



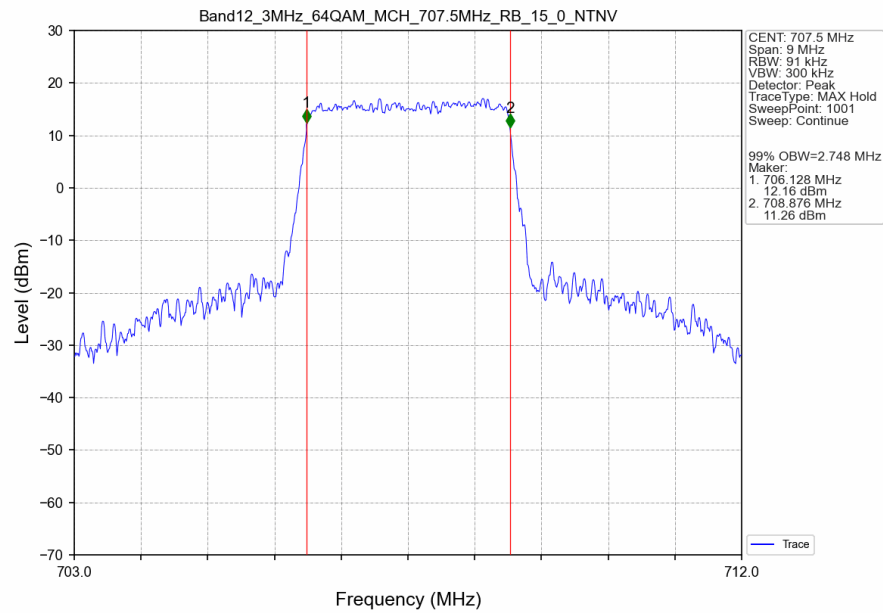
# Band12 3MHz QPSK MCH 707.5MHz RB 15 0 NTN



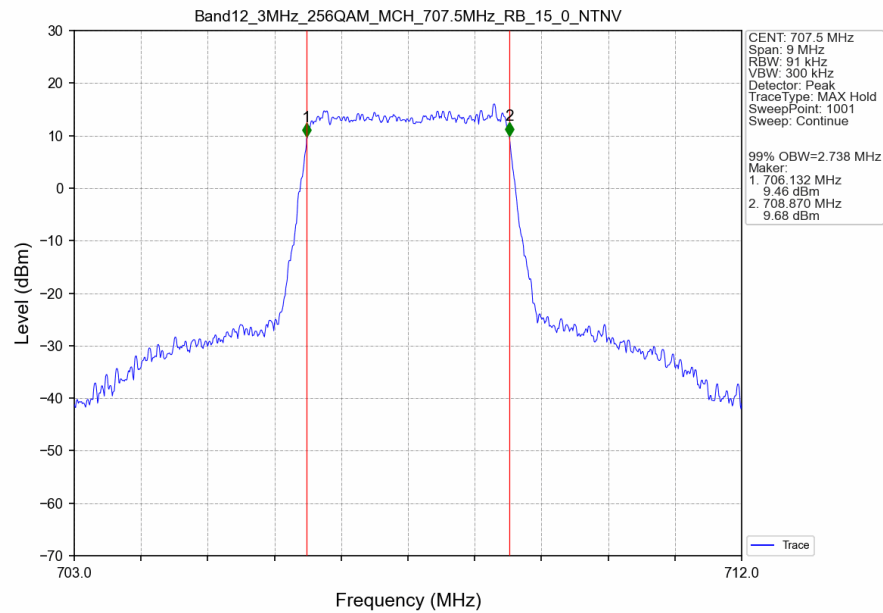
# Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTN



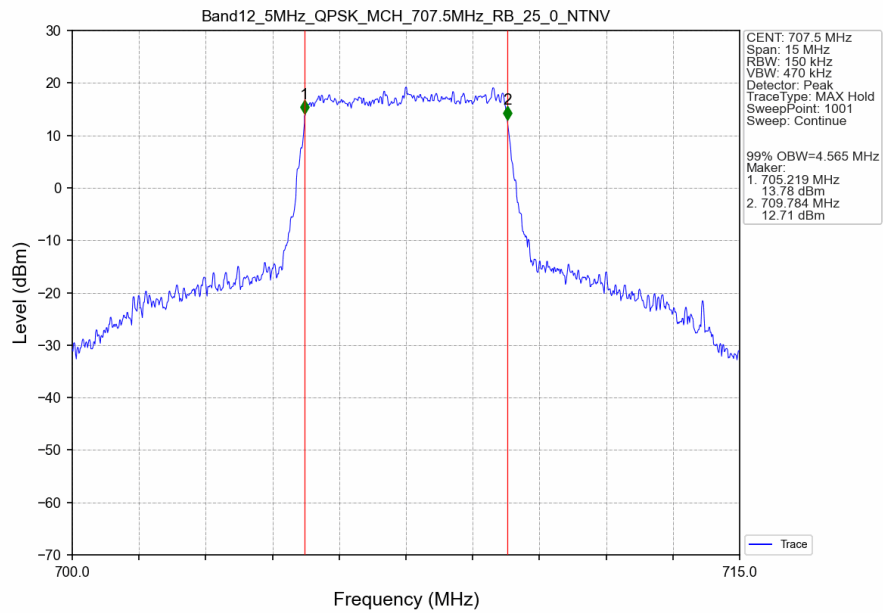
Band12 3MHz 64QAM MCH 707.5MHz RB 15 0 NTN



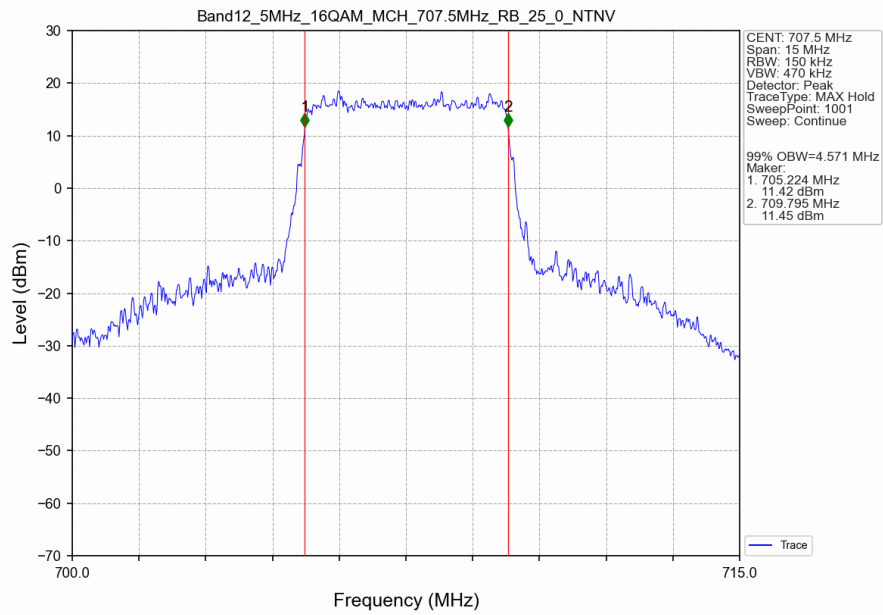
Band12 3MHz 256QAM MCH 707.5MHz RB 15 0 NTN



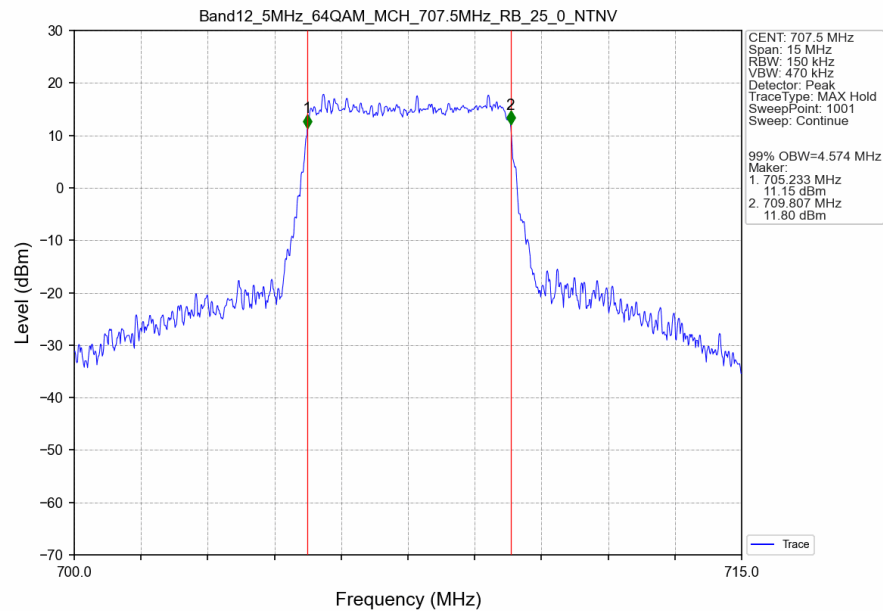
# Band12 5MHz QPSK MCH 707.5MHz RB 25 0 NTV



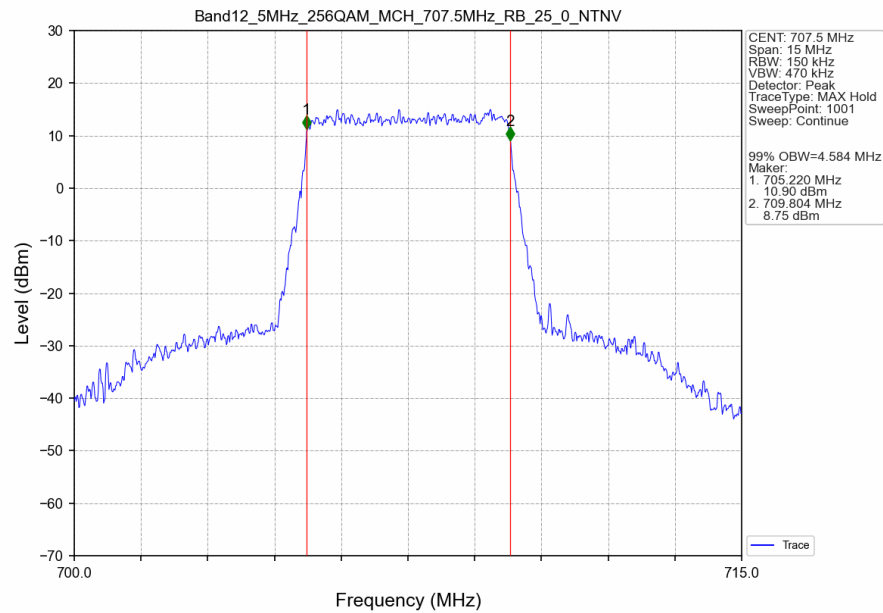
# Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTV



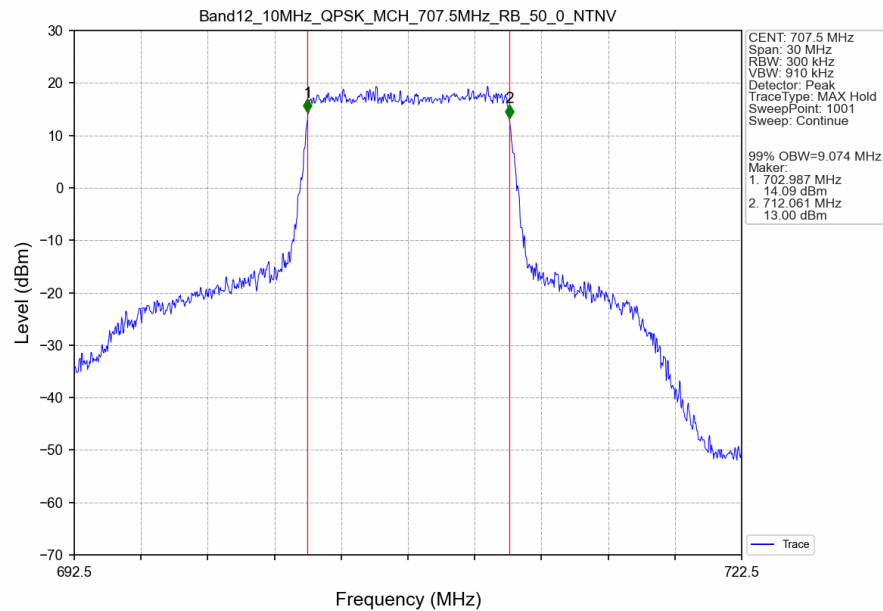
Band12 5MHz 64QAM MCH 707.5MHz RB 25 0 NTNV



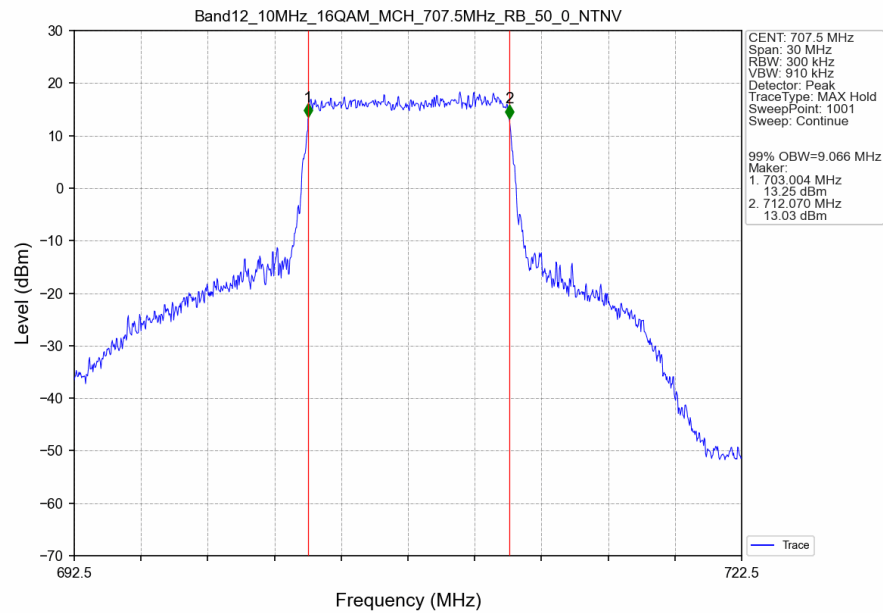
Band12 5MHz 256QAM MCH 707.5MHz RB 25 0 NTNV



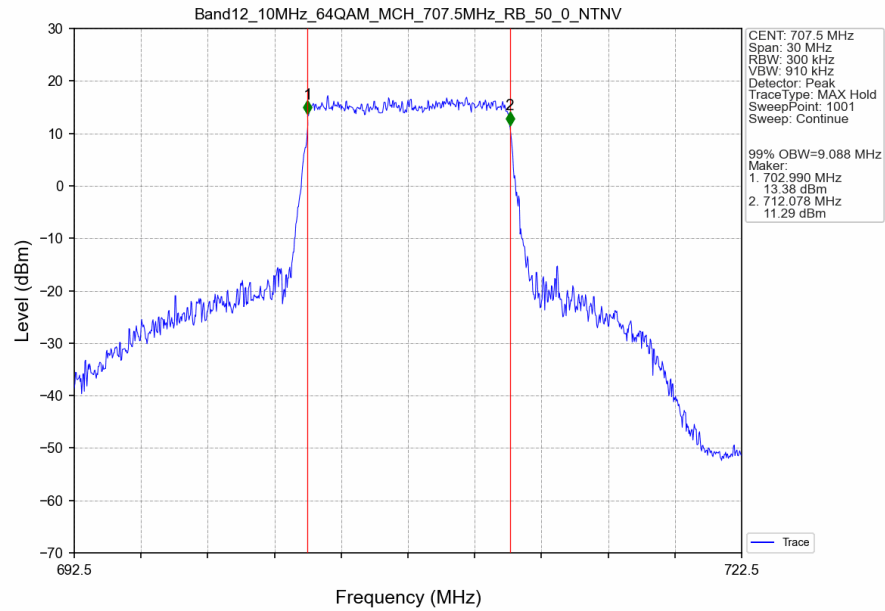
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTV



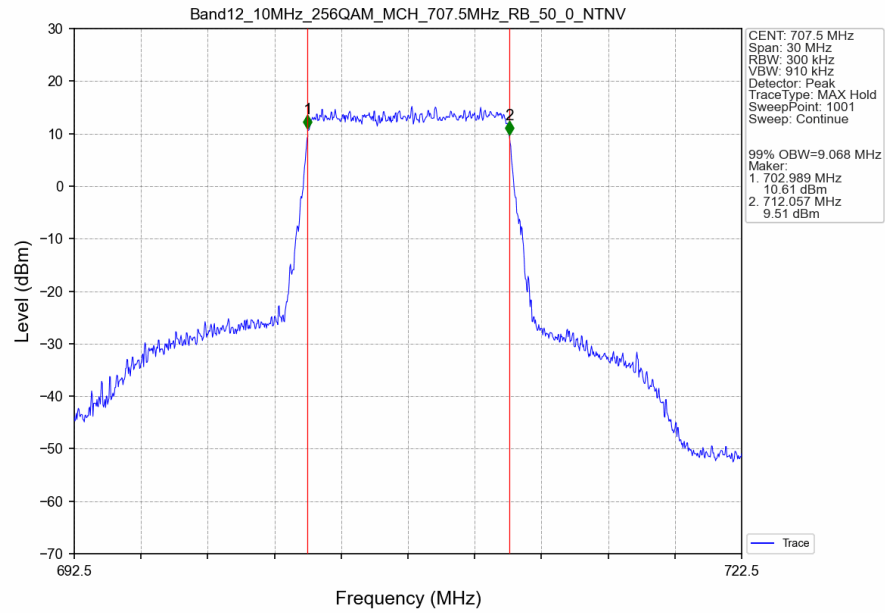
Band12 10MHz 16QAM MCH 707.5MHz RB 50 0 NTV



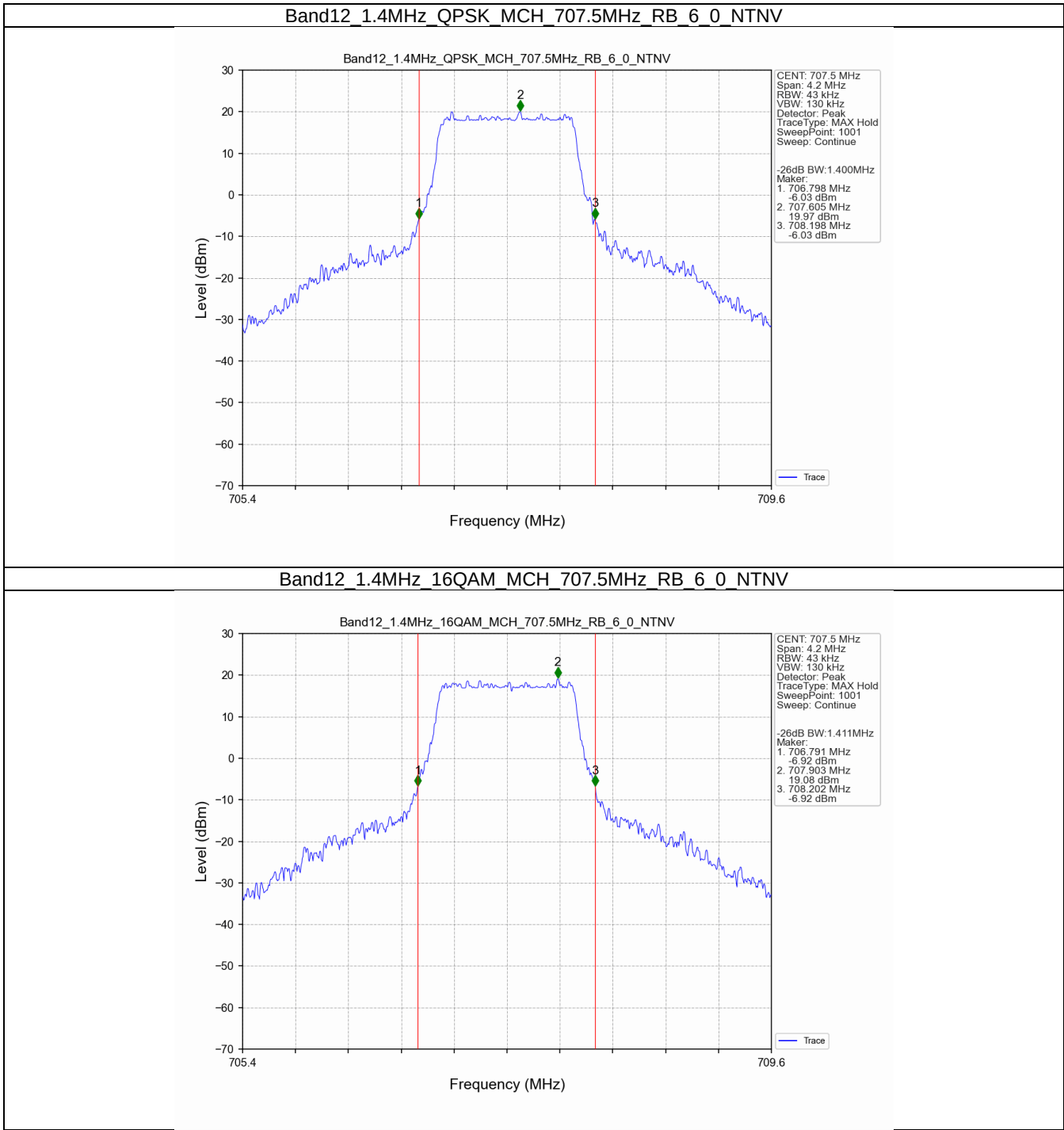
Band12 10MHz 64QAM MCH 707.5MHz RB 50 0 NTN



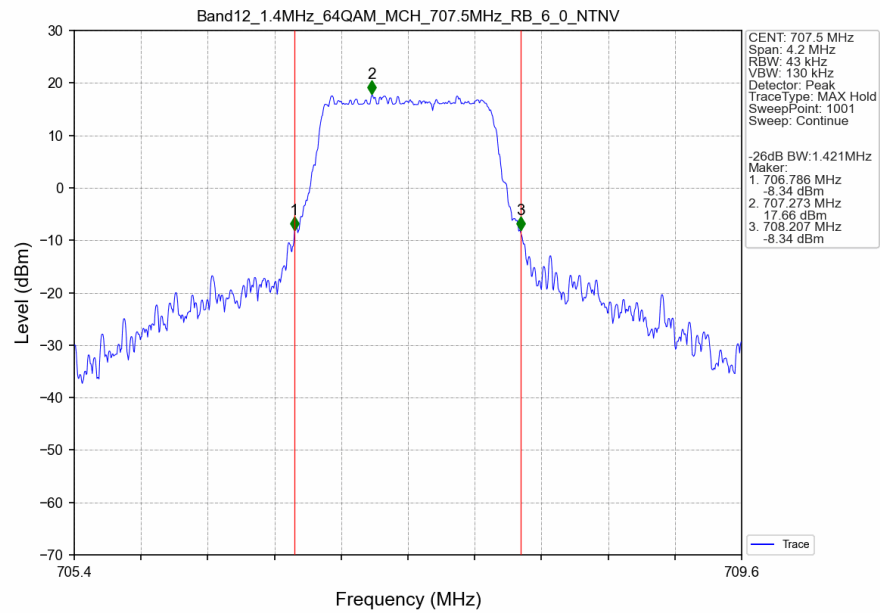
Band12 10MHz 256QAM MCH 707.5MHz RB 50 0 NTN



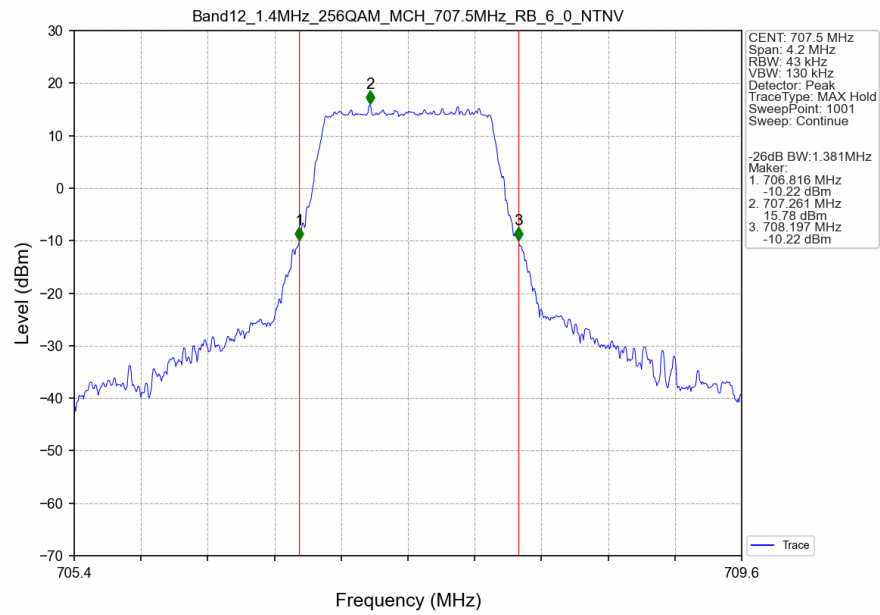
3.2.2 Band12\_XDB



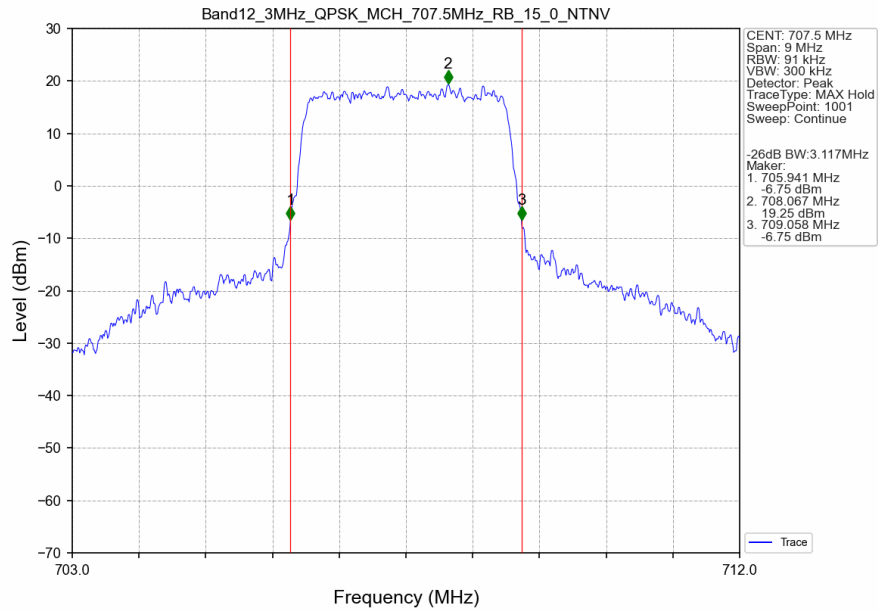
Band12 1.4MHz 64QAM MCH 707.5MHz RB 6 0 NTNV



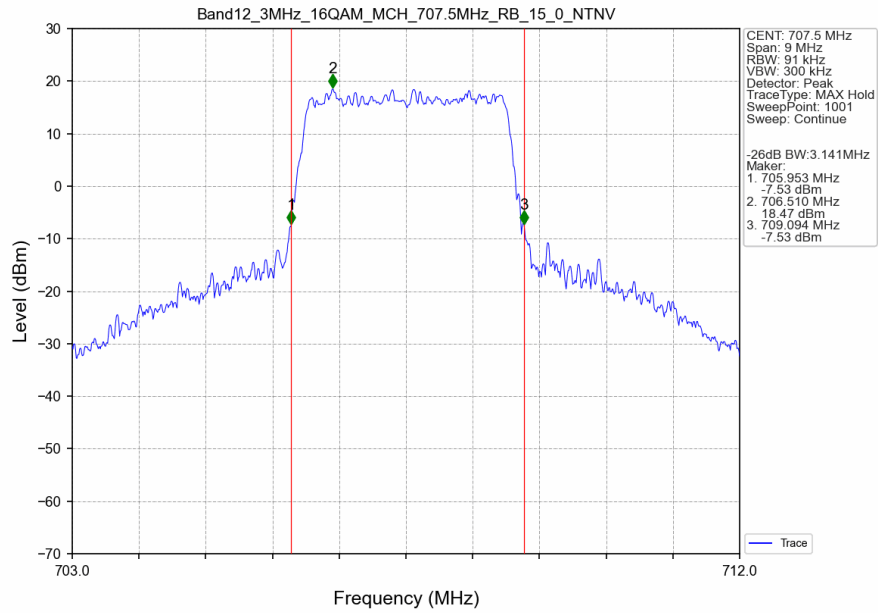
Band12 1.4MHz 256QAM MCH 707.5MHz RB 6 0 NTNV



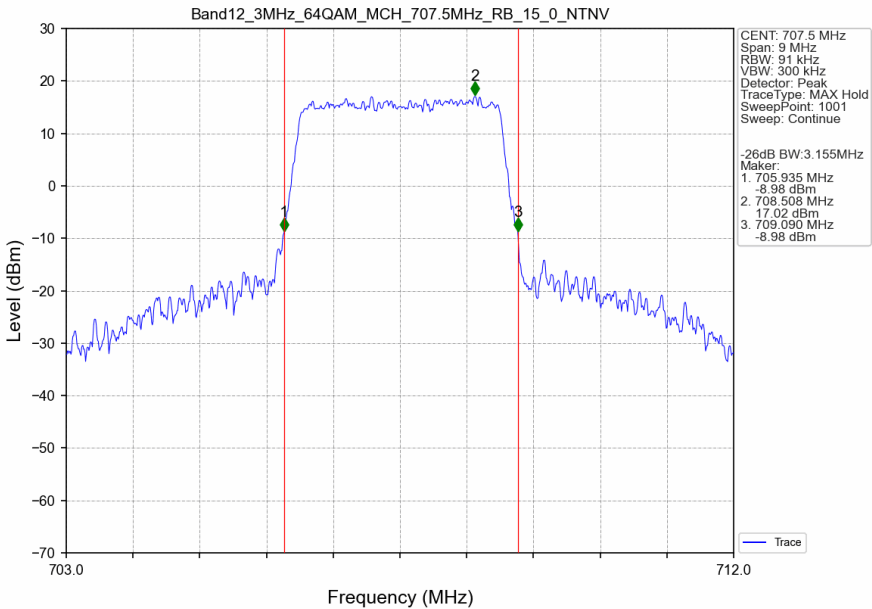
# Band12 3MHz QPSK MCH 707.5MHz RB 15 0 NTV



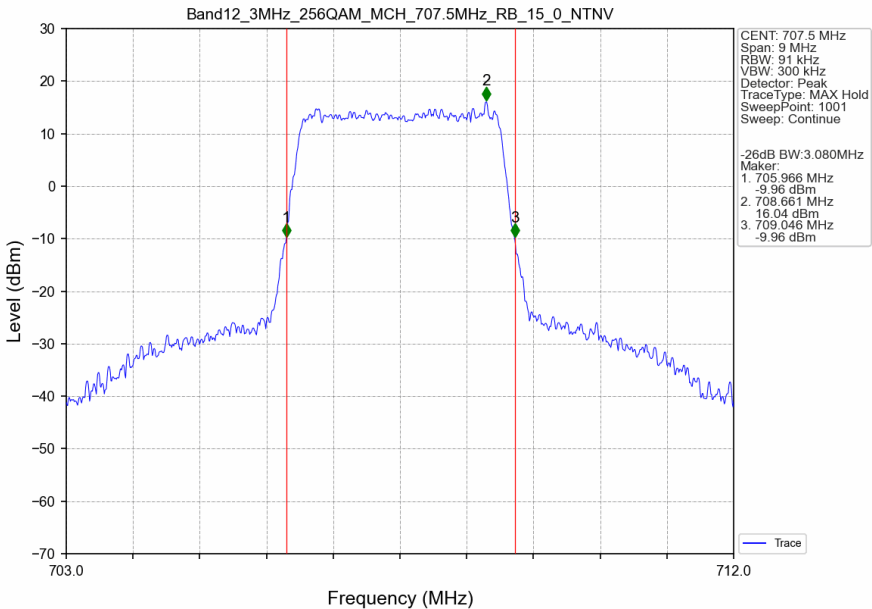
# Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTV



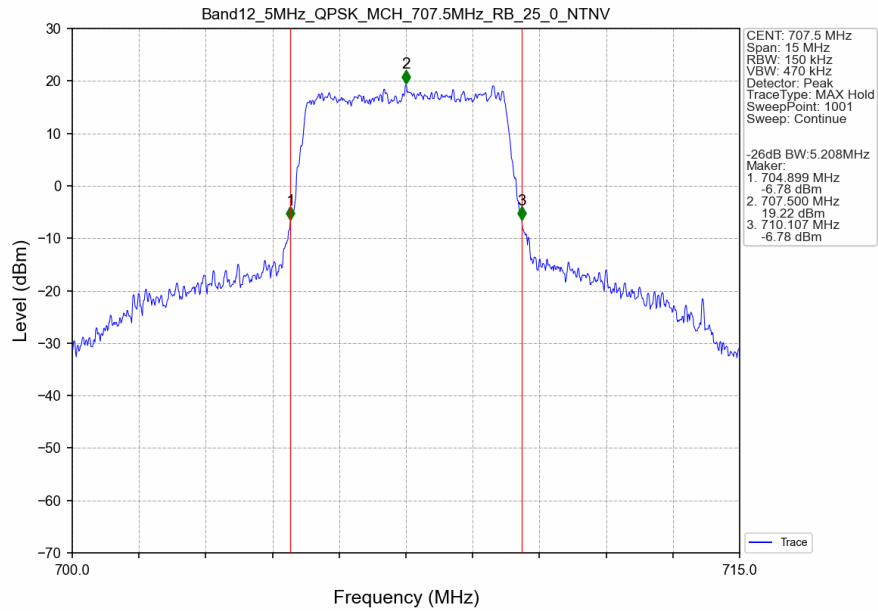
Band12 3MHz 64QAM MCH 707.5MHz RB 15 0 NTN



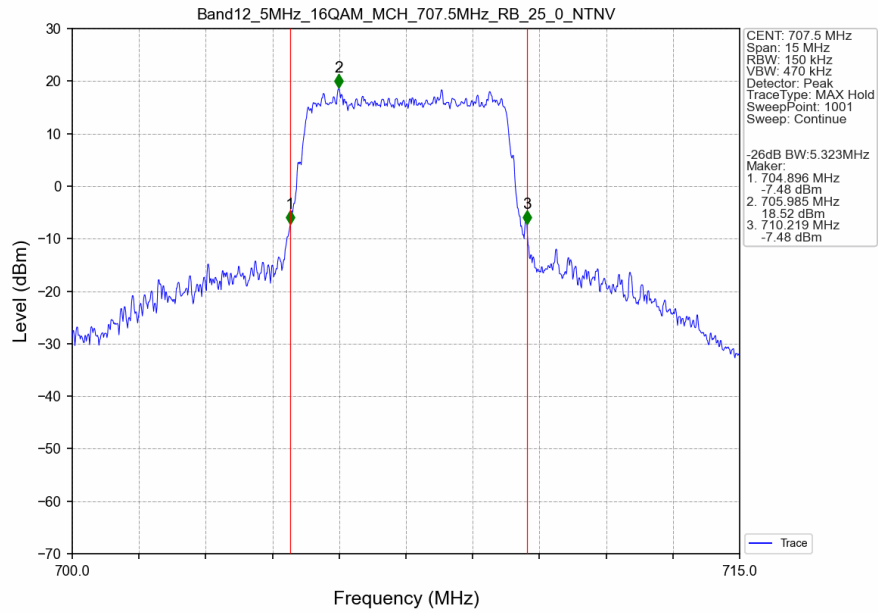
Band12 3MHz 256QAM MCH 707.5MHz RB 15 0 NTN



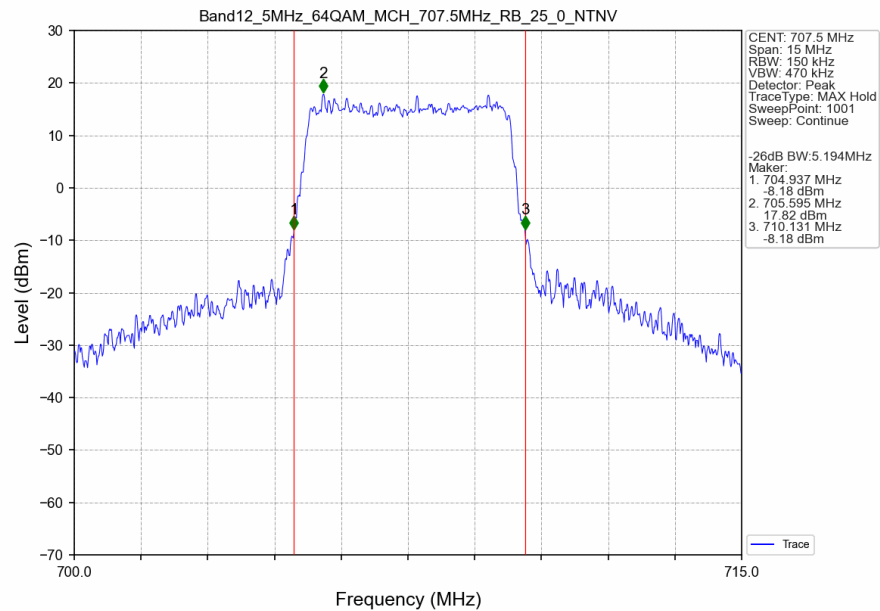
# Band12 5MHz QPSK MCH 707.5MHz RB 25 0 NTV



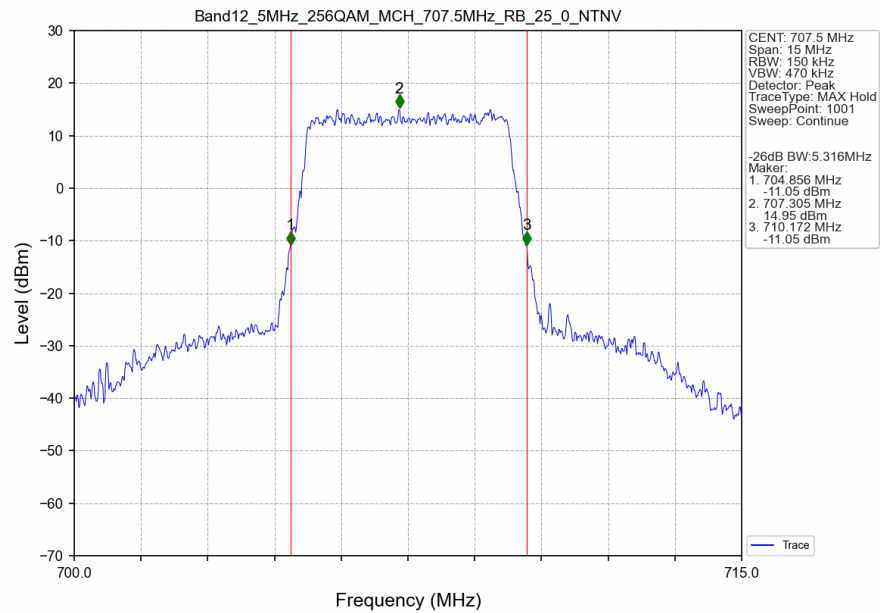
# Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTV



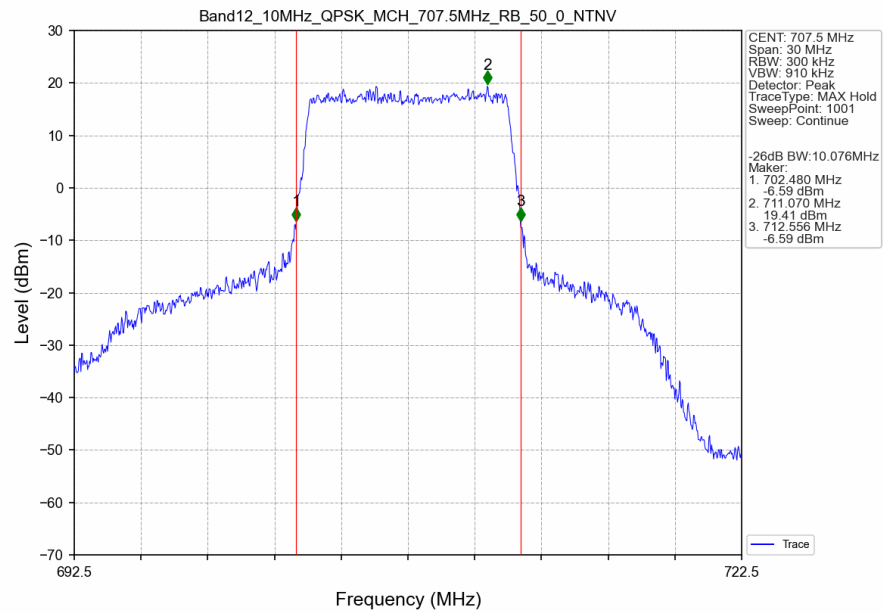
Band12 5MHz 64QAM MCH 707.5MHz RB 25 0 NTNV



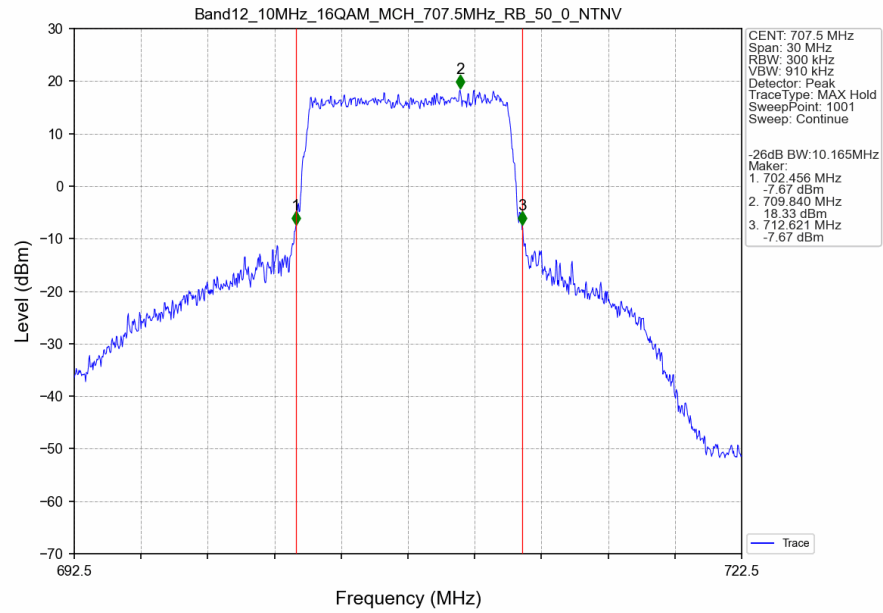
Band12 5MHz 256QAM MCH 707.5MHz RB 25 0 NTNV



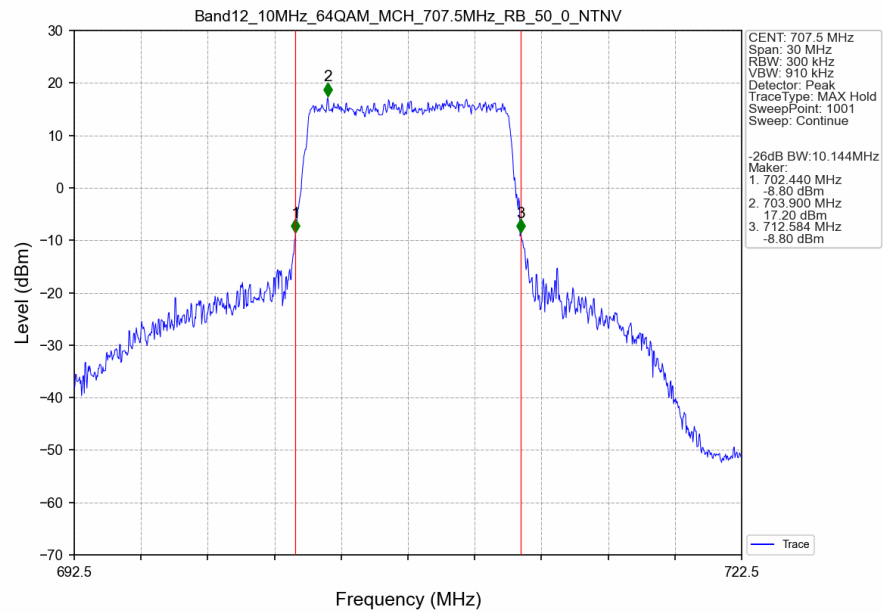
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTNV



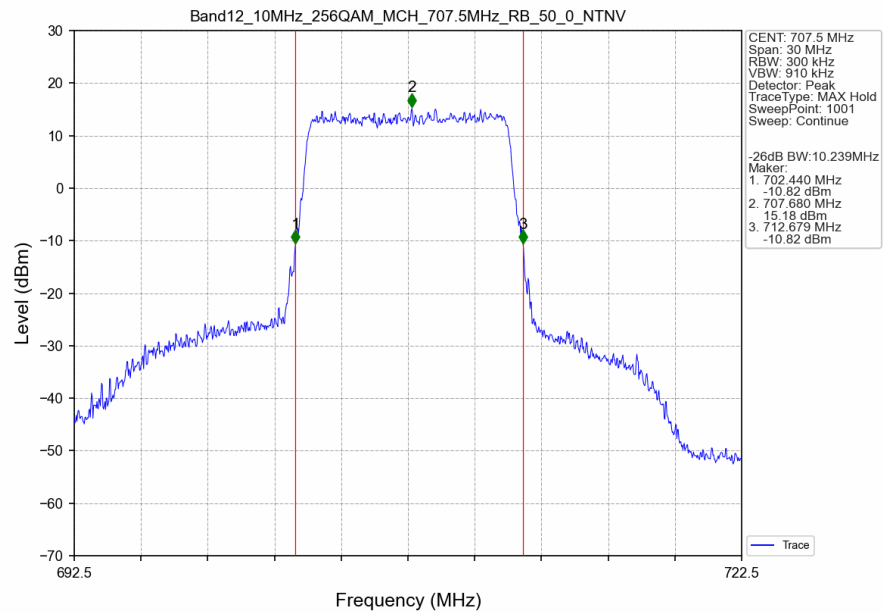
Band12 10MHz 16QAM MCH 707.5MHz RB 50 0 NTNV



# Band12 10MHz 64QAM MCH 707.5MHz RB 50 0 NTN



# Band12 10MHz 256QAM MCH 707.5MHz RB 50 0 NTN



## 4. Peak-Average Ratio

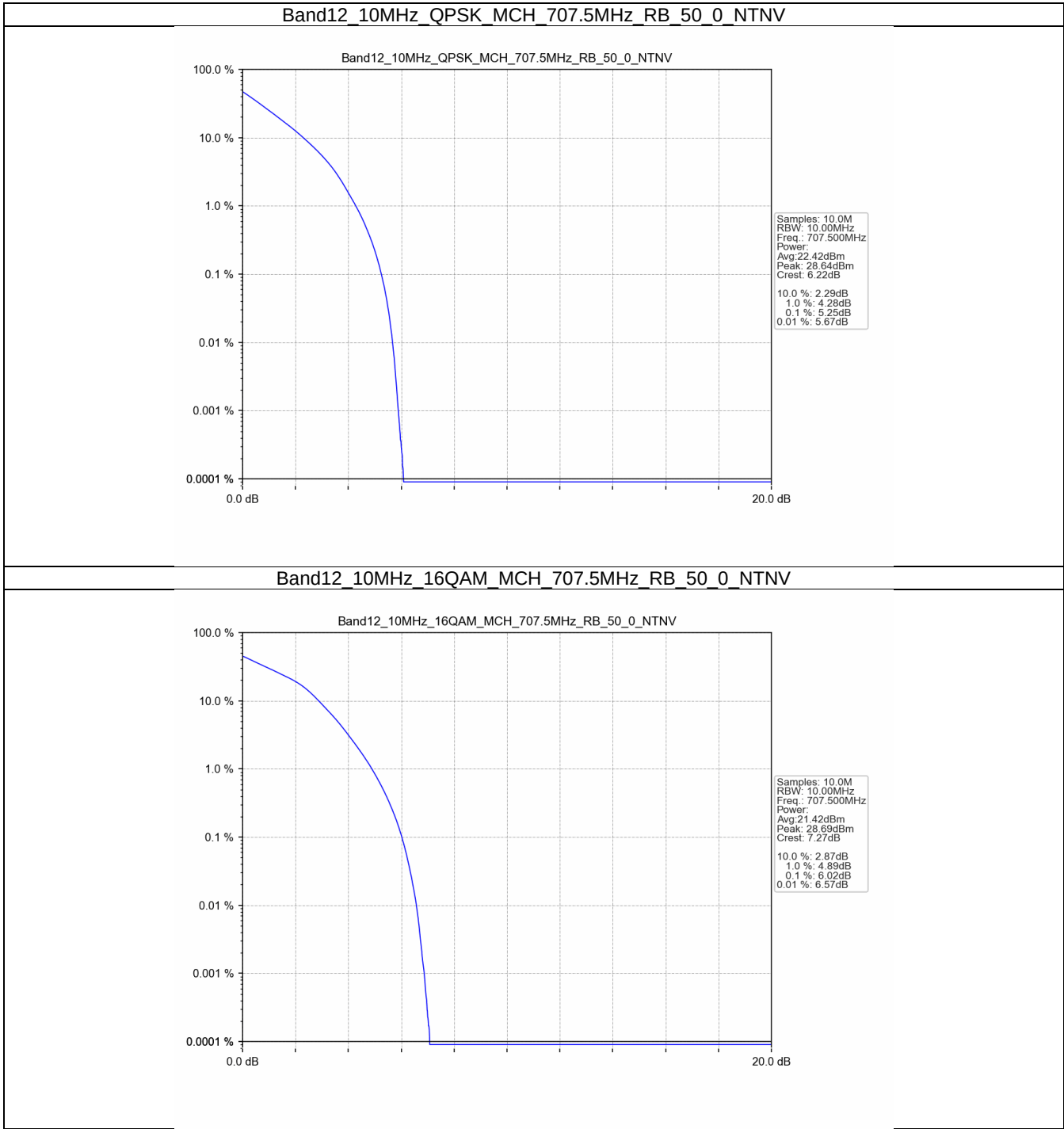
### 4.1 Test Result

#### 4.1.1 B12\_10MHz

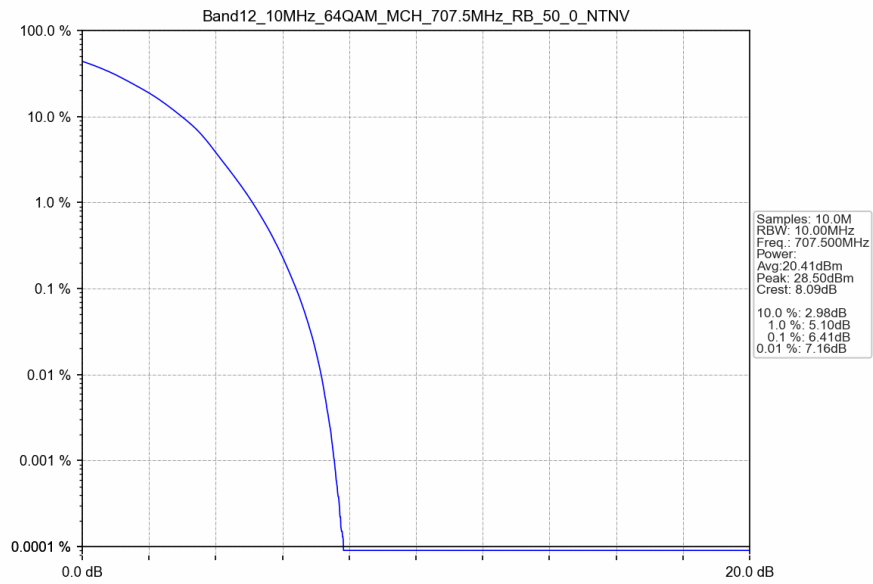
| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 707.5           | 50            | 0      | 5.25                    | <=13  | Pass    |
| 16QAM                              | 707.5           | 50            | 0      | 6.02                    | <=13  | Pass    |
| 64QAM                              | 707.5           | 50            | 0      | 6.41                    | <=13  | Pass    |
| 256QAM                             | 707.5           | 50            | 0      | 6.65                    | <=13  | Pass    |

4.2 Test Graph

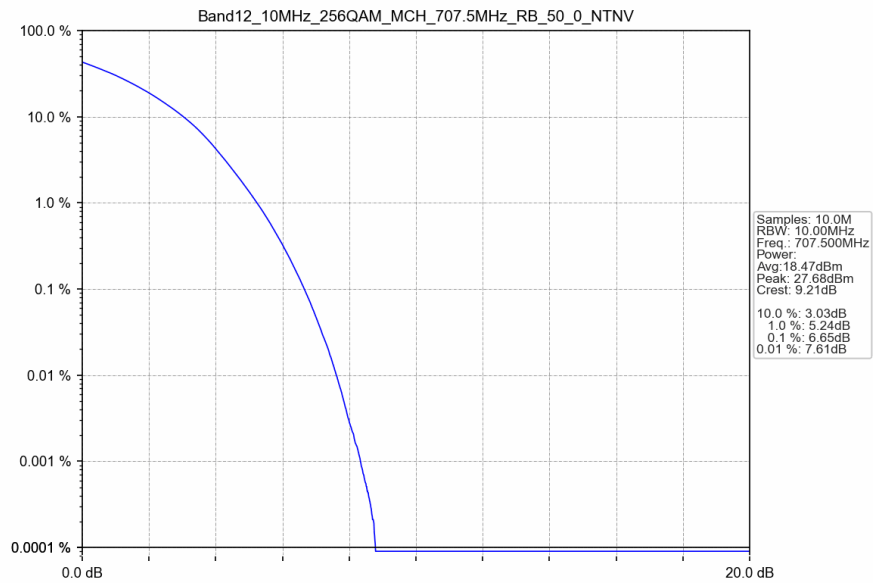
4.2.1 B12\_10MHz



# Band12 10MHz 64QAM MCH 707.5MHz RB 50 0 NTV



# Band12 10MHz 256QAM MCH 707.5MHz RB 50 0 NTV



## 5. Spurious Emission

### 5.1 Test Result

#### 5.1.1 B12\_1.4MHz

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

#### 5.1.2 B12\_3MHz

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

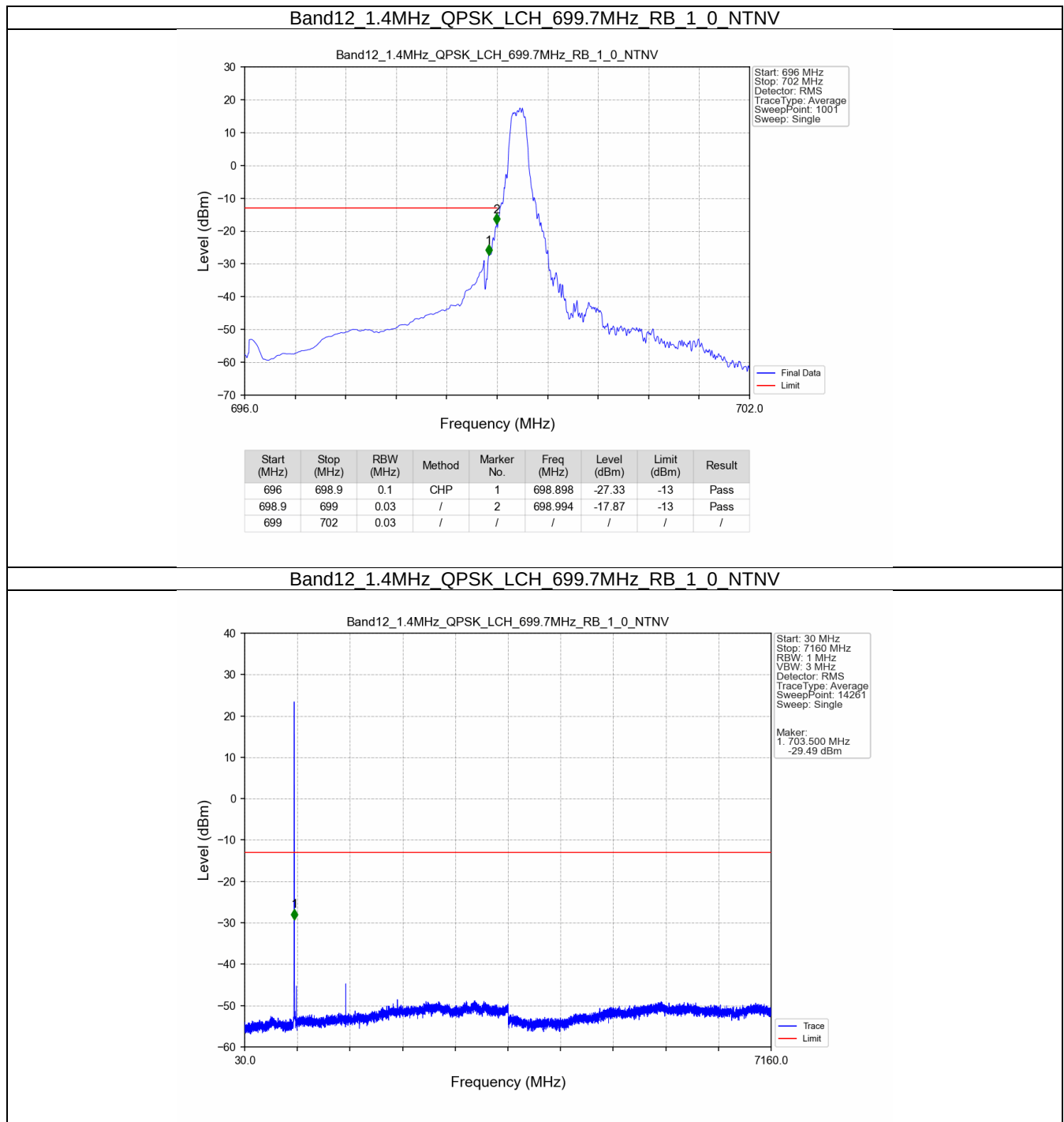
#### 5.1.3 B12\_5MHz

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

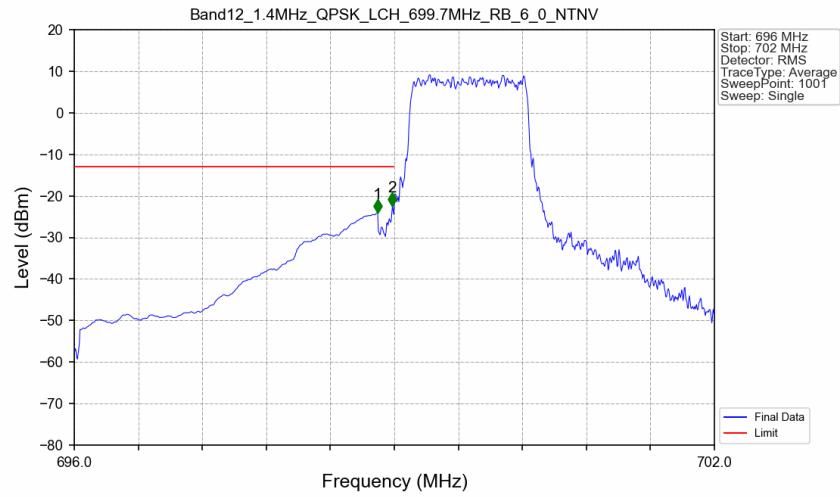
#### 5.1.4 B12\_10MHz

| 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    |

### 5.2.1 B12\_1.4MHz

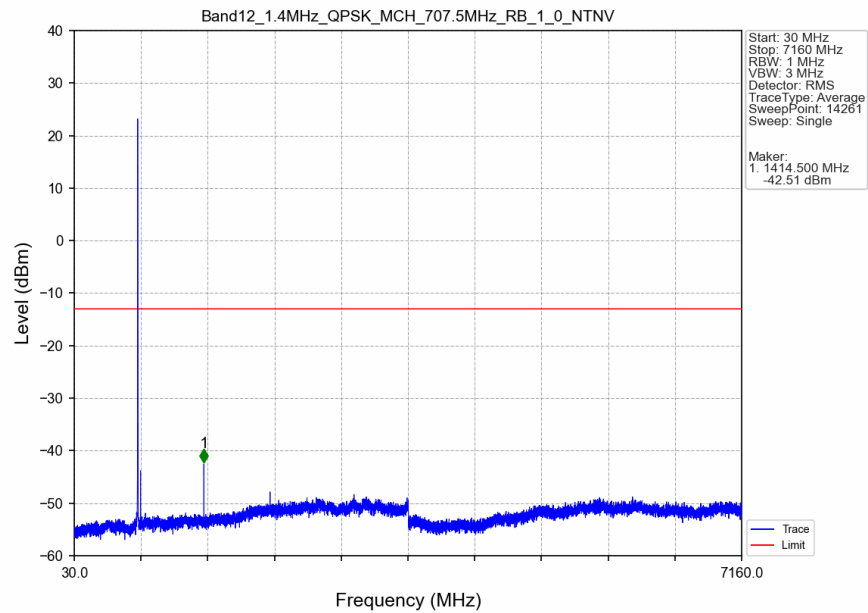


### Band12 1.4MHz QPSK LCH 699.7MHz RB 6 0 NTV

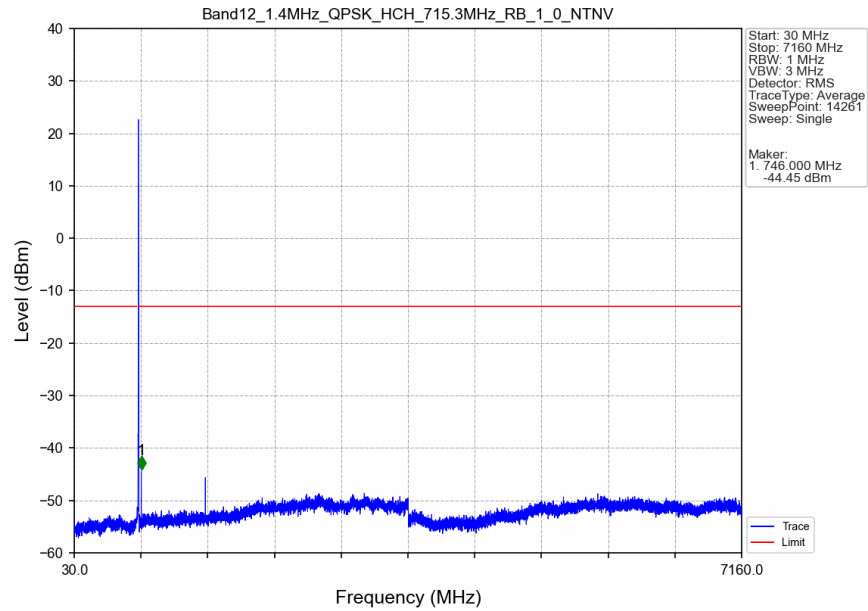


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.844    | -24.02      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.982    | -22.38      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

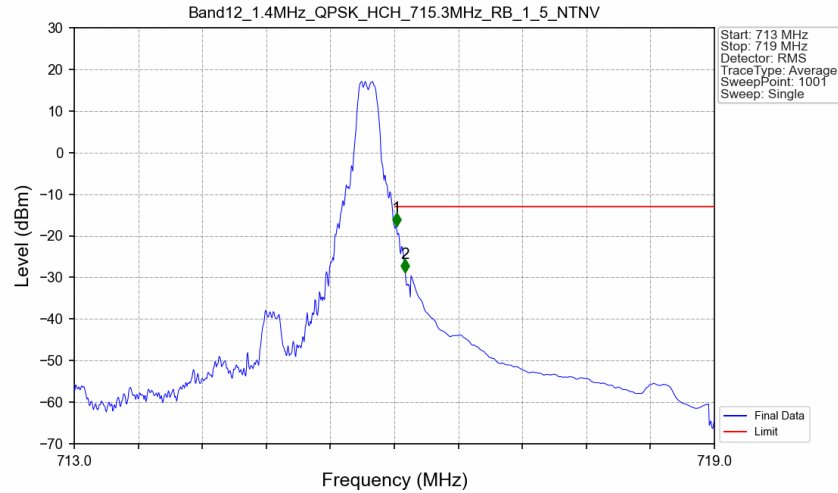
### Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTV



Band12 1.4MHz QPSK HCH 715.3MHz RB 1 0 NTV

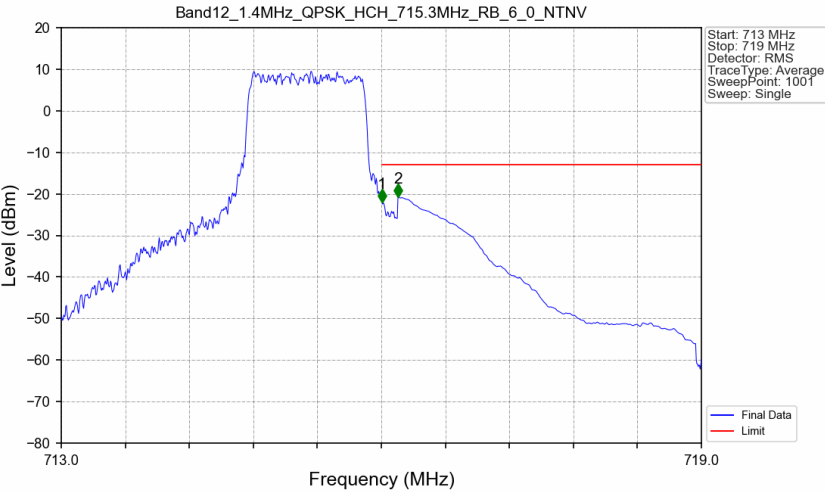


Band12 1.4MHz QPSK HCH 715.3MHz RB 1 5 NTV



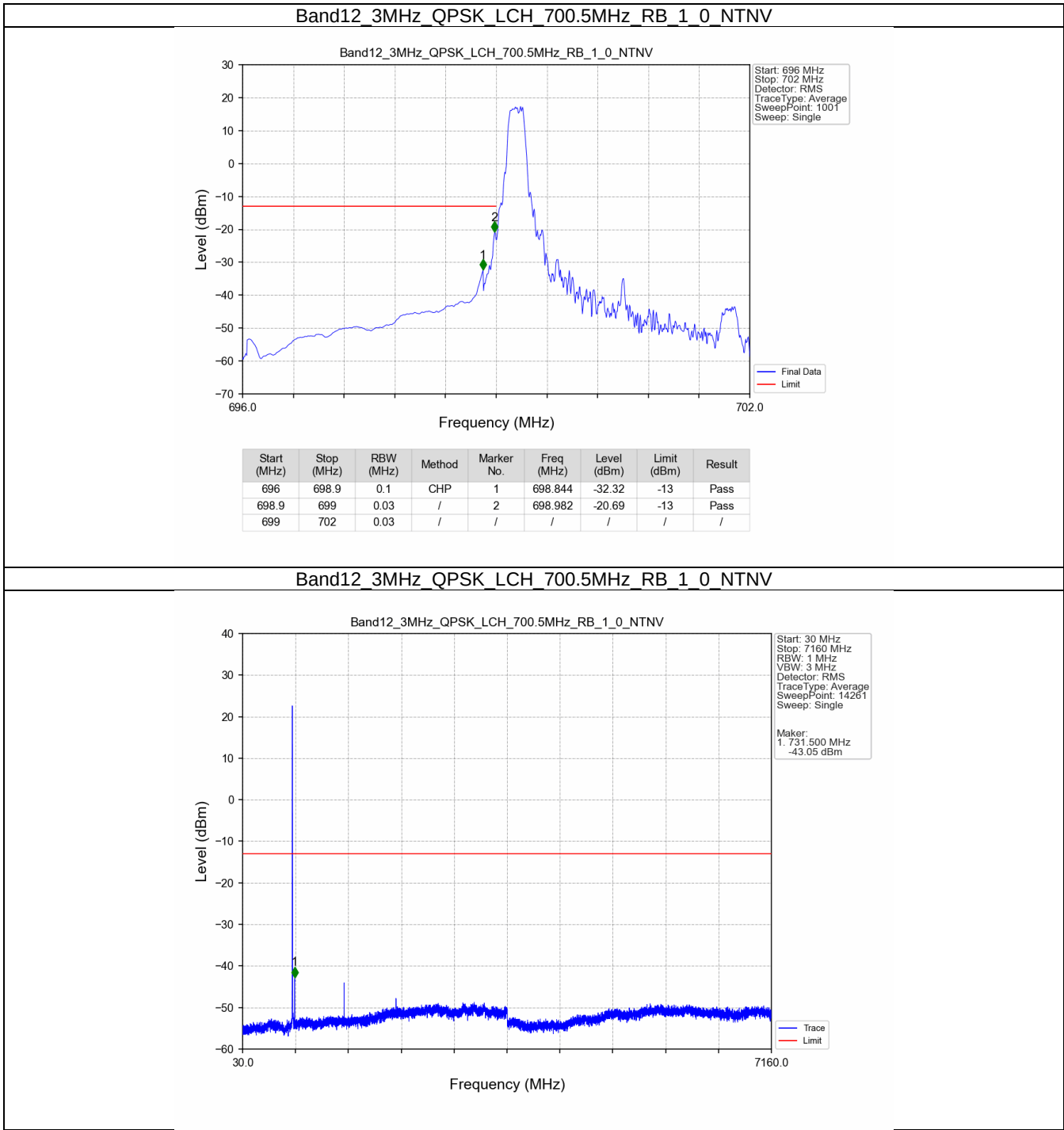
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.018    | -17.64      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.102    | -28.73      | -13         | Pass   |

Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV

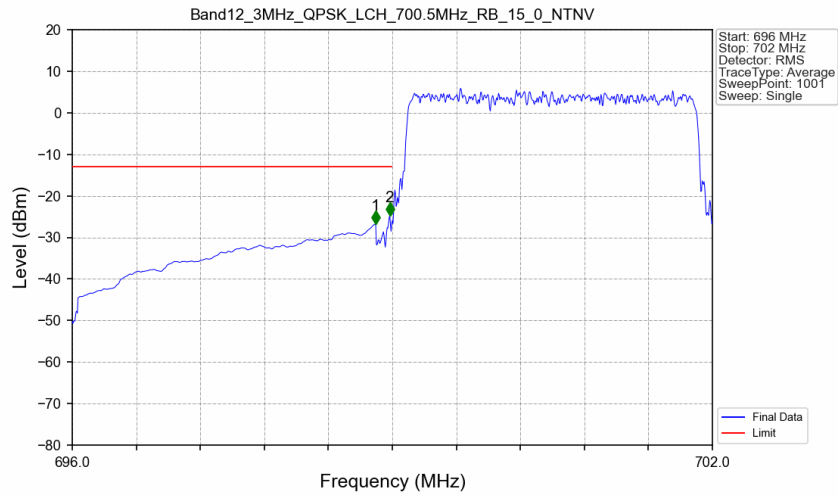


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.006    | -22.06      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -20.81      | -13         | Pass   |

5.2.2 B12\_3MHz

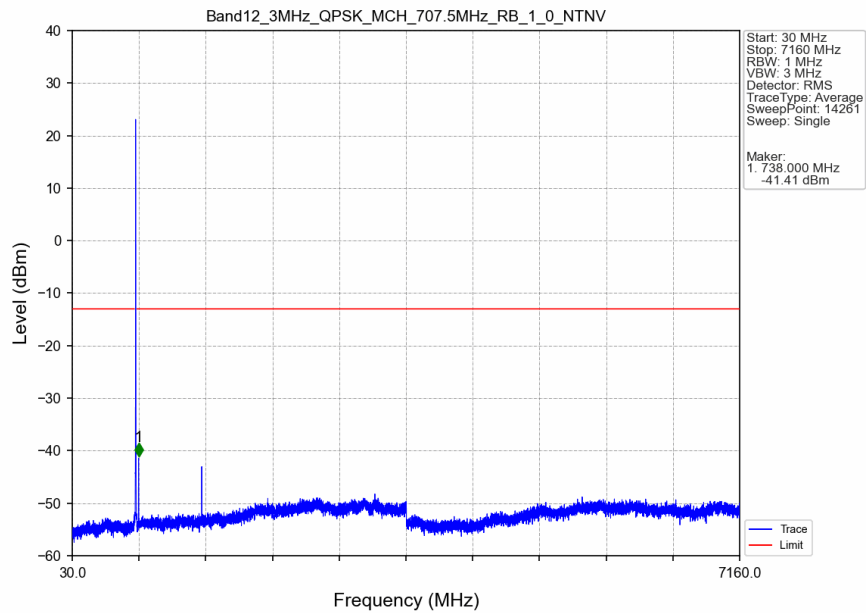


# Band12 3MHz QPSK LCH 700.5MHz RB 15 0 NTNV

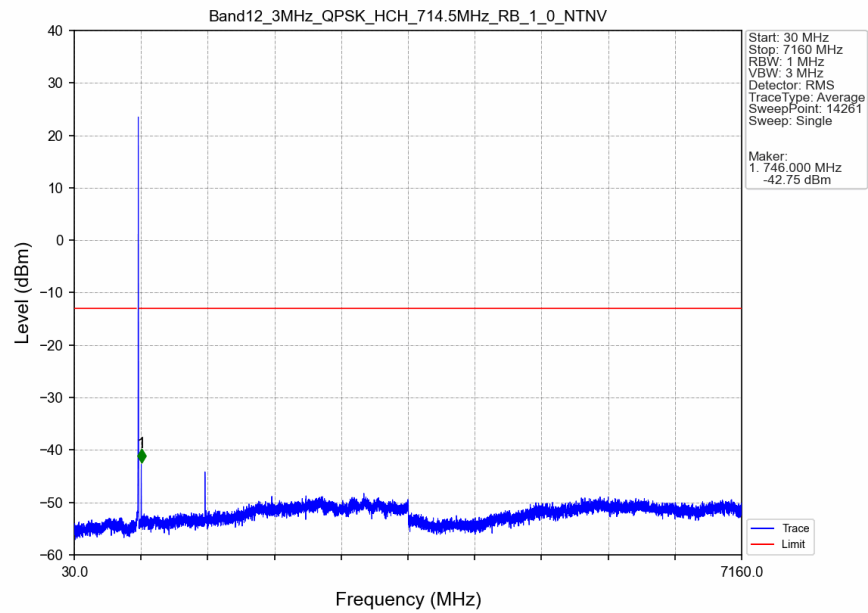


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.844    | -26.71      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.976    | -24.78      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

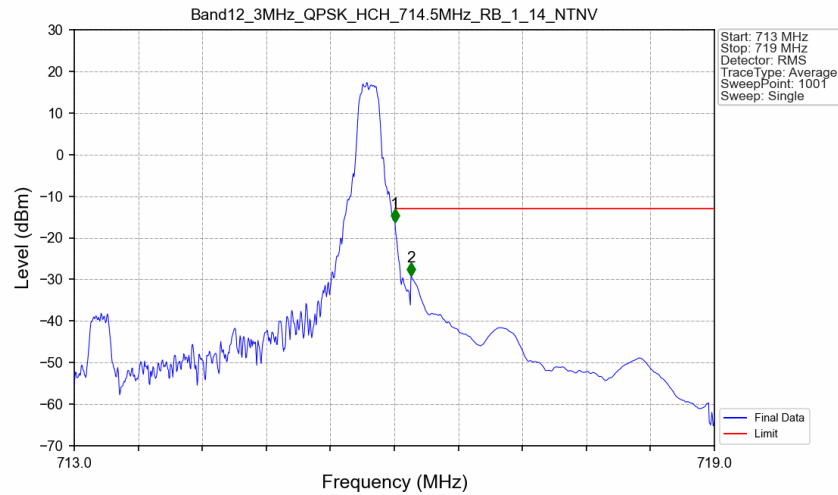
# Band12 3MHz QPSK MCH 707.5MHz RB 1 0 NTNV



Band12 3MHz QPSK HCH 714.5MHz RB 1 0 NTV

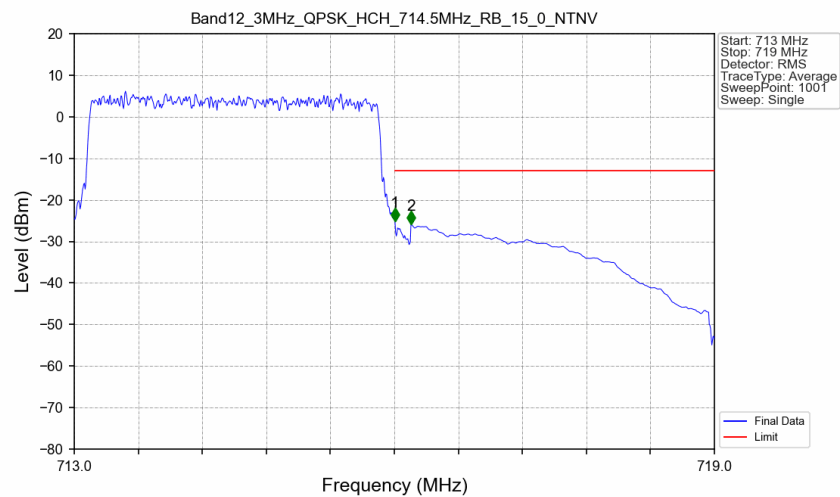


Band12 3MHz QPSK HCH 714.5MHz RB 1 14 NTV



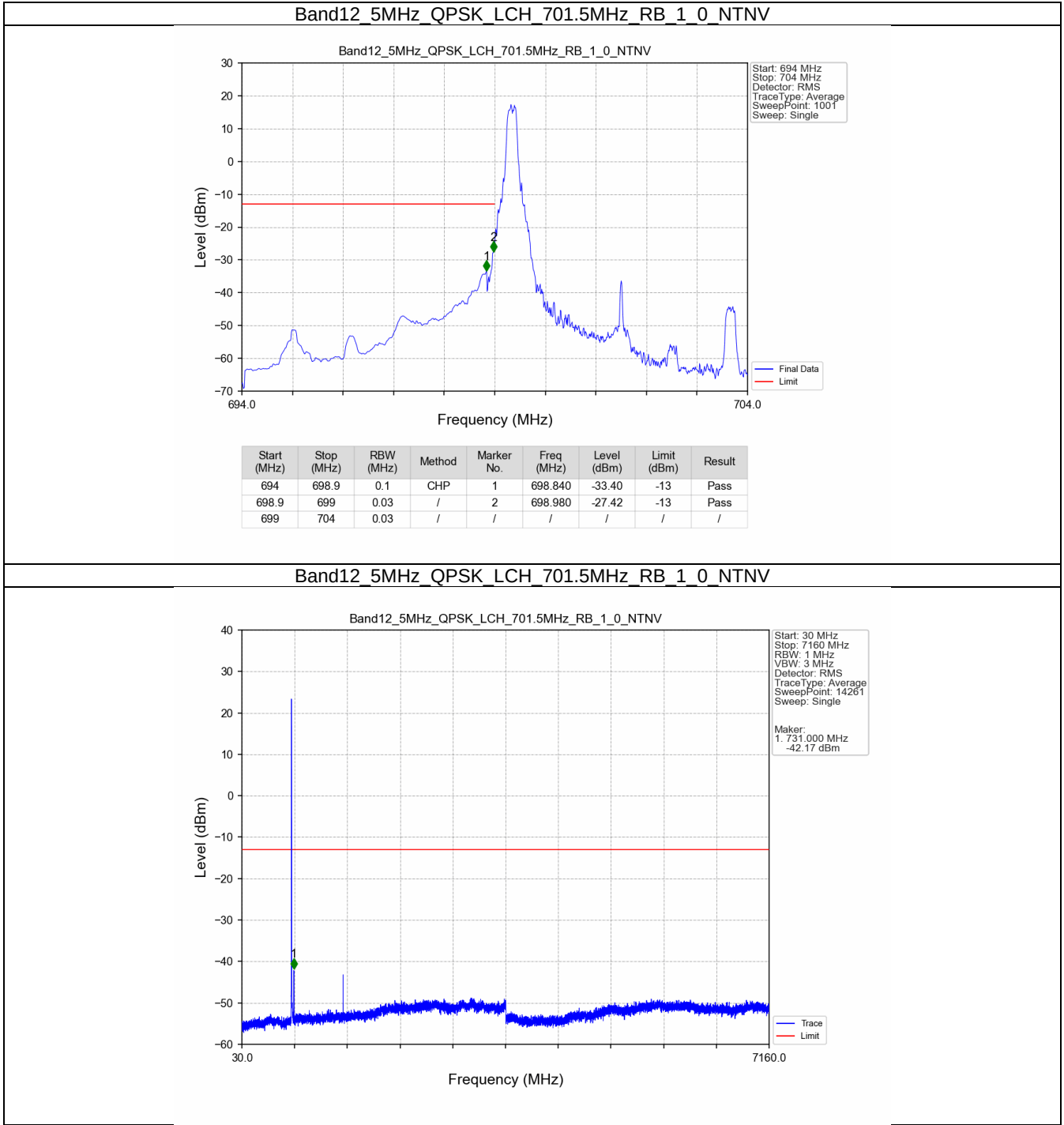
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.006    | -16.23      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -29.23      | -13         | Pass   |

Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTN

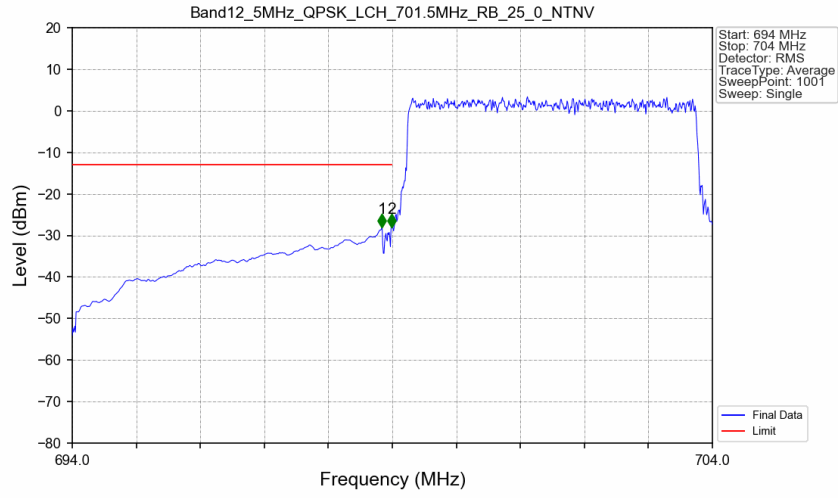


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.006    | -25.20      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -25.80      | -13         | Pass   |

5.2.3 B12\_5MHz

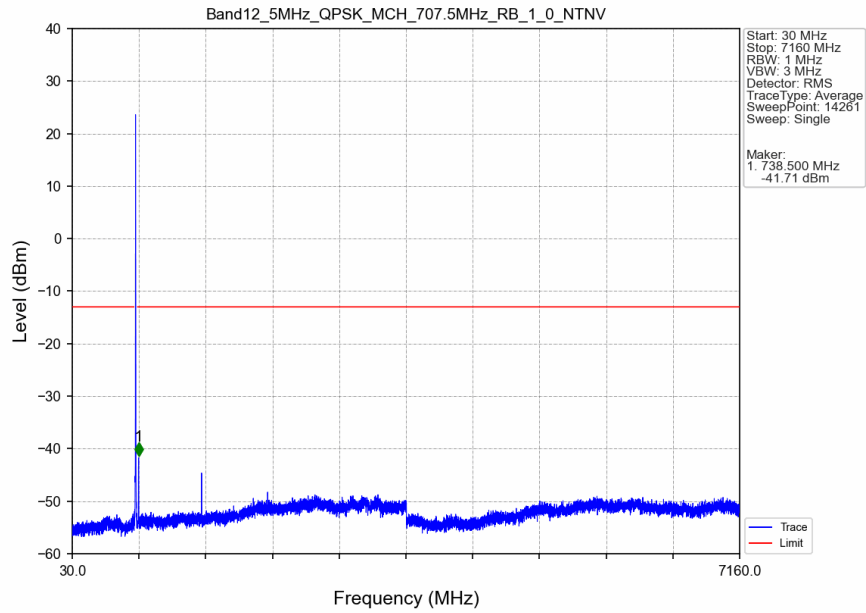


# Band12 5MHz QPSK LCH 701.5MHz RB 25 0 NTN

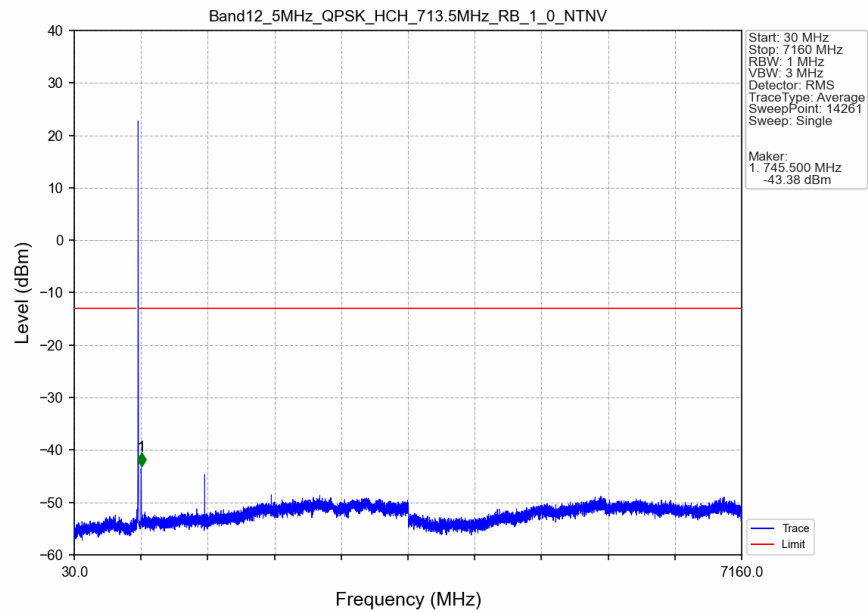


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 694         | 698.9      | 0.1       | CHP    | 1          | 698.840    | -27.99      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.990    | -28.05      | -13         | Pass   |
| 699         | 704        | 0.03      | /      | /          | /          | /           | /           | /      |

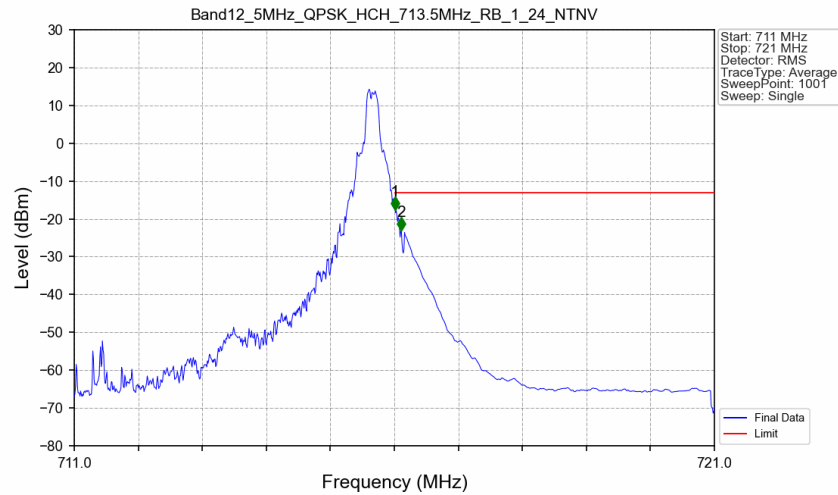
# Band12 5MHz QPSK MCH 707.5MHz RB 1 0 NTN



Band12 5MHz QPSK HCH 713.5MHz RB 1 0 NTV

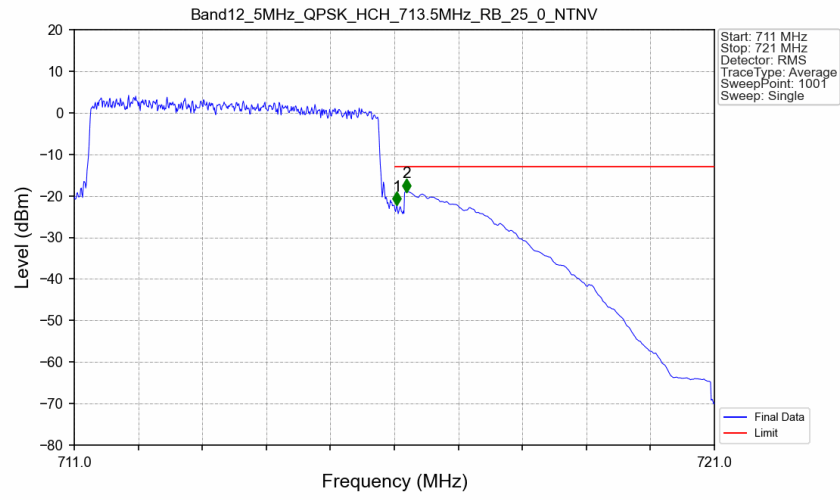


Band12 5MHz QPSK HCH 713.5MHz RB 1 24 NTV



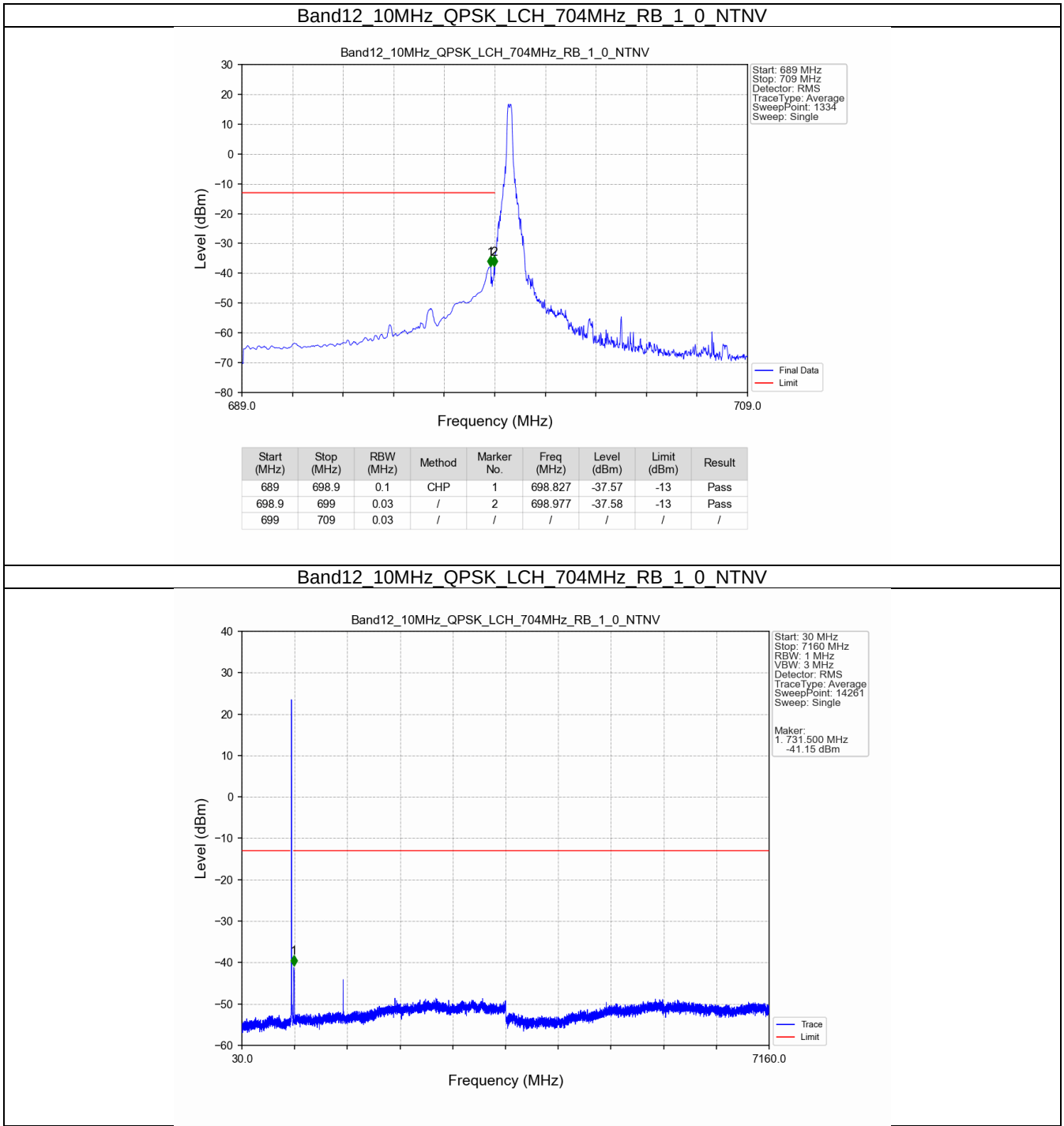
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 711         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.010    | -17.59      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2          | 716.110    | -23.08      | -13         | Pass   |

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

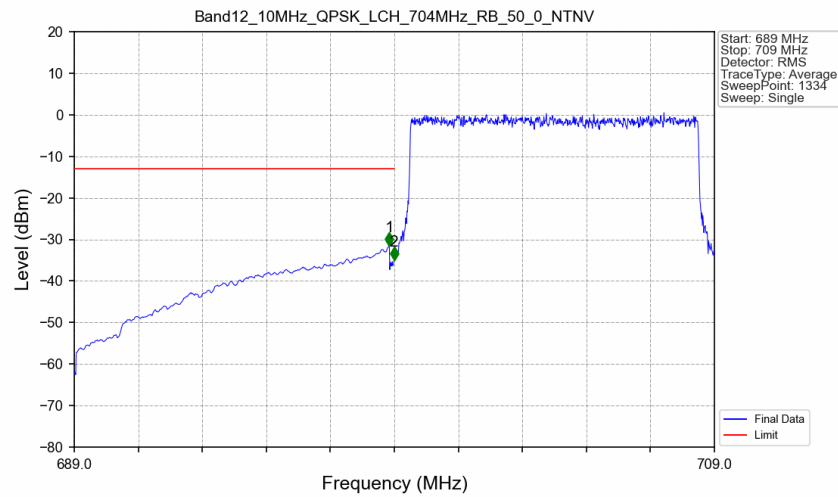


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 711         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.040    | -22.26      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2          | 716.190    | -19.02      | -13         | Pass   |

5.2.4 B12\_10MHz

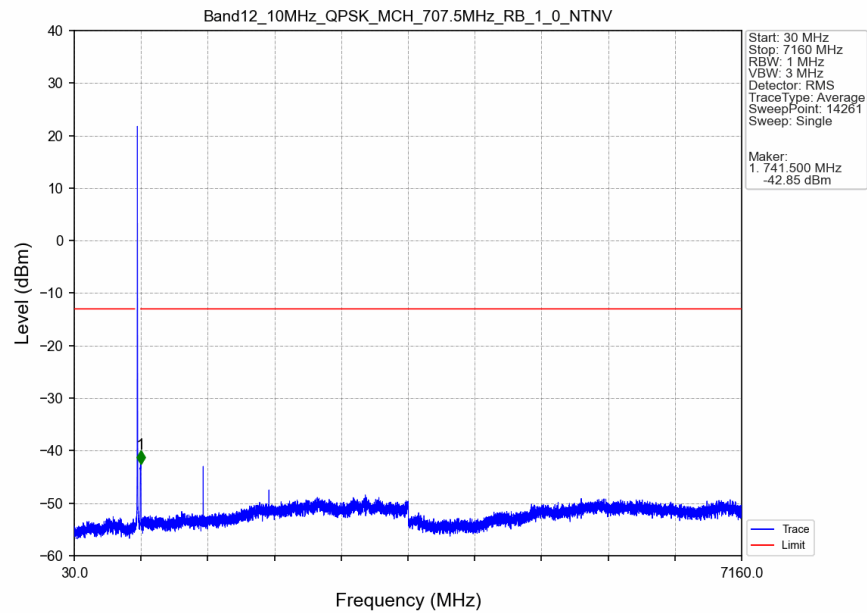


Band12 10MHz QPSK LCH 704MHz RB 50 0 NTNV

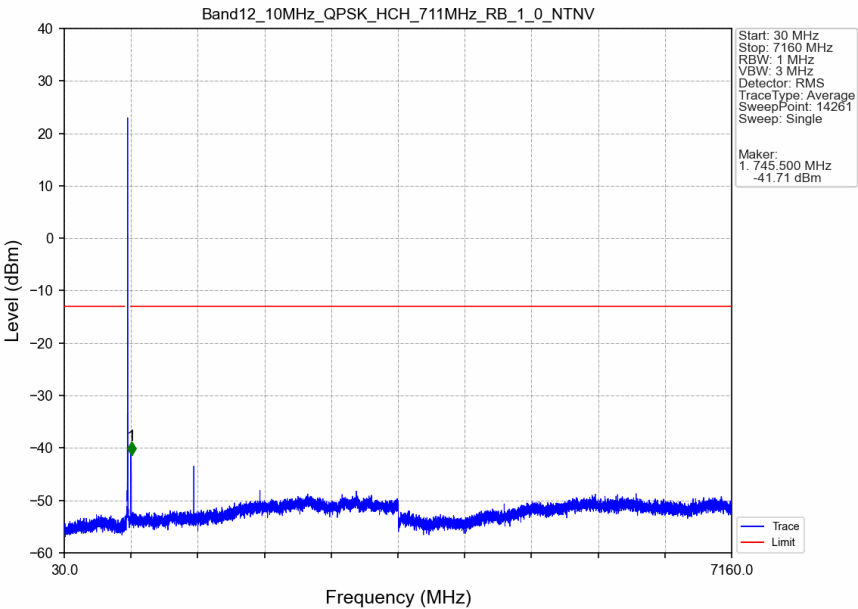


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 689         | 698.9      | 0.1       | CHP    | 1          | 698.842    | -31.43      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.992    | -34.93      | -13         | Pass   |
| 699         | 709        | 0.03      | /      | /          | /          | /           | /           | /      |

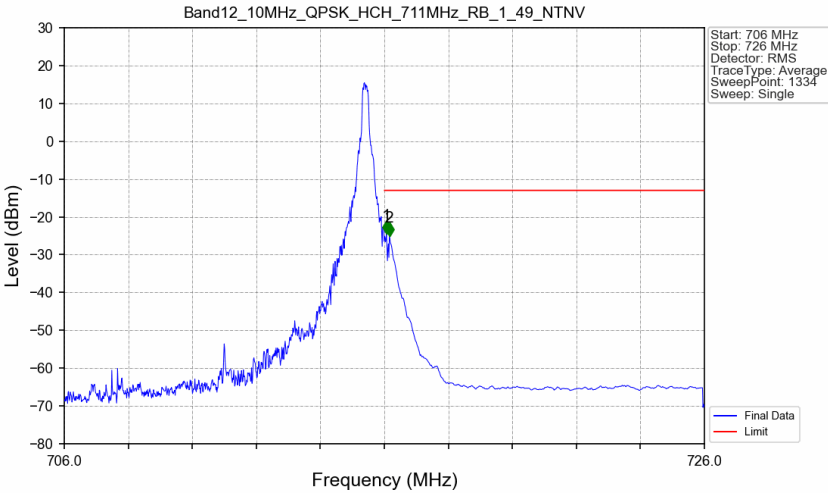
Band12 10MHz QPSK MCH 707.5MHz RB 1 0 NTNV



Band12 10MHz QPSK HCH 711MHz RB 1 0 NTNV

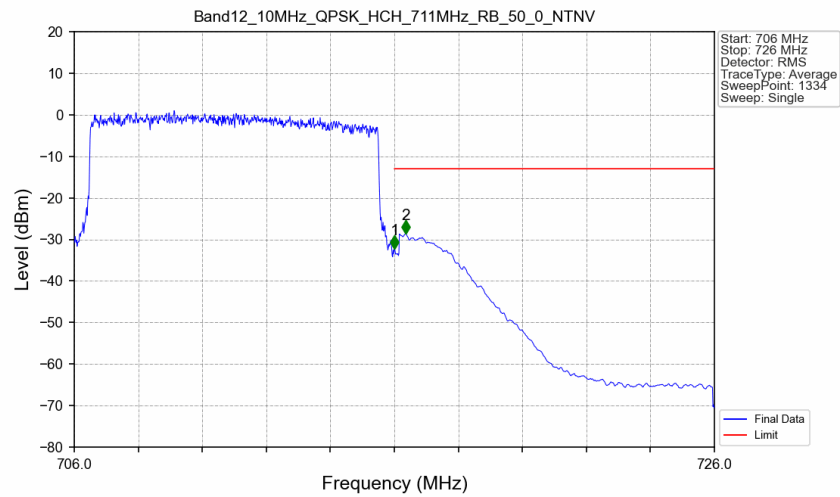


Band12 10MHz QPSK HCH 711MHz RB 1 49 NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 706         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.068    | -24.42      | -13         | Pass   |
| 716.1       | 726        | 0.1       | CHP    | 2          | 716.158    | -25.13      | -13         | Pass   |

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



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 706         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.008    | -32.27      | -13         | Pass   |
| 716.1       | 726        | 0.1       | CHP    | 2          | 716.353    | -28.66      | -13         | Pass   |