



## Annex for LTE Band 12

Test Report No.: CTL2405163031-WF

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

### 1.1 Test Result

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

| Band: 12 / Bandwidth: 1.4MHz / NTNV          |                 |               |        |                       |            |           |         |         |      |
|----------------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|------|
| Modulation                                   | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |      |
|                                              |                 | Size          | Offset |                       |            | Result    | Limit   |         |      |
| QPSK                                         | 699.7           | 1             | 0      | 22.09                 | -4.87      | 15.07     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 22.34                 | -4.87      | 15.32     | <=34.77 | Pass    |      |
|                                              |                 |               | 5      | 22.08                 | -4.87      | 15.06     | <=34.77 | Pass    |      |
|                                              |                 | 3             | 0      | 22.32                 | -4.87      | 15.30     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 22.18                 | -4.87      | 15.16     | <=34.77 | Pass    |      |
|                                              |                 |               | 3      | 22.11                 | -4.87      | 15.09     | <=34.77 | Pass    |      |
|                                              |                 | 6             | 0      | 21.29                 | -4.87      | 14.27     | <=34.77 | Pass    |      |
|                                              |                 | 707.5         | 1      | 0                     | 22.35      | -4.87     | 15.33   | <=34.77 | Pass |
|                                              |                 |               |        | 2                     | 22.28      | -4.87     | 15.26   | <=34.77 | Pass |
|                                              | 5               |               |        | 22.04                 | -4.87      | 15.02     | <=34.77 | Pass    |      |
|                                              | 3               |               | 0      | 22.13                 | -4.87      | 15.11     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 22.29                 | -4.87      | 15.27     | <=34.77 | Pass    |      |
|                                              |                 |               | 3      | 22.27                 | -4.87      | 15.25     | <=34.77 | Pass    |      |
|                                              | 715.3           | 6             | 0      | 21.26                 | -4.87      | 14.24     | <=34.77 | Pass    |      |
|                                              |                 |               | 1      | 0                     | 22.35      | -4.87     | 15.33   | <=34.77 | Pass |
|                                              |                 |               |        | 2                     | 22.37      | -4.87     | 15.35   | <=34.77 | Pass |
|                                              |                 | 5             |        | 22.28                 | -4.87      | 15.26     | <=34.77 | Pass    |      |
|                                              |                 | 3             | 0      | 22.40                 | -4.87      | 15.38     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 22.56                 | -4.87      | 15.54     | <=34.77 | Pass    |      |
|                                              |                 |               | 3      | 22.30                 | -4.87      | 15.28     | <=34.77 | Pass    |      |
|                                              |                 | 6             | 0      | 21.50                 | -4.87      | 14.48     | <=34.77 | Pass    |      |
| 16QAM                                        |                 | 699.7         | 1      | 0                     | 20.81      | -4.87     | 13.79   | <=34.77 | Pass |
|                                              | 2               |               |        | 21.12                 | -4.87      | 14.10     | <=34.77 | Pass    |      |
|                                              | 5               |               |        | 21.16                 | -4.87      | 14.14     | <=34.77 | Pass    |      |
|                                              | 3               |               | 0      | 21.32                 | -4.87      | 14.30     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 21.22                 | -4.87      | 14.20     | <=34.77 | Pass    |      |
|                                              |                 |               | 3      | 21.25                 | -4.87      | 14.23     | <=34.77 | Pass    |      |
|                                              | 6               |               | 0      | 20.27                 | -4.87      | 13.25     | <=34.77 | Pass    |      |
|                                              | 707.5           |               | 1      | 0                     | 21.61      | -4.87     | 14.59   | <=34.77 | Pass |
|                                              |                 |               |        | 2                     | 21.94      | -4.87     | 14.92   | <=34.77 | Pass |
|                                              |                 | 5             |        | 21.93                 | -4.87      | 14.91     | <=34.77 | Pass    |      |
|                                              |                 | 3             | 0      | 21.35                 | -4.87      | 14.33     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 21.55                 | -4.87      | 14.53     | <=34.77 | Pass    |      |
|                                              |                 |               | 3      | 21.55                 | -4.87      | 14.53     | <=34.77 | Pass    |      |
|                                              | 6               | 0             | 20.51  | -4.87                 | 13.49      | <=34.77   | Pass    |         |      |
|                                              | 715.3           | 1             | 0      | 21.09                 | -4.87      | 14.07     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 21.10                 | -4.87      | 14.08     | <=34.77 | Pass    |      |
|                                              |                 |               | 5      | 21.09                 | -4.87      | 14.07     | <=34.77 | Pass    |      |
|                                              |                 | 3             | 0      | 21.31                 | -4.87      | 14.29     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 21.52                 | -4.87      | 14.50     | <=34.77 | Pass    |      |
|                                              |                 |               | 3      | 21.36                 | -4.87      | 14.34     | <=34.77 | Pass    |      |
|                                              |                 | 6             | 0      | 20.12                 | -4.87      | 13.10     | <=34.77 | Pass    |      |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |                 |               |        |                       |            |           |         |         |      |

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**1.1.2 B12\_3MHz\_ERP**

| Band: 12 / Bandwidth: 3MHz / NTN |                 |               |        |                       |            |           |         |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                             | 700.5           | 1             | 0      | 22.19                 | -4.87      | 15.17     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 22.30                 | -4.87      | 15.28     | <=34.77 | Pass    |
|                                  |                 |               | 14     | 21.94                 | -4.87      | 14.92     | <=34.77 | Pass    |
|                                  |                 | 8             | 0      | 21.23                 | -4.87      | 14.21     | <=34.77 | Pass    |
|                                  |                 |               | 4      | 21.25                 | -4.87      | 14.23     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 21.17                 | -4.87      | 14.15     | <=34.77 | Pass    |
|                                  |                 | 15            | 0      | 21.20                 | -4.87      | 14.18     | <=34.77 | Pass    |
|                                  | 707.5           | 1             | 0      | 22.03                 | -4.87      | 15.01     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 22.15                 | -4.87      | 15.13     | <=34.77 | Pass    |
|                                  |                 |               | 14     | 22.37                 | -4.87      | 15.35     | <=34.77 | Pass    |
|                                  |                 | 8             | 0      | 21.27                 | -4.87      | 14.25     | <=34.77 | Pass    |
|                                  |                 |               | 4      | 21.34                 | -4.87      | 14.32     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 21.32                 | -4.87      | 14.30     | <=34.77 | Pass    |
|                                  |                 | 15            | 0      | 21.27                 | -4.87      | 14.25     | <=34.77 | Pass    |
|                                  | 714.5           | 1             | 0      | 22.45                 | -4.87      | 15.43     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 22.54                 | -4.87      | 15.52     | <=34.77 | Pass    |
|                                  |                 |               | 14     | 22.41                 | -4.87      | 15.39     | <=34.77 | Pass    |
|                                  |                 | 8             | 0      | 21.41                 | -4.87      | 14.39     | <=34.77 | Pass    |
|                                  |                 |               | 4      | 21.37                 | -4.87      | 14.35     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 21.40                 | -4.87      | 14.38     | <=34.77 | Pass    |
|                                  |                 | 15            | 0      | 21.33                 | -4.87      | 14.31     | <=34.77 | Pass    |
| 16QAM                            | 700.5           | 1             | 0      | 21.57                 | -4.87      | 14.55     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 21.61                 | -4.87      | 14.59     | <=34.77 | Pass    |
|                                  |                 |               | 14     | 21.38                 | -4.87      | 14.36     | <=34.77 | Pass    |
|                                  |                 | 8             | 0      | 20.19                 | -4.87      | 13.17     | <=34.77 | Pass    |
|                                  |                 |               | 4      | 20.45                 | -4.87      | 13.43     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 20.26                 | -4.87      | 13.24     | <=34.77 | Pass    |
|                                  |                 | 15            | 0      | 20.18                 | -4.87      | 13.16     | <=34.77 | Pass    |
|                                  | 707.5           | 1             | 0      | 20.97                 | -4.87      | 13.95     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 20.93                 | -4.87      | 13.91     | <=34.77 | Pass    |
|                                  |                 |               | 14     | 21.27                 | -4.87      | 14.25     | <=34.77 | Pass    |
|                                  |                 | 8             | 0      | 20.19                 | -4.87      | 13.17     | <=34.77 | Pass    |
|                                  |                 |               | 4      | 20.43                 | -4.87      | 13.41     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 20.55                 | -4.87      | 13.53     | <=34.77 | Pass    |
|                                  |                 | 15            | 0      | 20.29                 | -4.87      | 13.27     | <=34.77 | Pass    |
|                                  | 714.5           | 1             | 0      | 21.09                 | -4.87      | 14.07     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 22.01                 | -4.87      | 14.99     | <=34.77 | Pass    |
|                                  |                 |               | 14     | 21.77                 | -4.87      | 14.75     | <=34.77 | Pass    |
|                                  |                 | 8             | 0      | 20.54                 | -4.87      | 13.52     | <=34.77 | Pass    |
|                                  |                 |               | 4      | 20.13                 | -4.87      | 13.11     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 20.15                 | -4.87      | 13.13     | <=34.77 | Pass    |
|                                  |                 | 15            | 0      | 20.16                 | -4.87      | 13.14     | <=34.77 | Pass    |

Note1: ERP=Conducted Power+Antenna Gain-2.15

**1.1.3 B12\_5MHz\_ERP**

| Band: 12 / Bandwidth: 5MHz / NTN |                 |               |        |                       |            |           |         |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                             | 701.5           | 1             | 0      | 22.24                 | -4.87      | 15.22     | <=34.77 | Pass    |
|                                  |                 |               | 13     | 22.15                 | -4.87      | 15.13     | <=34.77 | Pass    |
|                                  |                 |               | 24     | 21.87                 | -4.87      | 14.85     | <=34.77 | Pass    |
|                                  |                 | 12            | 0      | 21.14                 | -4.87      | 14.12     | <=34.77 | Pass    |
|                                  |                 |               |        |                       |            |           |         |         |

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|       |       |    |    |       |       |       |         |      |
|-------|-------|----|----|-------|-------|-------|---------|------|
| 16QAM | 707.5 | 25 | 6  | 21.12 | -4.87 | 14.10 | <=34.77 | Pass |
|       |       |    | 13 | 21.14 | -4.87 | 14.12 | <=34.77 | Pass |
|       |       |    | 0  | 21.20 | -4.87 | 14.18 | <=34.77 | Pass |
|       |       | 1  | 0  | 22.10 | -4.87 | 15.08 | <=34.77 | Pass |
|       |       |    | 13 | 22.37 | -4.87 | 15.35 | <=34.77 | Pass |
|       |       |    | 24 | 22.19 | -4.87 | 15.17 | <=34.77 | Pass |
|       |       | 12 | 0  | 21.27 | -4.87 | 14.25 | <=34.77 | Pass |
|       |       |    | 6  | 21.31 | -4.87 | 14.29 | <=34.77 | Pass |
|       |       |    | 13 | 21.28 | -4.87 | 14.26 | <=34.77 | Pass |
|       | 713.5 | 25 | 0  | 21.27 | -4.87 | 14.25 | <=34.77 | Pass |
|       |       |    | 0  | 22.07 | -4.87 | 15.05 | <=34.77 | Pass |
|       |       |    | 13 | 22.16 | -4.87 | 15.14 | <=34.77 | Pass |
|       |       | 1  | 24 | 22.06 | -4.87 | 15.04 | <=34.77 | Pass |
|       |       |    | 0  | 21.34 | -4.87 | 14.32 | <=34.77 | Pass |
|       |       |    | 6  | 21.31 | -4.87 | 14.29 | <=34.77 | Pass |
|       |       | 12 | 13 | 21.33 | -4.87 | 14.31 | <=34.77 | Pass |
|       |       |    | 0  | 21.27 | -4.87 | 14.25 | <=34.77 | Pass |
|       |       |    | 0  | 20.57 | -4.87 | 13.55 | <=34.77 | Pass |
| 16QAM | 701.5 | 1  | 13 | 20.53 | -4.87 | 13.51 | <=34.77 | Pass |
|       |       |    | 24 | 20.28 | -4.87 | 13.26 | <=34.77 | Pass |
|       |       |    | 0  | 20.06 | -4.87 | 13.04 | <=34.77 | Pass |
|       |       | 12 | 6  | 20.06 | -4.87 | 13.04 | <=34.77 | Pass |
|       |       |    | 13 | 19.99 | -4.87 | 12.97 | <=34.77 | Pass |
|       |       |    | 0  | 20.29 | -4.87 | 13.27 | <=34.77 | Pass |
|       | 707.5 | 25 | 0  | 21.18 | -4.87 | 14.16 | <=34.77 | Pass |
|       |       |    | 13 | 20.87 | -4.87 | 13.85 | <=34.77 | Pass |
|       |       |    | 24 | 20.93 | -4.87 | 13.91 | <=34.77 | Pass |
|       |       | 1  | 0  | 20.05 | -4.87 | 13.03 | <=34.77 | Pass |
|       |       |    | 6  | 20.21 | -4.87 | 13.19 | <=34.77 | Pass |
|       |       |    | 13 | 19.86 | -4.87 | 12.84 | <=34.77 | Pass |
|       |       | 12 | 0  | 20.14 | -4.87 | 13.12 | <=34.77 | Pass |
|       |       |    | 0  | 21.33 | -4.87 | 14.31 | <=34.77 | Pass |
|       |       |    | 13 | 21.58 | -4.87 | 14.56 | <=34.77 | Pass |
| 16QAM | 713.5 | 1  | 24 | 21.57 | -4.87 | 14.55 | <=34.77 | Pass |
|       |       |    | 0  | 20.11 | -4.87 | 13.09 | <=34.77 | Pass |
|       |       |    | 6  | 20.20 | -4.87 | 13.18 | <=34.77 | Pass |
|       |       | 12 | 13 | 20.18 | -4.87 | 13.16 | <=34.77 | Pass |
|       |       |    | 0  | 20.21 | -4.87 | 13.19 | <=34.77 | Pass |
|       |       |    | 0  | 21.33 | -4.87 | 14.31 | <=34.77 | Pass |
|       |       | 1  | 13 | 21.58 | -4.87 | 14.56 | <=34.77 | Pass |
|       |       |    | 24 | 21.57 | -4.87 | 14.55 | <=34.77 | Pass |
|       |       |    | 0  | 20.11 | -4.87 | 13.09 | <=34.77 | Pass |
|       |       | 12 | 6  | 20.20 | -4.87 | 13.18 | <=34.77 | Pass |
|       |       |    | 13 | 20.18 | -4.87 | 13.16 | <=34.77 | Pass |
|       |       |    | 0  | 20.21 | -4.87 | 13.19 | <=34.77 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.1.4 B12\_10MHz\_ERP

| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                       |            |           |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                               | 704             | 1             | 0      | 22.39                 | -4.87      | 15.37     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 22.35                 | -4.87      | 15.33     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 22.26                 | -4.87      | 15.24     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 21.52                 | -4.87      | 14.50     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 21.38                 | -4.87      | 14.36     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 21.59                 | -4.87      | 14.57     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 21.53                 | -4.87      | 14.51     | <=34.77 | Pass    |
|                                    | 707.5           | 1             | 0      | 22.24                 | -4.87      | 15.22     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 22.78                 | -4.87      | 15.76     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 22.54                 | -4.87      | 15.52     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 21.38                 | -4.87      | 14.36     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 21.54                 | -4.87      | 14.52     | <=34.77 | Pass    |

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|       |       |    |    |       |       |       |         |      |
|-------|-------|----|----|-------|-------|-------|---------|------|
| 16QAM | 711   | 50 | 25 | 21.57 | -4.87 | 14.55 | <=34.77 | Pass |
|       |       |    | 0  | 21.49 | -4.87 | 14.47 | <=34.77 | Pass |
|       |       |    | 0  | 22.46 | -4.87 | 15.44 | <=34.77 | Pass |
|       |       | 1  | 25 | 23.03 | -4.87 | 16.01 | <=34.77 | Pass |
|       |       |    | 49 | 22.58 | -4.87 | 15.56 | <=34.77 | Pass |
|       |       |    | 0  | 21.43 | -4.87 | 14.41 | <=34.77 | Pass |
|       |       | 25 | 13 | 21.55 | -4.87 | 14.53 | <=34.77 | Pass |
|       |       |    | 25 | 21.47 | -4.87 | 14.45 | <=34.77 | Pass |
|       |       |    | 0  | 21.55 | -4.87 | 14.53 | <=34.77 | Pass |
|       | 704   | 1  | 0  | 21.46 | -4.87 | 14.44 | <=34.77 | Pass |
|       |       |    | 25 | 21.51 | -4.87 | 14.49 | <=34.77 | Pass |
|       |       |    | 49 | 21.31 | -4.87 | 14.29 | <=34.77 | Pass |
|       |       | 25 | 0  | 20.29 | -4.87 | 13.27 | <=34.77 | Pass |
|       |       |    | 13 | 20.27 | -4.87 | 13.25 | <=34.77 | Pass |
|       |       |    | 25 | 20.28 | -4.87 | 13.26 | <=34.77 | Pass |
|       |       | 50 | 0  | 20.24 | -4.87 | 13.22 | <=34.77 | Pass |
|       |       |    | 0  | 20.54 | -4.87 | 13.52 | <=34.77 | Pass |
|       |       |    | 25 | 21.01 | -4.87 | 13.99 | <=34.77 | Pass |
| 16QAM | 707.5 | 1  | 49 | 20.90 | -4.87 | 13.88 | <=34.77 | Pass |
|       |       |    | 0  | 20.04 | -4.87 | 13.02 | <=34.77 | Pass |
|       |       |    | 13 | 20.52 | -4.87 | 13.50 | <=34.77 | Pass |
|       |       | 25 | 25 | 20.53 | -4.87 | 13.51 | <=34.77 | Pass |
|       |       |    | 0  | 20.07 | -4.87 | 13.05 | <=34.77 | Pass |
|       |       |    | 0  | 21.84 | -4.87 | 14.82 | <=34.77 | Pass |
|       |       | 1  | 25 | 21.67 | -4.87 | 14.65 | <=34.77 | Pass |
|       |       |    | 49 | 21.84 | -4.87 | 14.82 | <=34.77 | Pass |
|       |       |    | 0  | 20.12 | -4.87 | 13.10 | <=34.77 | Pass |
|       | 711   | 25 | 13 | 20.31 | -4.87 | 13.29 | <=34.77 | Pass |
|       |       |    | 25 | 20.18 | -4.87 | 13.16 | <=34.77 | Pass |
|       |       |    | 0  | 20.26 | -4.87 | 13.24 | <=34.77 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B12\_1.4MHz

| Band: 12 / Bandwidth: 1.4MHz |                 |               |        |            |               |                  |                       |             |         |
|------------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                   | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                              |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                         | 699.7           | 6             | 0      | 20         | 3.27          | -0.501           | -0.0007               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | -1.087           | -0.0016               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.43          | -0.429           | -0.0006               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.85          | -0.501           | -0.0007               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.85          | -0.072           | -0.0001               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.85          | -0.916           | -0.0013               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.85          | -1.702           | -0.0024               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 3.85          | -0.858           | -0.0012               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 3.85          | -0.386           | -0.0006               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 3.85          | -0.701           | -0.0010               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 3.85          | 0.429            | 0.0006                | -2.5 to 2.5 | Pass    |
|                              | 707.5           | 6             | 0      | 20         | 3.27          | -0.715           | -0.0010               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | -1.402           | -0.0020               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.43          | -1.402           | -0.0020               | -2.5 to 2.5 | Pass    |

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|  |       |   |   |     |      |        |         |             |      |
|--|-------|---|---|-----|------|--------|---------|-------------|------|
|  |       |   |   | -30 | 3.85 | -0.401 | -0.0006 | -2.5 to 2.5 | Pass |
|  |       |   |   | -20 | 3.85 | -0.801 | -0.0011 | -2.5 to 2.5 | Pass |
|  |       |   |   | -10 | 3.85 | -1.302 | -0.0018 | -2.5 to 2.5 | Pass |
|  |       |   |   | 0   | 3.85 | -0.501 | -0.0007 | -2.5 to 2.5 | Pass |
|  |       |   |   | 10  | 3.85 | 0.458  | 0.0006  | -2.5 to 2.5 | Pass |
|  |       |   |   | 30  | 3.85 | -0.200 | -0.0003 | -2.5 to 2.5 | Pass |
|  |       |   |   | 40  | 3.85 | -1.488 | -0.0021 | -2.5 to 2.5 | Pass |
|  |       |   |   | 50  | 3.85 | -0.172 | -0.0002 | -2.5 to 2.5 | Pass |
|  | 715.3 | 6 | 0 | 20  | 3.27 | -1.001 | -0.0014 | -2.5 to 2.5 | Pass |
|  |       |   |   |     | 3.85 | -0.200 | -0.0003 | -2.5 to 2.5 | Pass |
|  |       |   |   |     | 4.43 | 0.172  | 0.0002  | -2.5 to 2.5 | Pass |
|  |       |   |   | -30 | 3.85 | -1.373 | -0.0019 | -2.5 to 2.5 | Pass |
|  |       |   |   | -20 | 3.85 | -0.329 | -0.0005 | -2.5 to 2.5 | Pass |
|  |       |   |   | -10 | 3.85 | -0.958 | -0.0013 | -2.5 to 2.5 | Pass |
|  |       |   |   | 0   | 3.85 | -0.486 | -0.0007 | -2.5 to 2.5 | Pass |
|  |       |   |   | 10  | 3.85 | -0.830 | -0.0012 | -2.5 to 2.5 | Pass |
|  |       |   |   | 30  | 3.85 | 0.629  | 0.0009  | -2.5 to 2.5 | Pass |
|  |       |   |   | 40  | 3.85 | -0.472 | -0.0007 | -2.5 to 2.5 | Pass |
|  |       |   |   | 50  | 3.85 | -1.316 | -0.0018 | -2.5 to 2.5 | Pass |
|  | 699.7 | 6 | 0 | 20  | 3.27 | -0.916 | -0.0013 | -2.5 to 2.5 | Pass |
|  |       |   |   |     | 3.85 | -0.515 | -0.0007 | -2.5 to 2.5 | Pass |
|  |       |   |   |     | 4.43 | -0.415 | -0.0006 | -2.5 to 2.5 | Pass |
|  |       |   |   | -30 | 3.85 | -1.330 | -0.0019 | -2.5 to 2.5 | Pass |
|  |       |   |   | -20 | 3.85 | -0.658 | -0.0009 | -2.5 to 2.5 | Pass |
|  |       |   |   | -10 | 3.85 | -1.745 | -0.0025 | -2.5 to 2.5 | Pass |
|  |       |   |   | 0   | 3.85 | -0.901 | -0.0013 | -2.5 to 2.5 | Pass |
|  |       |   |   | 10  | 3.85 | -1.144 | -0.0016 | -2.5 to 2.5 | Pass |
|  |       |   |   | 30  | 3.85 | -0.587 | -0.0008 | -2.5 to 2.5 | Pass |
|  |       |   |   | 40  | 3.85 | -1.888 | -0.0027 | -2.5 to 2.5 | Pass |
|  |       |   |   | 50  | 3.85 | -1.588 | -0.0023 | -2.5 to 2.5 | Pass |
|  | 707.5 | 6 | 0 | 20  | 3.27 | -0.930 | -0.0013 | -2.5 to 2.5 | Pass |
|  |       |   |   |     | 3.85 | 0.100  | 0.0001  | -2.5 to 2.5 | Pass |
|  |       |   |   |     | 4.43 | -0.916 | -0.0013 | -2.5 to 2.5 | Pass |
|  |       |   |   | -30 | 3.85 | 0.973  | 0.0014  | -2.5 to 2.5 | Pass |
|  |       |   |   | -20 | 3.85 | -0.157 | -0.0002 | -2.5 to 2.5 | Pass |
|  |       |   |   | -10 | 3.85 | -0.343 | -0.0005 | -2.5 to 2.5 | Pass |
|  |       |   |   | 0   | 3.85 | -0.486 | -0.0007 | -2.5 to 2.5 | Pass |
|  |       |   |   | 10  | 3.85 | -1.402 | -0.0020 | -2.5 to 2.5 | Pass |
|  |       |   |   | 30  | 3.85 | 0.029  | 0.0000  | -2.5 to 2.5 | Pass |
|  |       |   |   | 40  | 3.85 | 0.944  | 0.0013  | -2.5 to 2.5 | Pass |
|  |       |   |   | 50  | 3.85 | 1.502  | 0.0021  | -2.5 to 2.5 | Pass |
|  | 715.3 | 6 | 0 | 20  | 3.27 | 0.429  | 0.0006  | -2.5 to 2.5 | Pass |
|  |       |   |   |     | 3.85 | -0.057 | -0.0001 | -2.5 to 2.5 | Pass |
|  |       |   |   |     | 4.43 | -0.172 | -0.0002 | -2.5 to 2.5 | Pass |
|  |       |   |   | -30 | 3.85 | 0.057  | 0.0001  | -2.5 to 2.5 | Pass |
|  |       |   |   | -20 | 3.85 | 0.415  | 0.0006  | -2.5 to 2.5 | Pass |
|  |       |   |   | -10 | 3.85 | -0.329 | -0.0005 | -2.5 to 2.5 | Pass |
|  |       |   |   | 0   | 3.85 | -1.359 | -0.0019 | -2.5 to 2.5 | Pass |
|  |       |   |   | 10  | 3.85 | 0.672  | 0.0009  | -2.5 to 2.5 | Pass |
|  |       |   |   | 30  | 3.85 | -0.358 | -0.0005 | -2.5 to 2.5 | Pass |
|  |       |   |   | 40  | 3.85 | -0.215 | -0.0003 | -2.5 to 2.5 | Pass |
|  |       |   |   | 50  | 3.85 | -0.443 | -0.0006 | -2.5 to 2.5 | Pass |

## 2.1.2 B12\_3MHz

| Band: 12 / Bandwidth: 3MHz |           |               |       |         |             |                       |         |
|----------------------------|-----------|---------------|-------|---------|-------------|-----------------------|---------|
| Modulation                 | Frequency | RB Allocation | Temp. | Voltage | Freq. Error | Freq. vs. Rated (ppm) | Verdict |

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|       | (MHz) | Size | Offset | (°C) | (VDC) | (Hz)   | Result  | Limit       |      |
|-------|-------|------|--------|------|-------|--------|---------|-------------|------|
| QPSK  | 700.5 | 15   | 0      | 20   | 3.27  | -2.675 | -0.0038 | -2.5 to 2.5 | Pass |
|       |       |      |        |      | 3.85  | -1.159 | -0.0017 | -2.5 to 2.5 | Pass |
|       |       |      |        |      | 4.43  | -1.245 | -0.0018 | -2.5 to 2.5 | Pass |
|       |       |      |        | -30  | 3.85  | -1.860 | -0.0027 | -2.5 to 2.5 | Pass |
|       |       |      |        | -20  | 3.85  | -0.858 | -0.0012 | -2.5 to 2.5 | Pass |
|       |       |      |        | -10  | 3.85  | -2.060 | -0.0029 | -2.5 to 2.5 | Pass |
|       |       |      |        | 0    | 3.85  | -1.116 | -0.0016 | -2.5 to 2.5 | Pass |
|       |       |      |        | 10   | 3.85  | -1.731 | -0.0025 | -2.5 to 2.5 | Pass |
|       |       |      |        | 30   | 3.85  | -1.874 | -0.0027 | -2.5 to 2.5 | Pass |
|       |       |      |        | 40   | 3.85  | -1.631 | -0.0023 | -2.5 to 2.5 | Pass |
|       |       |      |        | 50   | 3.85  | -0.658 | -0.0009 | -2.5 to 2.5 | Pass |
|       | 707.5 | 15   | 0      | 20   | 3.27  | -0.901 | -0.0013 | -2.5 to 2.5 | Pass |
|       |       |      |        |      | 3.85  | -1.945 | -0.0027 | -2.5 to 2.5 | Pass |
|       |       |      |        |      | 4.43  | -0.672 | -0.0009 | -2.5 to 2.5 | Pass |
|       |       |      |        | -30  | 3.85  | -1.431 | -0.0020 | -2.5 to 2.5 | Pass |
|       |       |      |        | -20  | 3.85  | -0.544 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |      |        | -10  | 3.85  | -0.658 | -0.0009 | -2.5 to 2.5 | Pass |
|       |       |      |        | 0    | 3.85  | -0.343 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |      |        | 10   | 3.85  | -1.216 | -0.0017 | -2.5 to 2.5 | Pass |
|       |       |      |        | 30   | 3.85  | -0.129 | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |      |        | 40   | 3.85  | -0.229 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |      |        | 50   | 3.85  | -1.602 | -0.0023 | -2.5 to 2.5 | Pass |
|       | 714.5 | 15   | 0      | 20   | 3.27  | -0.815 | -0.0011 | -2.5 to 2.5 | Pass |
|       |       |      |        |      | 3.85  | -1.302 | -0.0018 | -2.5 to 2.5 | Pass |
|       |       |      |        |      | 4.43  | 0.815  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |      |        | -30  | 3.85  | -0.973 | -0.0014 | -2.5 to 2.5 | Pass |
|       |       |      |        | -20  | 3.85  | -1.388 | -0.0019 | -2.5 to 2.5 | Pass |
|       |       |      |        | -10  | 3.85  | -1.016 | -0.0014 | -2.5 to 2.5 | Pass |
|       |       |      |        | 0    | 3.85  | 0.973  | 0.0014  | -2.5 to 2.5 | Pass |
|       |       |      |        | 10   | 3.85  | 0.014  | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |      |        | 30   | 3.85  | -2.117 | -0.0030 | -2.5 to 2.5 | Pass |
|       |       |      |        | 40   | 3.85  | 0.601  | 0.0008  | -2.5 to 2.5 | Pass |
| 16QAM | 700.5 | 15   | 0      | 20   | 3.27  | -2.403 | -0.0034 | -2.5 to 2.5 | Pass |
|       |       |      |        |      | 3.85  | -1.187 | -0.0017 | -2.5 to 2.5 | Pass |
|       |       |      |        |      | 4.43  | -1.402 | -0.0020 | -2.5 to 2.5 | Pass |
|       |       |      |        | -30  | 3.85  | -1.016 | -0.0015 | -2.5 to 2.5 | Pass |
|       |       |      |        | -20  | 3.85  | -1.273 | -0.0018 | -2.5 to 2.5 | Pass |
|       |       |      |        | -10  | 3.85  | -1.645 | -0.0023 | -2.5 to 2.5 | Pass |
|       |       |      |        | 0    | 3.85  | -2.303 | -0.0033 | -2.5 to 2.5 | Pass |
|       |       |      |        | 10   | 3.85  | -2.575 | -0.0037 | -2.5 to 2.5 | Pass |
|       |       |      |        | 30   | 3.85  | -0.787 | -0.0011 | -2.5 to 2.5 | Pass |
|       |       |      |        | 40   | 3.85  | -1.245 | -0.0018 | -2.5 to 2.5 | Pass |
|       |       |      |        | 50   | 3.85  | -1.788 | -0.0026 | -2.5 to 2.5 | Pass |
|       | 707.5 | 15   | 0      | 20   | 3.27  | -0.973 | -0.0014 | -2.5 to 2.5 | Pass |
|       |       |      |        |      | 3.85  | -1.473 | -0.0021 | -2.5 to 2.5 | Pass |
|       |       |      |        |      | 4.43  | -0.830 | -0.0012 | -2.5 to 2.5 | Pass |
|       |       |      |        | -30  | 3.85  | -1.187 | -0.0017 | -2.5 to 2.5 | Pass |
|       |       |      |        | -20  | 3.85  | -0.629 | -0.0009 | -2.5 to 2.5 | Pass |
|       |       |      |        | -10  | 3.85  | -1.731 | -0.0024 | -2.5 to 2.5 | Pass |
|       |       |      |        | 0    | 3.85  | -0.787 | -0.0011 | -2.5 to 2.5 | Pass |
|       |       |      |        | 10   | 3.85  | -1.845 | -0.0026 | -2.5 to 2.5 | Pass |
|       |       |      |        | 30   | 3.85  | -2.103 | -0.0030 | -2.5 to 2.5 | Pass |
|       |       |      |        | 40   | 3.85  | -0.987 | -0.0014 | -2.5 to 2.5 | Pass |
|       |       |      |        | 50   | 3.85  | -0.987 | -0.0014 | -2.5 to 2.5 | Pass |
|       | 714.5 | 15   | 0      | 20   | 3.27  | -0.072 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |      |        |      | 3.85  | -0.744 | -0.0010 | -2.5 to 2.5 | Pass |

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|  |  |  |  |     |      |        |         |             |      |
|--|--|--|--|-----|------|--------|---------|-------------|------|
|  |  |  |  |     | 4.43 | -1.588 | -0.0022 | -2.5 to 2.5 | Pass |
|  |  |  |  | -30 | 3.85 | -1.101 | -0.0015 | -2.5 to 2.5 | Pass |
|  |  |  |  | -20 | 3.85 | -0.629 | -0.0009 | -2.5 to 2.5 | Pass |
|  |  |  |  | -10 | 3.85 | -0.429 | -0.0006 | -2.5 to 2.5 | Pass |
|  |  |  |  | 0   | 3.85 | 0.515  | 0.0007  | -2.5 to 2.5 | Pass |
|  |  |  |  | 10  | 3.85 | -0.687 | -0.0010 | -2.5 to 2.5 | Pass |
|  |  |  |  | 30  | 3.85 | -1.159 | -0.0016 | -2.5 to 2.5 | Pass |
|  |  |  |  | 40  | 3.85 | 0.329  | 0.0005  | -2.5 to 2.5 | Pass |
|  |  |  |  | 50  | 3.85 | 0.401  | 0.0006  | -2.5 to 2.5 | Pass |

## 2.1.3 B12\_5MHz

| Band: 12 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 701.5           | 25            | 0      | 20         | 3.27          | -1.216           | -0.0017               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | 0.057            | 0.0001                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -1.216           | -0.0017               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -1.287           | -0.0018               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -0.286           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -0.143           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -0.286           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -0.916           | -0.0013               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -0.787           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | 0.415            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | -0.715           | -0.0010               | -2.5 to 2.5 | Pass    |
|                            | 707.5           | 25            | 0      | 20         | 3.27          | -1.016           | -0.0014               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -1.388           | -0.0020               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -0.587           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -0.672           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -0.415           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -1.230           | -0.0017               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -0.844           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -0.443           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -1.016           | -0.0014               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -0.129           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | -0.243           | -0.0003               | -2.5 to 2.5 | Pass    |
|                            | 713.5           | 25            | 0      | 20         | 3.27          | -0.858           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -1.574           | -0.0022               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -1.974           | -0.0028               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -0.143           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -0.758           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -1.445           | -0.0020               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -1.574           | -0.0022               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -1.545           | -0.0022               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -1.473           | -0.0021               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -1.230           | -0.0017               | -2.5 to 2.5 | Pass    |
| 16QAM                      | 701.5           | 25            | 0      | 20         | 3.27          | -1.402           | -0.0020               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -1.631           | -0.0023               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -1.030           | -0.0015               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | 0.229            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | 0.458            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | 0.072            | 0.0001                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -0.272           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | 0.658            | 0.0009                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | 0.744            | 0.0011                | -2.5 to 2.5 | Pass    |

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|  |       |    |   |     |      |        |         |             |      |
|--|-------|----|---|-----|------|--------|---------|-------------|------|
|  |       |    |   | 40  | 3.85 | -1.302 | -0.0019 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 3.85 | 0.057  | 0.0001  | -2.5 to 2.5 | Pass |
|  |       |    |   | 20  | 3.27 | 0.072  | 0.0001  | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 3.85 | -0.830 | -0.0012 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 4.43 | 1.187  | 0.0017  | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 3.85 | 0.515  | 0.0007  | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 3.85 | -0.715 | -0.0010 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 3.85 | -1.173 | -0.0017 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 3.85 | -1.903 | -0.0027 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 3.85 | -0.086 | -0.0001 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 3.85 | -0.443 | -0.0006 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 3.85 | -1.202 | -0.0017 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 3.85 | -0.429 | -0.0006 | -2.5 to 2.5 | Pass |
|  | 713.5 | 25 | 0 | 20  | 3.27 | -1.860 | -0.0026 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 3.85 | -1.116 | -0.0016 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 4.43 | -0.987 | -0.0014 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 3.85 | -0.486 | -0.0007 | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 3.85 | -0.672 | -0.0009 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 3.85 | -0.730 | -0.0010 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 3.85 | -0.043 | -0.0001 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 3.85 | -1.416 | -0.0020 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 3.85 | -0.587 | -0.0008 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 3.85 | -0.644 | -0.0009 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 3.85 | -1.030 | -0.0014 | -2.5 to 2.5 | Pass |

## 2.1.4 B12\_10MHz

| Band: 12 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 704             | 50            | 0      | 20         | 3.27          | -0.401           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 0.186            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 4.43          | -0.257           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 0.272            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | 0.787            | 0.0011                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -0.157           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -0.343           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | 0.257            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -0.916           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -0.458           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | 0.443            | 0.0006                | -2.5 to 2.5 | Pass    |
|                             | 707.5           | 50            | 0      | 20         | 3.27          | -0.901           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -0.286           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 4.43          | -1.116           | -0.0016               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 0.057            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -1.044           | -0.0015               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | 0.029            | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -1.259           | -0.0018               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | 0.215            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -0.658           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | 0.057            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -1.059           | -0.0015               | -2.5 to 2.5 | Pass    |
|                             | 711             | 50            | 0      | 20         | 3.27          | -1.974           | -0.0028               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -0.730           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 4.43          | -0.844           | -0.0012               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -1.845           | -0.0026               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -2.460           | -0.0035               | -2.5 to 2.5 | Pass    |

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|       |      |        |         |       |        |         |         |             |        |
|-------|------|--------|---------|-------|--------|---------|---------|-------------|--------|
|       |      |        |         | -10   | 3.85   | -2.532  | -0.0036 | -2.5 to 2.5 | Pass   |
|       |      |        |         | 0     | 3.85   | -1.588  | -0.0022 | -2.5 to 2.5 | Pass   |
|       |      |        |         | 10    | 3.85   | -1.731  | -0.0024 | -2.5 to 2.5 | Pass   |
|       |      |        |         | 30    | 3.85   | -2.131  | -0.0030 | -2.5 to 2.5 | Pass   |
|       |      |        |         | 40    | 3.85   | -1.144  | -0.0016 | -2.5 to 2.5 | Pass   |
|       |      |        |         | 50    | 3.85   | -0.601  | -0.0008 | -2.5 to 2.5 | Pass   |
| 16QAM | 704  | 50     | 0       | 20    | 3.27   | 0.257   | 0.0004  | -2.5 to 2.5 | Pass   |
|       |      |        |         |       | 3.85   | -0.801  | -0.0011 | -2.5 to 2.5 | Pass   |
|       |      |        |         |       | 4.43   | -0.601  | -0.0009 | -2.5 to 2.5 | Pass   |
|       |      |        |         | -30   | 3.85   | -0.272  | -0.0004 | -2.5 to 2.5 | Pass   |
|       |      |        |         | -20   | 3.85   | 0.315   | 0.0004  | -2.5 to 2.5 | Pass   |
|       |      |        |         | -10   | 3.85   | 0.114   | 0.0002  | -2.5 to 2.5 | Pass   |
|       |      |        |         | 0     | 3.85   | 0.672   | 0.0010  | -2.5 to 2.5 | Pass   |
|       |      |        |         | 10    | 3.85   | -0.529  | -0.0008 | -2.5 to 2.5 | Pass   |
|       |      |        |         | 30    | 3.85   | -0.372  | -0.0005 | -2.5 to 2.5 | Pass   |
|       |      |        |         | 40    | 3.85   | -0.558  | -0.0008 | -2.5 to 2.5 | Pass   |
|       |      |        |         | 50    | 3.85   | -0.587  | -0.0008 | -2.5 to 2.5 | Pass   |
|       |      |        |         | 707.5 | 50     | 0       | 20      | 3.27        | -0.186 |
|       | 3.85 | -0.830 | -0.0012 |       |        |         |         | -2.5 to 2.5 | Pass   |
|       | 4.43 | -0.844 | -0.0012 |       |        |         |         | -2.5 to 2.5 | Pass   |
|       | -30  | 3.85   | -1.259  |       |        |         | -0.0018 | -2.5 to 2.5 | Pass   |
|       | -20  | 3.85   | -1.488  |       |        |         | -0.0021 | -2.5 to 2.5 | Pass   |
|       | -10  | 3.85   | -0.644  |       |        |         | -0.0009 | -2.5 to 2.5 | Pass   |
|       | 0    | 3.85   | 0.744   |       |        |         | 0.0011  | -2.5 to 2.5 | Pass   |
|       | 10   | 3.85   | 0.072   |       |        |         | 0.0001  | -2.5 to 2.5 | Pass   |
|       | 30   | 3.85   | 0.157   |       |        |         | 0.0002  | -2.5 to 2.5 | Pass   |
|       | 40   | 3.85   | -1.187  |       |        |         | -0.0017 | -2.5 to 2.5 | Pass   |
|       | 50   | 3.85   | -0.730  |       |        |         | -0.0010 | -2.5 to 2.5 | Pass   |
|       | 711  | 50     | 0       |       |        |         | 20      | 3.27        | -0.372 |
|       |      |        |         | 3.85  | -1.302 | -0.0018 |         | -2.5 to 2.5 | Pass   |
|       |      |        |         | 4.43  | -2.003 | -0.0028 |         | -2.5 to 2.5 | Pass   |
|       |      |        |         | -30   | 3.85   | -2.732  | -0.0038 | -2.5 to 2.5 | Pass   |
|       |      |        |         | -20   | 3.85   | -1.473  | -0.0021 | -2.5 to 2.5 | Pass   |
|       |      |        |         | -10   | 3.85   | -2.432  | -0.0034 | -2.5 to 2.5 | Pass   |
|       |      |        |         | 0     | 3.85   | -1.216  | -0.0017 | -2.5 to 2.5 | Pass   |
|       |      |        |         | 10    | 3.85   | -2.074  | -0.0029 | -2.5 to 2.5 | Pass   |
|       |      |        |         | 30    | 3.85   | -1.445  | -0.0020 | -2.5 to 2.5 | Pass   |
|       |      |        |         | 40    | 3.85   | -1.101  | -0.0015 | -2.5 to 2.5 | Pass   |
|       |      |        |         | 50    | 3.85   | -1.888  | -0.0027 | -2.5 to 2.5 | Pass   |

### 3. Modulation Characteristics

#### 3.1 Test Result

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

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

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**3.1.2 B12\_3MHz**

| Band: 12 / Bandwidth: 3MHz / NTV |                 |               |        |                            |       |         |
|----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Modulation Characteristics |       | Verdict |
|                                  |                 | Size          | Offset | Result                     | Limit |         |
| QPSK                             | 707.5           | 15            | 0      | Refer To Test Graph        |       | Pass    |
| 16QAM                            | 707.5           | 15            | 0      | Refer To Test Graph        |       | Pass    |

**3.1.3 B12\_5MHz**

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

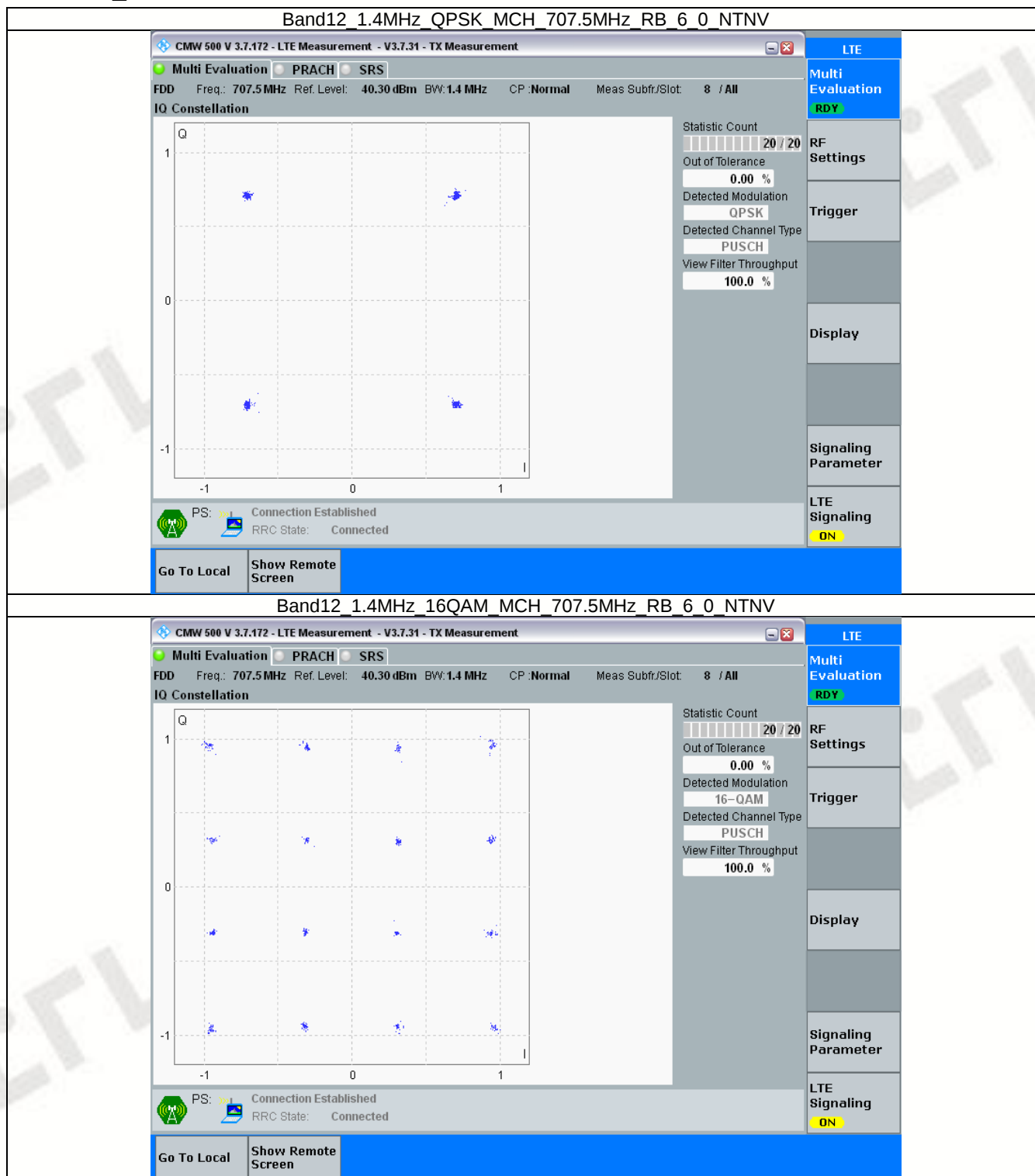
**3.1.4 B12\_10MHz**

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

FCCID: 2BCUE-P8GLOBAL

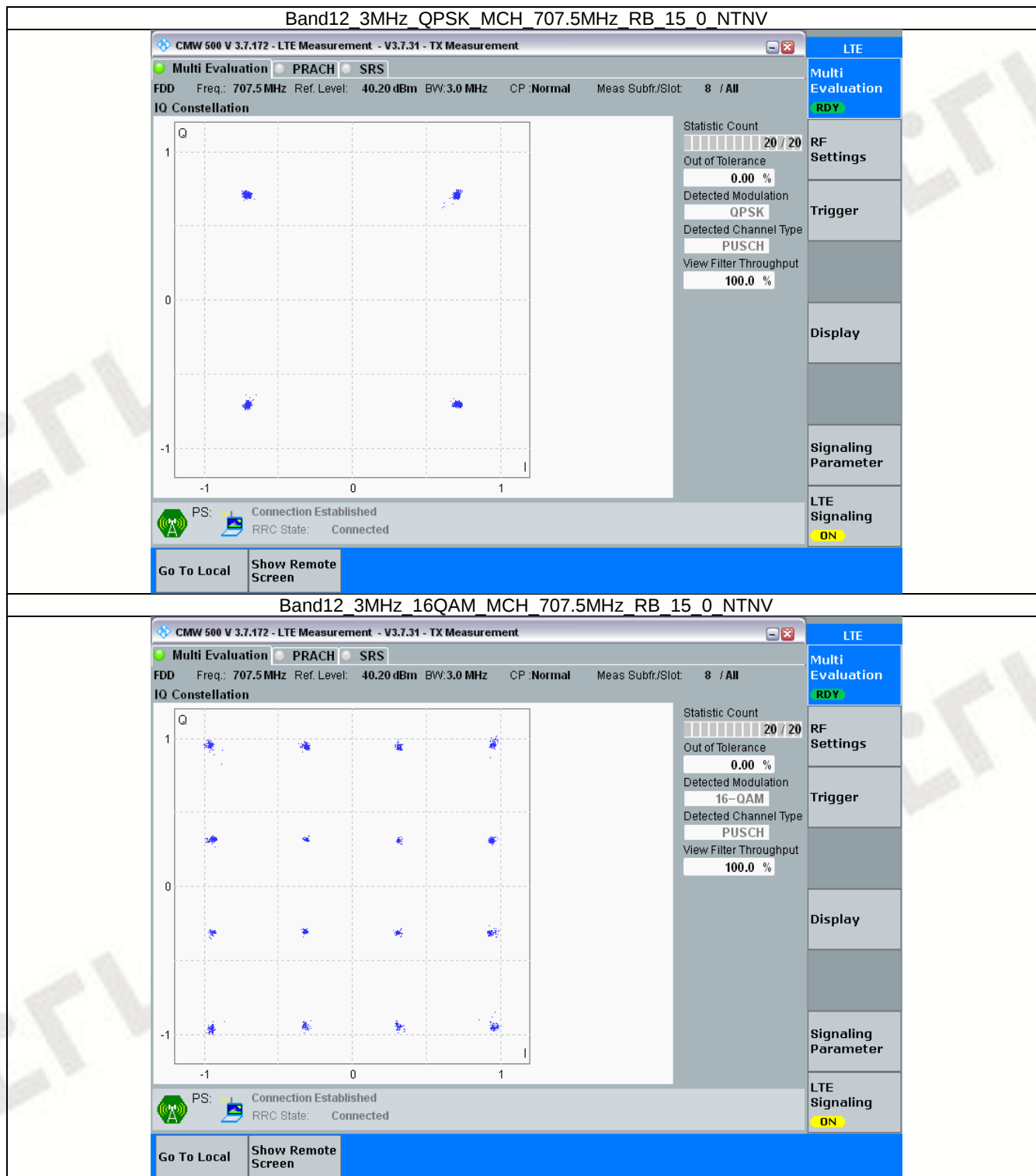
### 3.2 Test Graph

#### 3.2.1 B12\_1.4MHz



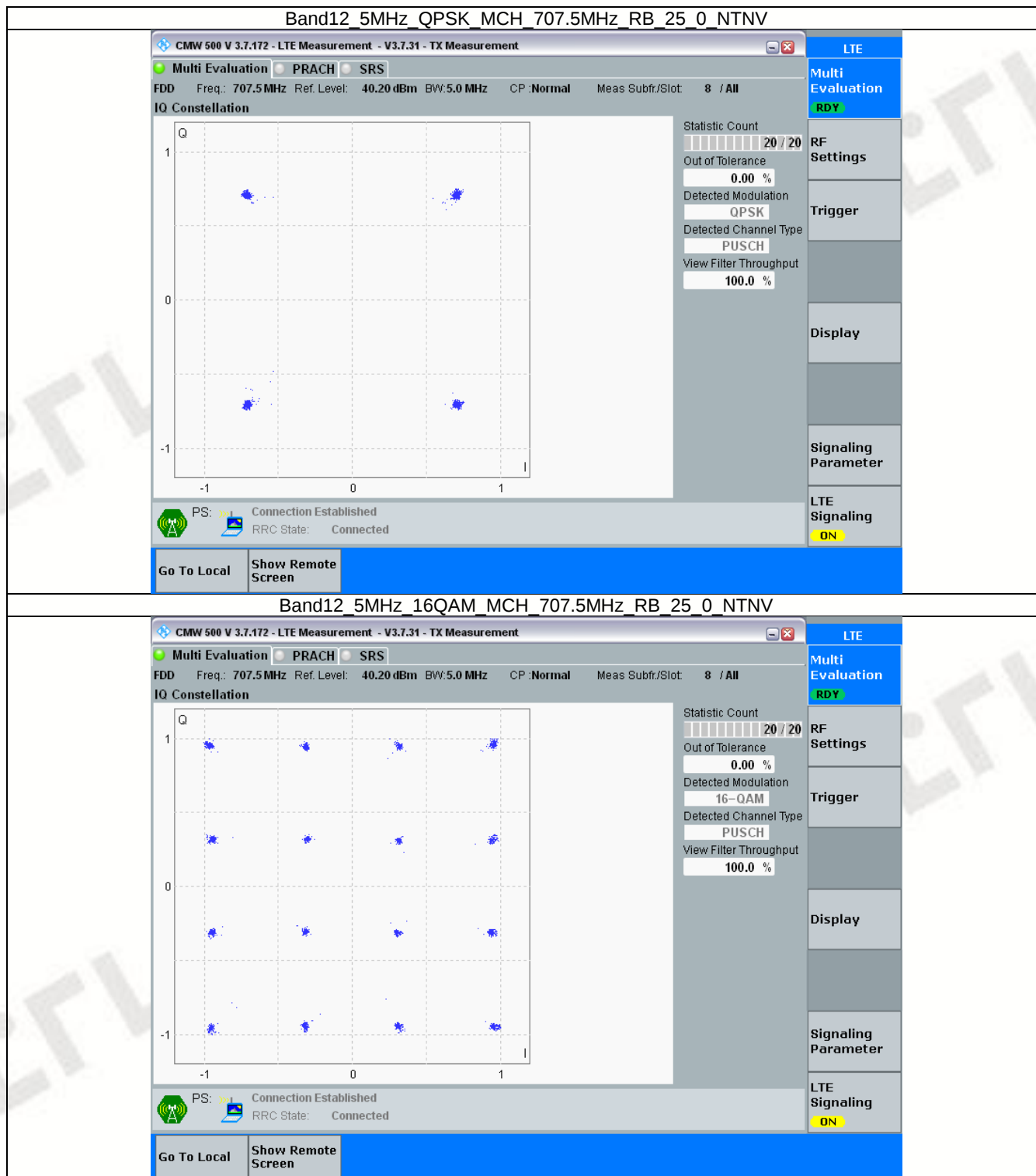
FCCID: 2BCUE-P8GLOBAL

## 3.2.2 B12\_3MHz



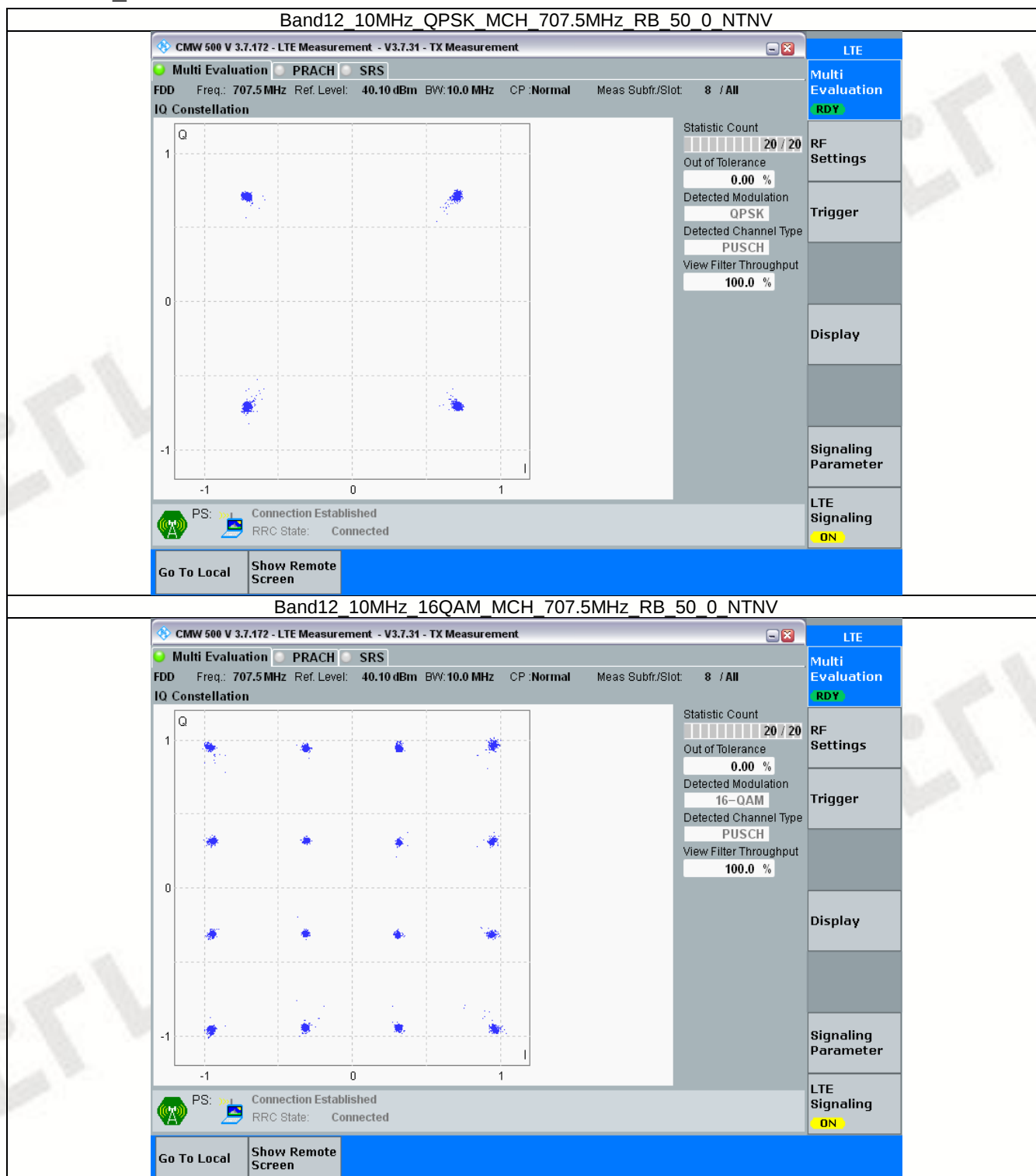
FCCID: 2BCUE-P8GLOBAL

## 3.2.3 B12\_5MHz



FCCID: 2BCUE-P8GLOBAL

## 3.2.4 B12\_10MHz



## 4. 99% & 26dB Bandwidth

### 4.1 Test Result

#### 4.1.1 Band12\_OBW

| Band: 12 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 1.4             | QPSK       | 699.7           | 6             | 0      | 1.120                        | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.118                        | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.123                        | /     | Pass    |
|                 | 16QAM      | 699.7           | 6             | 0      | 1.114                        | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.112                        | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.107                        | /     | Pass    |
| 3               | QPSK       | 700.5           | 15            | 0      | 2.744                        | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.748                        | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.750                        | /     | Pass    |
|                 | 16QAM      | 700.5           | 15            | 0      | 2.736                        | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.735                        | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.732                        | /     | Pass    |
| 5               | QPSK       | 701.5           | 25            | 0      | 4.565                        | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 4.559                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.532                        | /     | Pass    |
|                 | 16QAM      | 701.5           | 25            | 0      | 4.535                        | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 4.569                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.563                        | /     | Pass    |
| 10              | QPSK       | 704             | 50            | 0      | 9.100                        | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 9.106                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 8.964                        | /     | Pass    |
|                 | 16QAM      | 704             | 50            | 0      | 9.076                        | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 9.055                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 8.983                        | /     | Pass    |

#### 4.1.2 Band12\_XDB

| Band: 12 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 1.4             | QPSK       | 699.7           | 6             | 0      | 1.310                | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.320                | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.313                | /     | Pass    |
|                 | 16QAM      | 699.7           | 6             | 0      | 1.338                | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.316                | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.329                | /     | Pass    |
| 3               | QPSK       | 700.5           | 15            | 0      | 3.053                | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 3.052                | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 3.053                | /     | Pass    |
|                 | 16QAM      | 700.5           | 15            | 0      | 3.023                | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 3.062                | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 3.039                | /     | Pass    |
| 5               | QPSK       | 701.5           | 25            | 0      | 5.082                | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 5.076                | /     | Pass    |

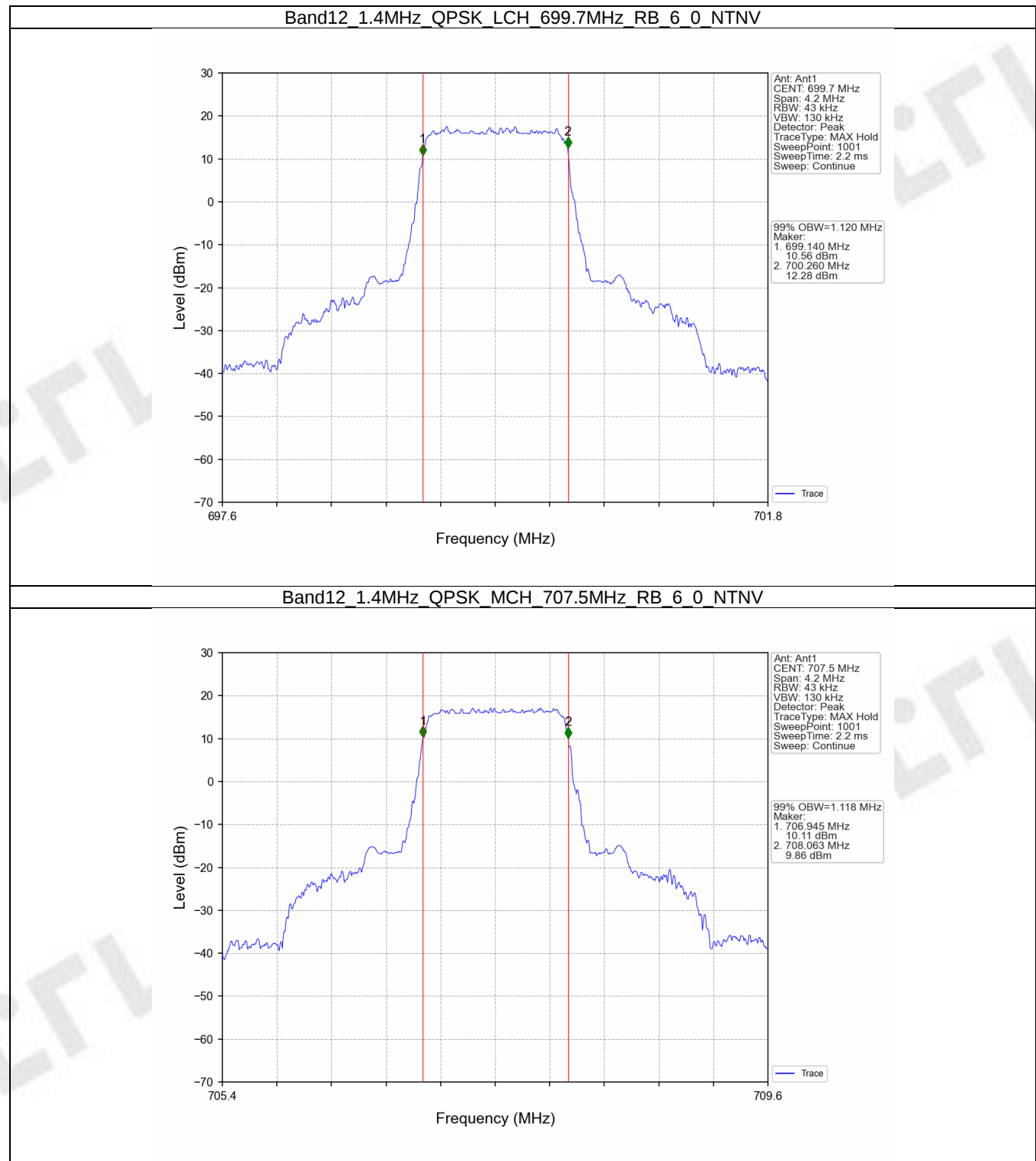
FCCID: 2BCUE-P8GLOBAL

|    |       |       |    |   |        |   |      |
|----|-------|-------|----|---|--------|---|------|
|    | 16QAM | 713.5 | 25 | 0 | 5.073  | / | Pass |
|    |       | 701.5 | 25 | 0 | 5.094  | / | Pass |
|    |       | 707.5 | 25 | 0 | 5.103  | / | Pass |
|    |       | 713.5 | 25 | 0 | 5.098  | / | Pass |
| 10 | QPSK  | 704   | 50 | 0 | 10.140 | / | Pass |
|    |       | 707.5 | 50 | 0 | 9.961  | / | Pass |
|    |       | 711   | 50 | 0 | 10.019 | / | Pass |
|    | 16QAM | 704   | 50 | 0 | 10.035 | / | Pass |
|    |       | 707.5 | 50 | 0 | 9.983  | / | Pass |
|    |       | 711   | 50 | 0 | 9.922  | / | Pass |

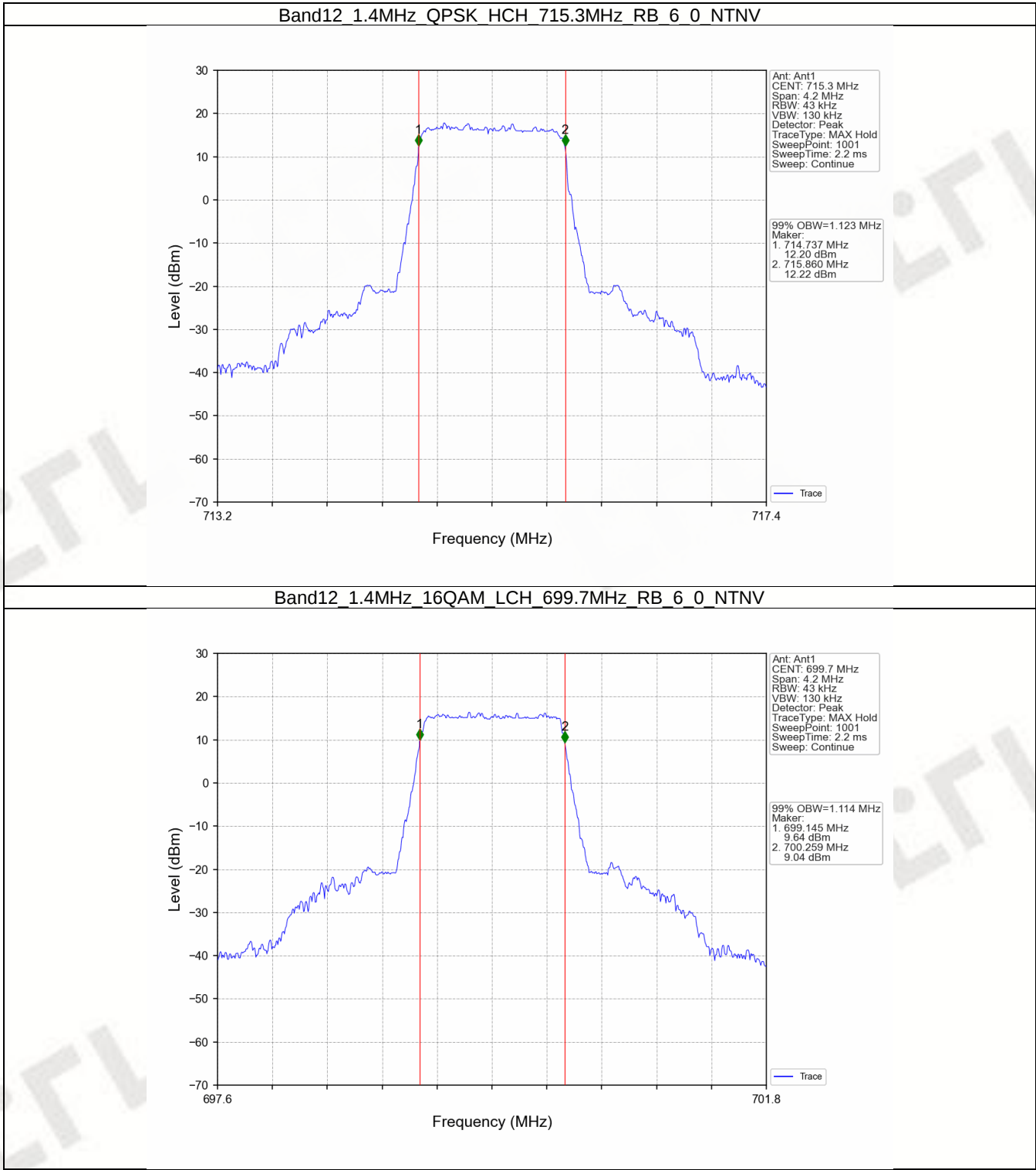
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## 4.2 Test Graph

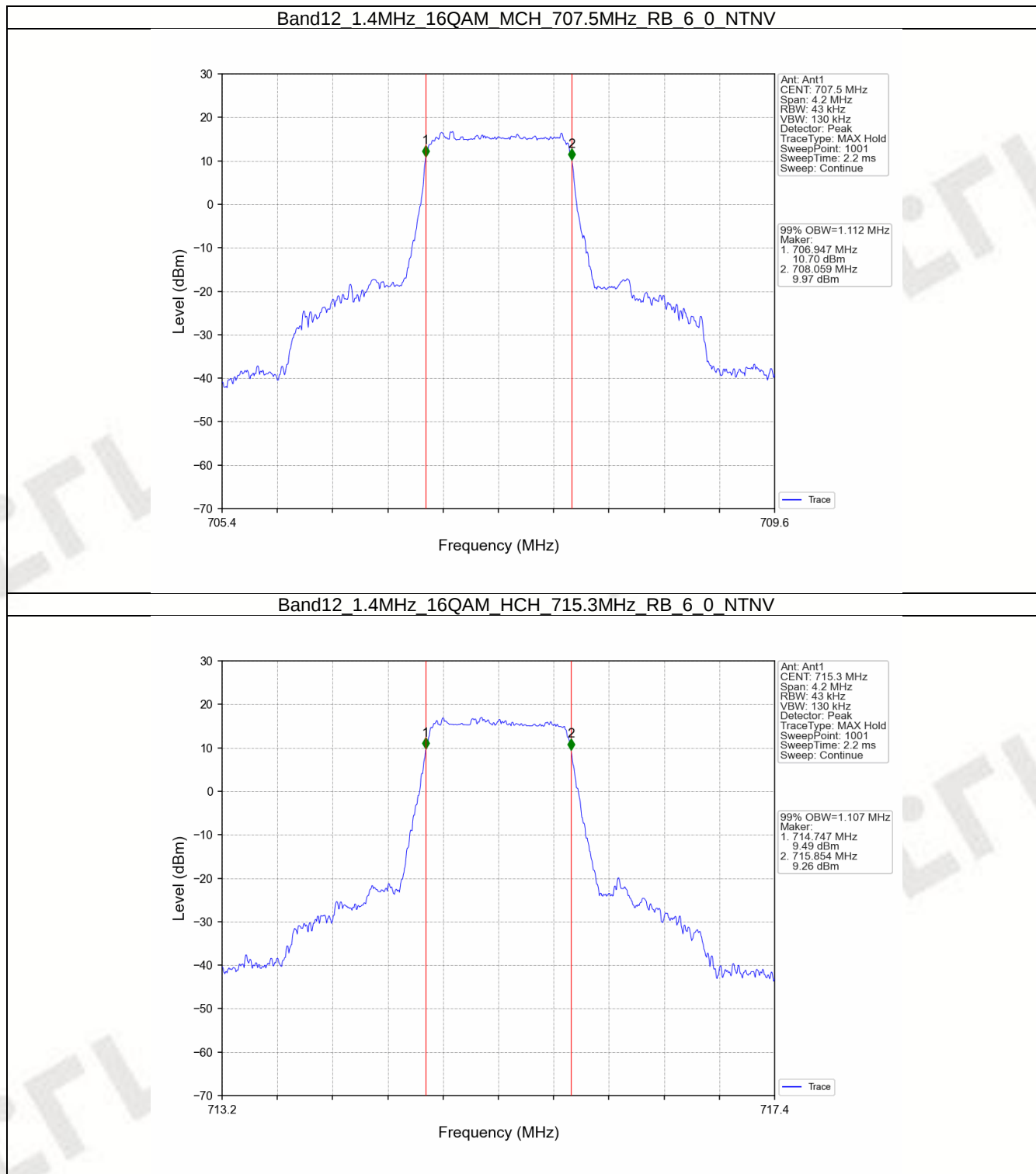
### 4.2.1 Band12\_OBW



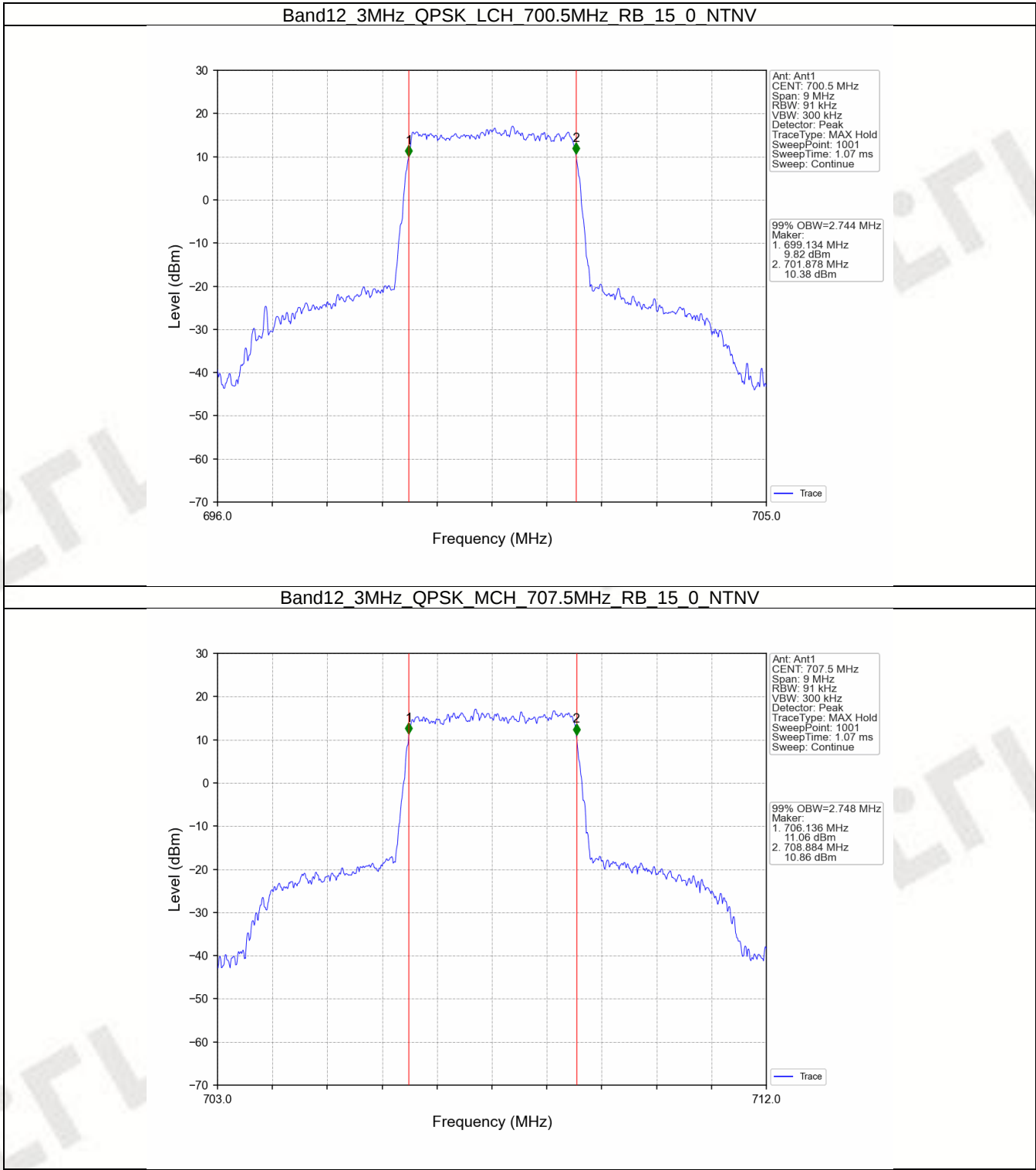
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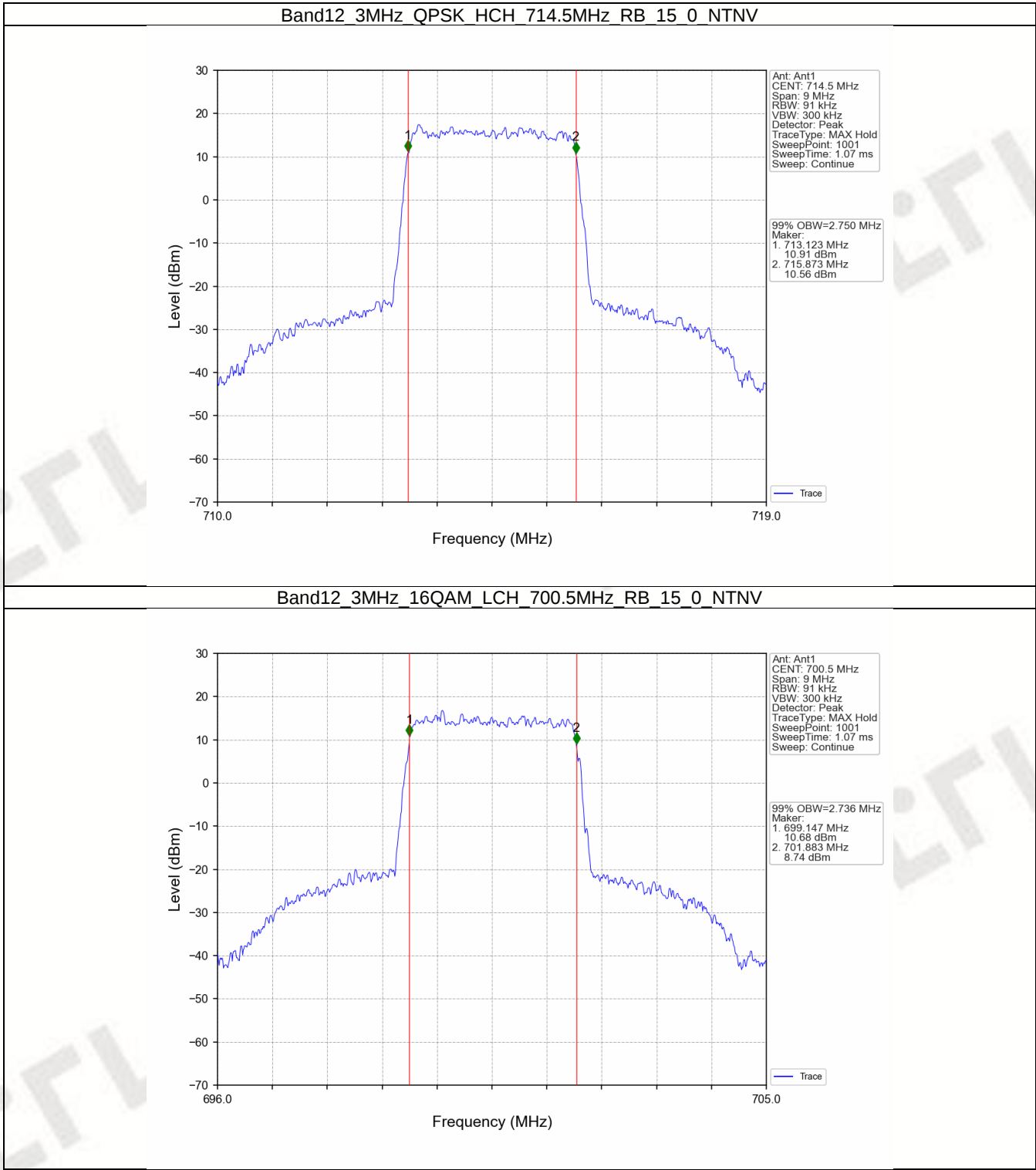
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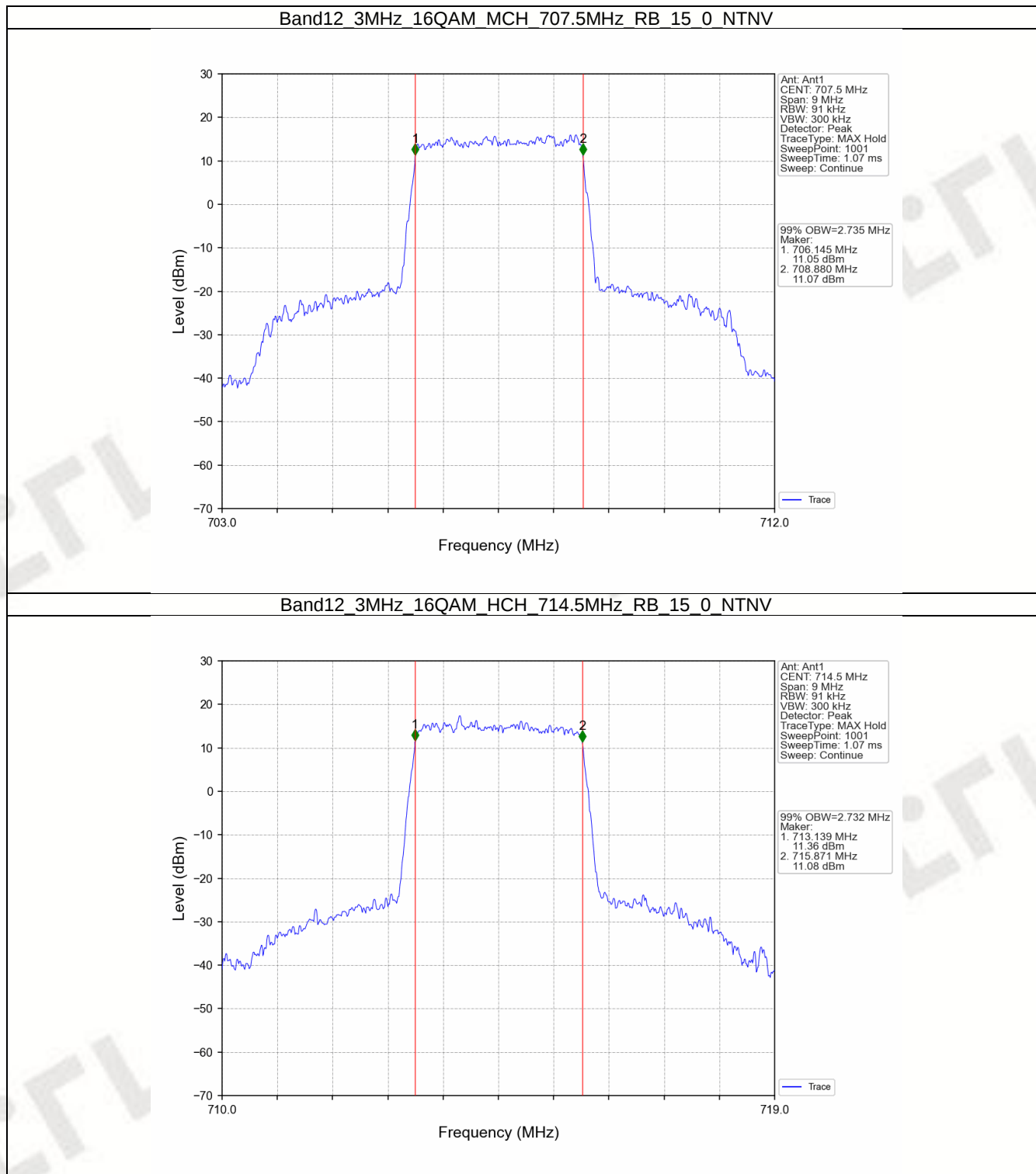
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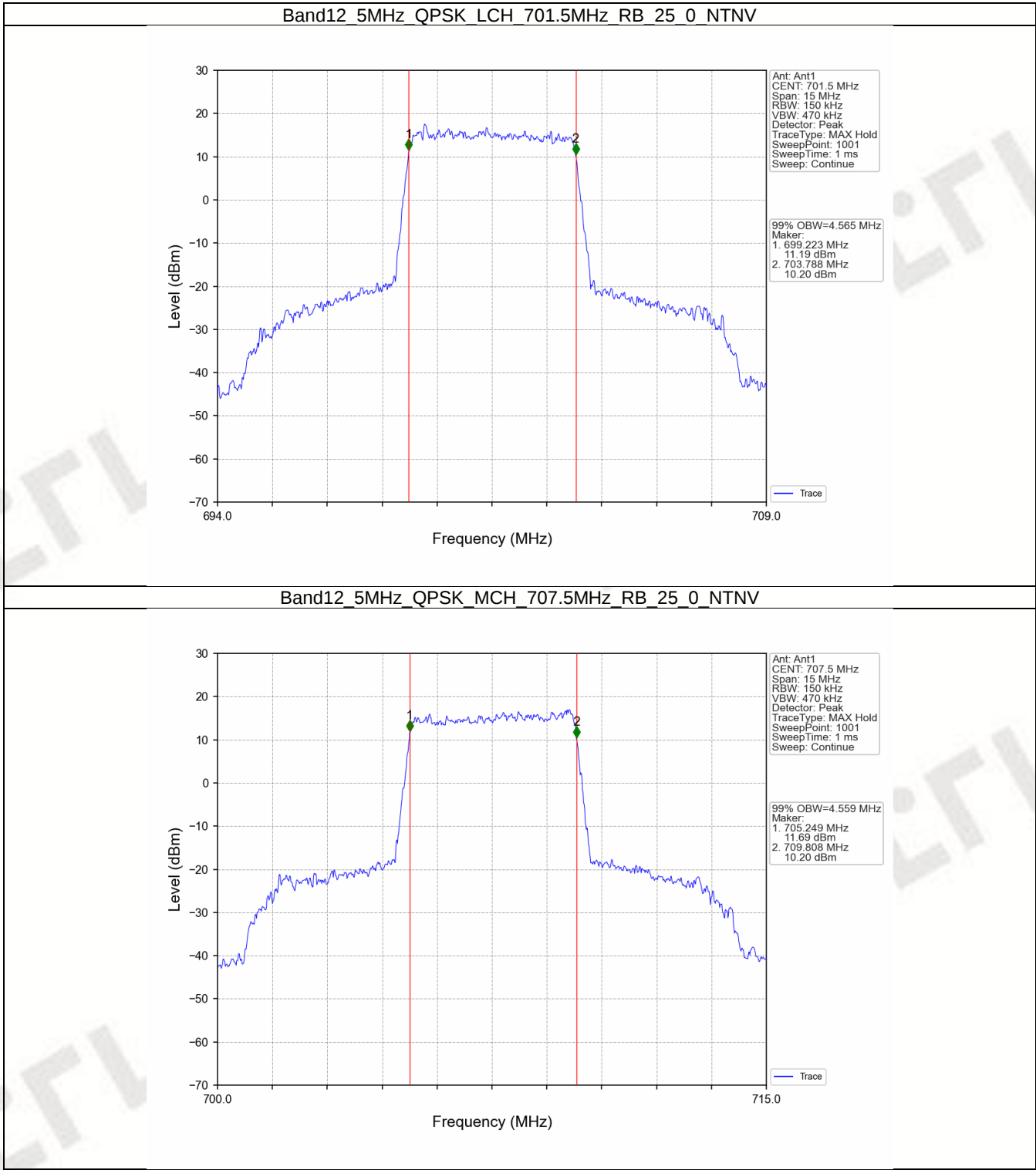
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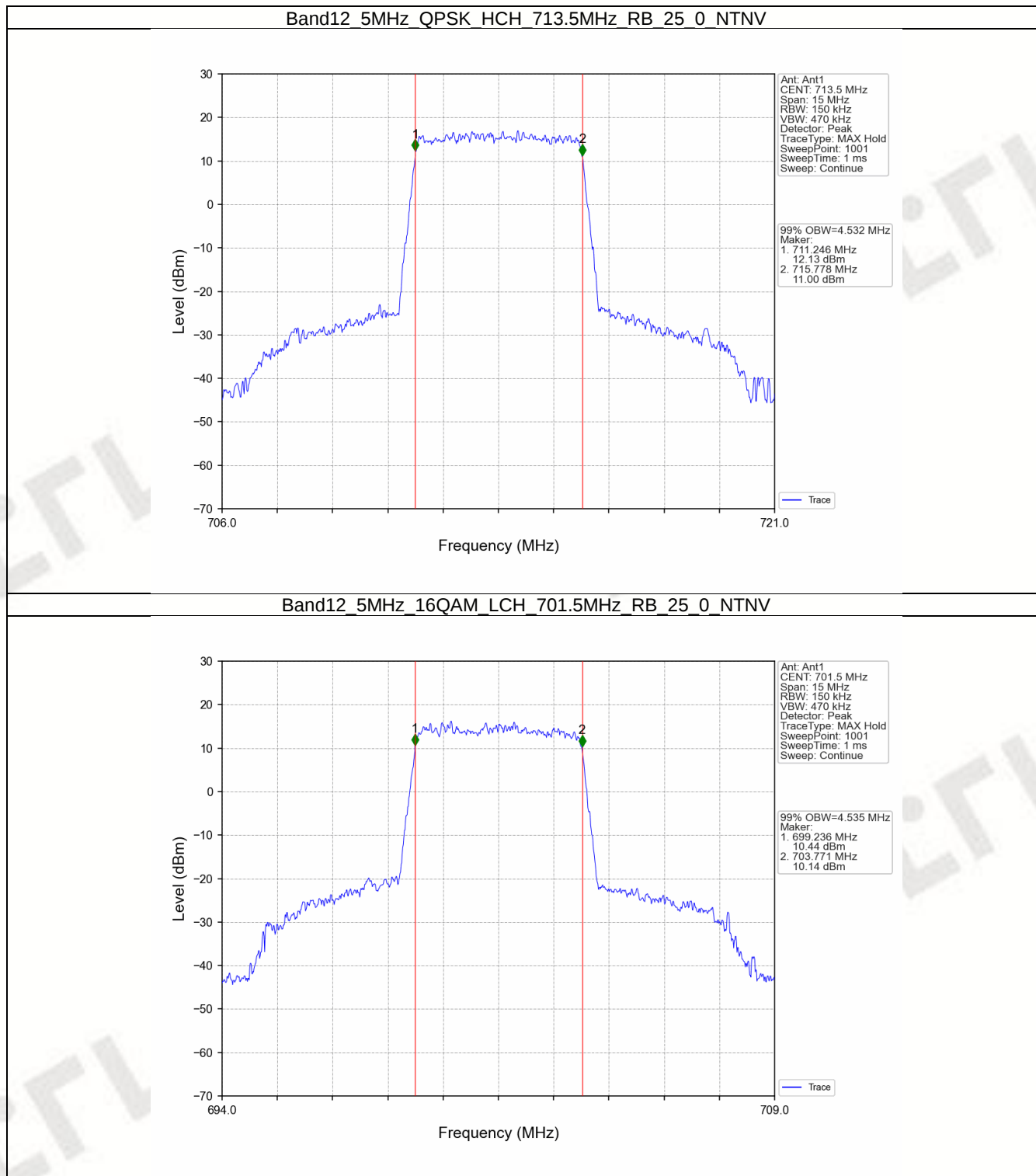
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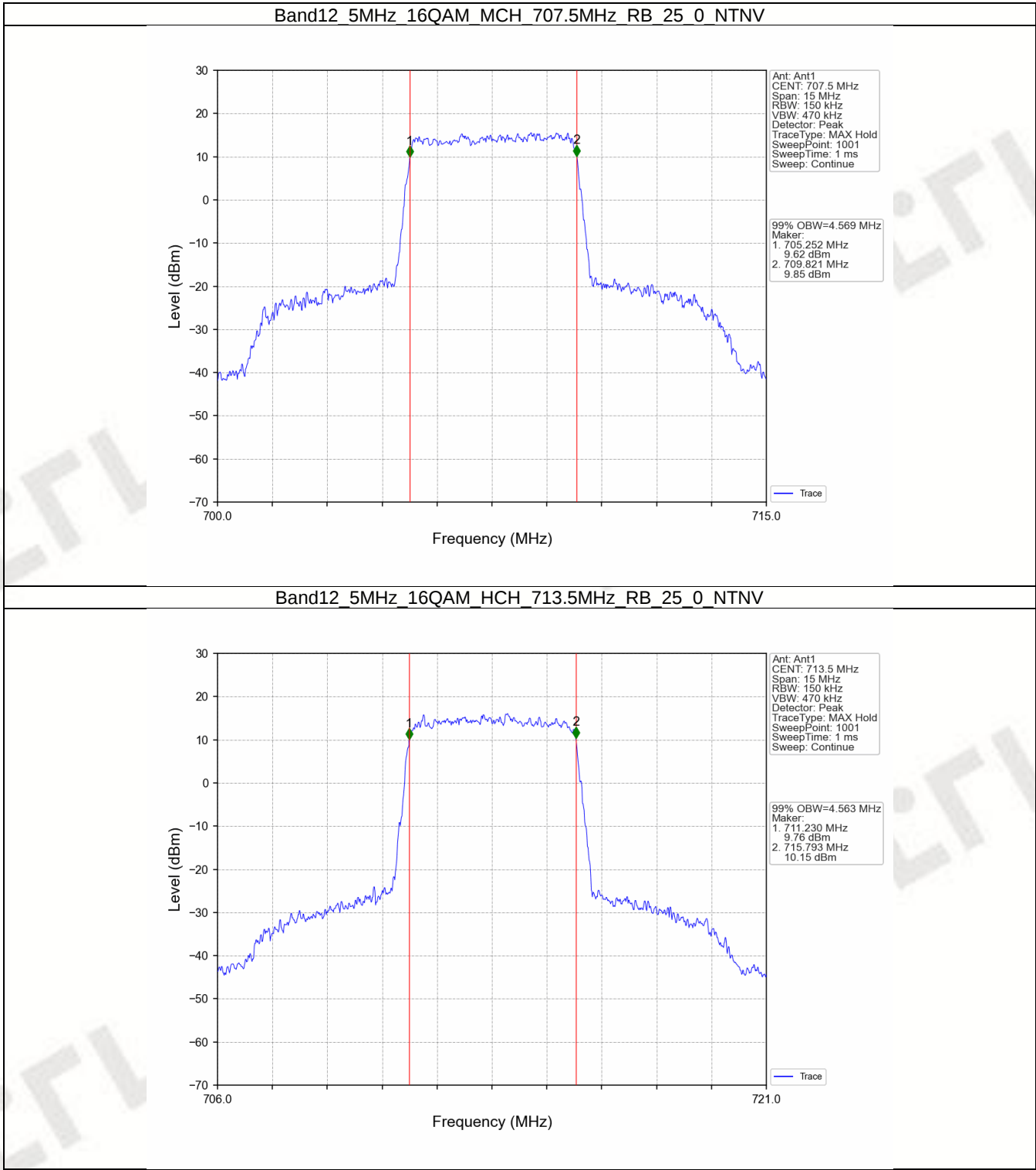
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FCCID: 2BCUE-P8GLOBAL

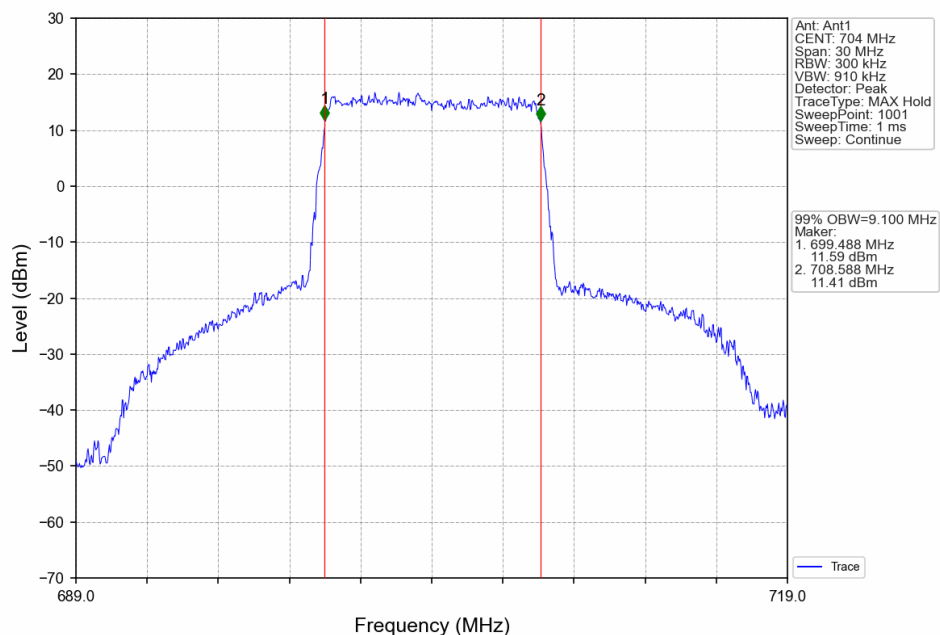


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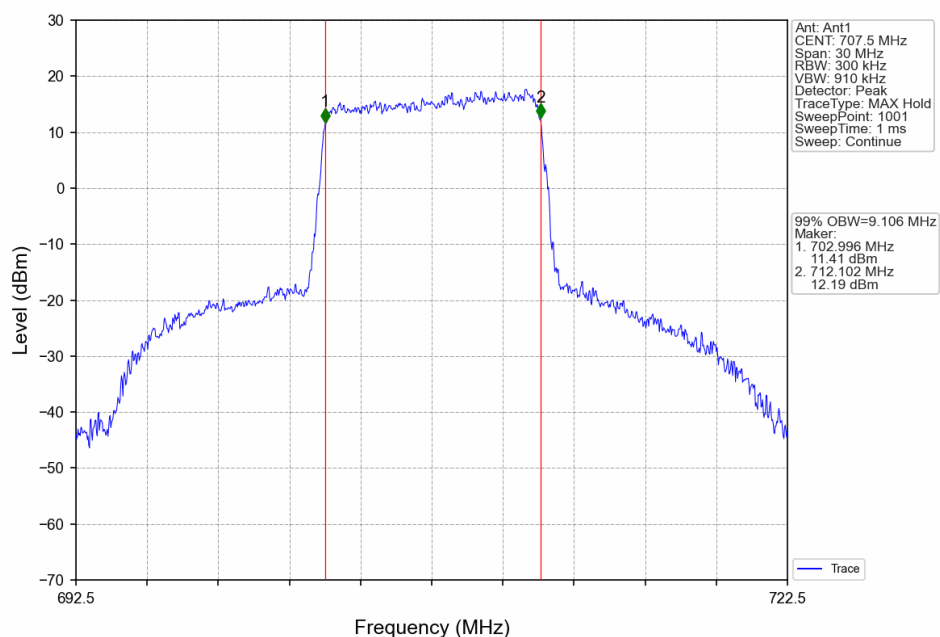


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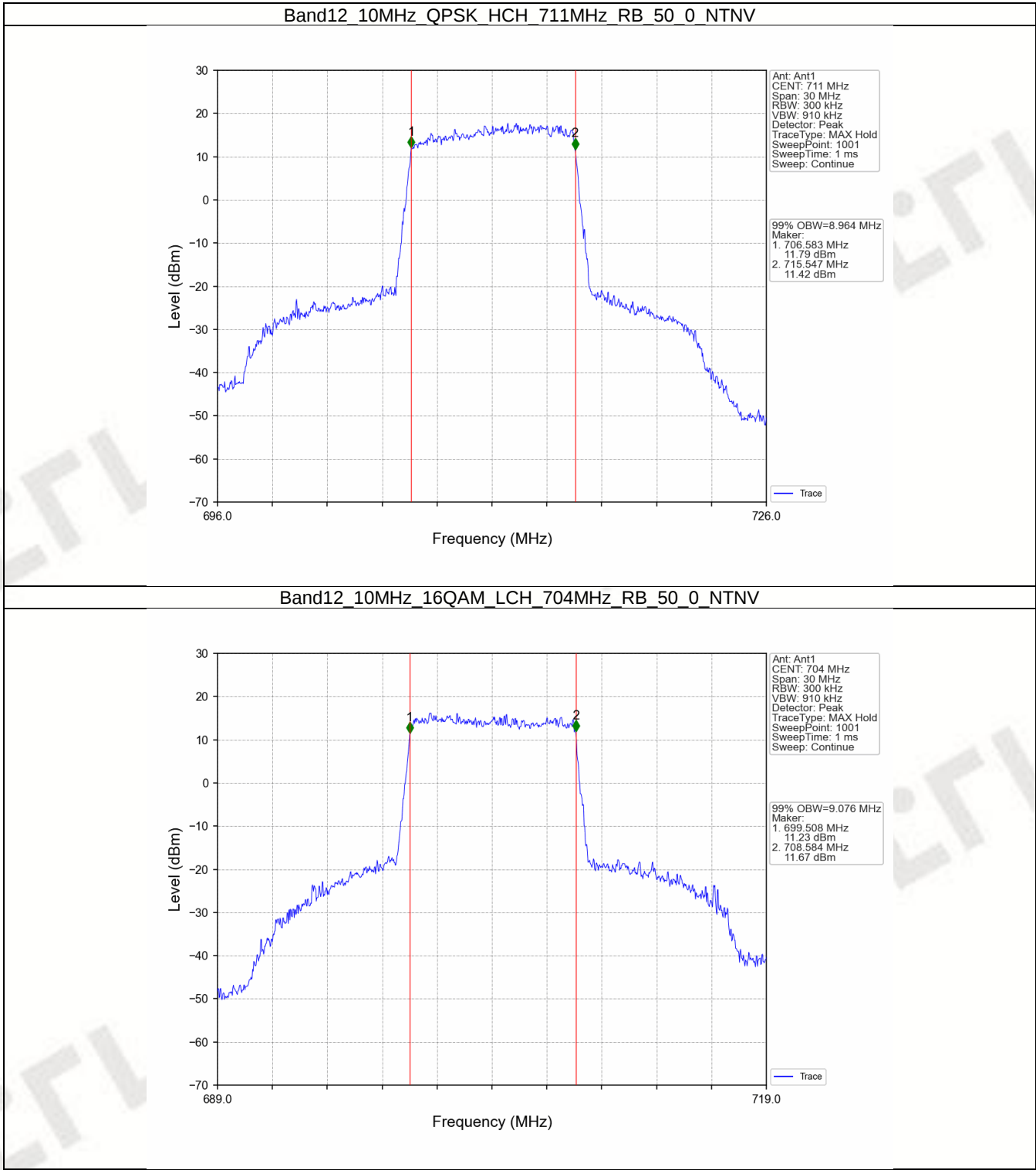
Band12 10MHz QPSK LCH 704MHz RB 50 0 NTN



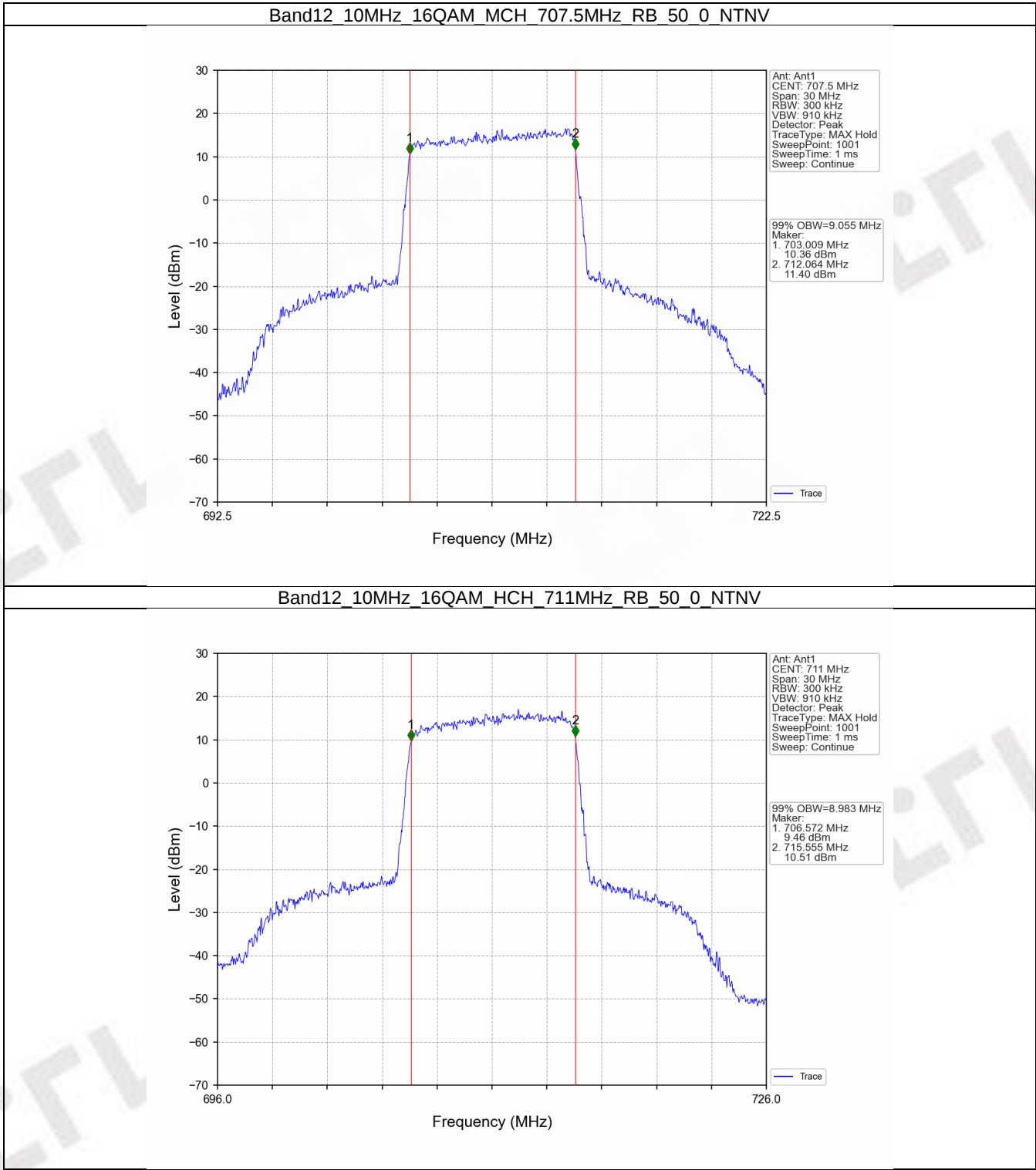
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTN



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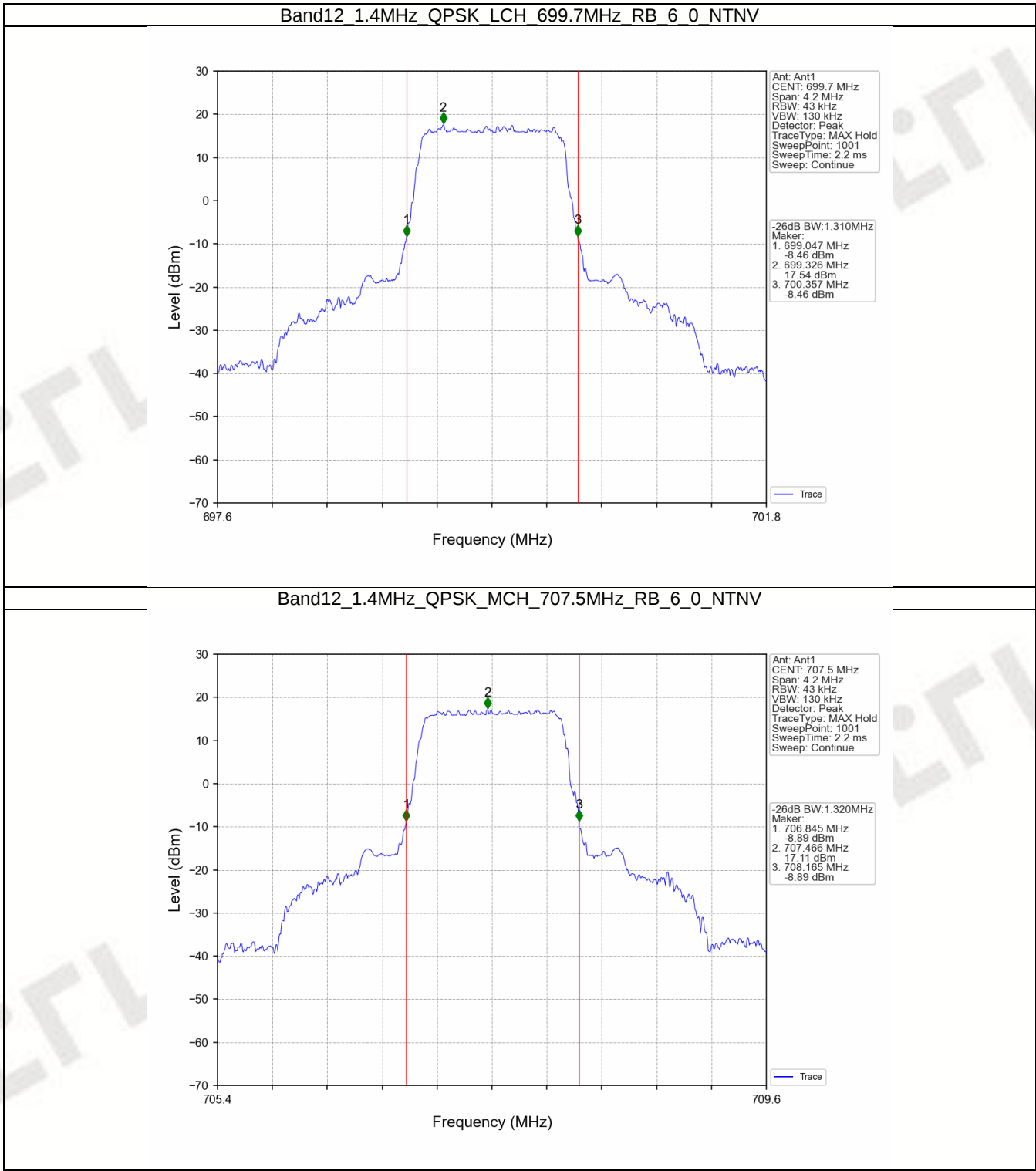


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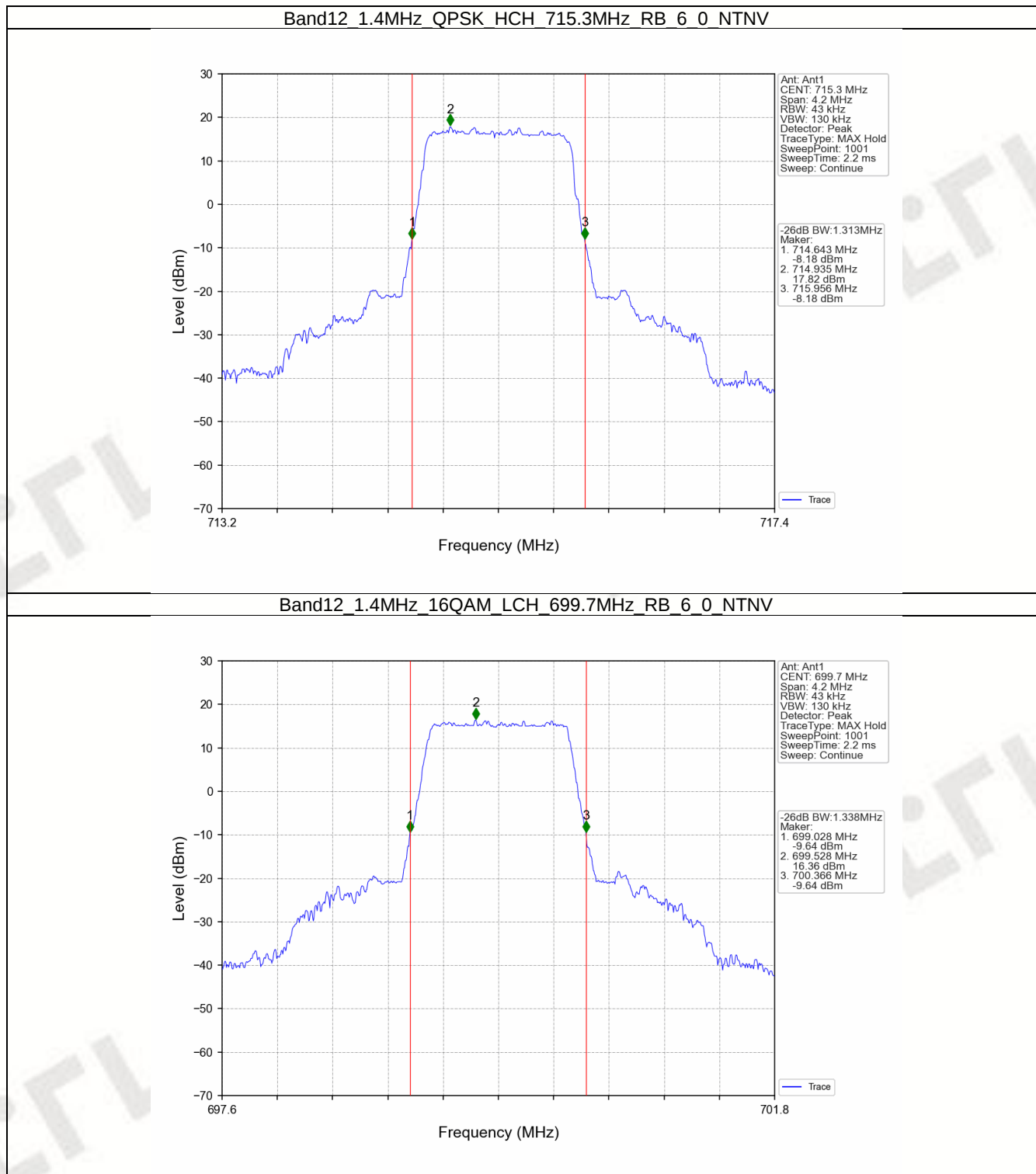


FCCID: 2BCUE-P8GLOBAL

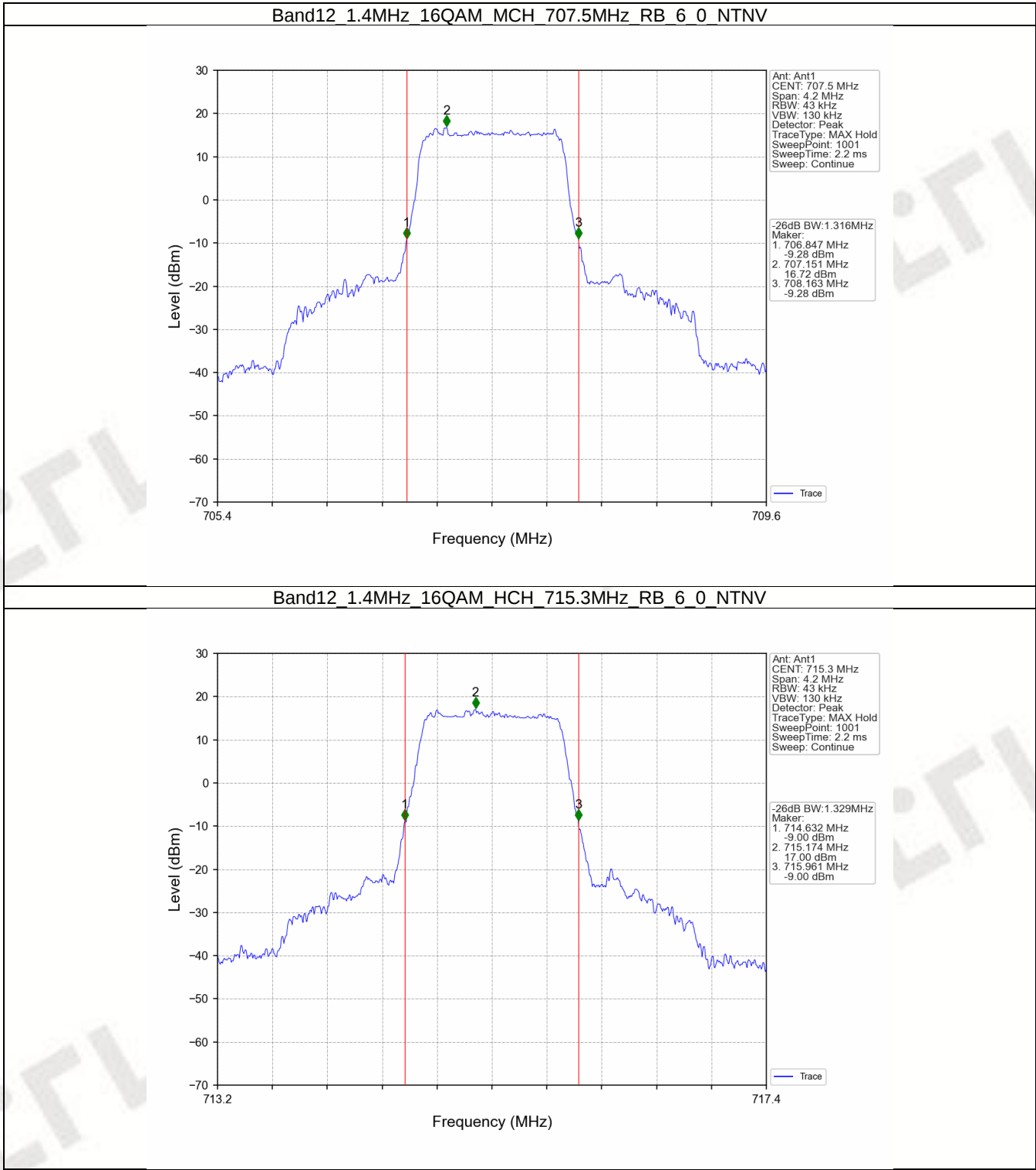
4.2.2 Band12\_XDB



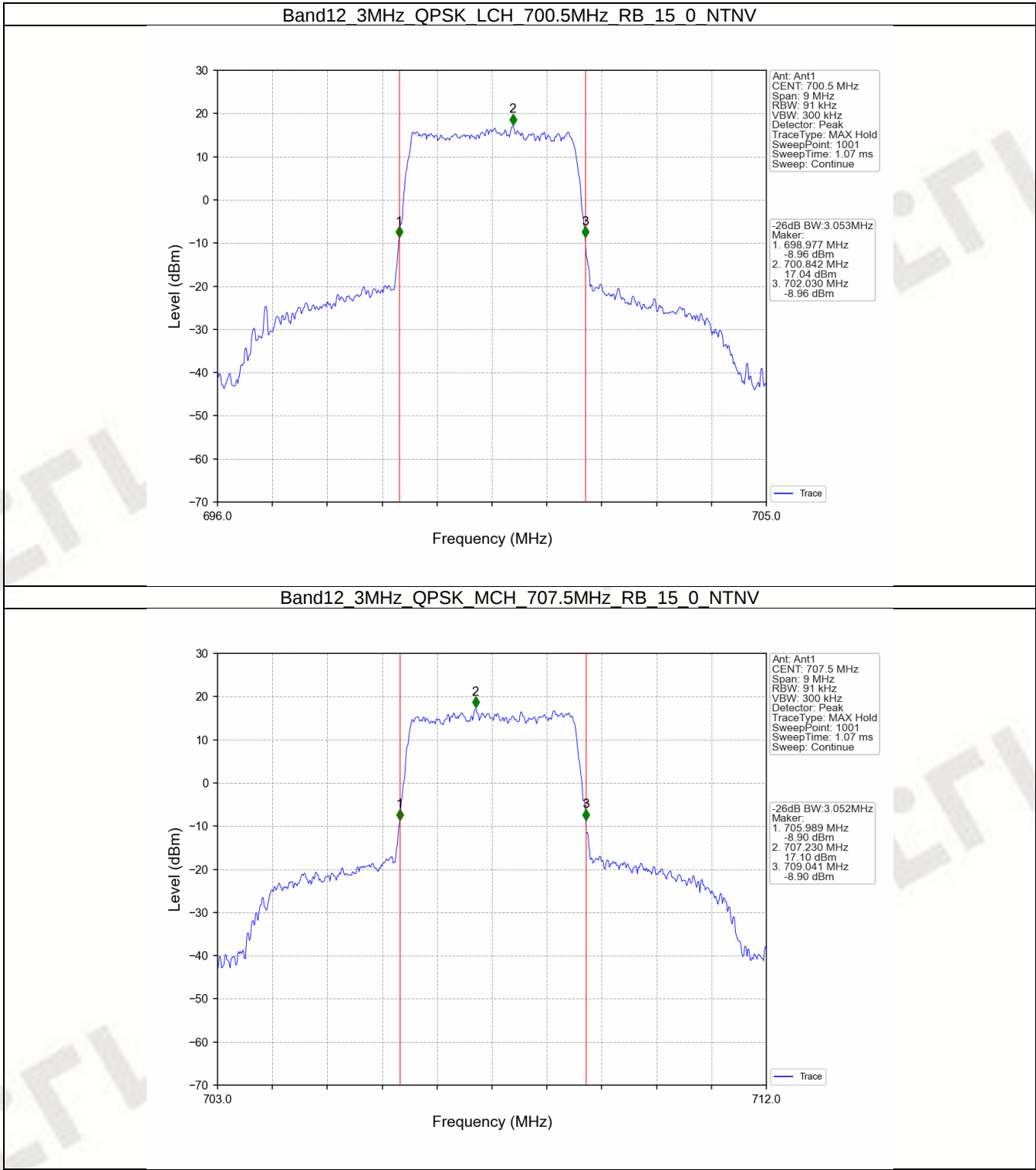
FCCID: 2BCUE-P8GLOBAL



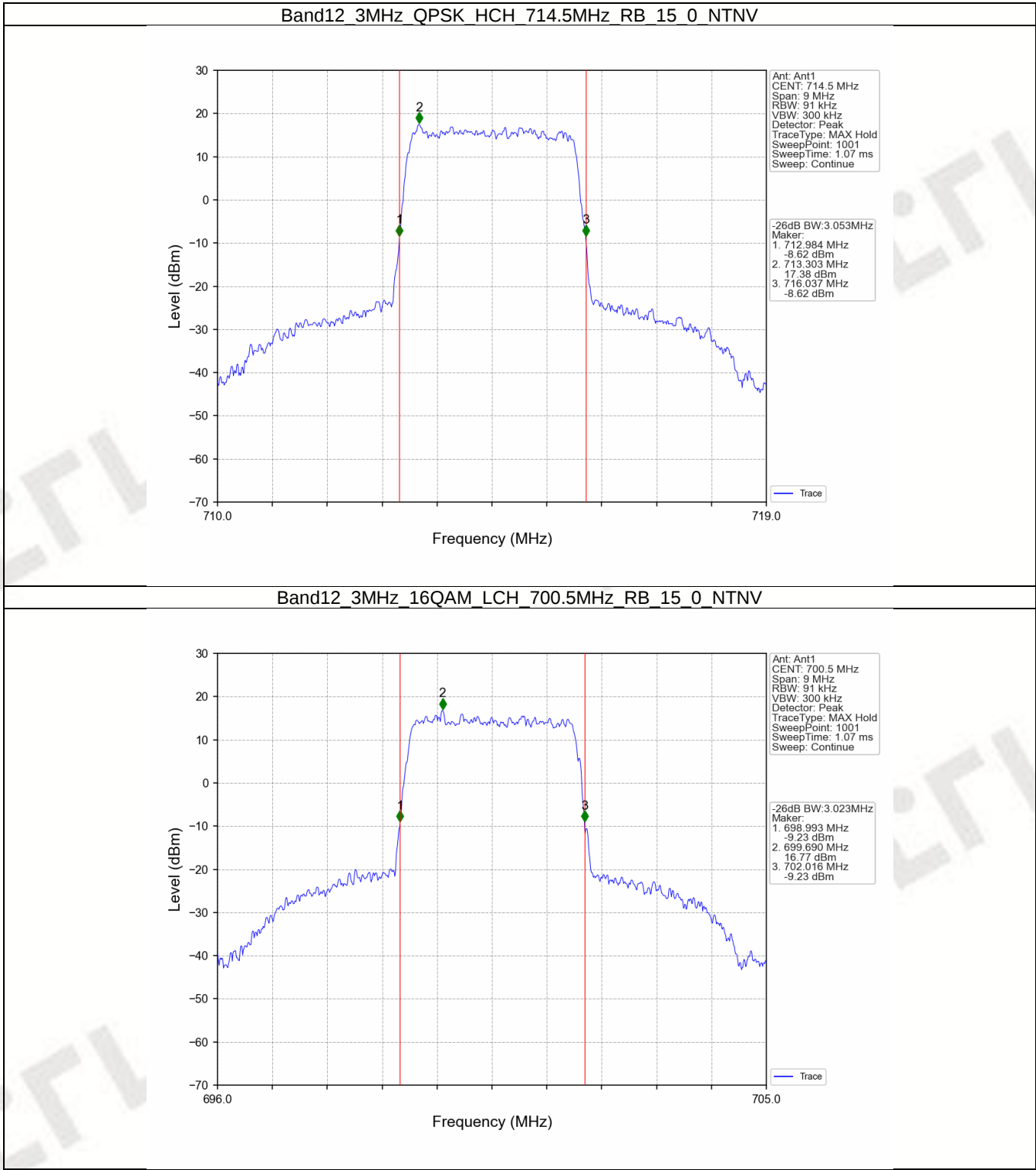
FCCID: 2BCUE-P8GLOBAL



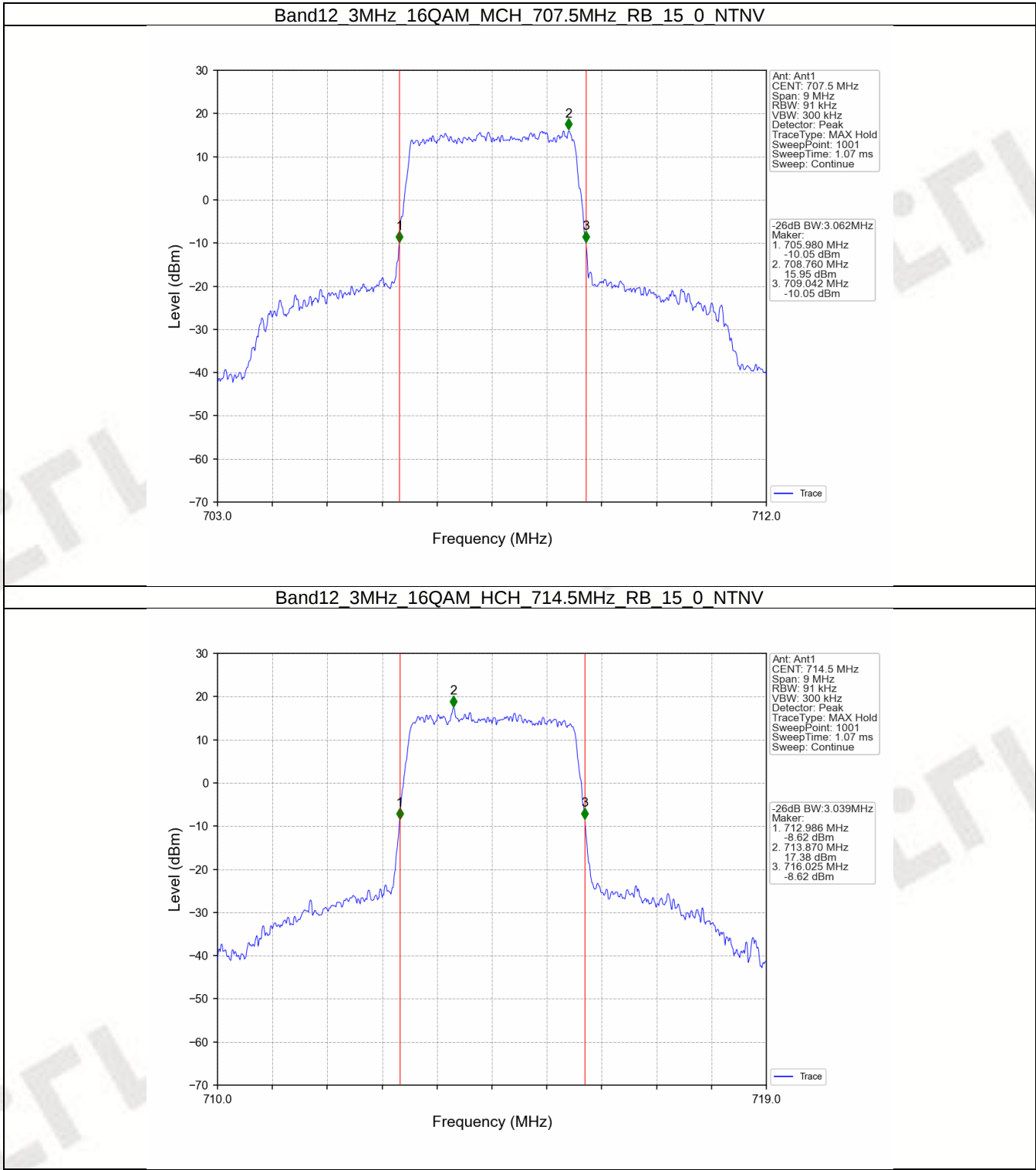
FCCID: 2BCUE-P8GLOBAL



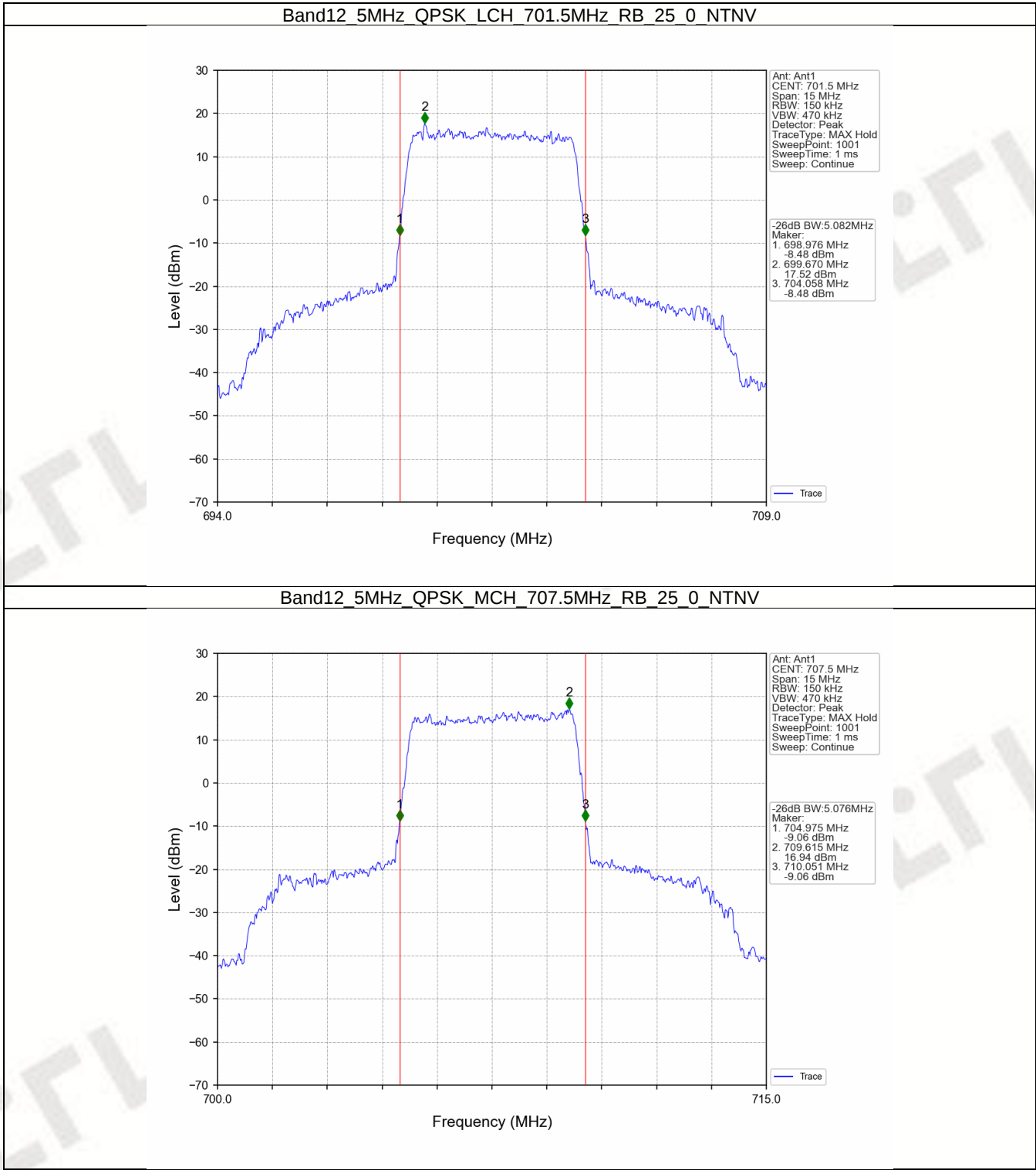
FCCID: 2BCUE-P8GLOBAL



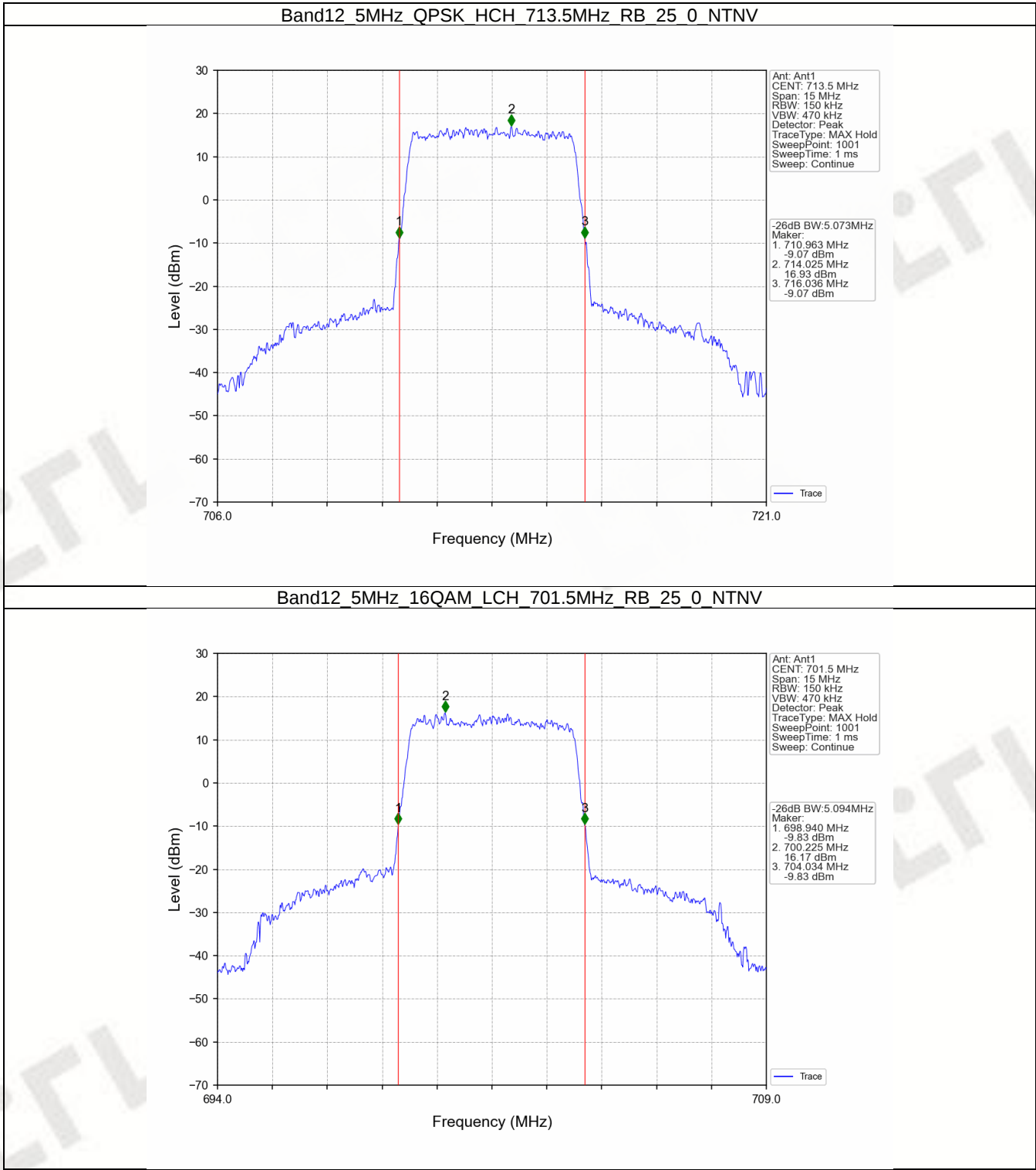
FCCID: 2BCUE-P8GLOBAL



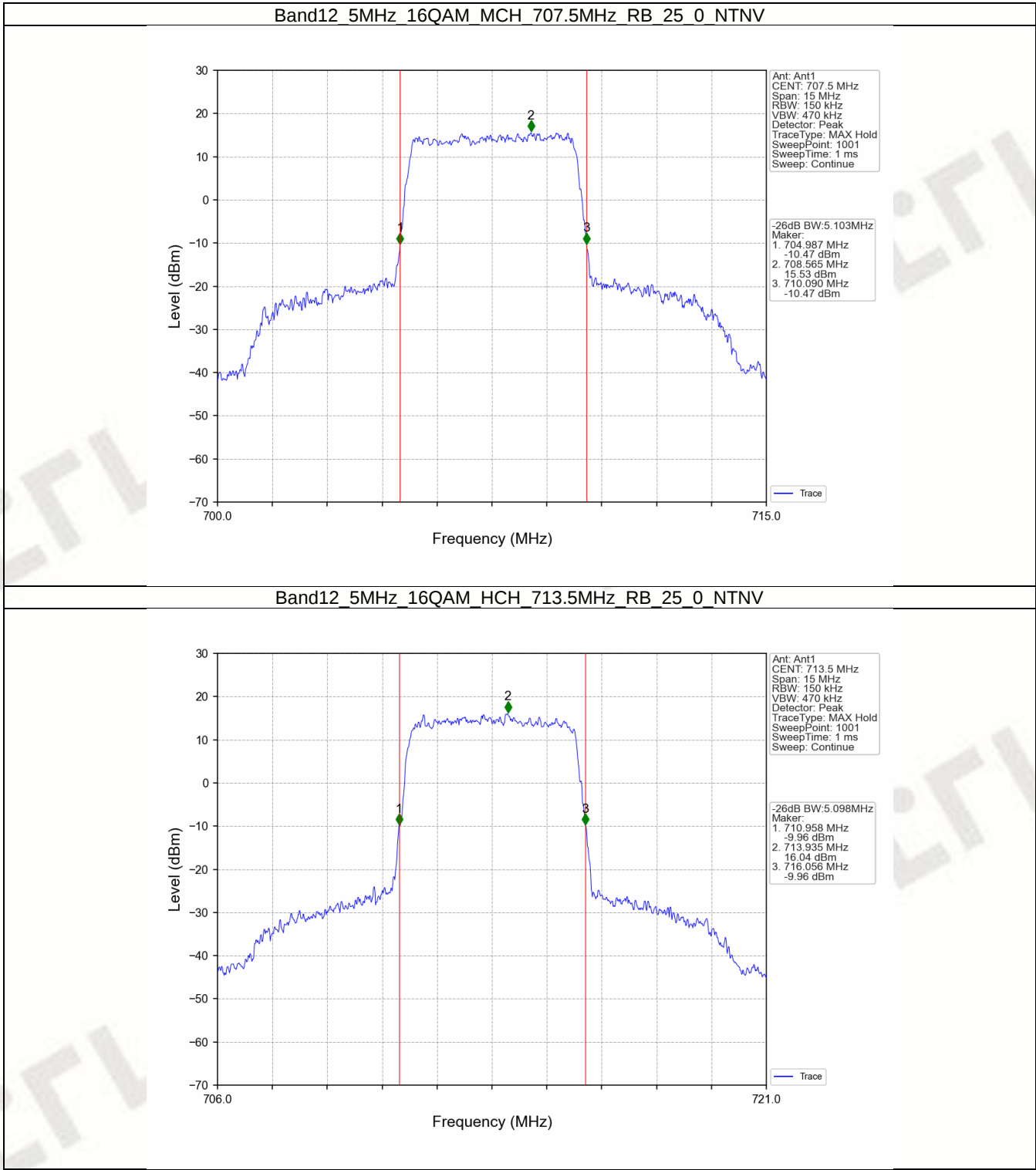
FCCID: 2BCUE-P8GLOBAL



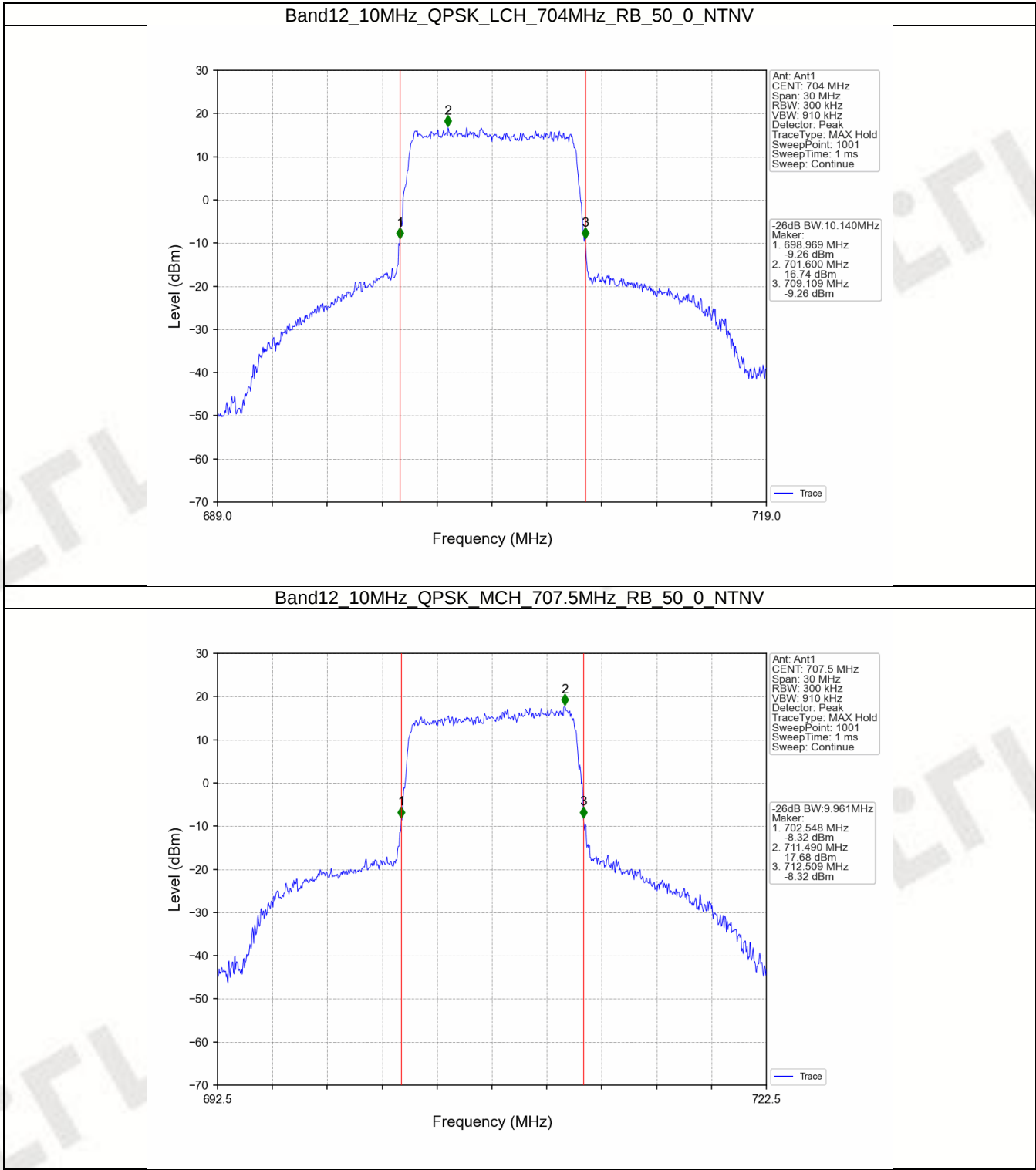
FCCID: 2BCUE-P8GLOBAL



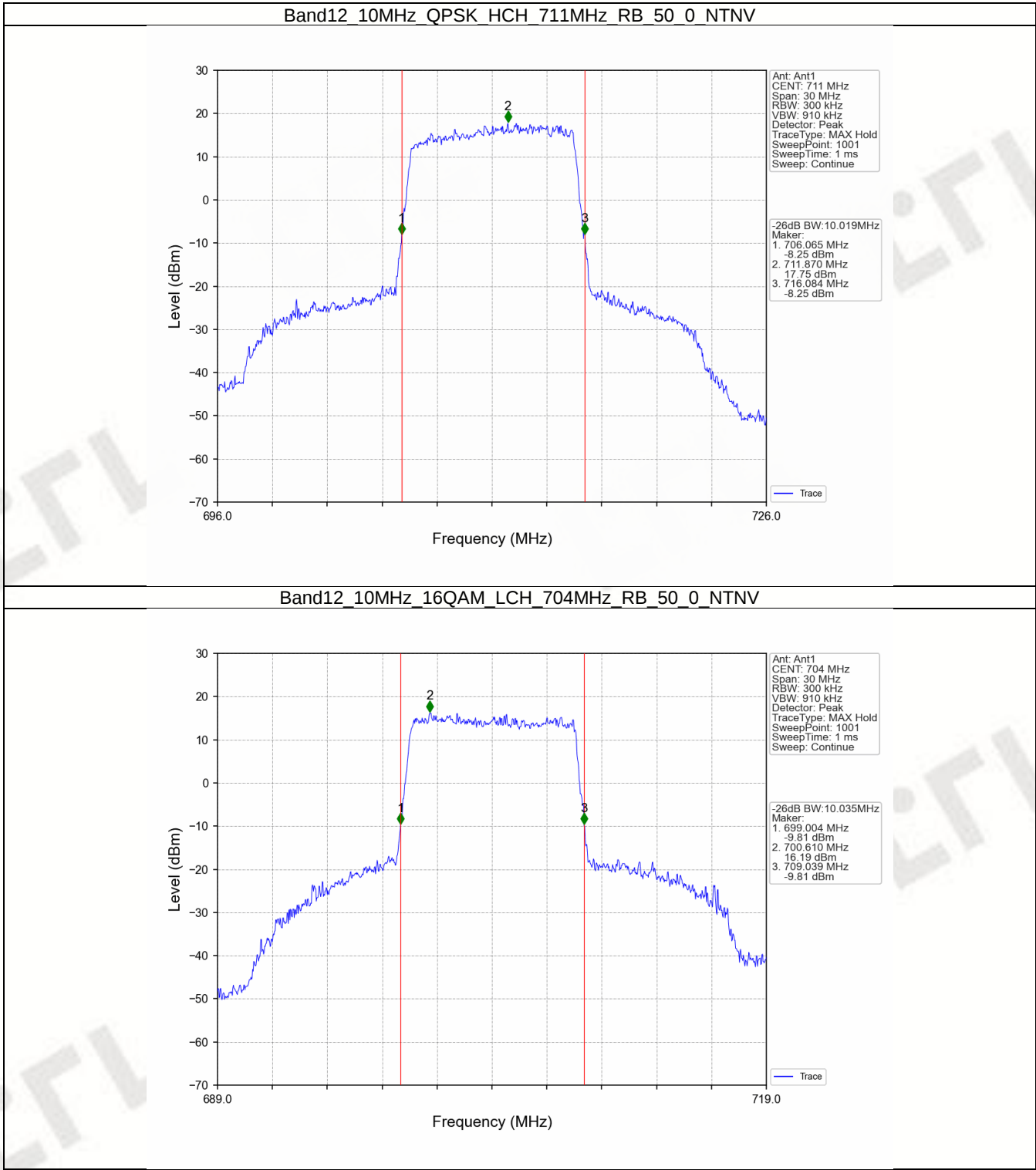
FCCID: 2BCUE-P8GLOBAL



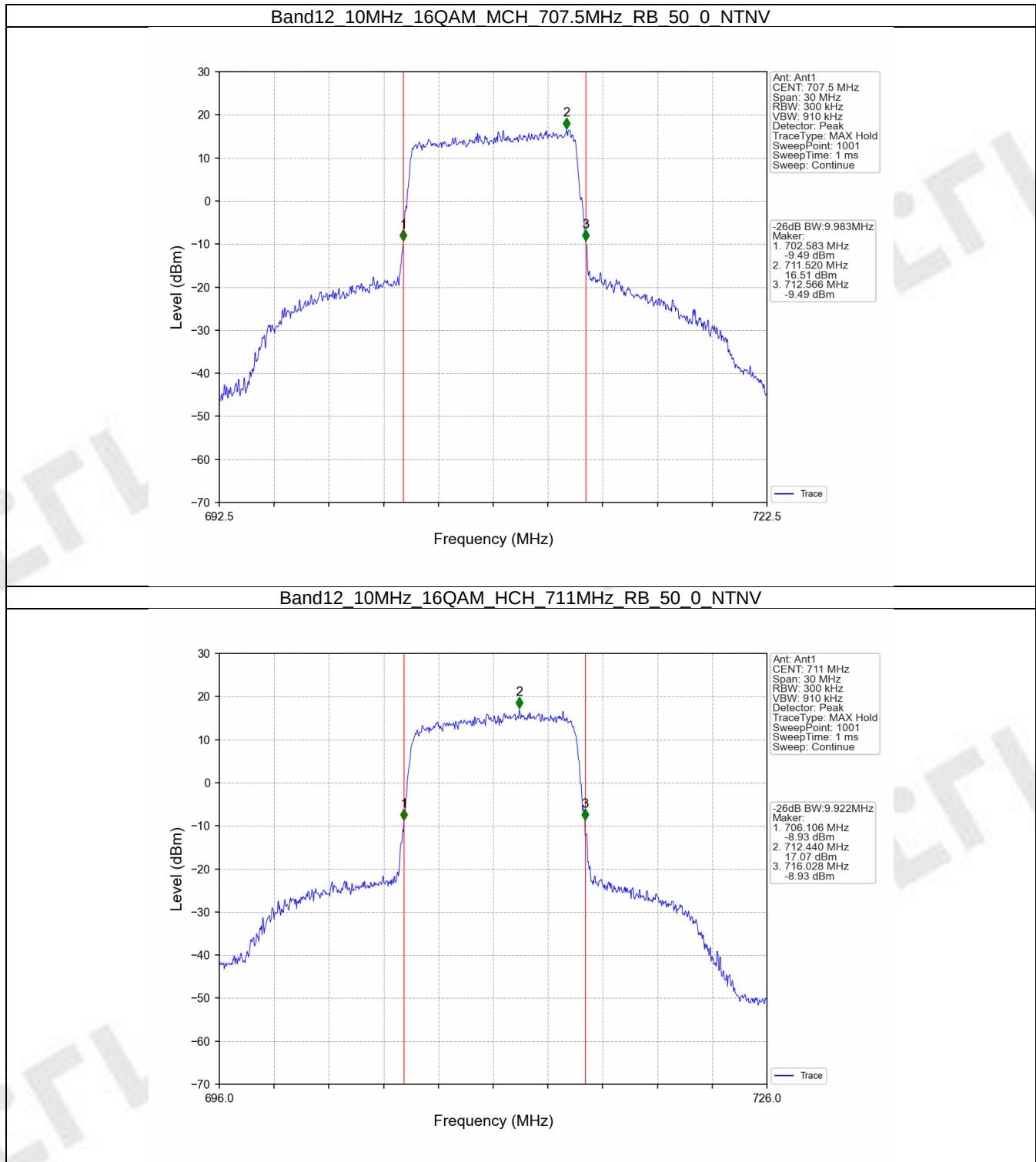
FCCID: 2BCUE-P8GLOBAL



FCCID: 2BCUE-P8GLOBAL



FCCID: 2BCUE-P8GLOBAL



## 5. Peak-Average Ratio

### 5.1 Test Result

#### 5.1.1 B12\_1.4MHz

| Band: 12 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                         |       |         |
|-------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                     |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                                | 699.7           | 6             | 0      | 5.60                    | <=13  | Pass    |
|                                     | 707.5           | 6             | 0      | 5.77                    | <=13  | Pass    |
|                                     | 715.3           | 6             | 0      | 5.42                    | <=13  | Pass    |
| 16QAM                               | 699.7           | 6             | 0      | 6.45                    | <=13  | Pass    |
|                                     | 707.5           | 6             | 0      | 6.69                    | <=13  | Pass    |
|                                     | 715.3           | 6             | 0      | 6.26                    | <=13  | Pass    |

#### 5.1.2 B12\_3MHz

| Band: 12 / Bandwidth: 3MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 700.5           | 15            | 0      | 5.61                    | <=13  | Pass    |
|                                   | 707.5           | 15            | 0      | 5.78                    | <=13  | Pass    |
|                                   | 714.5           | 15            | 0      | 5.44                    | <=13  | Pass    |
| 16QAM                             | 700.5           | 15            | 0      | 6.45                    | <=13  | Pass    |
|                                   | 707.5           | 15            | 0      | 6.66                    | <=13  | Pass    |
|                                   | 714.5           | 15            | 0      | 6.28                    | <=13  | Pass    |

#### 5.1.3 B12\_5MHz

| Band: 12 / Bandwidth: 5MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 701.5           | 25            | 0      | 5.47                    | <=13  | Pass    |
|                                   | 707.5           | 25            | 0      | 5.59                    | <=13  | Pass    |
|                                   | 713.5           | 25            | 0      | 5.33                    | <=13  | Pass    |
| 16QAM                             | 701.5           | 25            | 0      | 6.30                    | <=13  | Pass    |
|                                   | 707.5           | 25            | 0      | 6.43                    | <=13  | Pass    |
|                                   | 713.5           | 25            | 0      | 6.17                    | <=13  | Pass    |

#### 5.1.4 B12\_10MHz

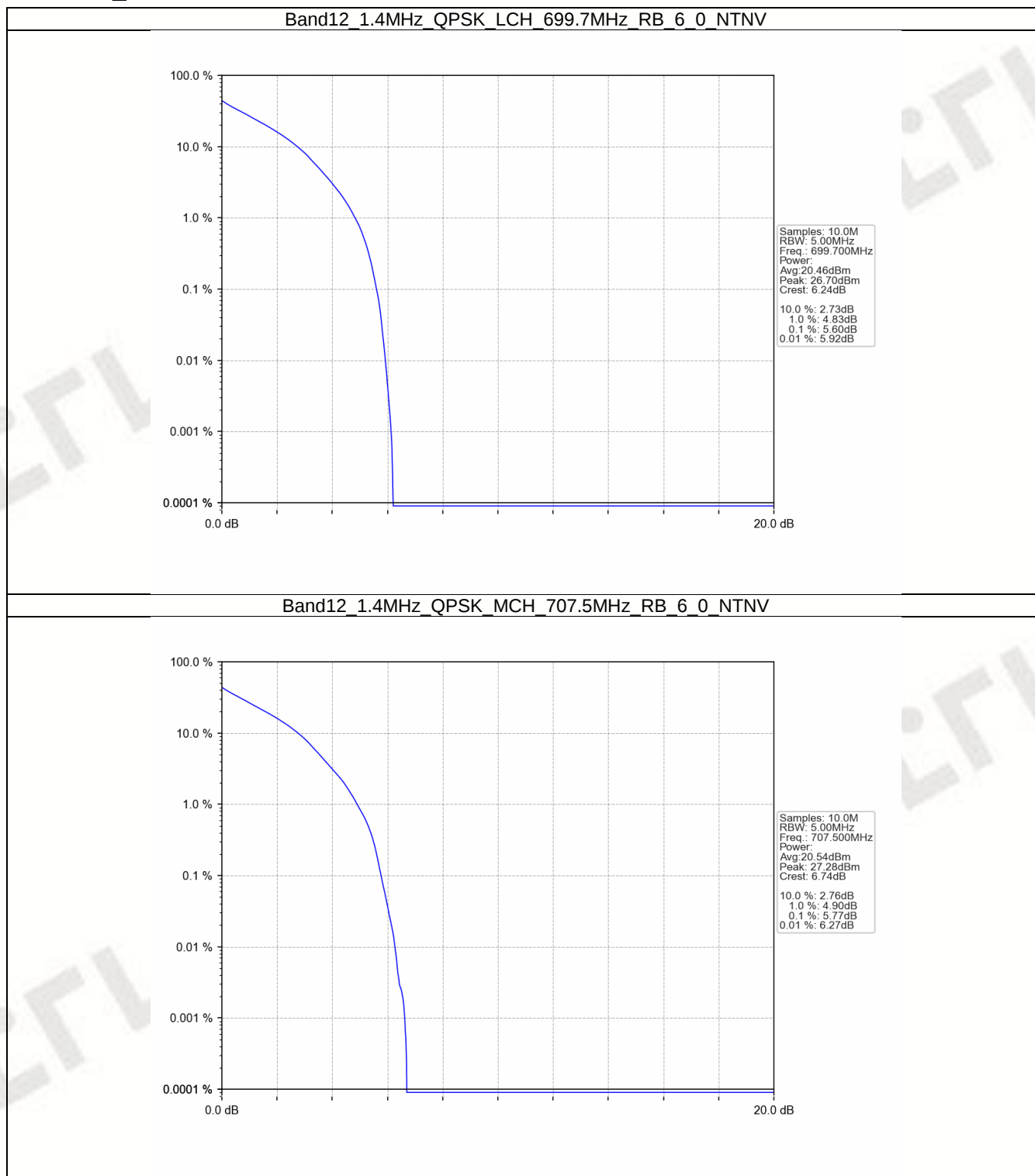
| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 704             | 50            | 0      | 5.64                    | <=13  | Pass    |
|                                    | 707.5           | 50            | 0      | 5.62                    | <=13  | Pass    |
|                                    | 711             | 50            | 0      | 5.34                    | <=13  | Pass    |
| 16QAM                              | 704             | 50            | 0      | 6.42                    | <=13  | Pass    |
|                                    | 707.5           | 50            | 0      | 6.45                    | <=13  | Pass    |
|                                    | 711             | 50            | 0      | 6.27                    | <=13  | Pass    |



FCCID: 2BCUE-P8GLOBAL

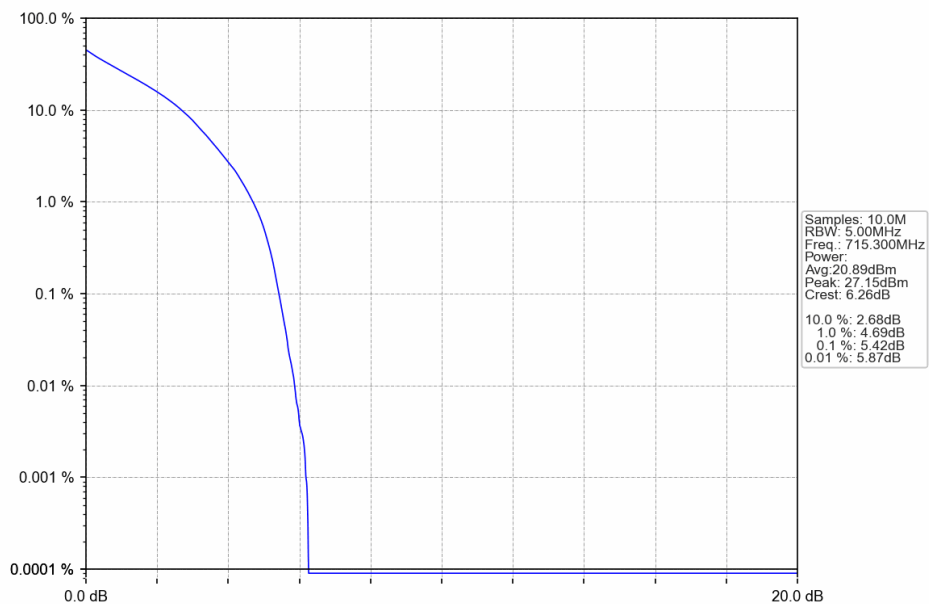
## 5.2 Test Graph

### 5.2.1 B12\_1.4MHz

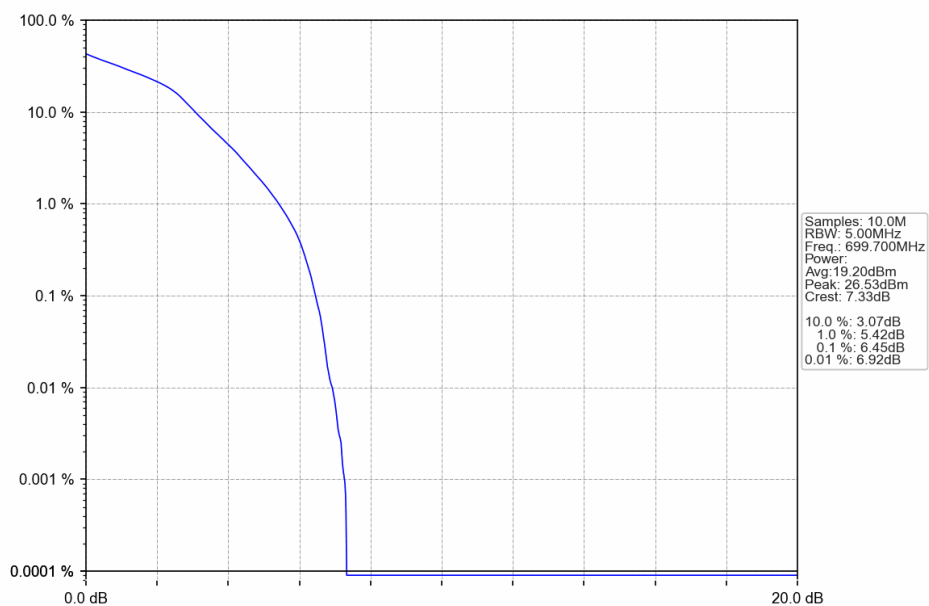


FCCID: 2BCUE-P8GLOBAL

Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV

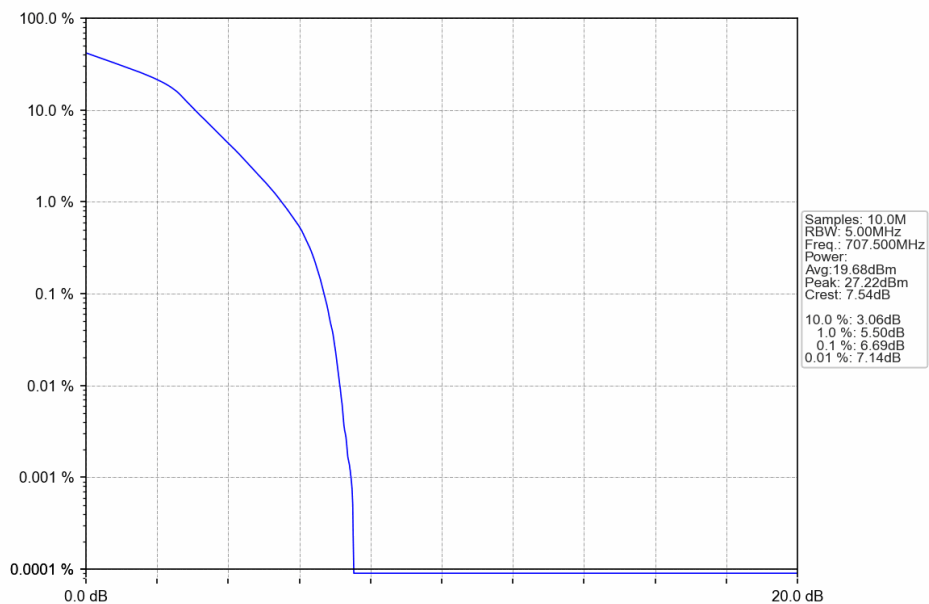


Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTNV

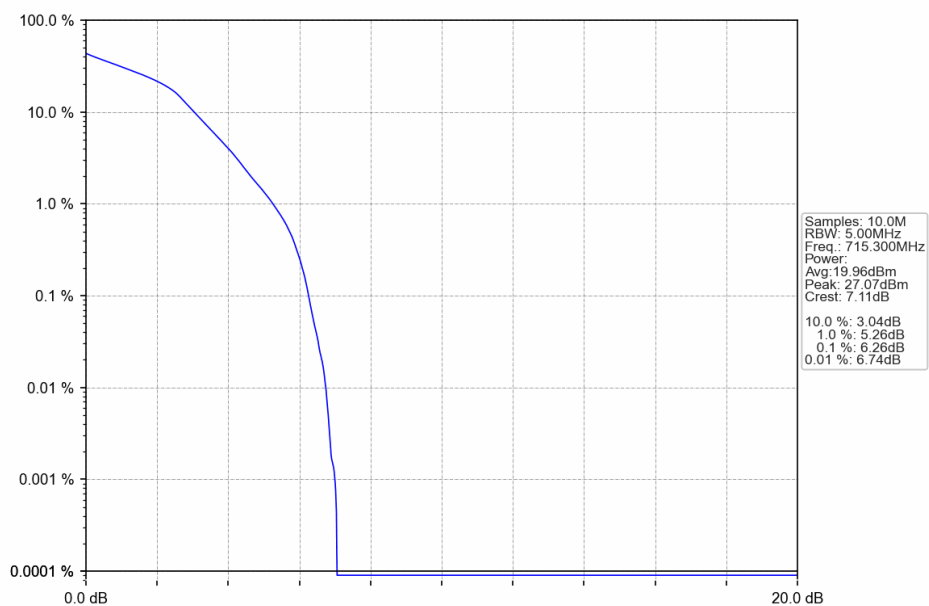


FCCID: 2BCUE-P8GLOBAL

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

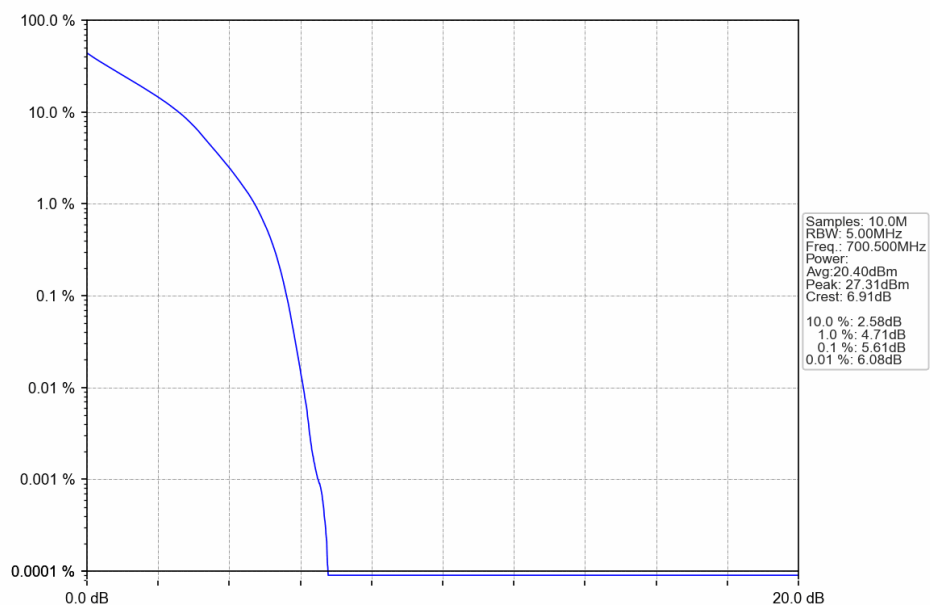


Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV

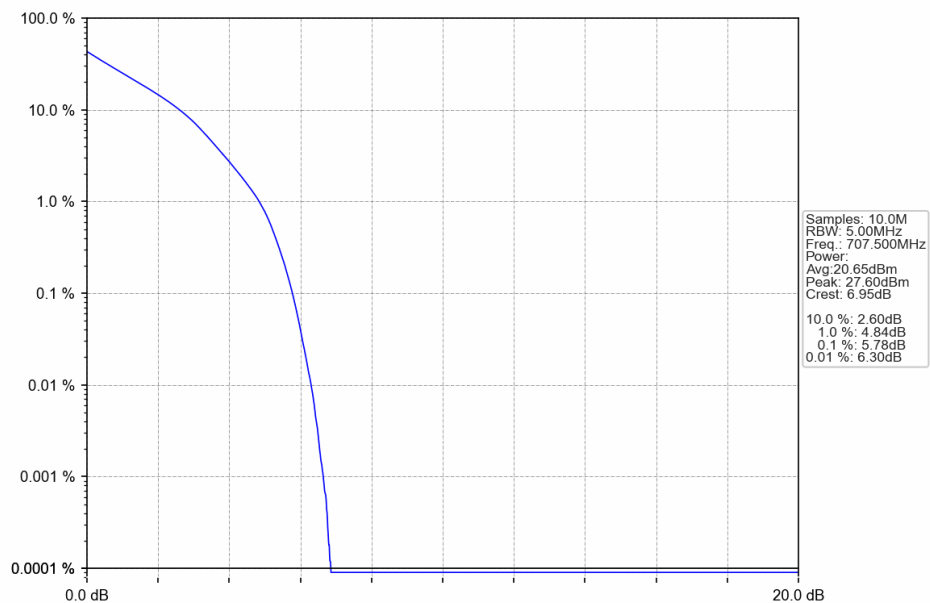


**5.2.2 B12\_3MHz**

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

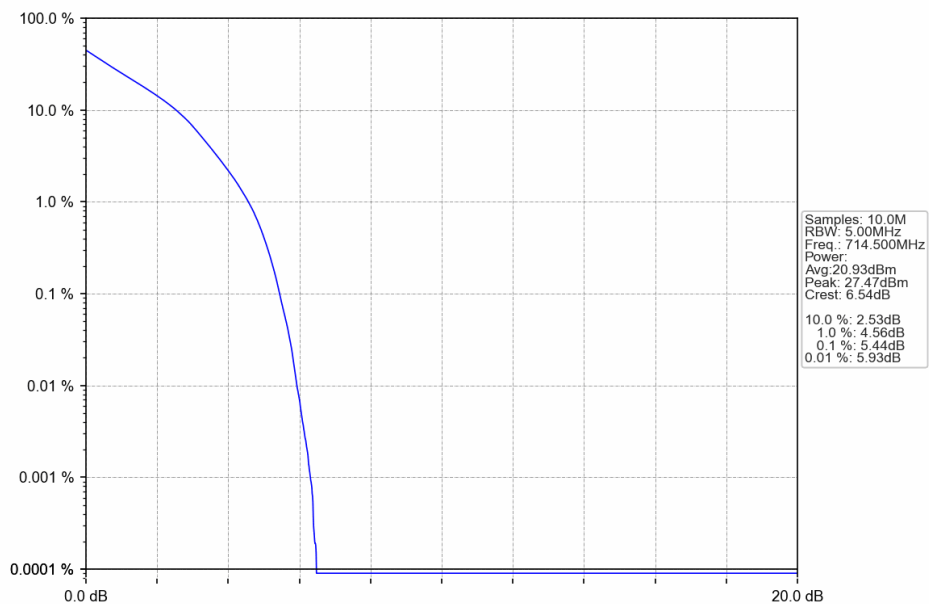


Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV

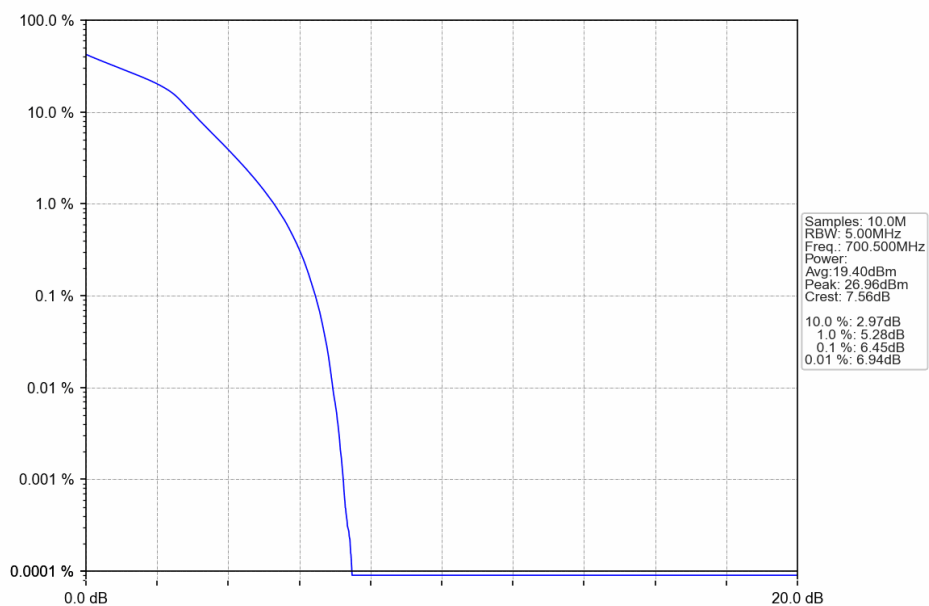


FCCID: 2BCUE-P8GLOBAL

Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTNV

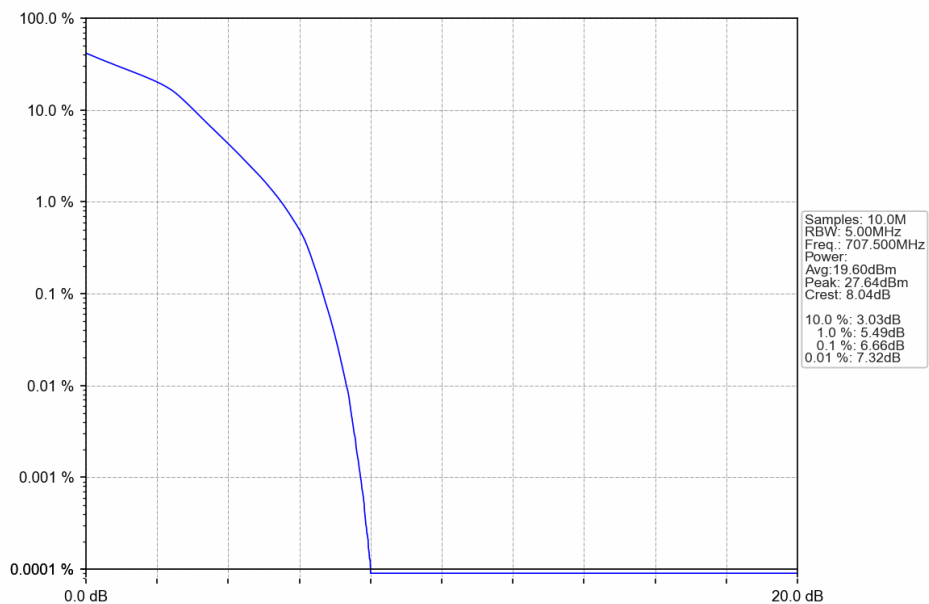


Band12 3MHz 16QAM LCH 700.5MHz RB 15 0 NTNV

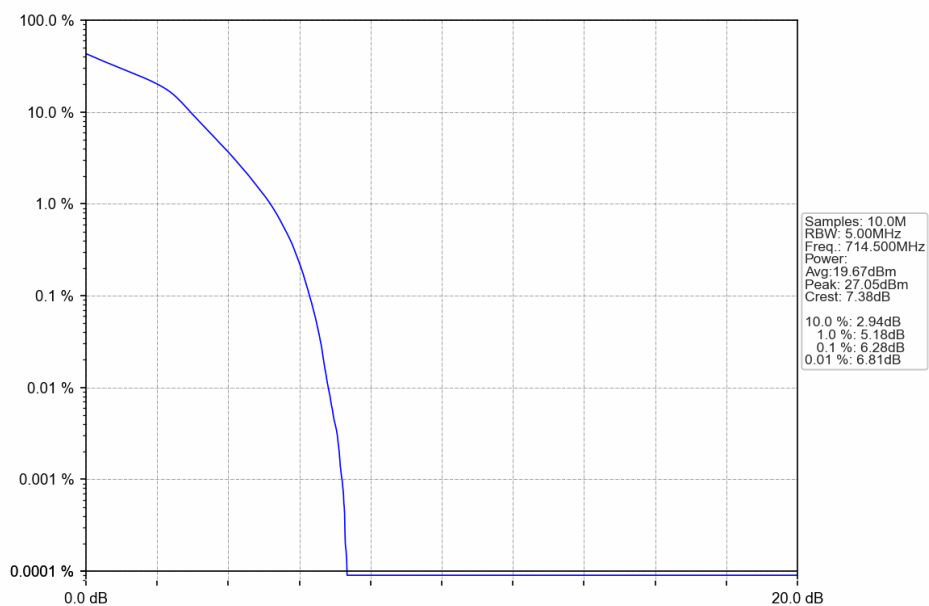


FCCID: 2BCUE-P8GLOBAL

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

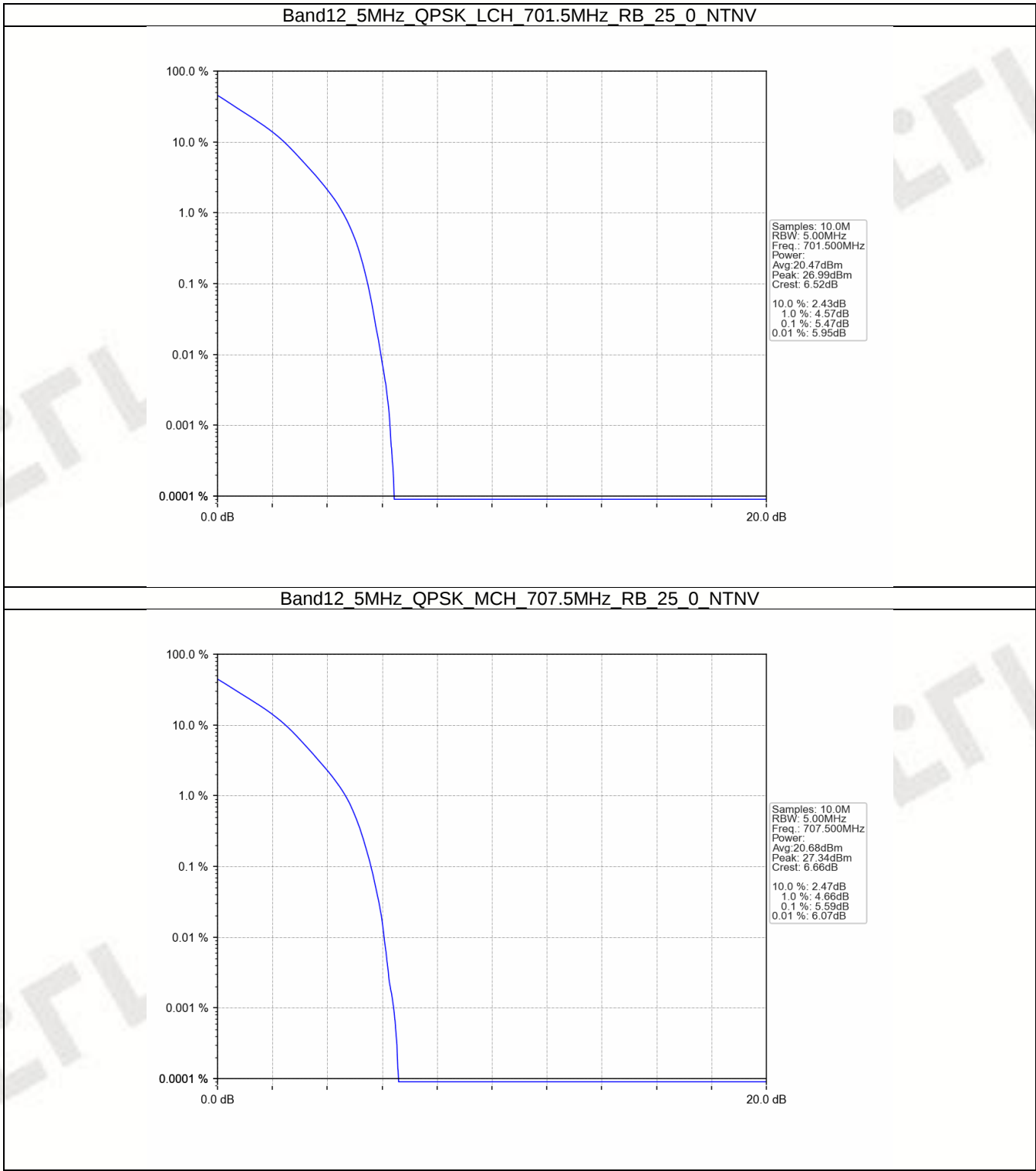


Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV



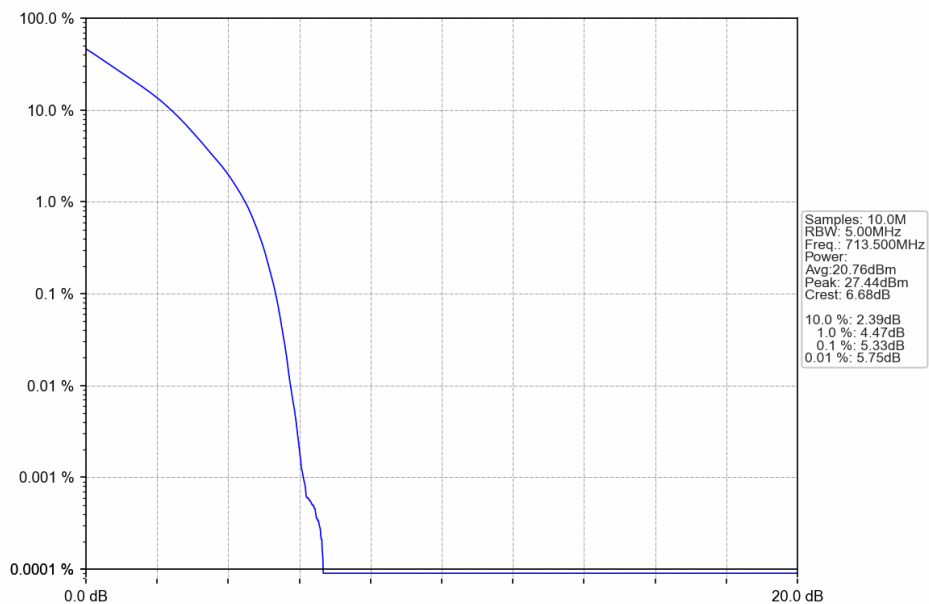
FCCID: 2BCUE-P8GLOBAL

5.2.3 B12\_5MHz

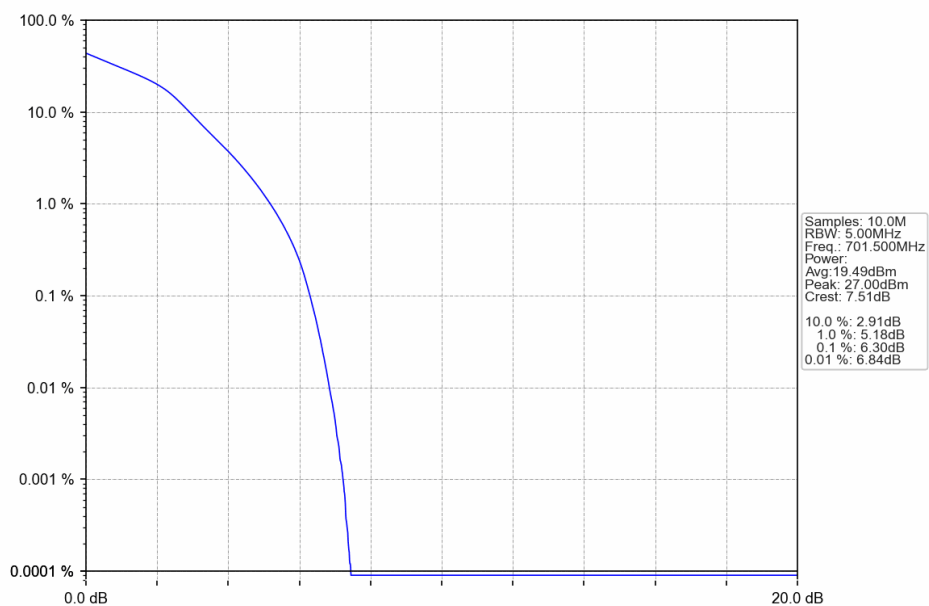


FCCID: 2BCUE-P8GLOBAL

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

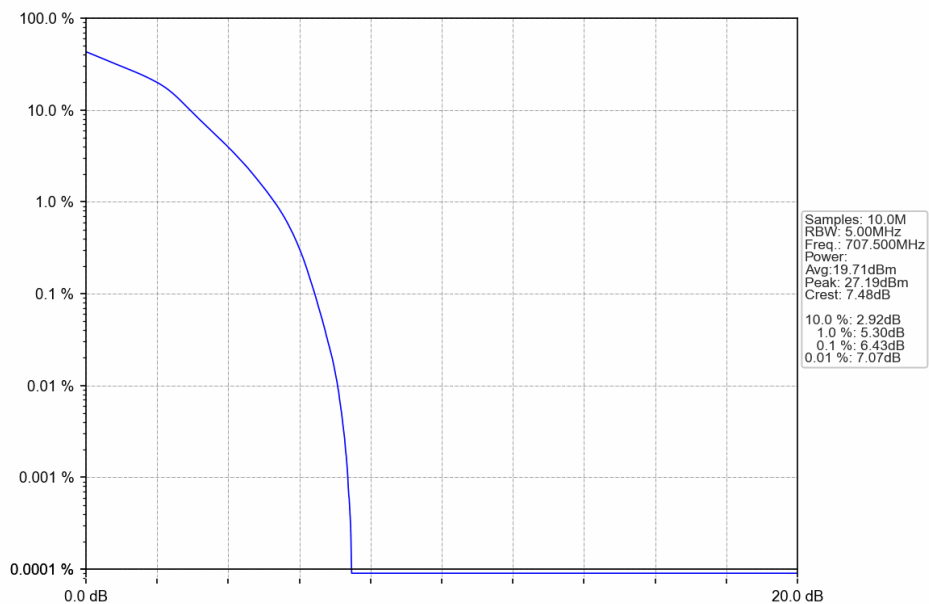


Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV

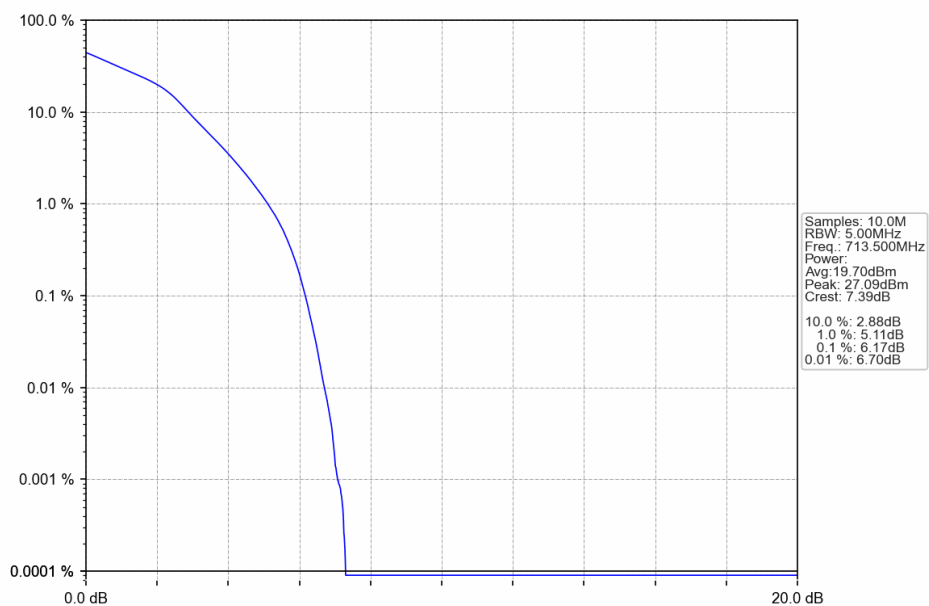


FCCID: 2BCUE-P8GLOBAL

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

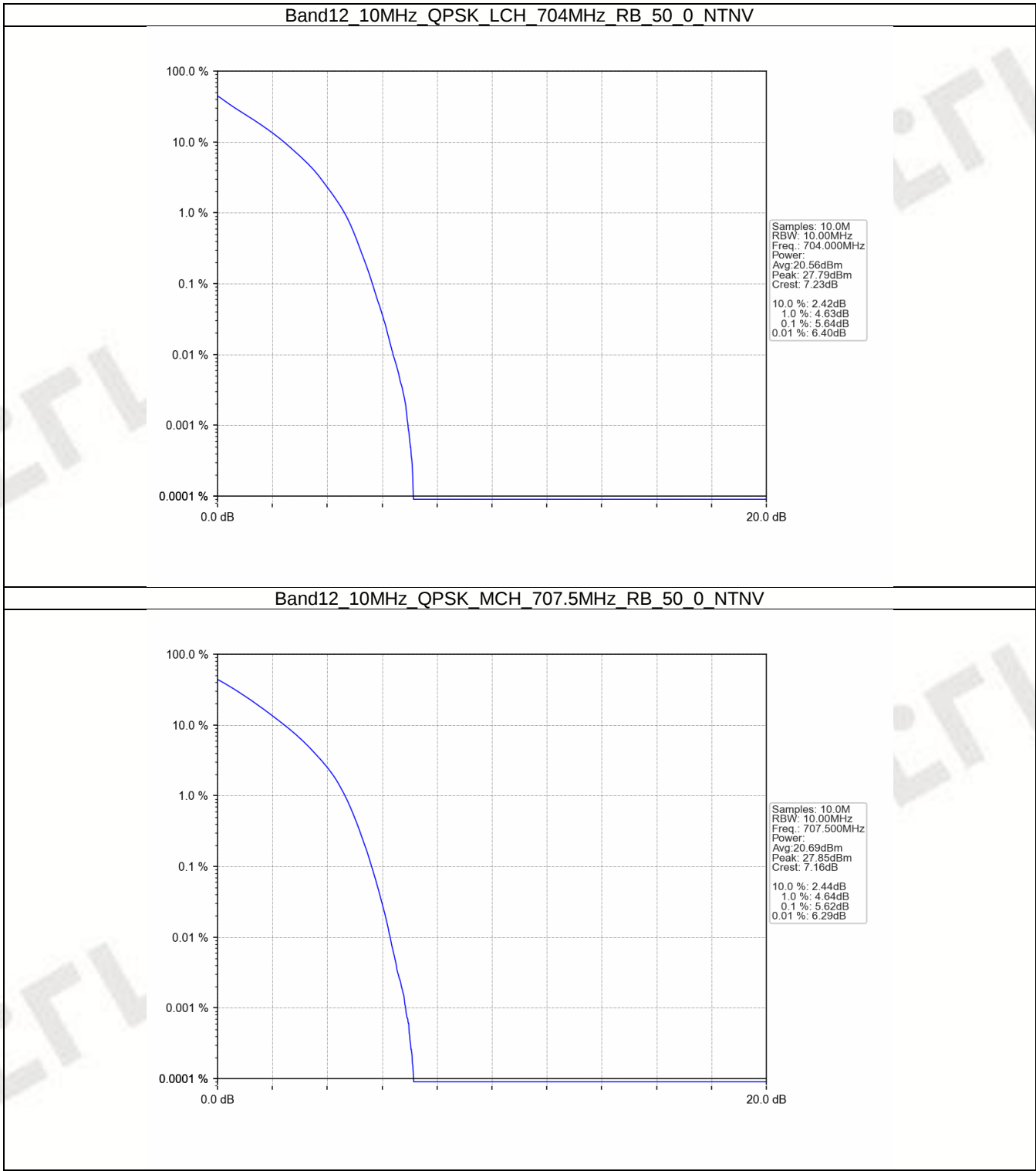


Band12 5MHz 16QAM HCH 713.5MHz RB 25 0 NTNV



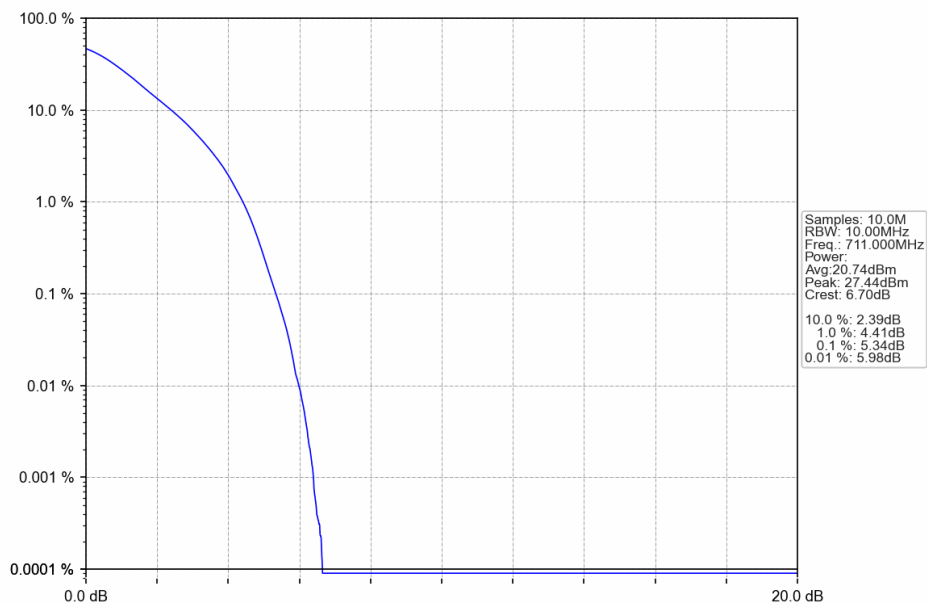
FCCID: 2BCUE-P8GLOBAL

5.2.4 B12\_10MHz

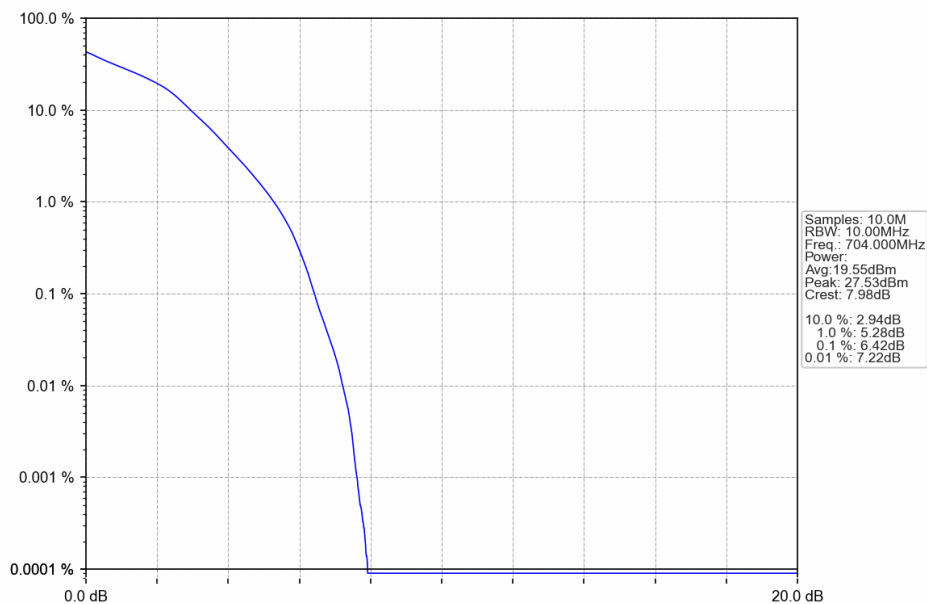


FCCID: 2BCUE-P8GLOBAL

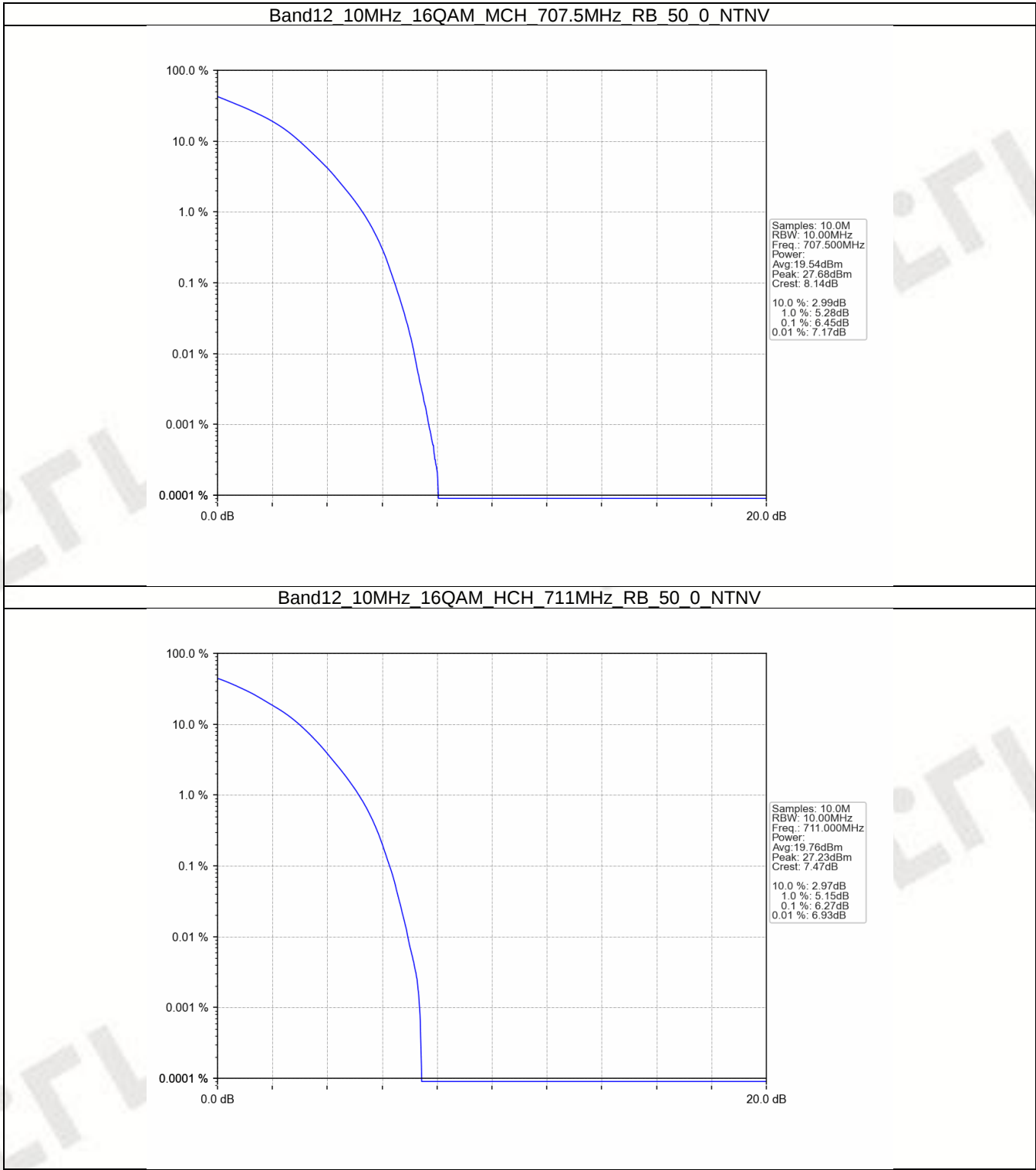
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



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



FCCID: 2BCUE-P8GLOBAL



## 6. Spurious Emission

### 6.1 Test Result

#### 6.1.1 B12\_1.4MHz

| Band: 12 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                     |       |
|-------------------------------------|-----------------|---------------|--------|---------------------|-------|
| Modulation                          | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       |
|                                     |                 | 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  |
|                                     |                 | 1             | 0      | Refer To Test Graph | Pass  |
|                                     | 715.3           | 1             | 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  |
|                                     |                 | 1             | 0      | Refer To Test Graph | Pass  |
|                                     | 715.3           | 1             | 5      | Refer To Test Graph | Pass  |
|                                     |                 | 6             | 0      | Refer To Test Graph | Pass  |

#### 6.1.2 B12\_3MHz

| Band: 12 / Bandwidth: 3MHz / NTNV |                 |               |        |                     |       |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       |
|                                   |                 | 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  |
|                                   |                 | 1             | 0      | Refer To Test Graph | Pass  |
|                                   | 714.5           | 1             | 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  |
|                                   |                 | 1             | 0      | Refer To Test Graph | Pass  |
|                                   | 714.5           | 1             | 14     | Refer To Test Graph | Pass  |
|                                   |                 | 15            | 0      | Refer To Test Graph | Pass  |

#### 6.1.3 B12\_5MHz

| Band: 12 / Bandwidth: 5MHz / NTNV |                 |               |        |                     |       |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       |
|                                   |                 | 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  |
|                                   |                 | 1             | 0      | Refer To Test Graph | Pass  |
|                                   | 713.5           | 1             | 24     | Refer To Test Graph | Pass  |
|                                   |                 | 25            | 0      | Refer To Test Graph | Pass  |
| 16QAM                             | 701.5           | 1             | 0      | Refer To Test Graph | Pass  |

FCCID: 2BCUE-P8GLOBAL

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

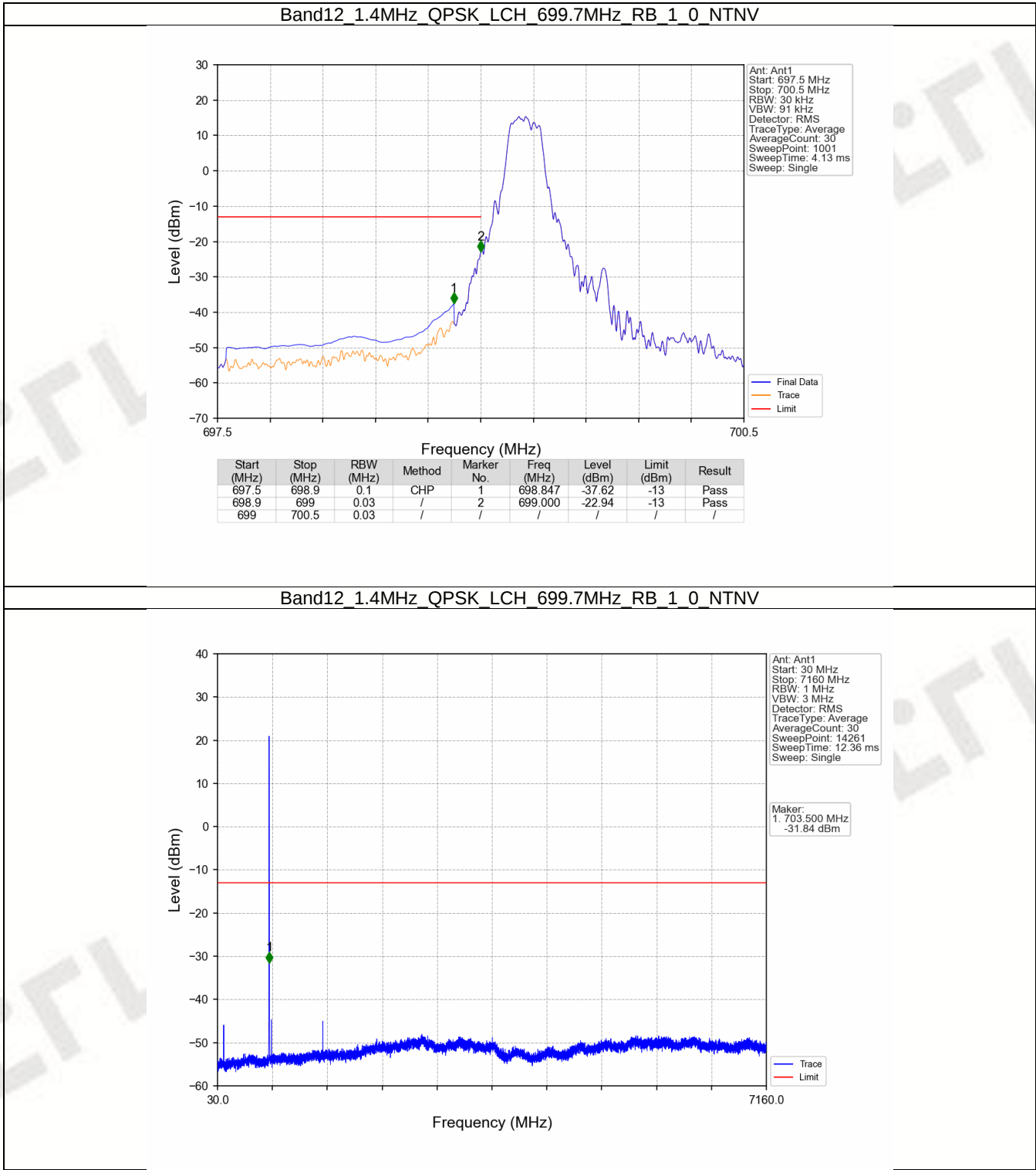
**6.1.4 B12\_10MHz**

| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                     |       |         |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | 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    |

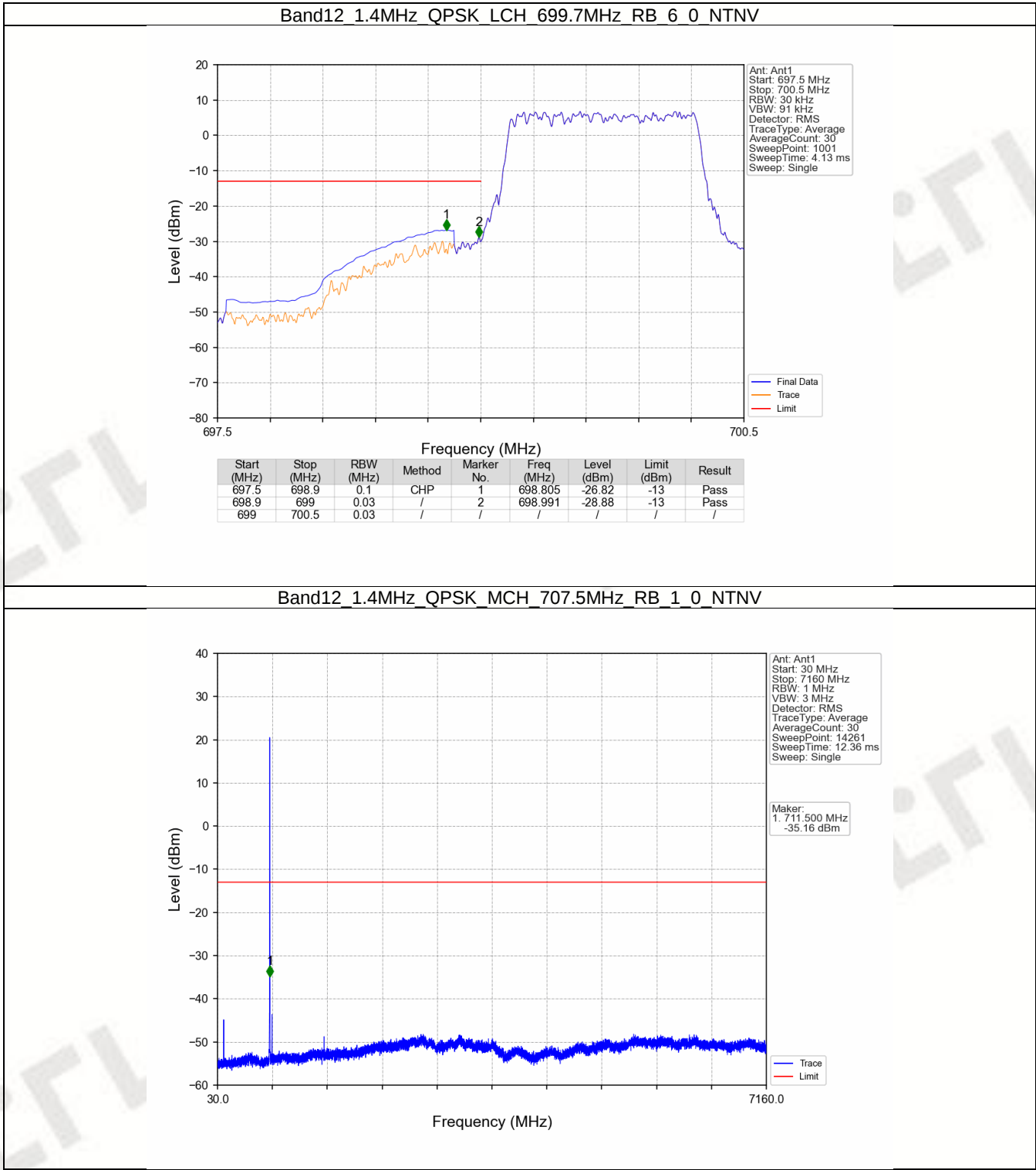
FCCID: 2BCUE-P8GLOBAL

6.2 Test Graph

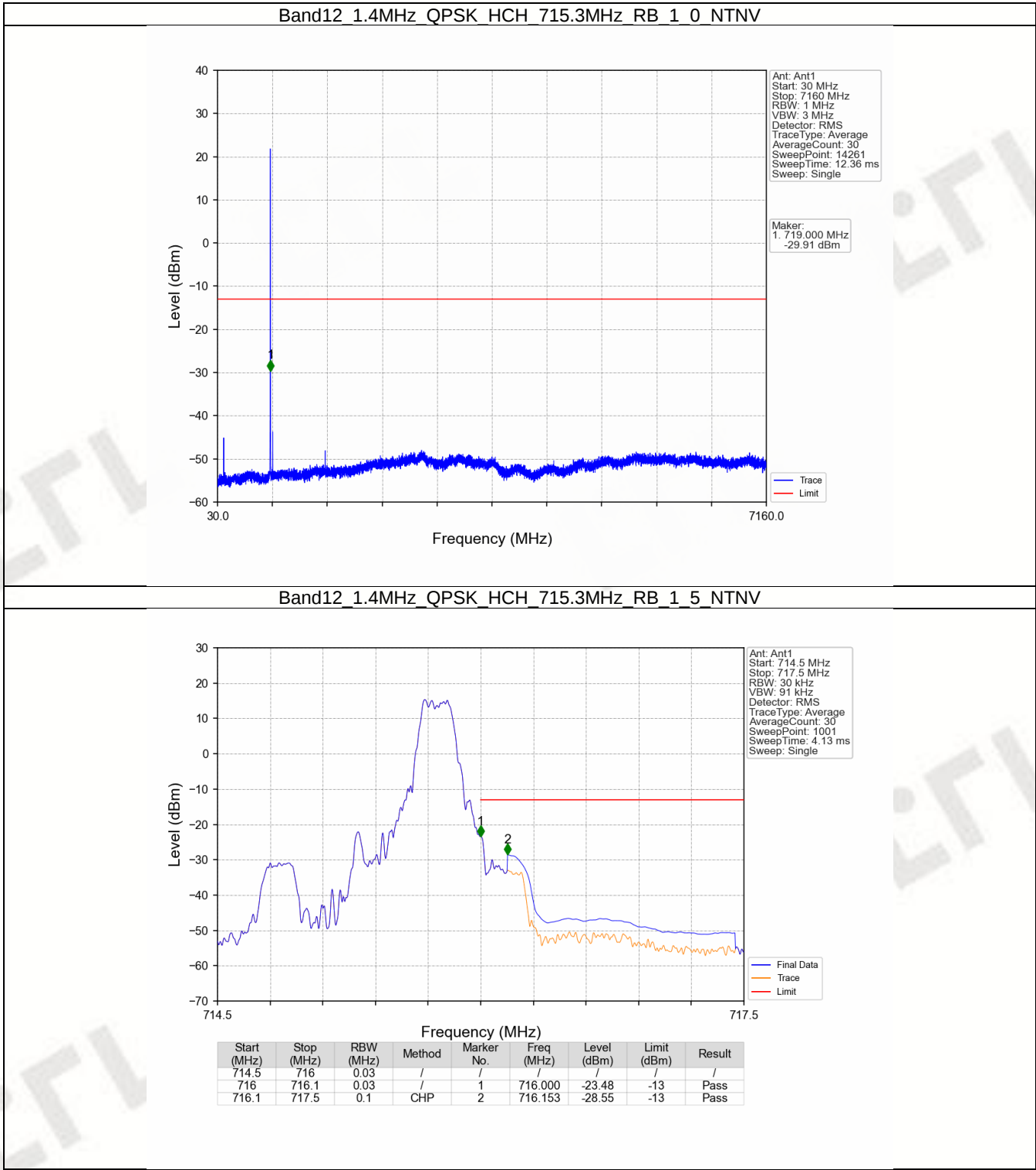
6.2.1 B12\_1.4MHz



FCCID: 2BCUE-P8GLOBAL

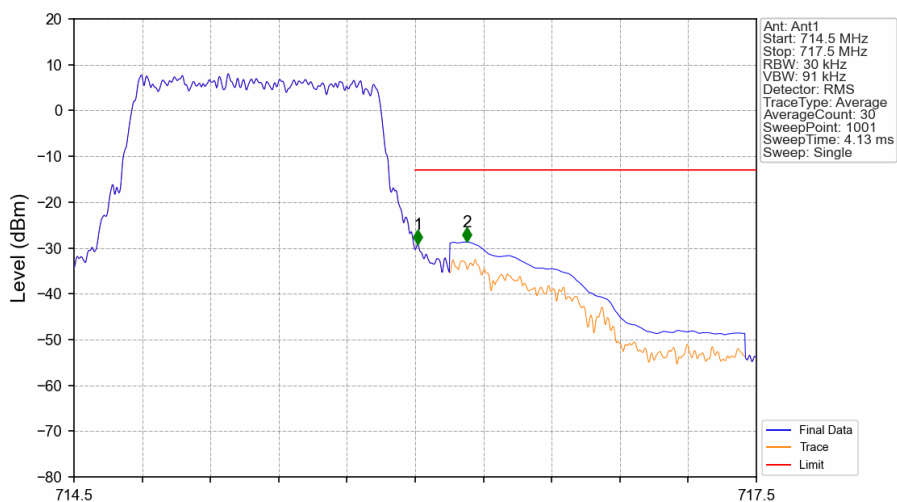


FCCID: 2BCUE-P8GLOBAL



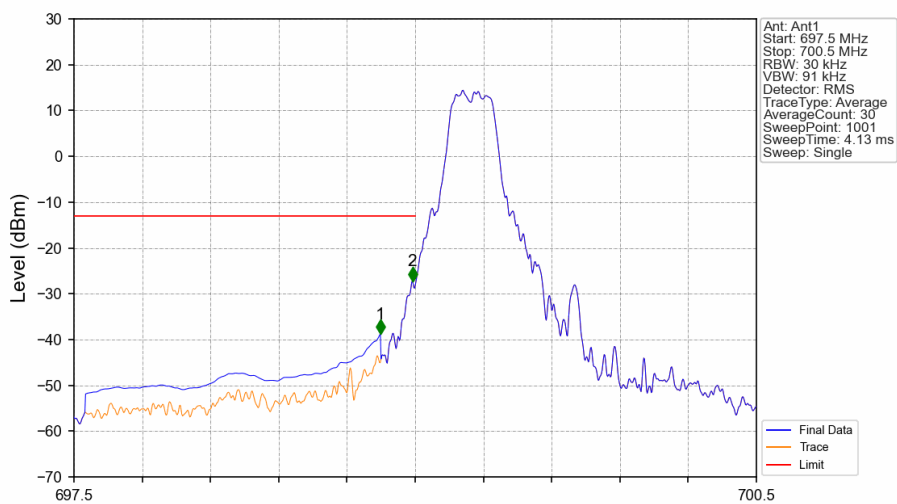
FCCID: 2BCUE-P8GLOBAL

## Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV



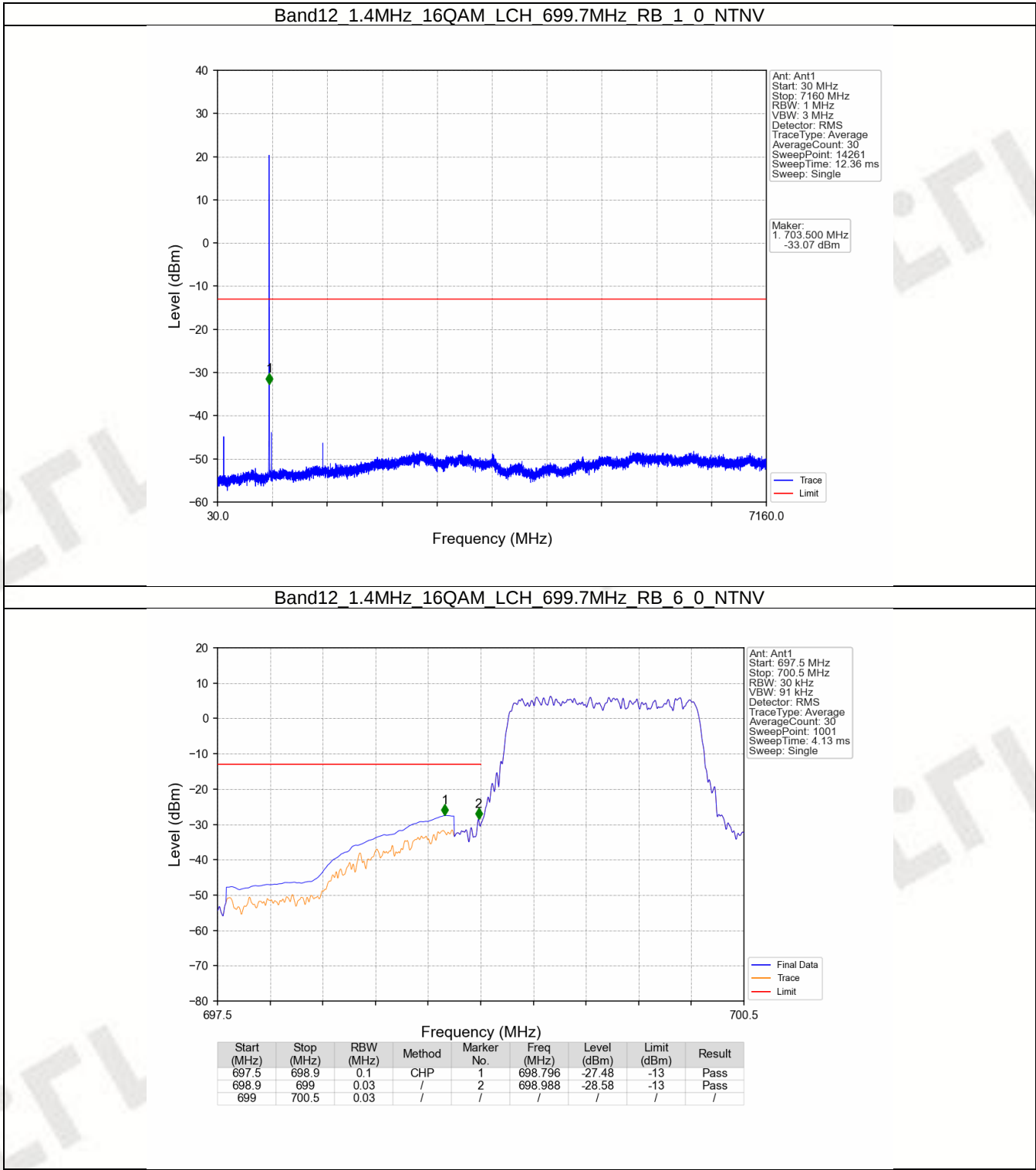
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 714.5       | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.012    | -29.22      | -13         | Pass   |
| 716.1       | 717.5      | 0.1       | CHP    | 2          | 716.228    | -28.71      | -13         | Pass   |

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



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 697.5       | 698.9      | 0.1       | CHP    | 1          | 698.847    | -38.73      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.988    | -27.24      | -13         | Pass   |
| 699         | 700.5      | 0.03      | /      | /          | /          | /           | /           | /      |

FCCID: 2BCUE-P8GLOBAL



FCCID: 2BCUE-P8GLOBAL

