

# Appendix B.4

## LTE Band 12



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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

### 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      | 23.63                 | 0.86       | 22.34     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.61                 | 0.86       | 22.32     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 23.54                 | 0.86       | 22.25     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 23.62                 | 0.86       | 22.33     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.57                 | 0.86       | 22.28     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 23.58                 | 0.86       | 22.29     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 22.57                 | 0.86       | 21.28     | <=34.77 | Pass    |
|                                     | 707.5           | 1             | 0      | 23.77                 | 0.86       | 22.48     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.84                 | 0.86       | 22.55     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 23.79                 | 0.86       | 22.50     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 23.82                 | 0.86       | 22.53     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.79                 | 0.86       | 22.50     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 23.8                  | 0.86       | 22.51     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 22.79                 | 0.86       | 21.50     | <=34.77 | Pass    |
|                                     | 715.3           | 1             | 0      | 23.81                 | 0.86       | 22.52     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.87                 | 0.86       | 22.58     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 23.76                 | 0.86       | 22.47     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 23.81                 | 0.86       | 22.52     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.81                 | 0.86       | 22.52     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 23.75                 | 0.86       | 22.46     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 22.82                 | 0.86       | 21.53     | <=34.77 | Pass    |
| 16QAM                               | 699.7           | 1             | 0      | 22.75                 | 0.86       | 21.46     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 22.77                 | 0.86       | 21.48     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 22.7                  | 0.86       | 21.41     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 22.71                 | 0.86       | 21.42     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 22.66                 | 0.86       | 21.37     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 22.66                 | 0.86       | 21.37     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 21.58                 | 0.86       | 20.29     | <=34.77 | Pass    |



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|  |       |   |   |       |      |       |         |      |
|--|-------|---|---|-------|------|-------|---------|------|
|  | 707.5 | 1 | 0 | 22.96 | 0.86 | 21.67 | <=34.77 | Pass |
|  |       |   | 2 | 22.96 | 0.86 | 21.67 | <=34.77 | Pass |
|  |       |   | 5 | 22.96 | 0.86 | 21.67 | <=34.77 | Pass |
|  |       | 3 | 0 | 22.88 | 0.86 | 21.59 | <=34.77 | Pass |
|  |       |   | 2 | 22.87 | 0.86 | 21.58 | <=34.77 | Pass |
|  |       |   | 3 | 22.85 | 0.86 | 21.56 | <=34.77 | Pass |
|  |       | 6 | 0 | 21.87 | 0.86 | 20.58 | <=34.77 | Pass |
|  | 715.3 | 1 | 0 | 22.98 | 0.86 | 21.69 | <=34.77 | Pass |
|  |       |   | 2 | 22.99 | 0.86 | 21.70 | <=34.77 | Pass |
|  |       |   | 5 | 22.95 | 0.86 | 21.66 | <=34.77 | Pass |
|  |       | 3 | 0 | 22.95 | 0.86 | 21.66 | <=34.77 | Pass |
|  |       |   | 2 | 22.91 | 0.86 | 21.62 | <=34.77 | Pass |
|  |       |   | 3 | 22.88 | 0.86 | 21.59 | <=34.77 | Pass |
|  |       | 6 | 0 | 21.68 | 0.86 | 20.39 | <=34.77 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 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      | 23.52                 | 0.86       | 22.23     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 23.63                 | 0.86       | 22.34     | <=34.77 | Pass    |
|                                  |                 |               | 14     | 23.52                 | 0.86       | 22.23     | <=34.77 | Pass    |
|                                  |                 | 8             | 0      | 22.68                 | 0.86       | 21.39     | <=34.77 | Pass    |
|                                  |                 |               | 4      | 22.69                 | 0.86       | 21.40     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 22.6                  | 0.86       | 21.31     | <=34.77 | Pass    |
|                                  |                 | 15            | 0      | 22.63                 | 0.86       | 21.34     | <=34.77 | Pass    |
|                                  | 707.5           | 1             | 0      | 23.78                 | 0.86       | 22.49     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 23.88                 | 0.86       | 22.59     | <=34.77 | Pass    |
|                                  |                 |               | 14     | 23.76                 | 0.86       | 22.47     | <=34.77 | Pass    |
|                                  |                 | 8             | 0      | 22.83                 | 0.86       | 21.54     | <=34.77 | Pass    |
|                                  |                 |               | 4      | 22.89                 | 0.86       | 21.60     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 22.88                 | 0.86       | 21.59     | <=34.77 | Pass    |
|                                  |                 | 15            | 0      | 22.81                 | 0.86       | 21.52     | <=34.77 | Pass    |
|                                  | 714.5           | 1             | 0      | 23.72                 | 0.86       | 22.43     | <=34.77 | Pass    |
|                                  |                 |               | 7      | 23.73                 | 0.86       | 22.44     | <=34.77 | Pass    |
|                                  |                 |               | 14     | 23.63                 | 0.86       | 22.34     | <=34.77 | Pass    |



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|       |       |    |    |       |      |       |         |      |
|-------|-------|----|----|-------|------|-------|---------|------|
| 16QAM | 700.5 | 8  | 0  | 22.72 | 0.86 | 21.43 | <=34.77 | Pass |
|       |       |    | 4  | 22.83 | 0.86 | 21.54 | <=34.77 | Pass |
|       |       |    | 7  | 22.69 | 0.86 | 21.40 | <=34.77 | Pass |
|       |       | 15 | 0  | 22.75 | 0.86 | 21.46 | <=34.77 | Pass |
|       |       |    | 0  | 22.87 | 0.86 | 21.58 | <=34.77 | Pass |
|       |       |    | 7  | 22.9  | 0.86 | 21.61 | <=34.77 | Pass |
|       | 707.5 | 1  | 14 | 22.77 | 0.86 | 21.48 | <=34.77 | Pass |
|       |       | 8  | 0  | 21.73 | 0.86 | 20.44 | <=34.77 | Pass |
|       |       |    | 4  | 21.73 | 0.86 | 20.44 | <=34.77 | Pass |
|       |       |    | 7  | 21.6  | 0.86 | 20.31 | <=34.77 | Pass |
|       |       | 15 | 0  | 21.64 | 0.86 | 20.35 | <=34.77 | Pass |
|       |       | 1  | 0  | 22.99 | 0.86 | 21.70 | <=34.77 | Pass |
|       |       |    | 7  | 23.04 | 0.86 | 21.75 | <=34.77 | Pass |
|       |       |    | 14 | 22.92 | 0.86 | 21.63 | <=34.77 | Pass |
|       |       | 8  | 0  | 21.78 | 0.86 | 20.49 | <=34.77 | Pass |
|       |       |    | 4  | 21.96 | 0.86 | 20.67 | <=34.77 | Pass |
|       |       |    | 7  | 21.91 | 0.86 | 20.62 | <=34.77 | Pass |
|       | 714.5 | 15 | 0  | 21.82 | 0.86 | 20.53 | <=34.77 | Pass |
|       |       | 1  | 0  | 22.91 | 0.86 | 21.62 | <=34.77 | Pass |
|       |       |    | 7  | 22.96 | 0.86 | 21.67 | <=34.77 | Pass |
|       |       |    | 14 | 22.83 | 0.86 | 21.54 | <=34.77 | Pass |
|       |       | 8  | 0  | 21.81 | 0.86 | 20.52 | <=34.77 | Pass |
|       |       |    | 4  | 21.87 | 0.86 | 20.58 | <=34.77 | Pass |
|       |       |    | 7  | 21.78 | 0.86 | 20.49 | <=34.77 | Pass |
|       |       | 15 | 0  | 21.78 | 0.86 | 20.49 | <=34.77 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.3 B12\_5MHz\_ERP

| Band: 12 / Bandwidth: 5MHz / NTNV |                 |               |        |                       |            |           |         |         |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                   |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                              | 701.5           | 1             | 0      | 23.82                 | 0.86       | 22.53     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.9                  | 0.86       | 22.61     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 23.82                 | 0.86       | 22.53     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 22.75                 | 0.86       | 21.46     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 22.84                 | 0.86       | 21.55     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 22.73                 | 0.86       | 21.44     | <=34.77 | Pass    |



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|       |       |    |    |       |      |       |         |      |
|-------|-------|----|----|-------|------|-------|---------|------|
|       | 707.5 | 25 | 0  | 22.82 | 0.86 | 21.53 | <=34.77 | Pass |
|       |       | 1  | 0  | 23.75 | 0.86 | 22.46 | <=34.77 | Pass |
|       |       |    | 13 | 23.82 | 0.86 | 22.53 | <=34.77 | Pass |
|       |       |    | 24 | 23.78 | 0.86 | 22.49 | <=34.77 | Pass |
|       |       | 12 | 0  | 22.77 | 0.86 | 21.48 | <=34.77 | Pass |
|       |       |    | 6  | 22.76 | 0.86 | 21.47 | <=34.77 | Pass |
|       |       |    | 13 | 22.81 | 0.86 | 21.52 | <=34.77 | Pass |
|       |       | 25 | 0  | 22.73 | 0.86 | 21.44 | <=34.77 | Pass |
|       | 713.5 | 1  | 0  | 24.02 | 0.86 | 22.73 | <=34.77 | Pass |
|       |       |    | 13 | 24.03 | 0.86 | 22.74 | <=34.77 | Pass |
|       |       |    | 24 | 23.88 | 0.86 | 22.59 | <=34.77 | Pass |
|       |       | 12 | 0  | 22.91 | 0.86 | 21.62 | <=34.77 | Pass |
|       |       |    | 6  | 22.97 | 0.86 | 21.68 | <=34.77 | Pass |
|       |       |    | 13 | 22.89 | 0.86 | 21.60 | <=34.77 | Pass |
|       |       | 25 | 0  | 22.96 | 0.86 | 21.67 | <=34.77 | Pass |
| 16QAM | 701.5 | 1  | 0  | 22.86 | 0.86 | 21.57 | <=34.77 | Pass |
|       |       |    | 13 | 22.86 | 0.86 | 21.57 | <=34.77 | Pass |
|       |       |    | 24 | 22.81 | 0.86 | 21.52 | <=34.77 | Pass |
|       |       | 12 | 0  | 21.66 | 0.86 | 20.37 | <=34.77 | Pass |
|       |       |    | 6  | 21.67 | 0.86 | 20.38 | <=34.77 | Pass |
|       |       |    | 13 | 21.65 | 0.86 | 20.36 | <=34.77 | Pass |
|       |       | 25 | 0  | 21.74 | 0.86 | 20.45 | <=34.77 | Pass |
|       | 707.5 | 1  | 0  | 22.88 | 0.86 | 21.59 | <=34.77 | Pass |
|       |       |    | 13 | 22.98 | 0.86 | 21.69 | <=34.77 | Pass |
|       |       |    | 24 | 22.9  | 0.86 | 21.61 | <=34.77 | Pass |
|       |       | 12 | 0  | 21.74 | 0.86 | 20.45 | <=34.77 | Pass |
|       |       |    | 6  | 21.67 | 0.86 | 20.38 | <=34.77 | Pass |
|       |       |    | 13 | 21.83 | 0.86 | 20.54 | <=34.77 | Pass |
|       |       | 25 | 0  | 21.73 | 0.86 | 20.44 | <=34.77 | Pass |
|       | 713.5 | 1  | 0  | 23.16 | 0.86 | 21.87 | <=34.77 | Pass |
|       |       |    | 13 | 23.09 | 0.86 | 21.80 | <=34.77 | Pass |
|       |       |    | 24 | 23.06 | 0.86 | 21.77 | <=34.77 | Pass |
|       |       | 12 | 0  | 21.82 | 0.86 | 20.53 | <=34.77 | Pass |
|       |       |    | 6  | 21.98 | 0.86 | 20.69 | <=34.77 | Pass |
|       |       |    | 13 | 21.99 | 0.86 | 20.70 | <=34.77 | Pass |
|       |       | 25 | 0  | 21.94 | 0.86 | 20.65 | <=34.77 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15



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### 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      | 23.78                 | 0.86       | 22.49     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 23.88                 | 0.86       | 22.59     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 23.89                 | 0.86       | 22.60     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 22.83                 | 0.86       | 21.54     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 22.93                 | 0.86       | 21.64     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 22.93                 | 0.86       | 21.64     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 22.92                 | 0.86       | 21.63     | <=34.77 | Pass    |
|                                    | 707.5           | 1             | 0      | 23.82                 | 0.86       | 22.53     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 23.94                 | 0.86       | 22.65     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 23.89                 | 0.86       | 22.60     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 22.87                 | 0.86       | 21.58     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 22.9                  | 0.86       | 21.61     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 22.96                 | 0.86       | 21.67     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 22.87                 | 0.86       | 21.58     | <=34.77 | Pass    |
|                                    | 711             | 1             | 0      | 23.91                 | 0.86       | 22.62     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 23.89                 | 0.86       | 22.60     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 23.85                 | 0.86       | 22.56     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 22.9                  | 0.86       | 21.61     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 23.01                 | 0.86       | 21.72     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 22.95                 | 0.86       | 21.66     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 22.96                 | 0.86       | 21.67     | <=34.77 | Pass    |
| 16QAM                              | 704             | 1             | 0      | 22.97                 | 0.86       | 21.68     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 23                    | 0.86       | 21.71     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 22.93                 | 0.86       | 21.64     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 21.84                 | 0.86       | 20.55     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 21.94                 | 0.86       | 20.65     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 21.91                 | 0.86       | 20.62     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 21.91                 | 0.86       | 20.62     | <=34.77 | Pass    |
|                                    | 707.5           | 1             | 0      | 22.97                 | 0.86       | 21.68     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 22.96                 | 0.86       | 21.67     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 22.86                 | 0.86       | 21.57     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 21.89                 | 0.86       | 20.60     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 21.91                 | 0.86       | 20.62     | <=34.77 | Pass    |



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|  |     |    |    |       |      |       |         |      |
|--|-----|----|----|-------|------|-------|---------|------|
|  |     |    | 25 | 21.99 | 0.86 | 20.70 | <=34.77 | Pass |
|  |     | 50 | 0  | 21.9  | 0.86 | 20.61 | <=34.77 | Pass |
|  | 711 | 1  | 0  | 23    | 0.86 | 21.71 | <=34.77 | Pass |
|  |     |    | 25 | 23.05 | 0.86 | 21.76 | <=34.77 | Pass |
|  |     |    | 49 | 23    | 0.86 | 21.71 | <=34.77 | Pass |
|  |     | 25 | 0  | 21.93 | 0.86 | 20.64 | <=34.77 | Pass |
|  |     |    | 13 | 21.98 | 0.86 | 20.69 | <=34.77 | Pass |
|  |     |    | 25 | 21.93 | 0.86 | 20.64 | <=34.77 | Pass |
|  |     | 50 | 0  | 21.97 | 0.86 | 20.68 | <=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          | 12.045           | 0.0172                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | 13.704           | 0.0196                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.43          | 5.407            | 0.0077                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.85          | 2.375            | 0.0034                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.85          | 1.259            | 0.0018                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.85          | 7.653            | 0.0109                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.85          | 2.389            | 0.0034                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 3.85          | 1.502            | 0.0021                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 3.85          | 0.086            | 0.0001                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 3.85          | 0.529            | 0.0008                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 3.85          | -0.558           | -0.0008               | -2.5 to 2.5 | Pass    |
|                              | 707.5           | 6             | 0      | 20         | 3.27          | -19.298          | -0.0273               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | -6.094           | -0.0086               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.43          | -1.445           | -0.0020               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.85          | -0.644           | -0.0009               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.85          | -0.200           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.85          | -0.100           | -0.0001               | -2.5 to 2.5 | Pass    |



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|       |       |   |   |     |      |         |         |             |      |
|-------|-------|---|---|-----|------|---------|---------|-------------|------|
|       |       |   |   | 0   | 3.85 | 0.129   | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.85 | 0.200   | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.85 | -0.715  | -0.0010 | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.85 | -0.100  | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.85 | 0.300   | 0.0004  | -2.5 to 2.5 | Pass |
|       | 715.3 | 6 | 0 | 20  | 3.27 | -21.443 | -0.0300 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.85 | -8.955  | -0.0125 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.43 | -2.747  | -0.0038 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.85 | -0.401  | -0.0006 | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.85 | -0.215  | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.85 | 0.114   | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.85 | -0.486  | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.85 | -0.587  | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.85 | 0.401   | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.85 | -0.343  | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.85 | -0.257  | -0.0004 | -2.5 to 2.5 | Pass |
| 16QAM | 699.7 | 6 | 0 | 20  | 3.27 | -0.315  | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.85 | -0.229  | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.43 | -0.300  | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.85 | -0.386  | -0.0006 | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.85 | -0.343  | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.85 | 0.372   | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.85 | 0.944   | 0.0013  | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.85 | 0.057   | 0.0001  | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.85 | -0.229  | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.85 | -0.672  | -0.0010 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.85 | 0.286   | 0.0004  | -2.5 to 2.5 | Pass |
|       | 707.5 | 6 | 0 | 20  | 3.27 | -0.501  | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.85 | 0.443   | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.43 | -0.501  | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.85 | 0.000   | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.85 | -0.329  | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.85 | 0.029   | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.85 | 0.544   | 0.0008  | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.85 | -0.029  | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.85 | 0.286   | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.85 | -0.086  | -0.0001 | -2.5 to 2.5 | Pass |



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|  |  |  |  |     |      |        |         |             |      |
|--|--|--|--|-----|------|--------|---------|-------------|------|
|  |  |  |  | 50  | 3.85 | 0.029  | 0.0000  | -2.5 to 2.5 | Pass |
|  |  |  |  |     | 3.27 | 0.057  | 0.0001  | -2.5 to 2.5 | Pass |
|  |  |  |  | 20  | 3.85 | 0.172  | 0.0002  | -2.5 to 2.5 | Pass |
|  |  |  |  |     | 4.43 | 0.558  | 0.0008  | -2.5 to 2.5 | Pass |
|  |  |  |  | -30 | 3.85 | -0.315 | -0.0004 | -2.5 to 2.5 | Pass |
|  |  |  |  | -20 | 3.85 | -0.386 | -0.0005 | -2.5 to 2.5 | Pass |
|  |  |  |  | -10 | 3.85 | 0.401  | 0.0006  | -2.5 to 2.5 | Pass |
|  |  |  |  | 0   | 3.85 | 0.472  | 0.0007  | -2.5 to 2.5 | Pass |
|  |  |  |  | 10  | 3.85 | 0.129  | 0.0002  | -2.5 to 2.5 | Pass |
|  |  |  |  | 30  | 3.85 | 0.758  | 0.0011  | -2.5 to 2.5 | Pass |
|  |  |  |  | 40  | 3.85 | 0.672  | 0.0009  | -2.5 to 2.5 | Pass |
|  |  |  |  | 50  | 3.85 | 0.772  | 0.0011  | -2.5 to 2.5 | Pass |

### 2.1.2 B12\_3MHz

| Band: 12 / Bandwidth: 3MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 700.5           | 15            | 0      | 20         | 3.27          | 1.817            | 0.0026                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | 1.445            | 0.0021                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | 1.316            | 0.0019                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | 0.787            | 0.0011                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | 1.574            | 0.0022                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | 1.574            | 0.0022                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | 0.758            | 0.0011                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -0.157           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | 0.143            | 0.0002                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -0.601           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | 0.801            | 0.0011                | -2.5 to 2.5 | Pass    |
|                            | 707.5           | 15            | 0      | 20         | 3.27          | 1.431            | 0.0020                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | 0.901            | 0.0013                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | 1.645            | 0.0023                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | 1.044            | 0.0015                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | 0.758            | 0.0011                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -0.114           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -0.100           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -0.558           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | 0.200            | 0.0003                | -2.5 to 2.5 | Pass    |



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|       |       |    |   |     |      |        |         |             |      |
|-------|-------|----|---|-----|------|--------|---------|-------------|------|
|       | 714.5 | 15 | 0 | 40  | 3.85 | -0.014 | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -0.129 | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |    |   | 20  | 3.27 | 1.488  | 0.0021  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 0.815  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | 0.844  | 0.0012  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | 0.229  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -0.501 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 1.216  | 0.0017  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | 0.401  | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | 0.701  | 0.0010  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | 0.358  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | 0.830  | 0.0012  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | 0.544  | 0.0008  | -2.5 to 2.5 | Pass |
| 16QAM | 700.5 | 15 | 0 | 20  | 3.27 | 0.300  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 0.672  | 0.0010  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -0.329 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | 0.343  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -0.343 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 0.701  | 0.0010  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | 0.215  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | 0.787  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -0.486 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | 0.830  | 0.0012  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -0.186 | -0.0003 | -2.5 to 2.5 | Pass |
|       | 707.5 | 15 | 0 | 20  | 3.27 | 0.758  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -0.572 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | 0.315  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | 0.029  | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -0.529 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 0.057  | 0.0001  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -0.057 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | 0.772  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -0.343 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | 0.257  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -0.544 | -0.0008 | -2.5 to 2.5 | Pass |
|       | 714.5 | 15 | 0 | 20  | 3.27 | -0.486 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 0.215  | 0.0003  | -2.5 to 2.5 | Pass |



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|  |  |  |  |     |      |        |         |             |      |
|--|--|--|--|-----|------|--------|---------|-------------|------|
|  |  |  |  |     | 4.43 | -0.515 | -0.0007 | -2.5 to 2.5 | Pass |
|  |  |  |  | -30 | 3.85 | 0.243  | 0.0003  | -2.5 to 2.5 | Pass |
|  |  |  |  | -20 | 3.85 | 0.486  | 0.0007  | -2.5 to 2.5 | Pass |
|  |  |  |  | -10 | 3.85 | 0.257  | 0.0004  | -2.5 to 2.5 | Pass |
|  |  |  |  | 0   | 3.85 | -0.372 | -0.0005 | -2.5 to 2.5 | Pass |
|  |  |  |  | 10  | 3.85 | 1.202  | 0.0017  | -2.5 to 2.5 | Pass |
|  |  |  |  | 30  | 3.85 | -0.329 | -0.0005 | -2.5 to 2.5 | Pass |
|  |  |  |  | 40  | 3.85 | 0.443  | 0.0006  | -2.5 to 2.5 | Pass |
|  |  |  |  | 50  | 3.85 | -0.272 | -0.0004 | -2.5 to 2.5 | Pass |

### 2.1.3 B12\_5MHz

| Band: 12 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 701.5           | 25            | 0      | 20         | 3.27          | -0.973           | -0.0014               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -0.043           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | 0.186            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -0.601           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | 0.587            | 0.0008                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -0.215           | -0.0003               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | 0.329            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | 0.300            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | 0.501            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | 0.429            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | 1.202            | 0.0017                | -2.5 to 2.5 | Pass    |
|                            | 707.5           | 25            | 0      | 20         | 3.27          | 0.129            | 0.0002                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | 0.887            | 0.0013                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | 0.443            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | 0.458            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | 0.157            | 0.0002                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -0.558           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -0.687           | -0.0010               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | 0.200            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -0.014           | 0.0000                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -0.372           | -0.0005               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | -0.787           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            | 713.5           | 25            | 0      | 20         | 3.27          | -0.629           | -0.0009               | -2.5 to 2.5 | Pass    |



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|       |       |    |   |     |      |        |         |             |      |
|-------|-------|----|---|-----|------|--------|---------|-------------|------|
|       |       |    |   |     | 3.85 | 0.415  | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -0.286 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -0.014 | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | 0.415  | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 1.144  | 0.0016  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | 1.845  | 0.0026  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | 1.030  | 0.0014  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | 0.916  | 0.0013  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | 1.316  | 0.0018  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | 1.316  | 0.0018  | -2.5 to 2.5 | Pass |
| 16QAM | 701.5 | 25 | 0 | 20  | 3.27 | 1.431  | 0.0020  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 1.945  | 0.0028  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | 0.830  | 0.0012  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | 1.359  | 0.0019  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | 1.674  | 0.0024  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 1.588  | 0.0023  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | 0.815  | 0.0012  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | 0.358  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | 0.515  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -0.157 | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | 0.529  | 0.0008  | -2.5 to 2.5 | Pass |
|       | 707.5 | 25 | 0 | 20  | 3.27 | -0.300 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 0.243  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -0.658 | -0.0009 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -1.130 | -0.0016 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -1.402 | -0.0020 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 0.157  | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -0.930 | -0.0013 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -0.486 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -0.215 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -0.300 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -0.472 | -0.0007 | -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 | 0.672  | 0.0009  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | 1.431  | 0.0020  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | 1.345  | 0.0019  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | 0.114  | 0.0002  | -2.5 to 2.5 | Pass |



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|  |  |  |  |     |      |        |         |             |      |
|--|--|--|--|-----|------|--------|---------|-------------|------|
|  |  |  |  | -10 | 3.85 | -0.658 | -0.0009 | -2.5 to 2.5 | Pass |
|  |  |  |  | 0   | 3.85 | 0.629  | 0.0009  | -2.5 to 2.5 | Pass |
|  |  |  |  | 10  | 3.85 | -0.043 | -0.0001 | -2.5 to 2.5 | Pass |
|  |  |  |  | 30  | 3.85 | 0.014  | 0.0000  | -2.5 to 2.5 | Pass |
|  |  |  |  | 40  | 3.85 | -0.014 | 0.0000  | -2.5 to 2.5 | Pass |
|  |  |  |  | 50  | 3.85 | 0.043  | 0.0001  | -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          | 0.315            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 0.529            | 0.0008                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | 0.615            | 0.0009                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | 0.558            | 0.0008                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -0.157           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | 0.386            | 0.0005                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -0.043           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -0.043           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | 0.672            | 0.0010                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | 0.315            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | 0.200            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             | 707.5           | 50            | 0      | 20         | 3.27          | -0.701           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -0.987           | -0.0014               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -0.215           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -0.944           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -0.529           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -0.558           | -0.0008               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | 0.014            | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -0.887           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -0.215           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -0.501           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -0.644           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             | 711             | 50            | 0      | 20         | 3.27          | -0.687           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -1.159           | -0.0016               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -0.901           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -1.473           | -0.0021               | -2.5 to 2.5 | Pass    |



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|       |       |    |   |     |      |        |         |             |      |
|-------|-------|----|---|-----|------|--------|---------|-------------|------|
|       |       |    |   | -20 | 3.85 | -0.486 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -1.216 | -0.0017 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -0.386 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -0.858 | -0.0012 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -0.572 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -0.830 | -0.0012 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -1.116 | -0.0016 | -2.5 to 2.5 | Pass |
| 16QAM | 704   | 50 | 0 | 20  | 3.27 | -0.014 | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -0.186 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | 0.443  | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | 0.086  | 0.0001  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -0.243 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -0.472 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -0.329 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -0.529 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -0.014 | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -1.130 | -0.0016 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -0.486 | -0.0007 | -2.5 to 2.5 | Pass |
|       | 707.5 | 50 | 0 | 20  | 3.27 | -1.302 | -0.0018 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -0.243 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -0.801 | -0.0011 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -0.401 | -0.0006 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -0.372 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -0.458 | -0.0006 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -1.059 | -0.0015 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -0.386 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -1.302 | -0.0018 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -0.701 | -0.0010 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -1.101 | -0.0016 | -2.5 to 2.5 | Pass |
|       | 711   | 50 | 0 | 20  | 3.27 | -0.844 | -0.0012 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -0.386 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -0.458 | -0.0006 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -0.944 | -0.0013 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -0.715 | -0.0010 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -0.944 | -0.0013 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -1.259 | -0.0018 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -1.945 | -0.0027 | -2.5 to 2.5 | Pass |



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|  |  |  |  |    |      |        |         |             |      |
|--|--|--|--|----|------|--------|---------|-------------|------|
|  |  |  |  | 30 | 3.85 | -1.731 | -0.0024 | -2.5 to 2.5 | Pass |
|  |  |  |  | 40 | 3.85 | -0.901 | -0.0013 | -2.5 to 2.5 | Pass |
|  |  |  |  | 50 | 3.85 | -1.116 | -0.0016 | -2.5 to 2.5 | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band12\_OBW

| Band: 12 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 1.4             | QPSK       | 699.7           | 6             | 0      | 1.122                        | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.113                        | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.126                        | /     | Pass    |
|                 | 16QAM      | 699.7           | 6             | 0      | 1.126                        | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.129                        | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.123                        | /     | Pass    |
| 3               | QPSK       | 700.5           | 15            | 0      | 2.753                        | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.754                        | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.753                        | /     | Pass    |
|                 | 16QAM      | 700.5           | 15            | 0      | 2.735                        | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.750                        | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.738                        | /     | Pass    |
| 5               | QPSK       | 701.5           | 25            | 0      | 4.568                        | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 4.569                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.557                        | /     | Pass    |
|                 | 16QAM      | 701.5           | 25            | 0      | 4.562                        | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 4.566                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.570                        | /     | Pass    |
| 10              | QPSK       | 704             | 50            | 0      | 9.054                        | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 9.080                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.080                        | /     | Pass    |
|                 | 16QAM      | 704             | 50            | 0      | 9.039                        | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 9.072                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.093                        | /     | Pass    |



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### 3.1.2 Band12\_XDB

| Band: 12 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 1.4             | QPSK       | 699.7           | 6             | 0      | 1.402                | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.408                | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.407                | /     | Pass    |
|                 | 16QAM      | 699.7           | 6             | 0      | 1.416                | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.431                | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.411                | /     | Pass    |
| 3               | QPSK       | 700.5           | 15            | 0      | 3.140                | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 3.095                | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 3.166                | /     | Pass    |
|                 | 16QAM      | 700.5           | 15            | 0      | 3.144                | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 3.105                | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 3.133                | /     | Pass    |
| 5               | QPSK       | 701.5           | 25            | 0      | 5.289                | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 5.237                | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 5.231                | /     | Pass    |
|                 | 16QAM      | 701.5           | 25            | 0      | 5.178                | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 5.328                | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 5.331                | /     | Pass    |
| 10              | QPSK       | 704             | 50            | 0      | 10.205               | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 10.176               | /     | Pass    |
|                 |            | 711             | 50            | 0      | 10.212               | /     | Pass    |
|                 | 16QAM      | 704             | 50            | 0      | 10.094               | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 10.830               | /     | Pass    |
|                 |            | 711             | 50            | 0      | 10.226               | /     | Pass    |



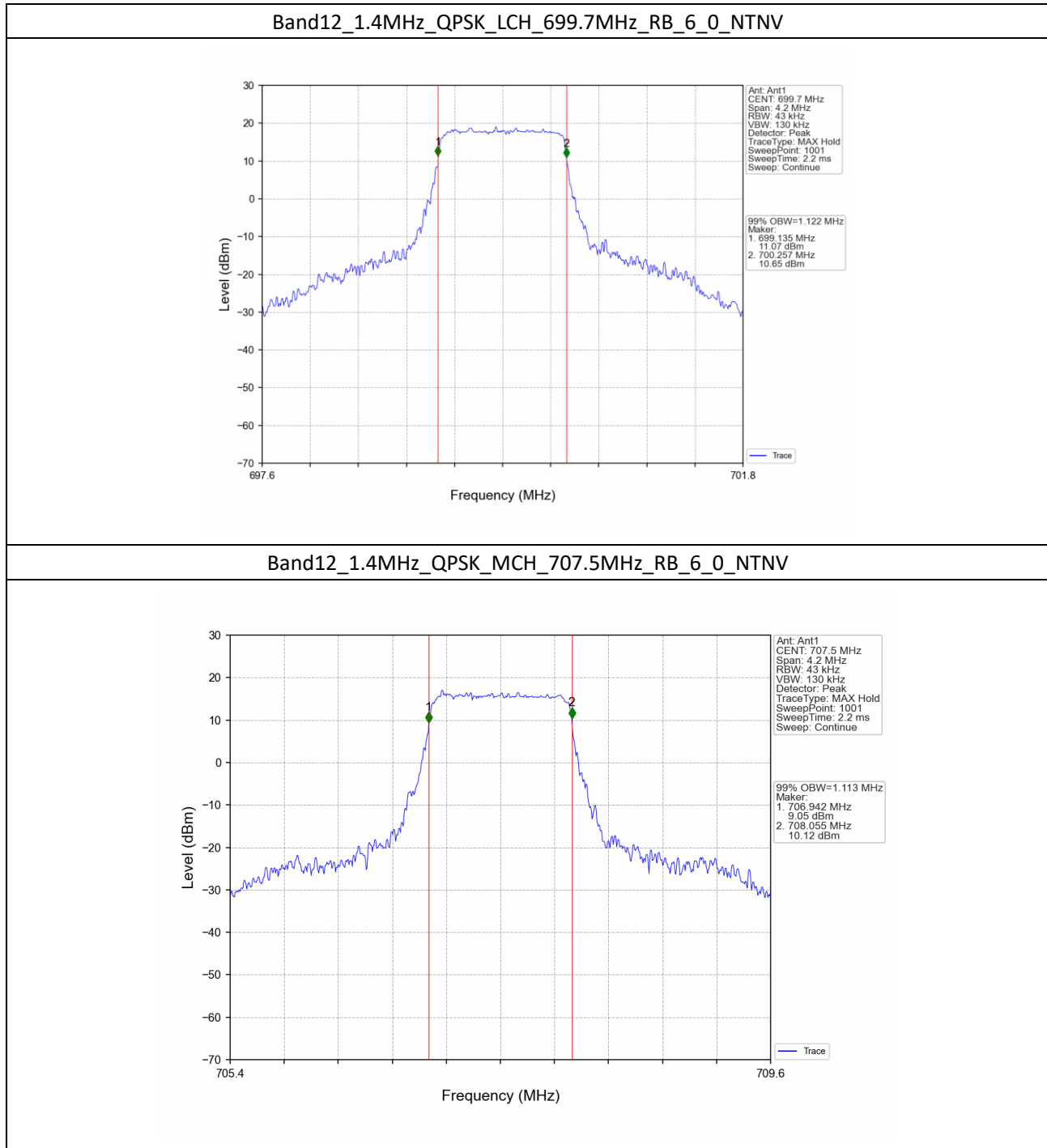
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### 3.2 Test Graph

#### 3.2.1 Band12\_OBW

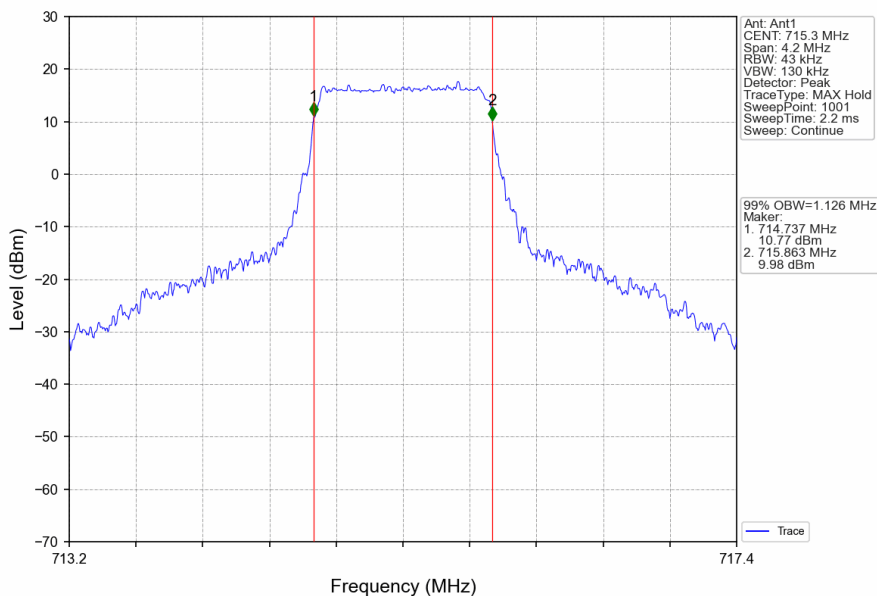


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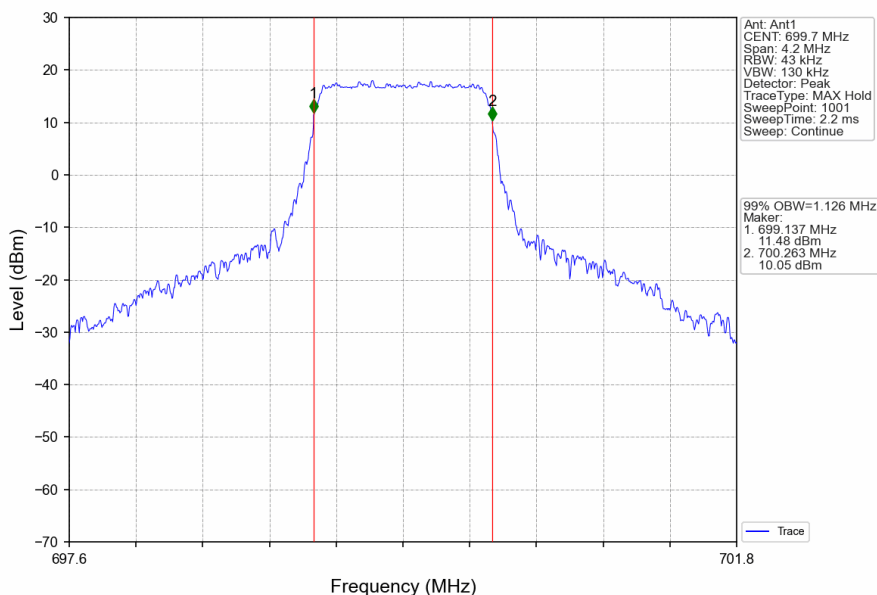
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Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



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



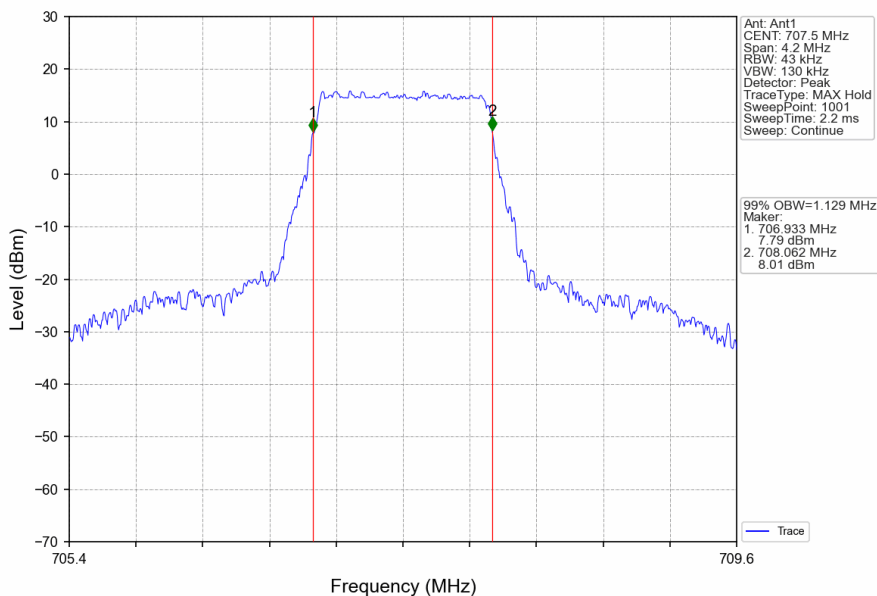
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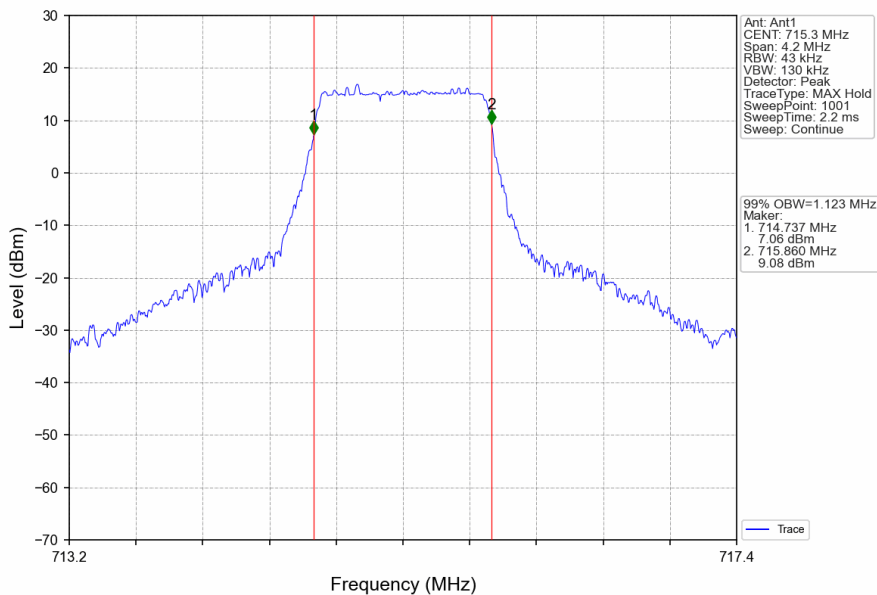
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Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



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

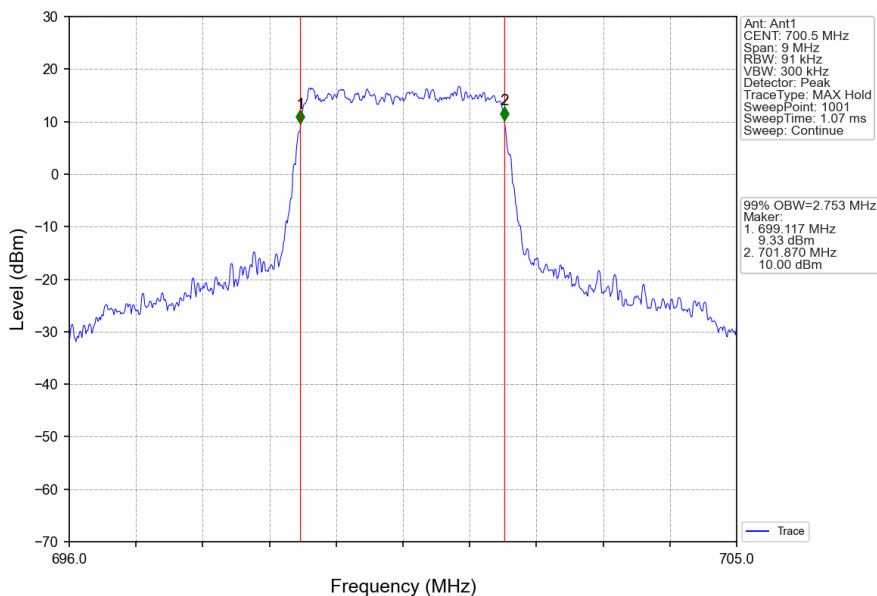


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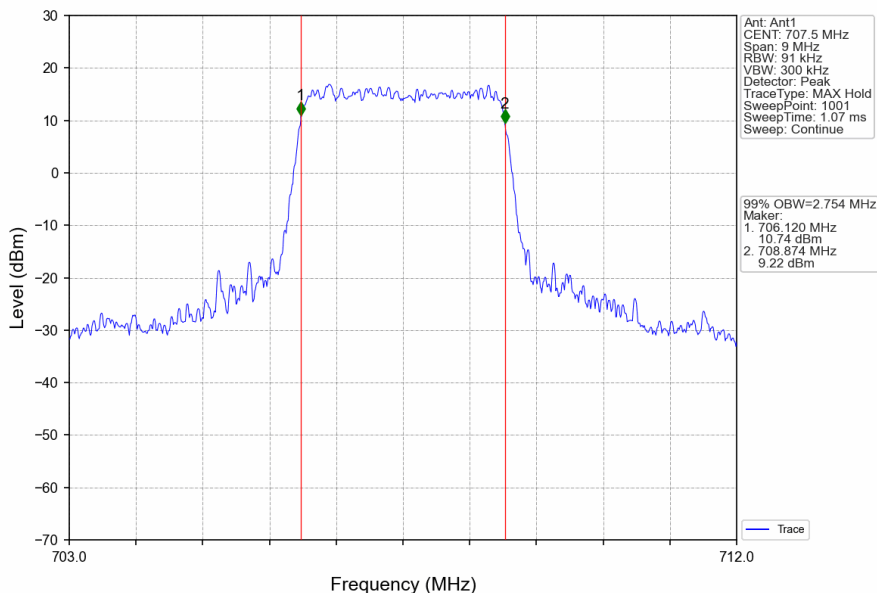
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Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



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

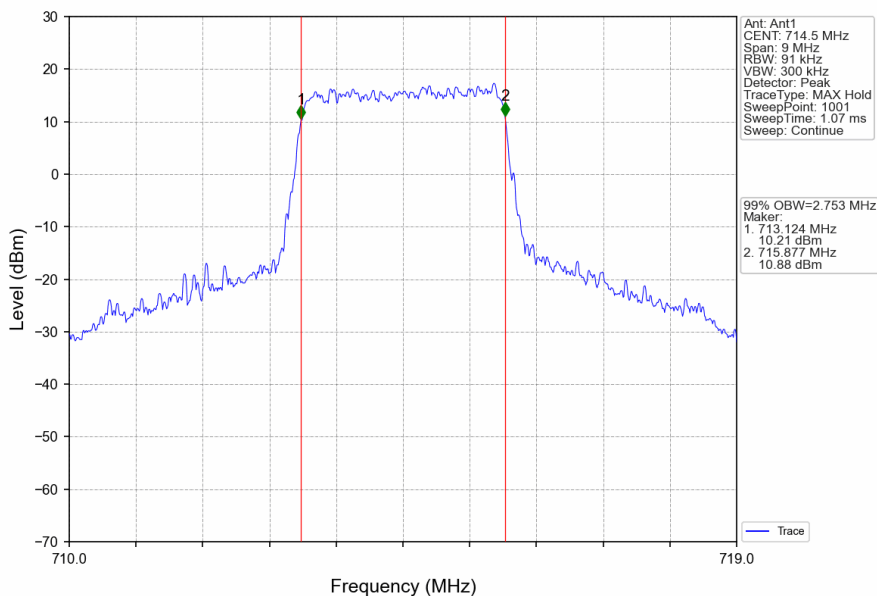


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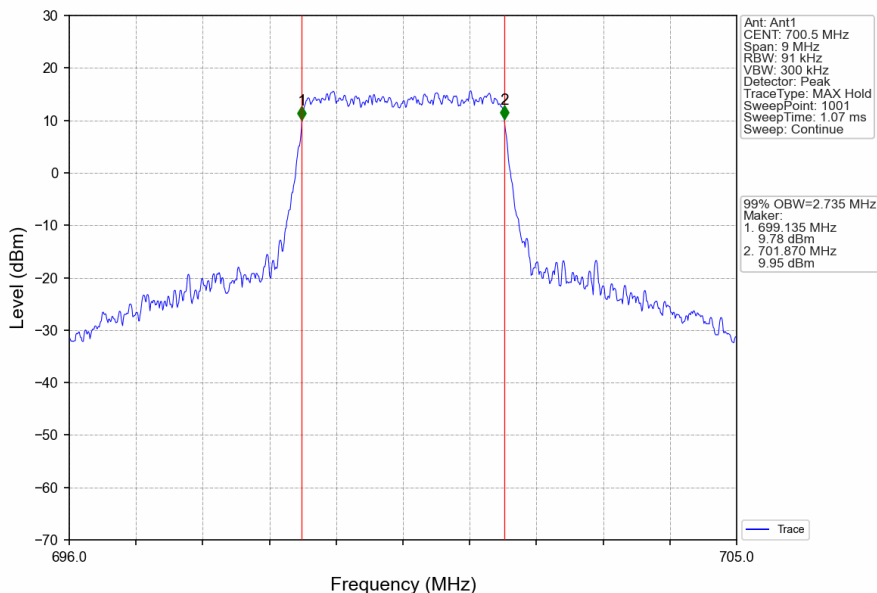
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Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



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

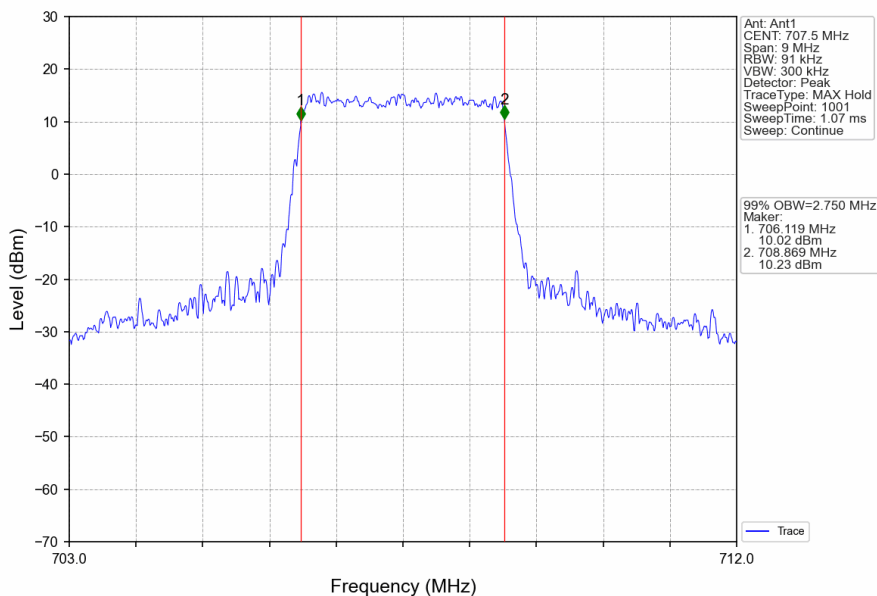


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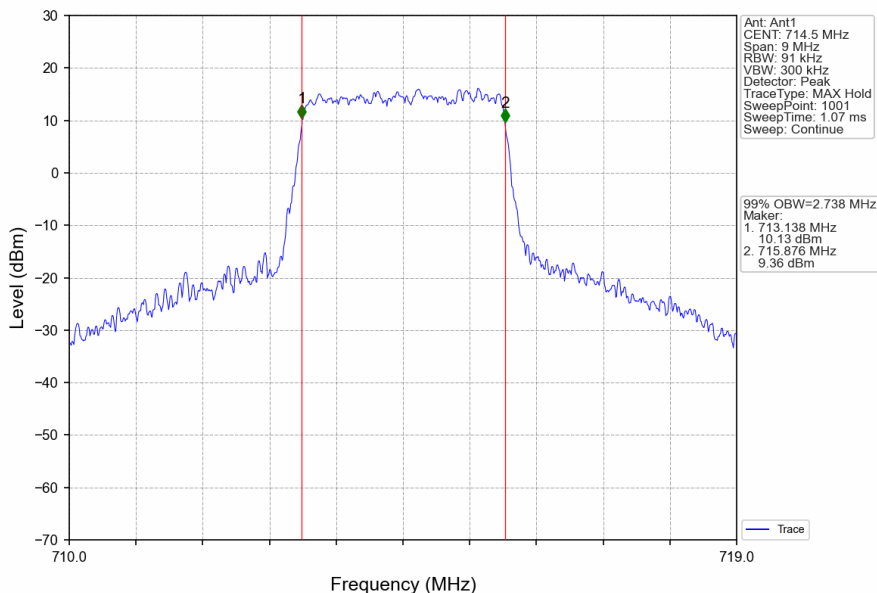
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Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV

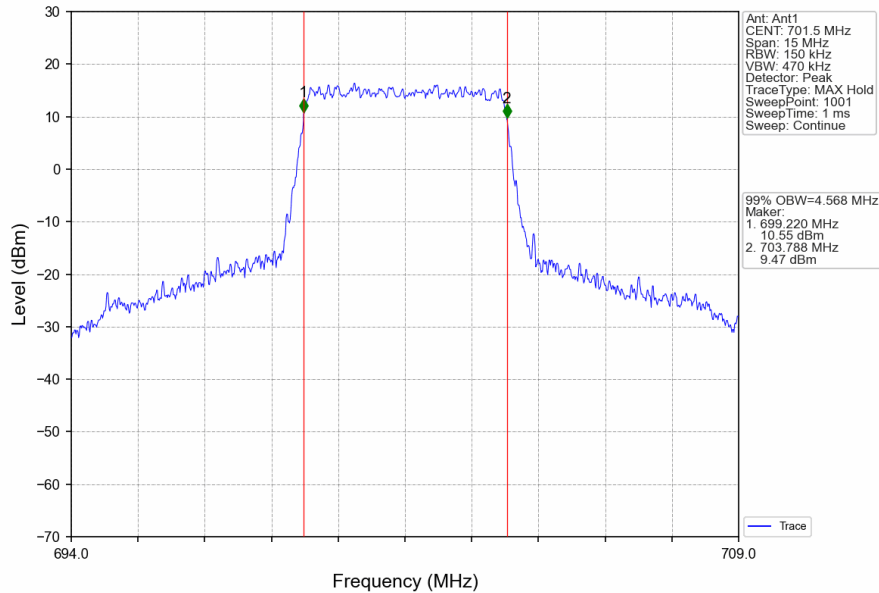


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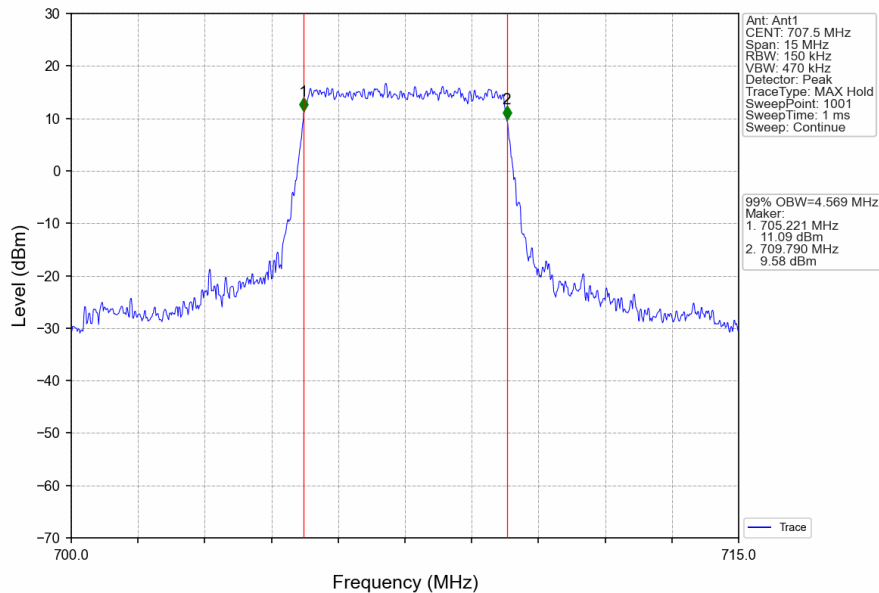
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Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



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



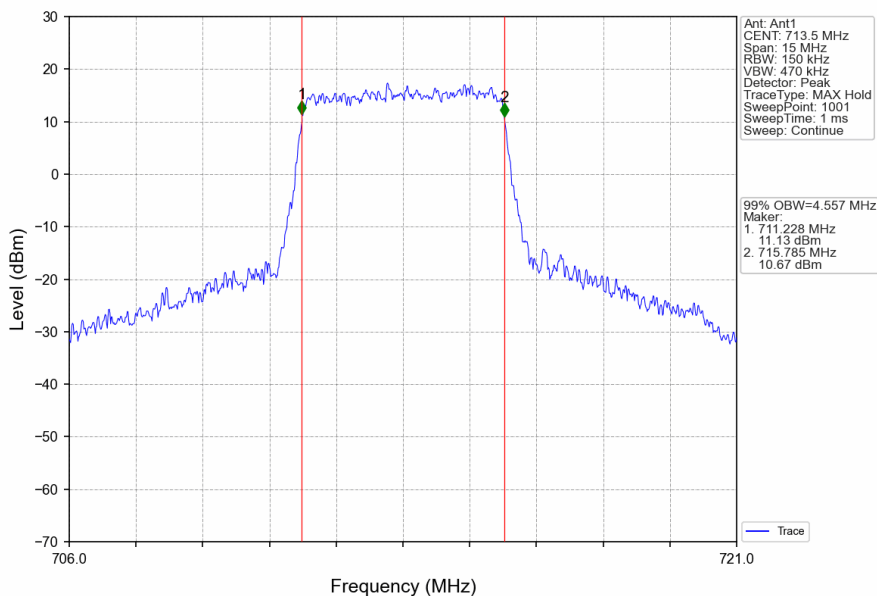
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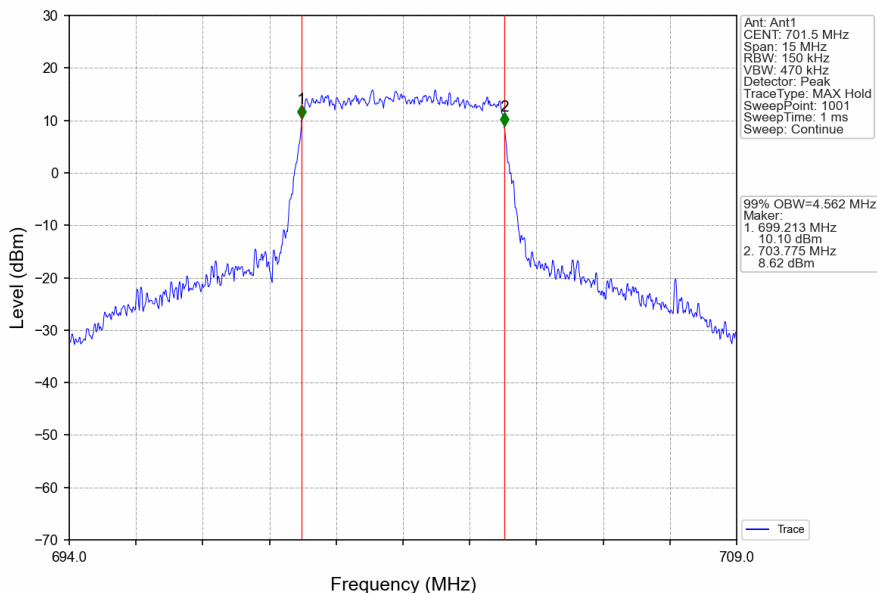
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Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



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

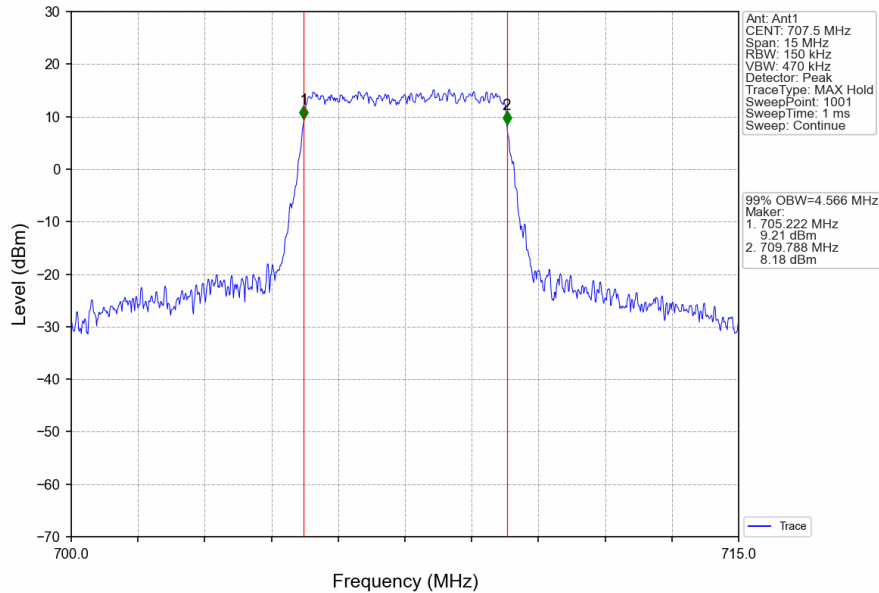


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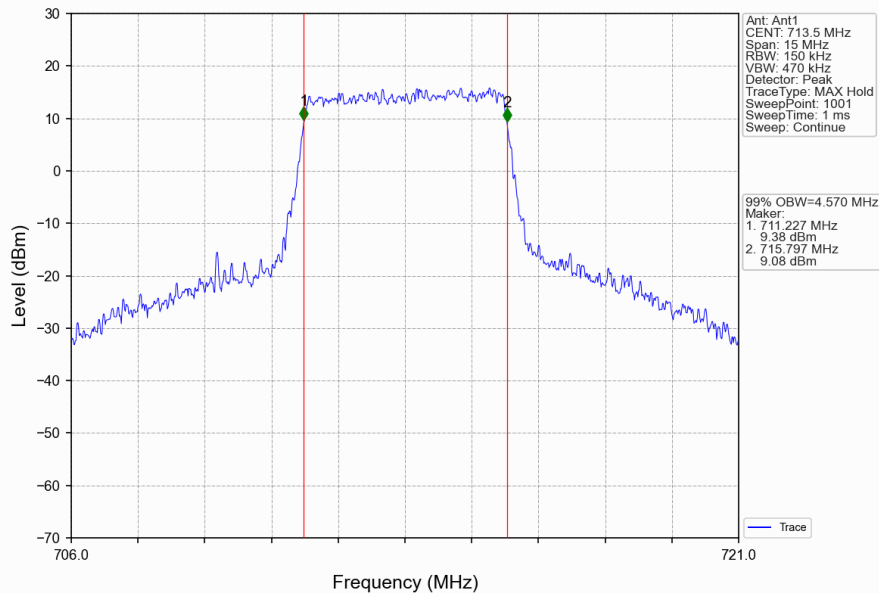
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Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



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

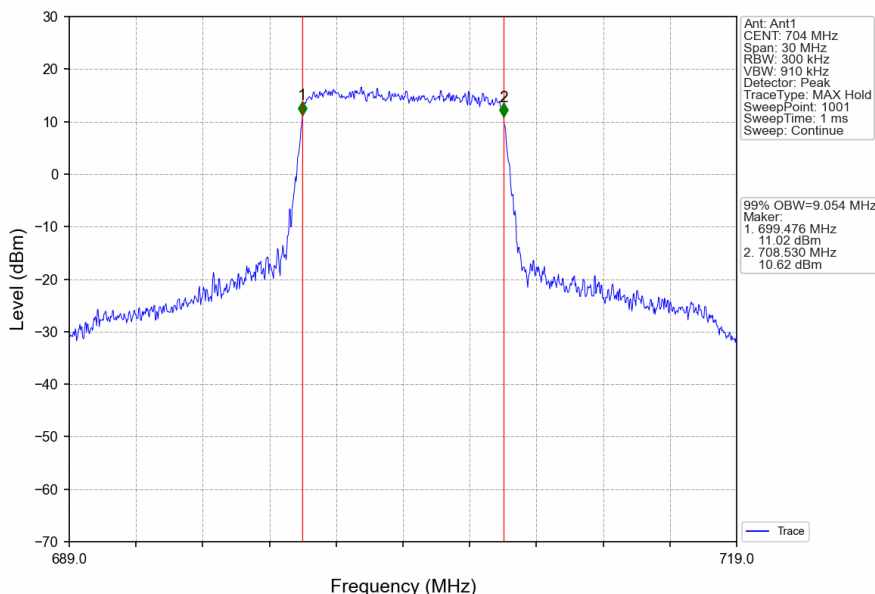


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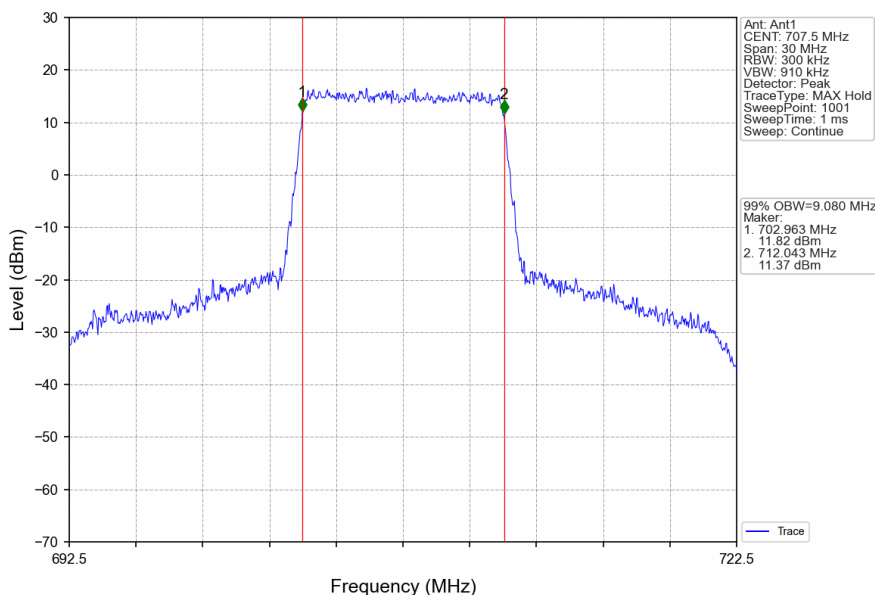
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Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



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

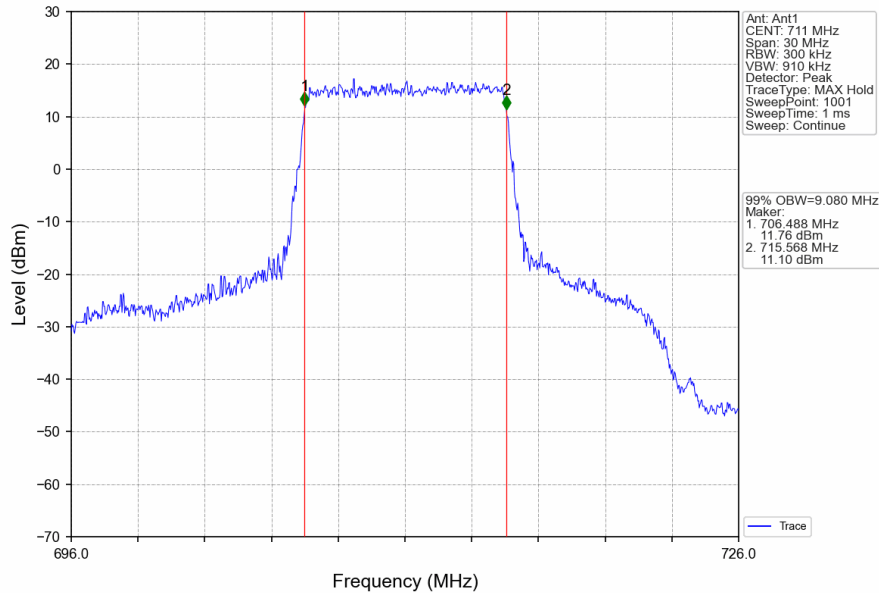


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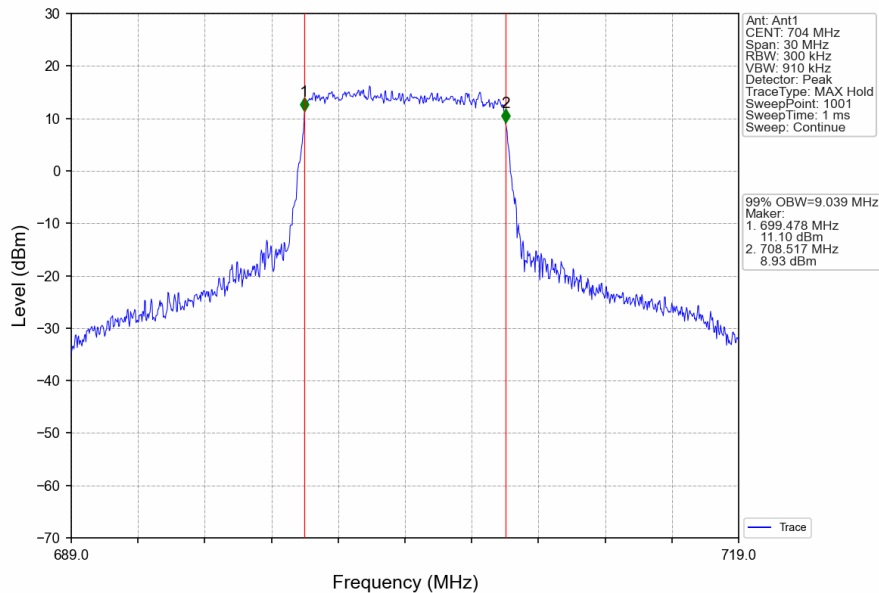
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Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



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

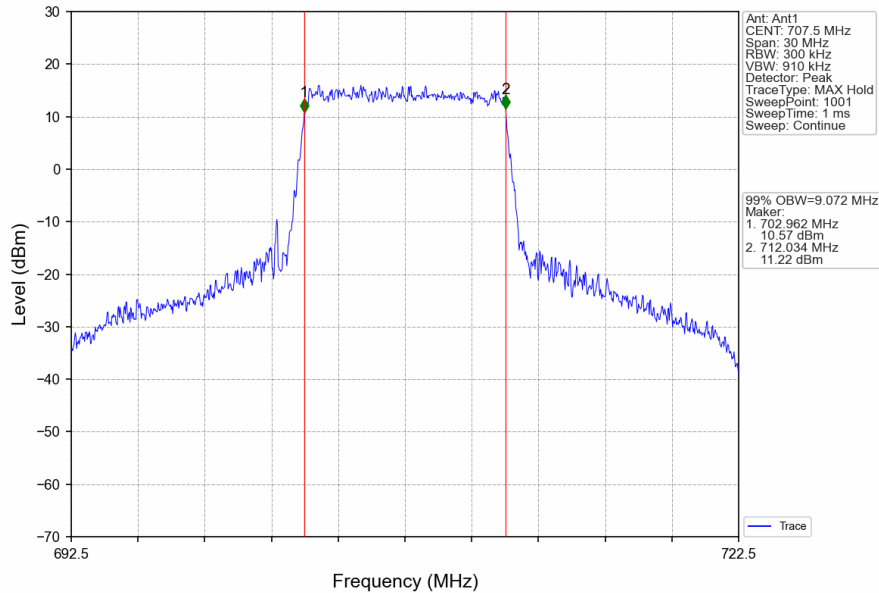


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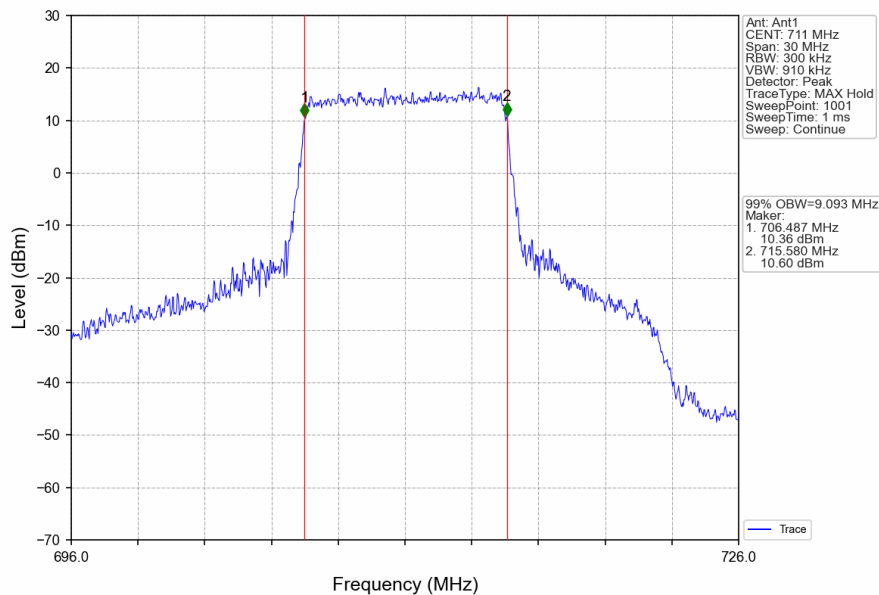
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Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



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



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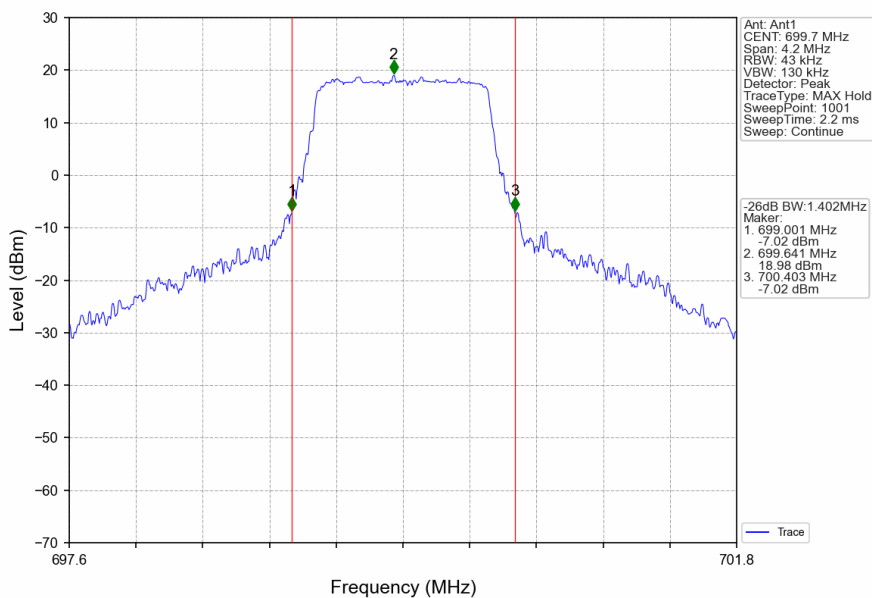
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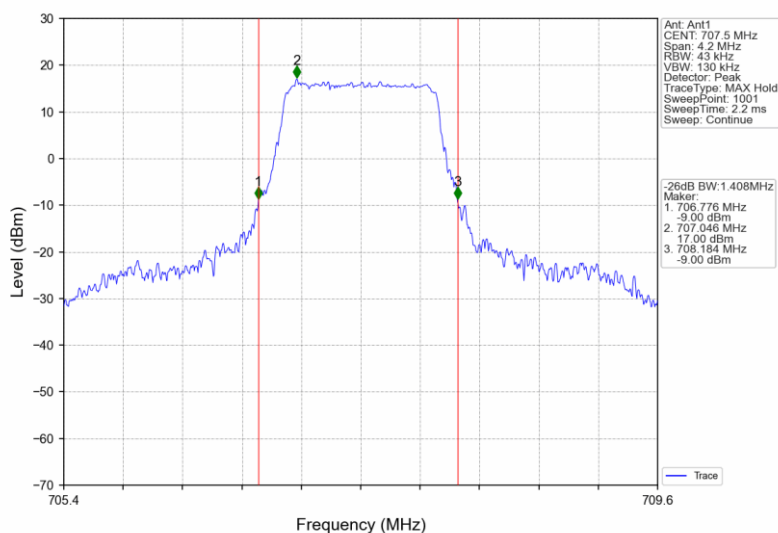


### 3.2.2 Band12\_XDB

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



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

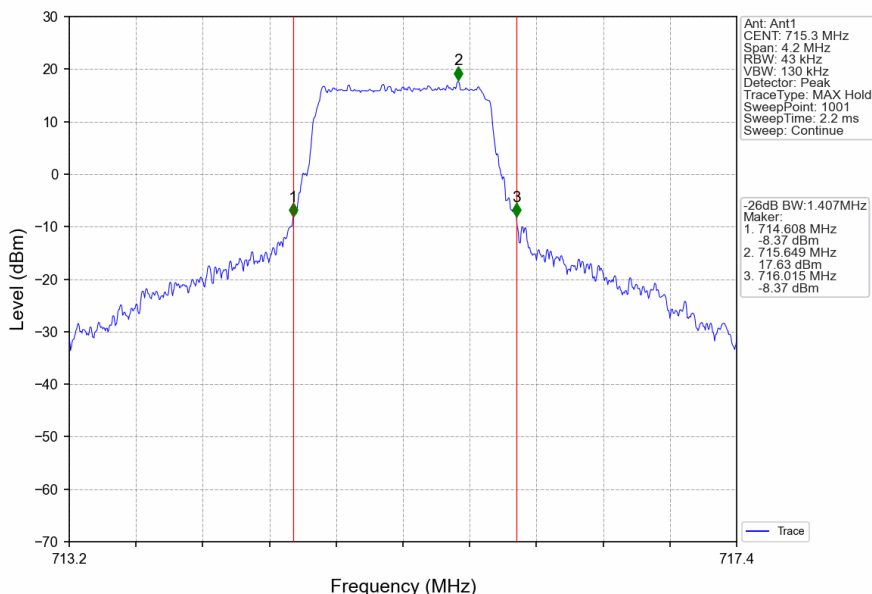


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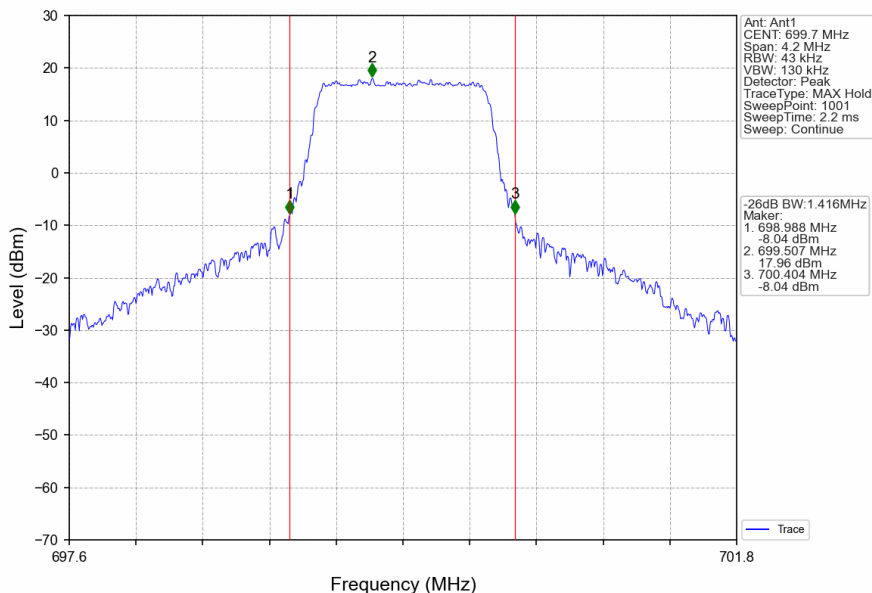
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Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



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

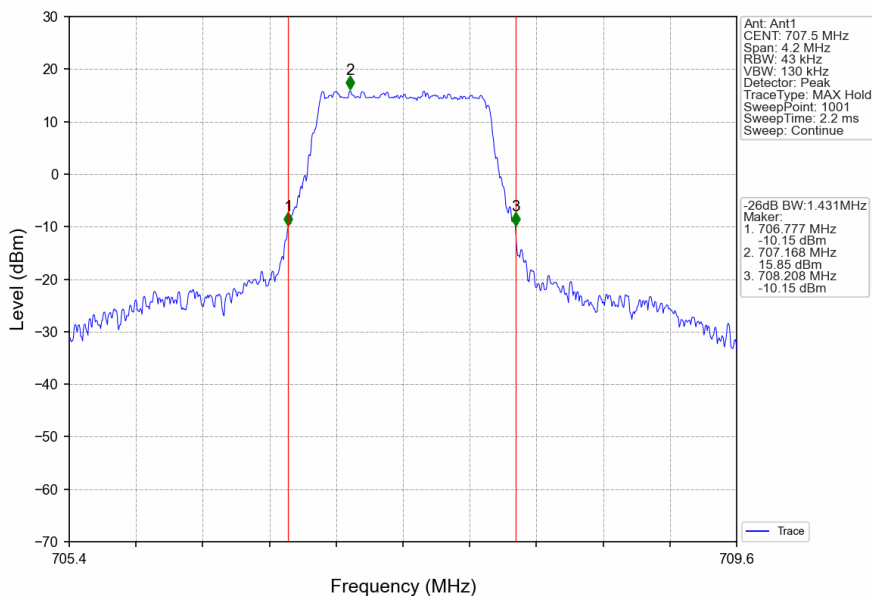


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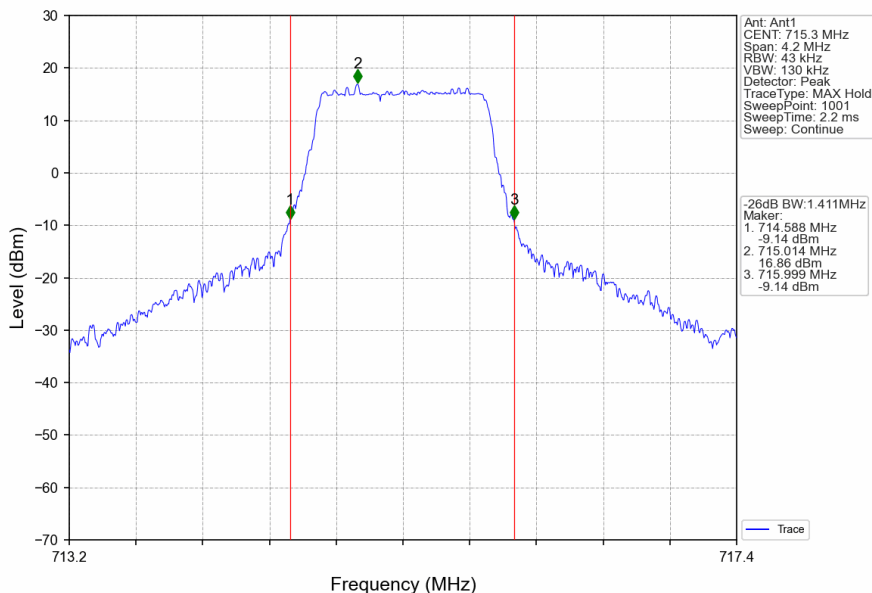
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Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



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

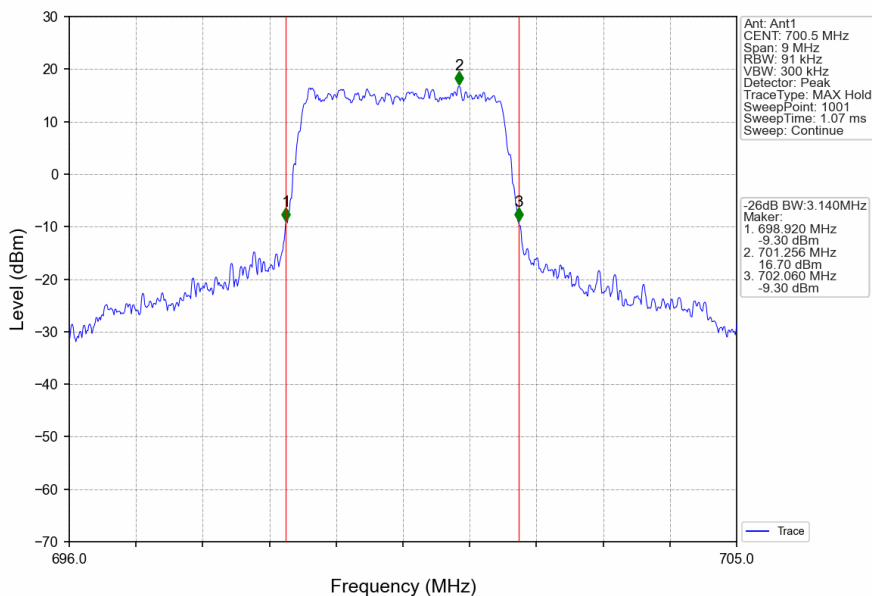


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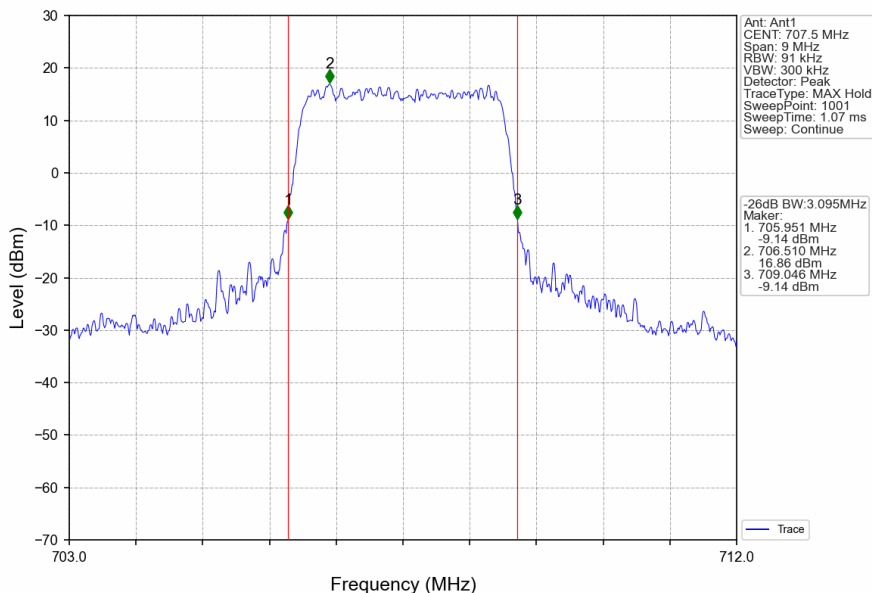
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Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



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

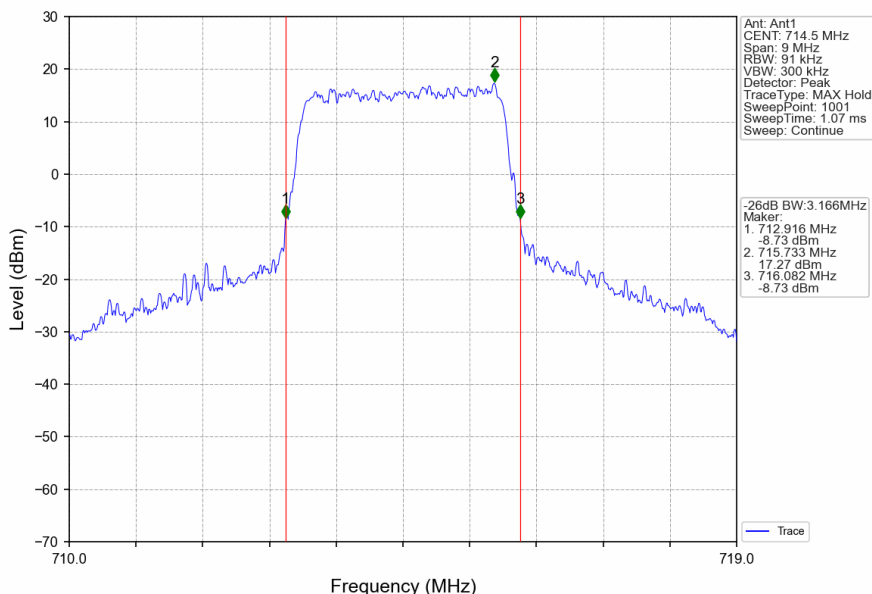


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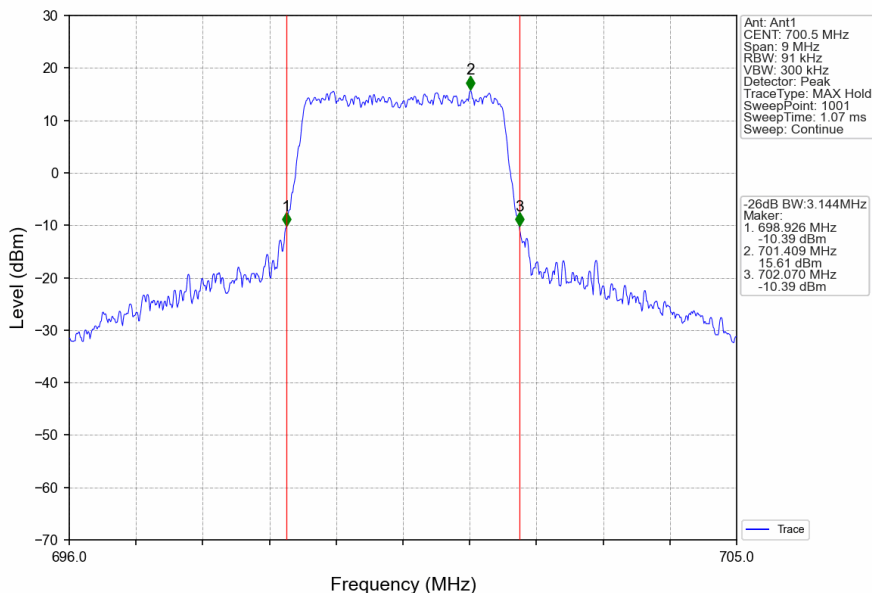
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Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



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



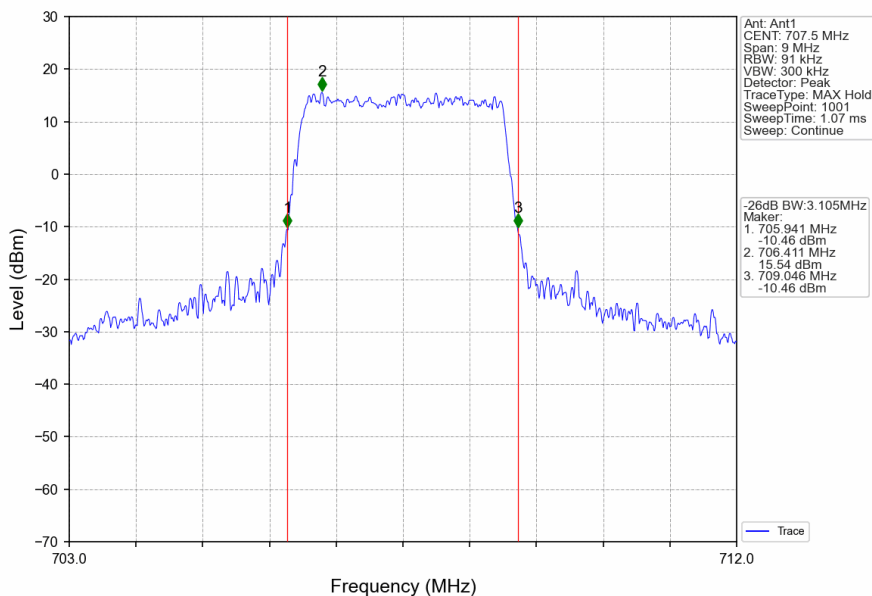
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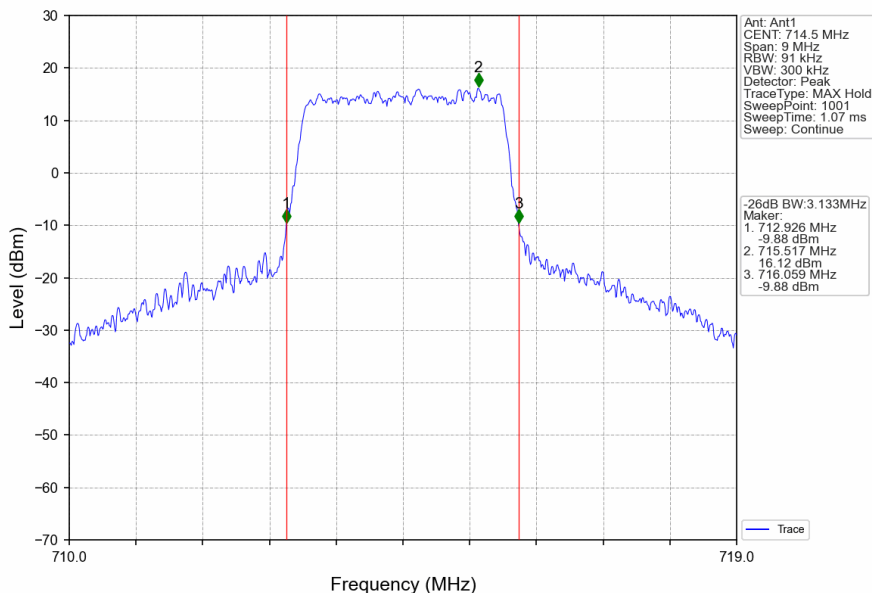
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Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



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

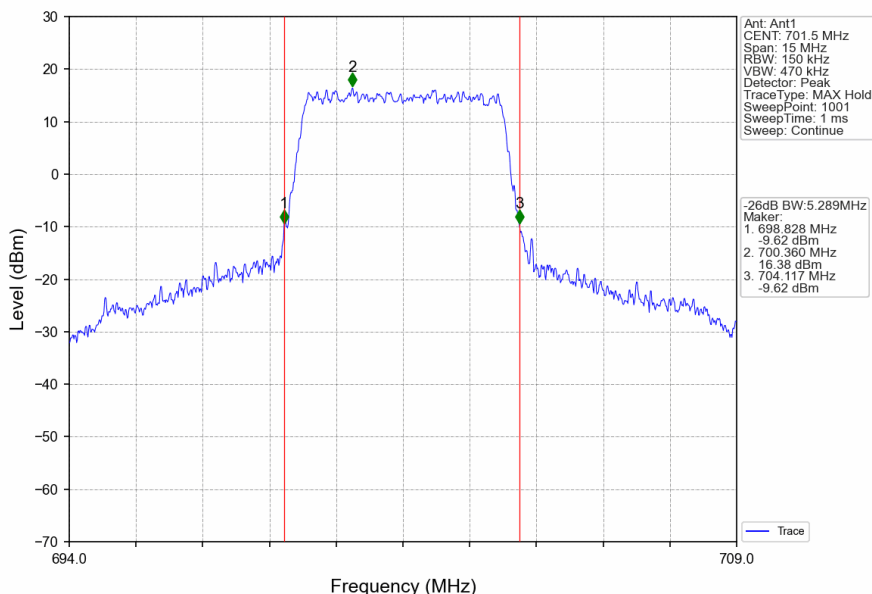


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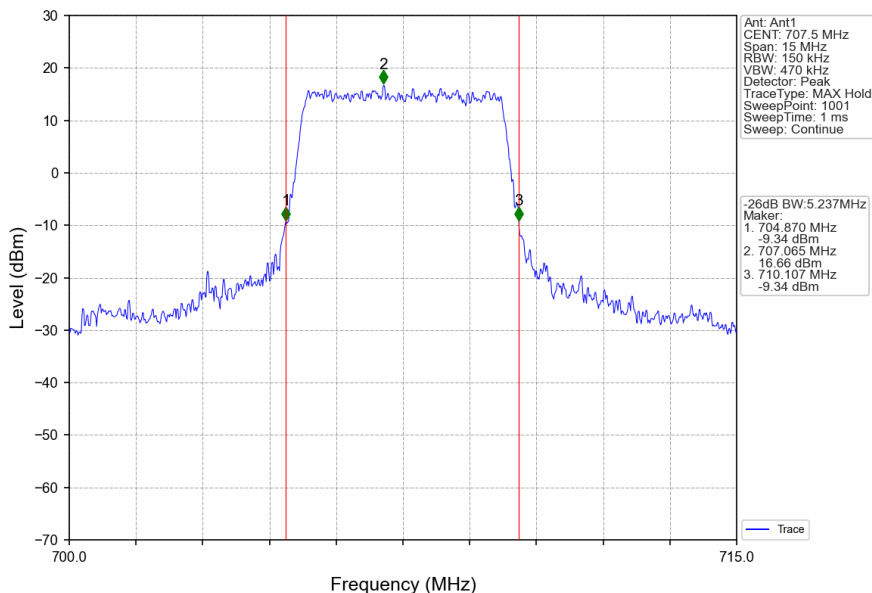
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Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV

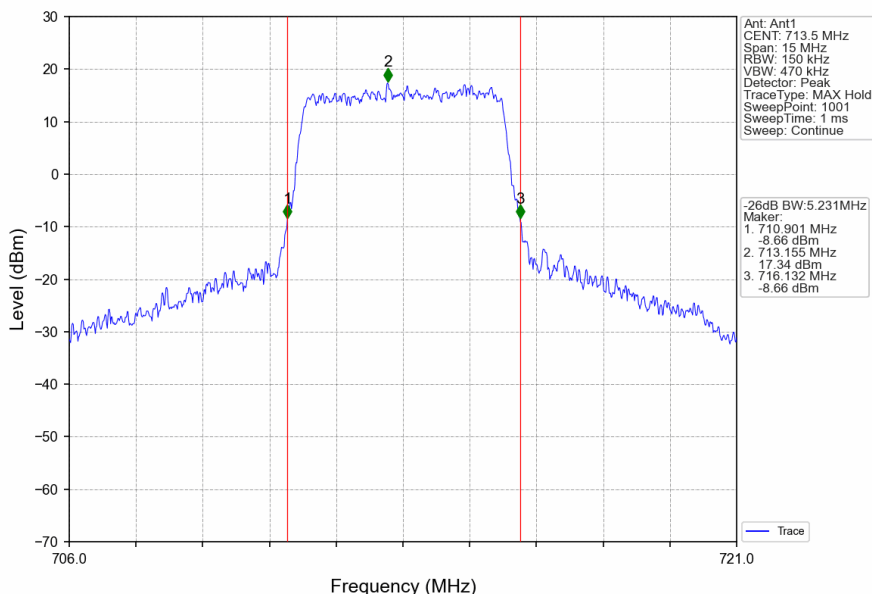


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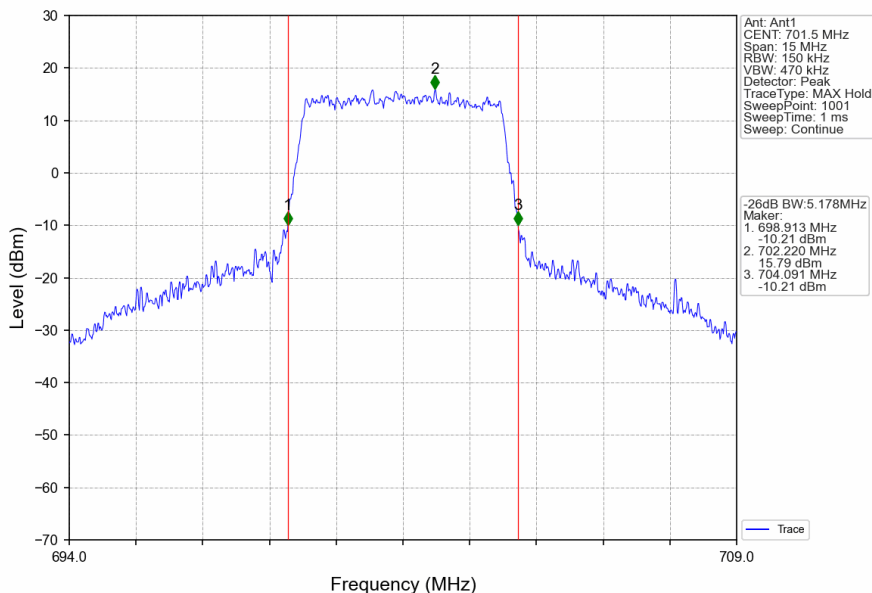
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Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



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

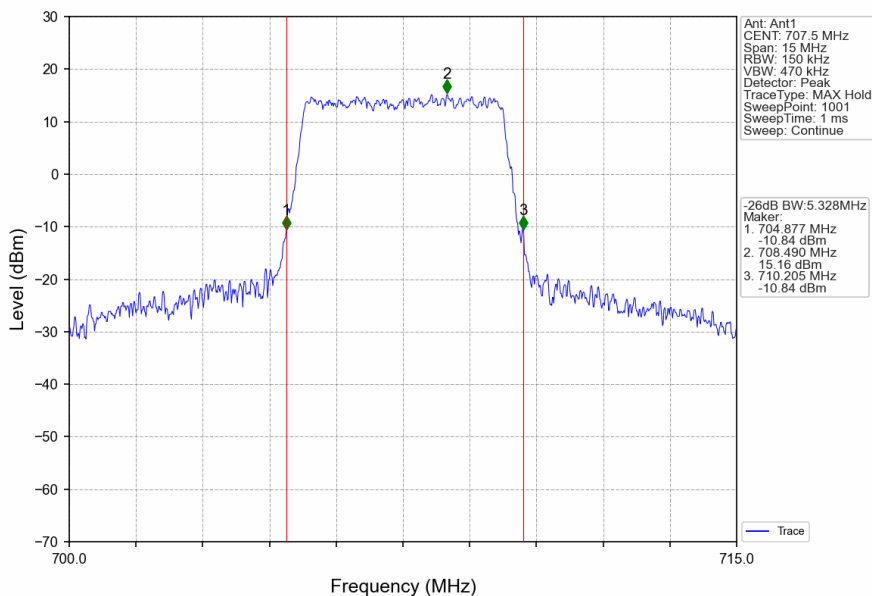


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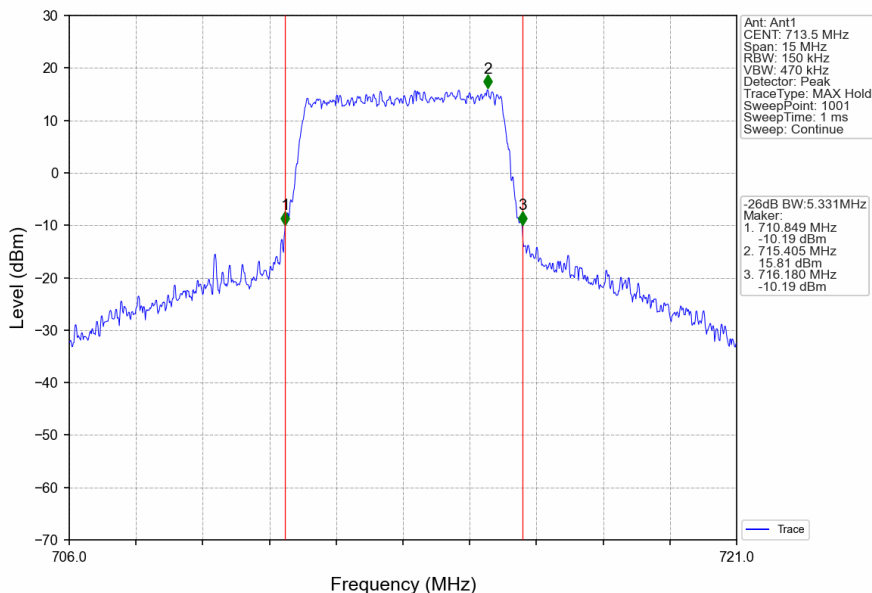
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Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



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

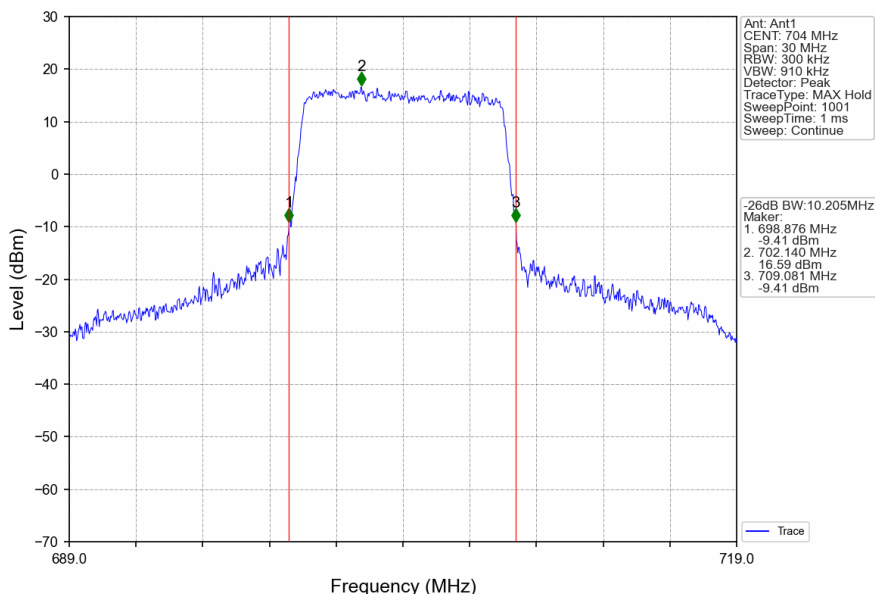


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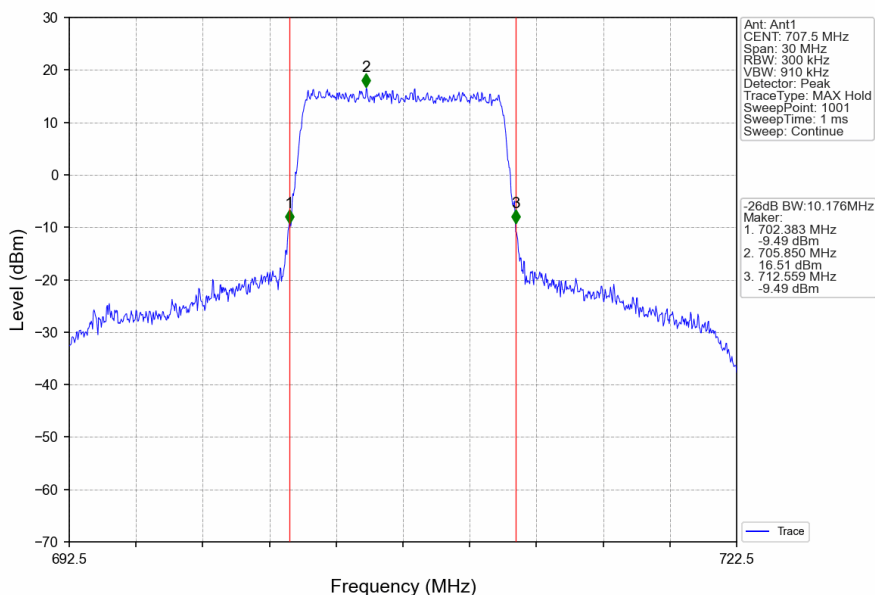
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Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



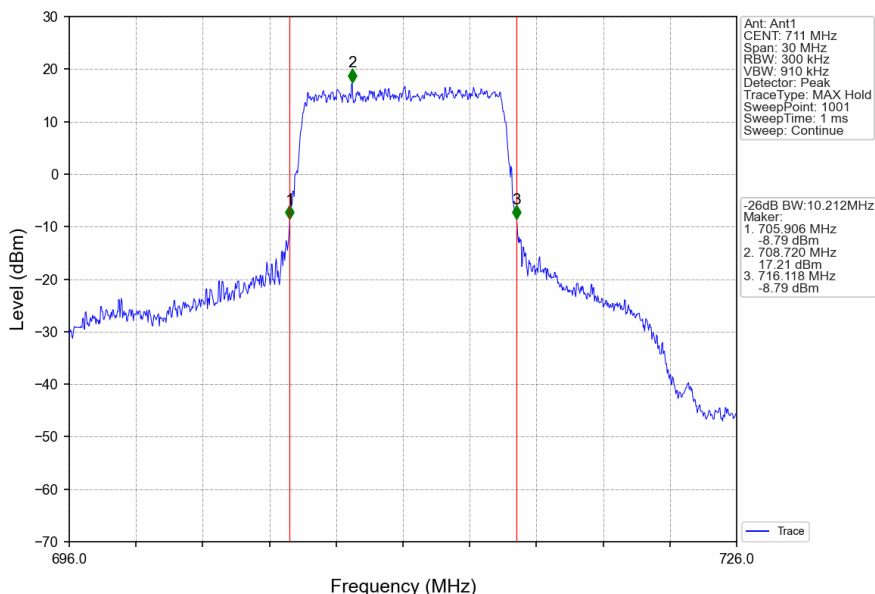
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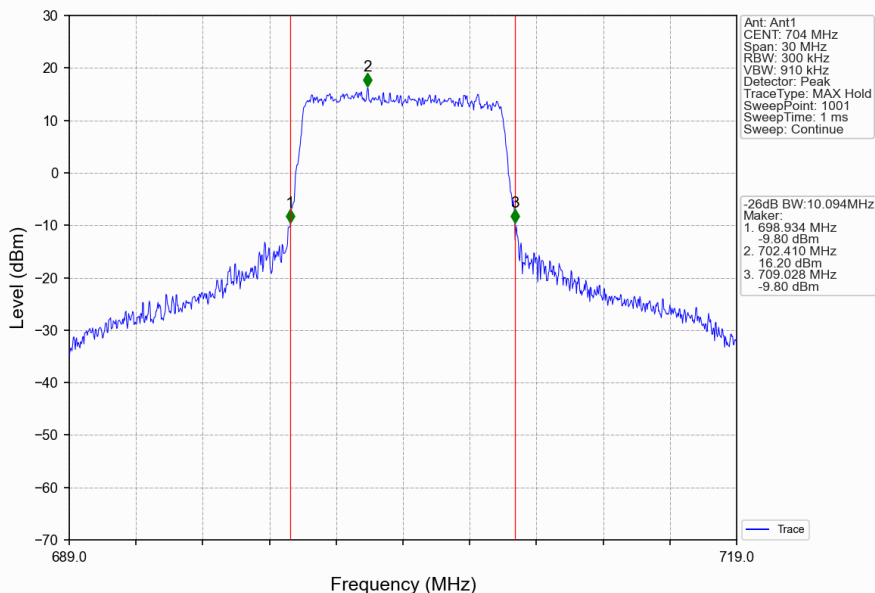
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Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



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

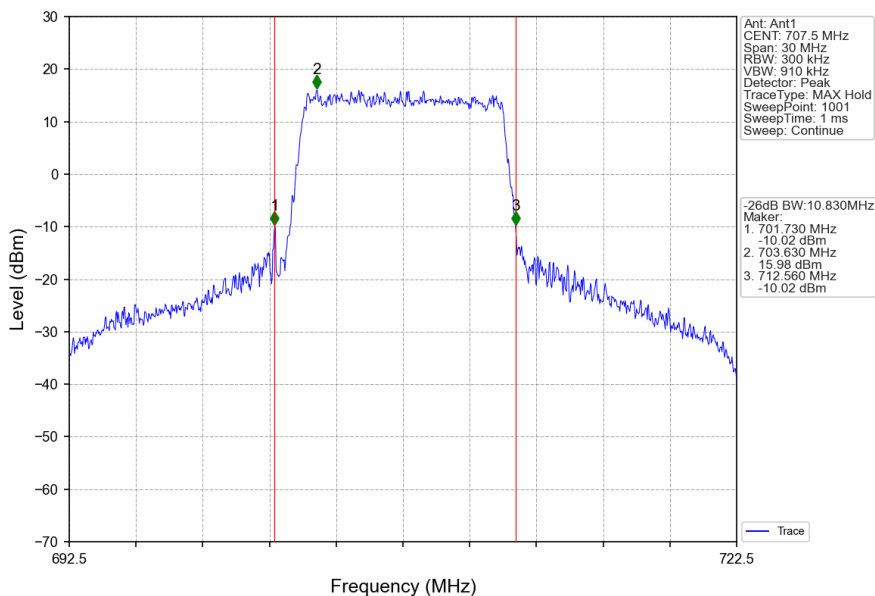


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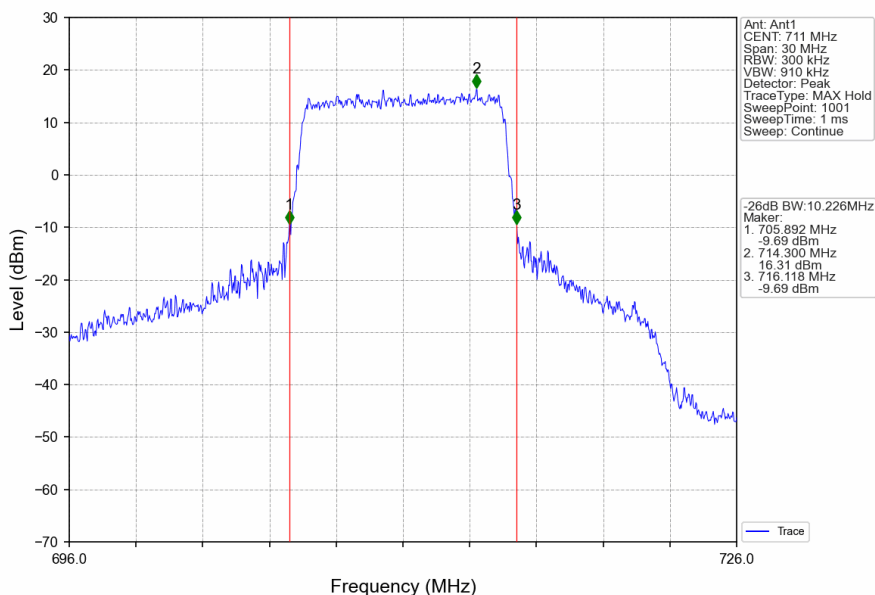
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Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



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



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### 4. Peak-Average Ratio

#### 4.1 Test Result

##### 4.1.1 B12\_1.4MHz

| Band: 12 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                         |       |         |
|-------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                     |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                                | 699.7           | 6             | 0      | 4.20                    | <=13  | Pass    |
|                                     | 707.5           | 6             | 0      | 5.04                    | <=13  | Pass    |
|                                     | 715.3           | 6             | 0      | 4.23                    | <=13  | Pass    |
| 16QAM                               | 699.7           | 6             | 0      | 5.16                    | <=13  | Pass    |
|                                     | 707.5           | 6             | 0      | 5.98                    | <=13  | Pass    |
|                                     | 715.3           | 6             | 0      | 5.23                    | <=13  | Pass    |

##### 4.1.2 B12\_3MHz

| Band: 12 / Bandwidth: 3MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 700.5           | 15            | 0      | 4.46                    | <=13  | Pass    |
|                                   | 707.5           | 15            | 0      | 5.15                    | <=13  | Pass    |
|                                   | 714.5           | 15            | 0      | 4.51                    | <=13  | Pass    |
| 16QAM                             | 700.5           | 15            | 0      | 5.34                    | <=13  | Pass    |
|                                   | 707.5           | 15            | 0      | 6.24                    | <=13  | Pass    |
|                                   | 714.5           | 15            | 0      | 5.42                    | <=13  | Pass    |

##### 4.1.3 B12\_5MHz

| Band: 12 / Bandwidth: 5MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 701.5           | 25            | 0      | 4.77                    | <=13  | Pass    |
|                                   | 707.5           | 25            | 0      | 5.43                    | <=13  | Pass    |
|                                   | 713.5           | 25            | 0      | 4.96                    | <=13  | Pass    |
| 16QAM                             | 701.5           | 25            | 0      | 5.61                    | <=13  | Pass    |



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|  |       |    |   |      |      |      |
|--|-------|----|---|------|------|------|
|  | 707.5 | 25 | 0 | 6.28 | <=13 | Pass |
|  | 713.5 | 25 | 0 | 5.82 | <=13 | Pass |

### 4.1.4 B12\_10MHz

| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 704             | 50            | 0      | 5.02                    | <=13  | Pass    |
|                                    | 707.5           | 50            | 0      | 5.34                    | <=13  | Pass    |
|                                    | 711             | 50            | 0      | 5.29                    | <=13  | Pass    |
| 16QAM                              | 704             | 50            | 0      | 5.93                    | <=13  | Pass    |
|                                    | 707.5           | 50            | 0      | 6.17                    | <=13  | Pass    |
|                                    | 711             | 50            | 0      | 6.13                    | <=13  | Pass    |



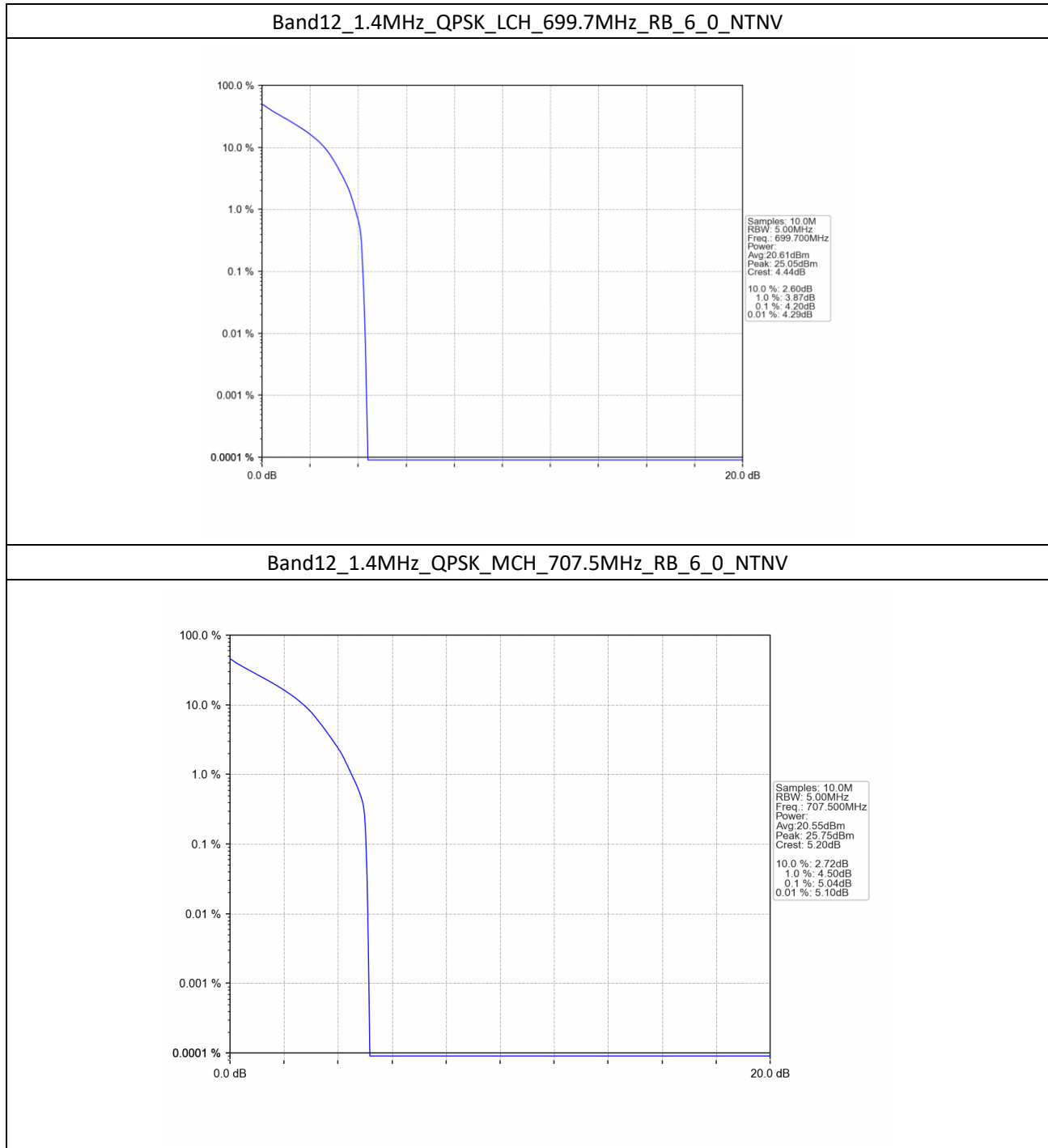
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### 4.2 Test Graph

#### 4.2.1 B12\_1.4MHz



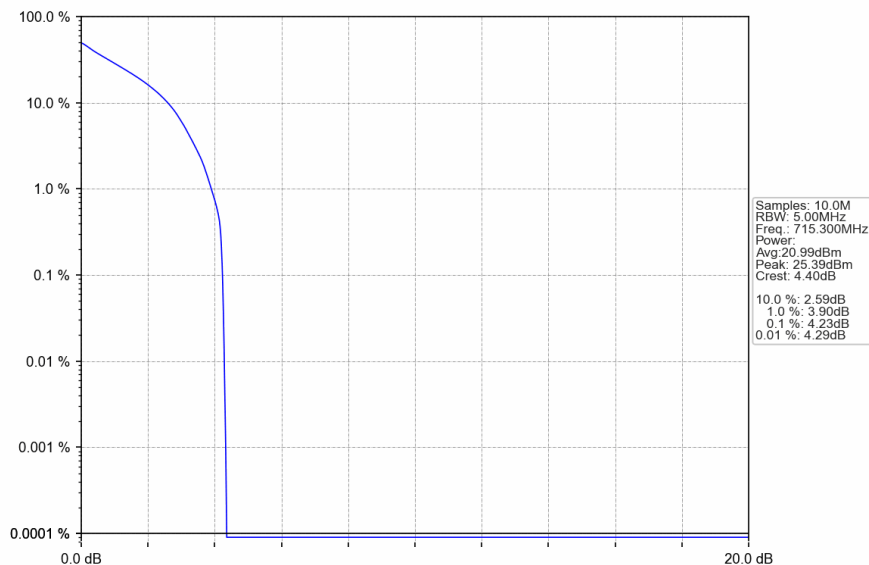
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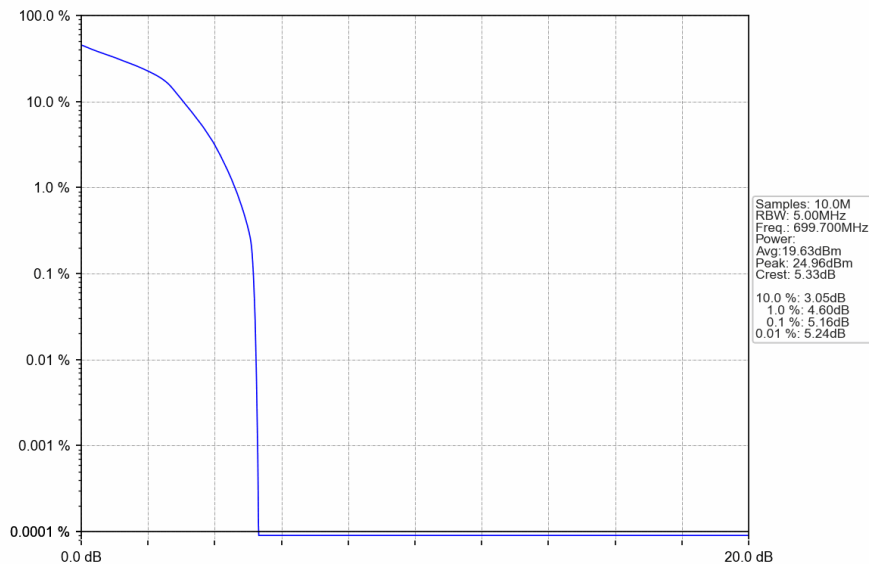
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Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



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

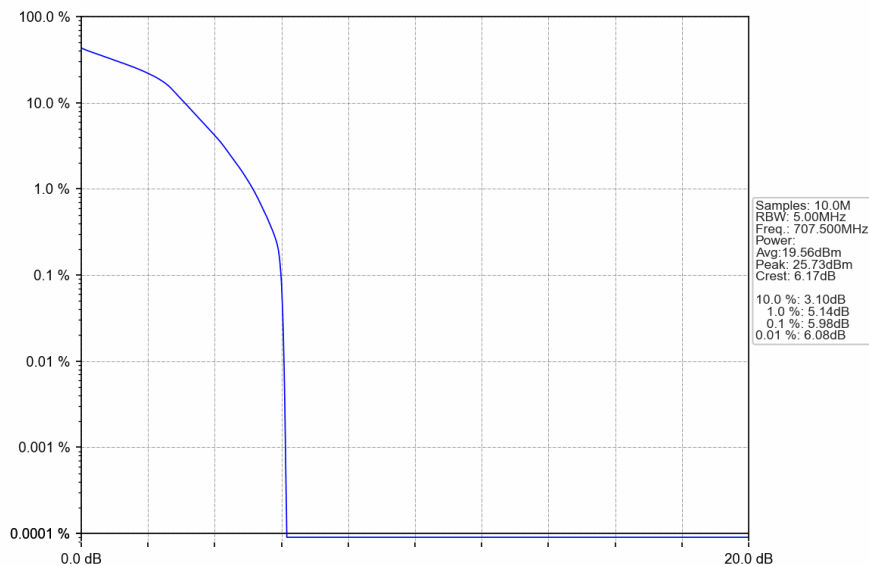


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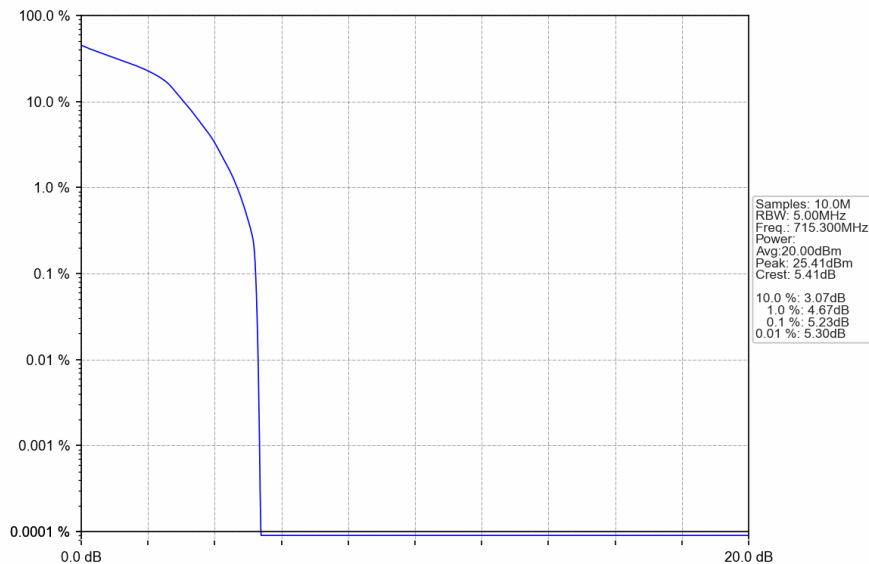
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Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



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

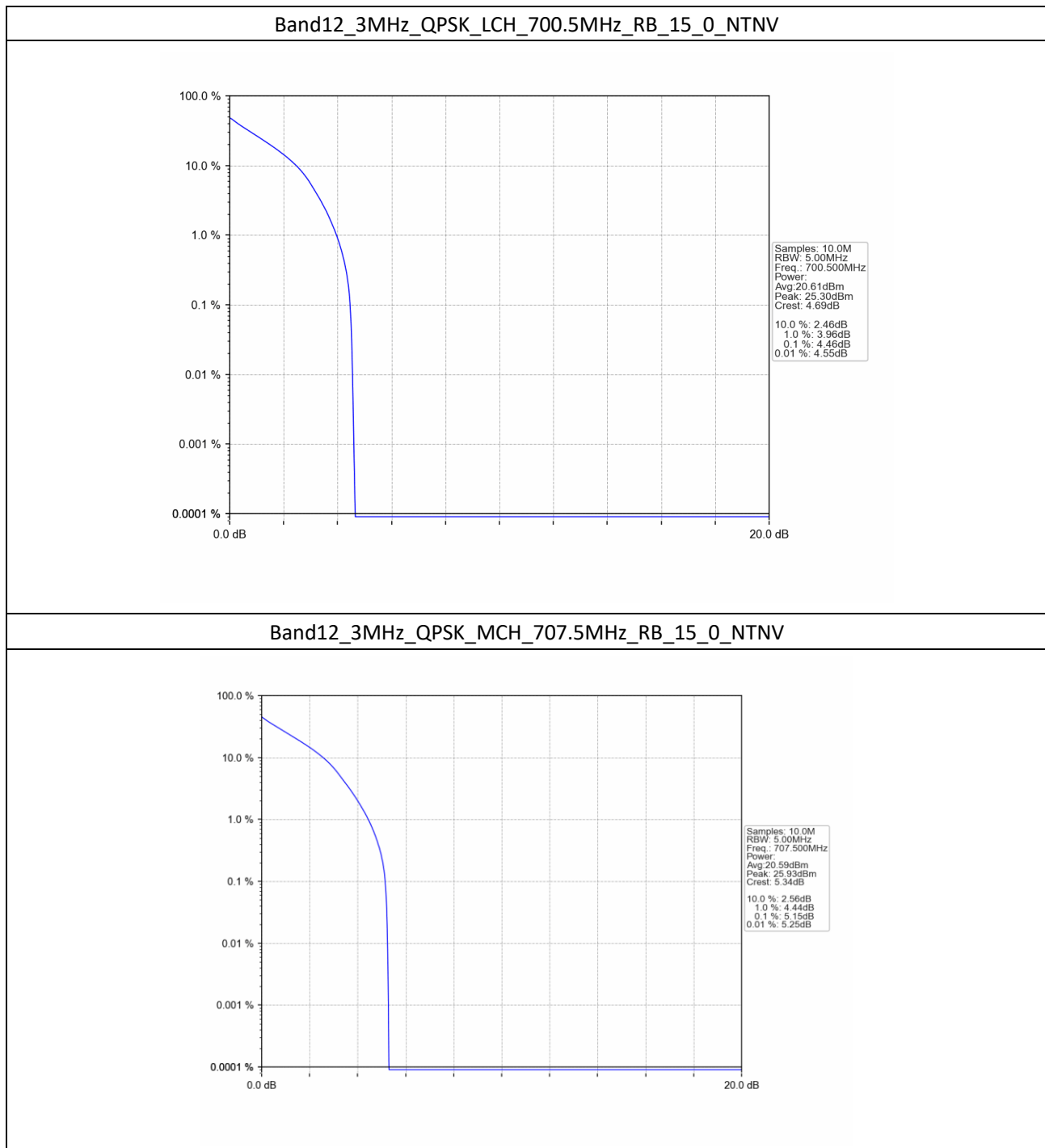


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### 4.2.2 B12\_3MHz

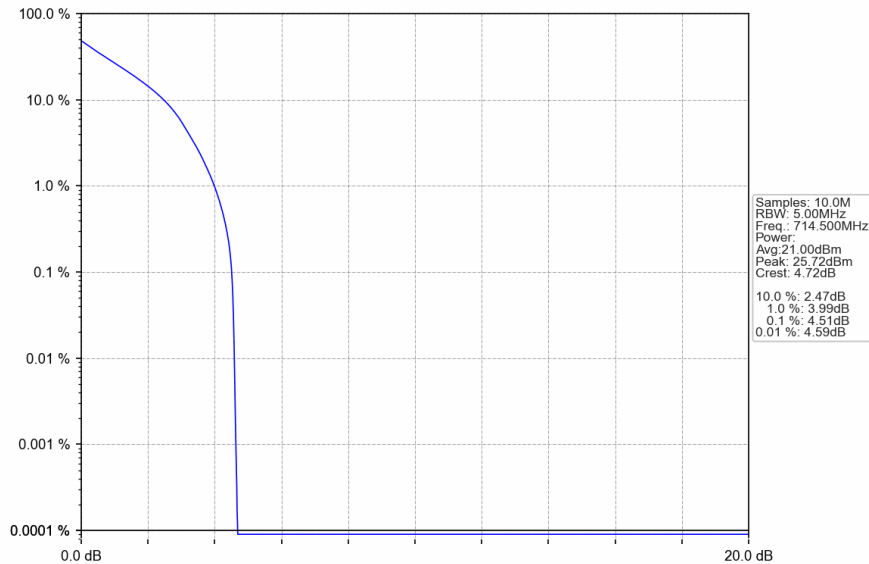


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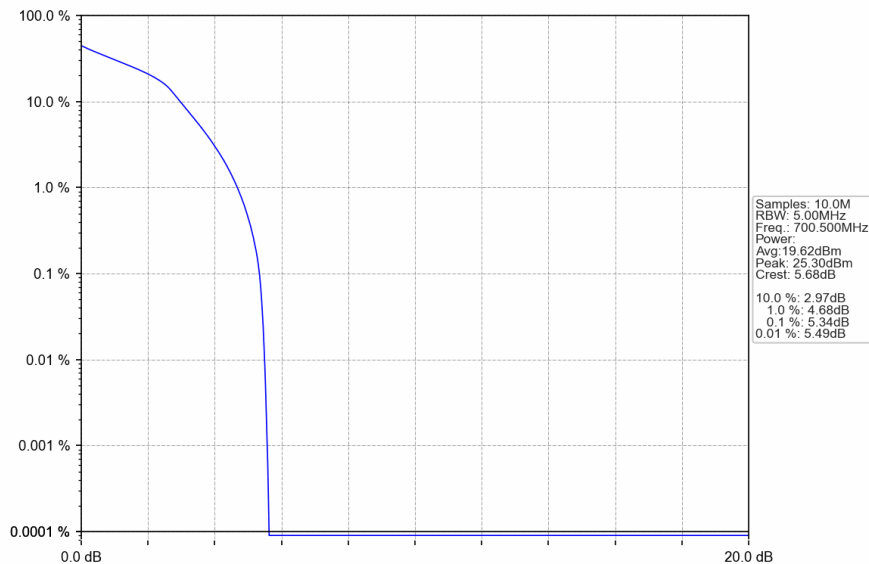
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Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



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

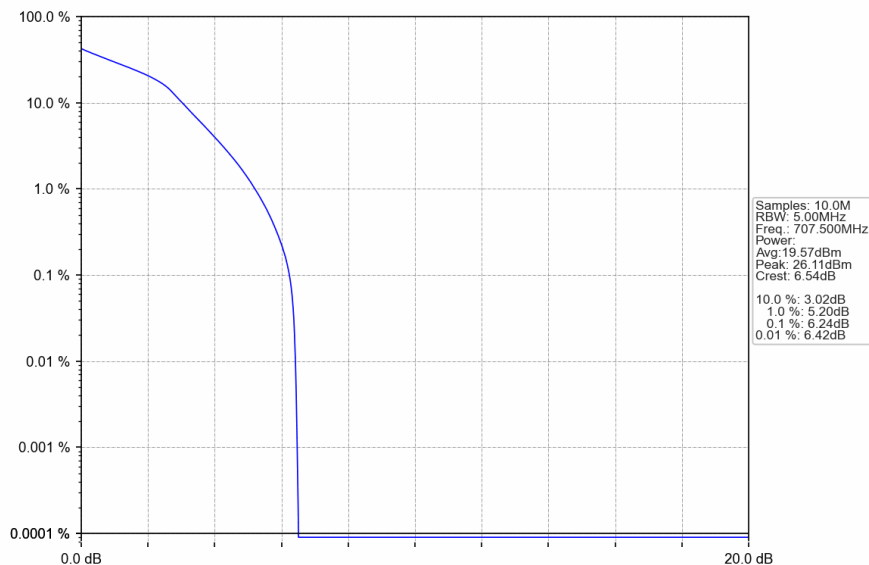


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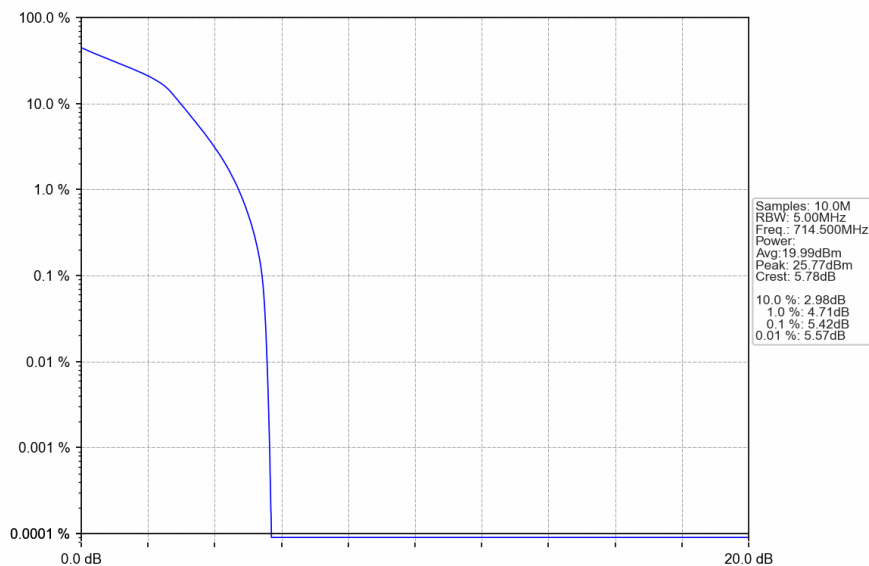
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Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



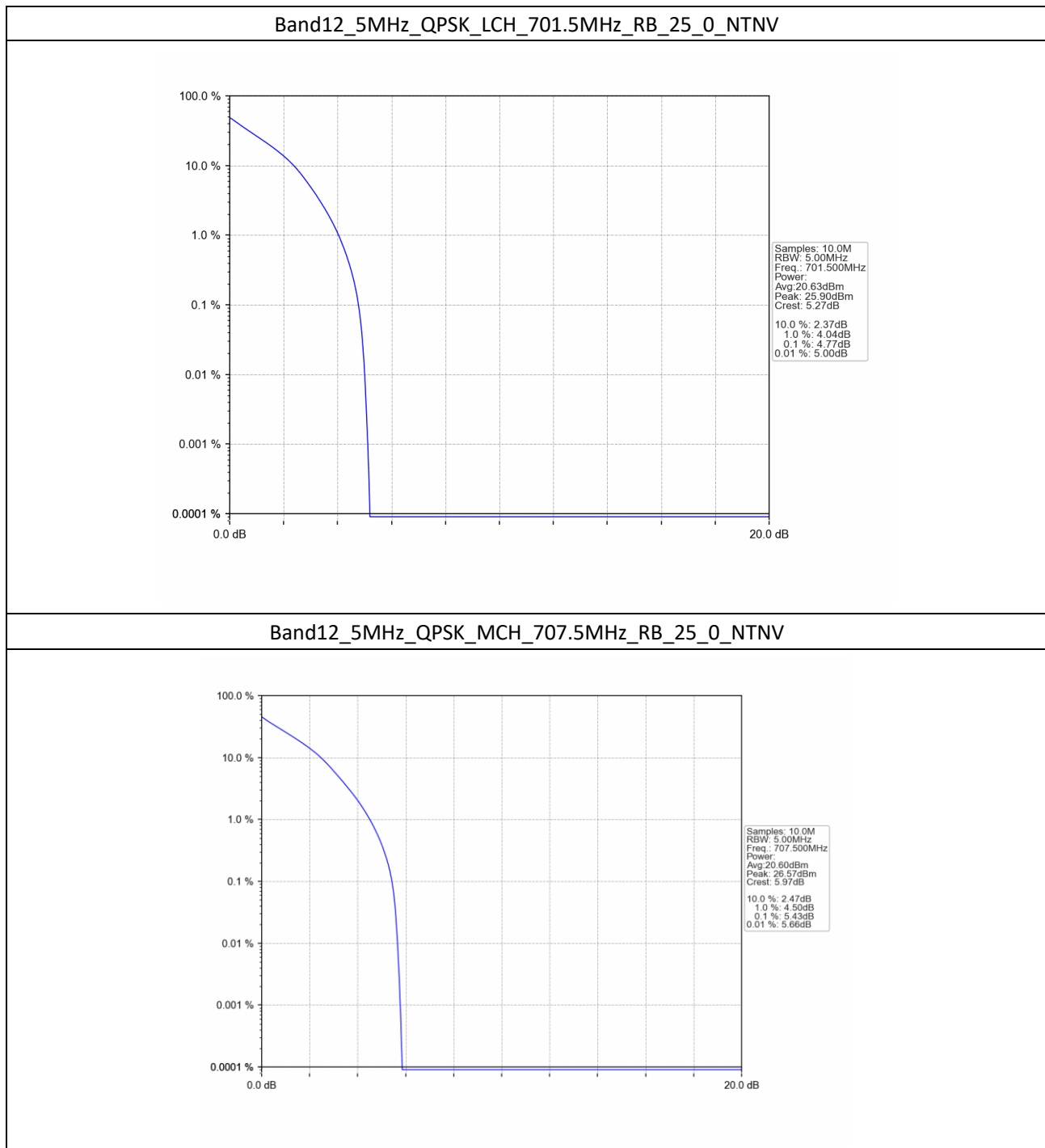
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### 4.2.3 B12\_5MHz



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