

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

### 1.1 Test Result

#### 1.1.1 B4\_1.4MHz\_EIRP

| Band: 4 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                       |            |            |       |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                               | 1710.7          | 1             | 0      | 22.90                 | -1.58      | 21.32      | <=30  | Pass    |
|                                    |                 |               | 2      | 22.97                 | -1.58      | 21.39      | <=30  | Pass    |
|                                    |                 |               | 5      | 22.90                 | -1.58      | 21.32      | <=30  | Pass    |
|                                    |                 | 3             | 0      | 23.18                 | -1.58      | 21.60      | <=30  | Pass    |
|                                    |                 |               | 2      | 23.18                 | -1.58      | 21.60      | <=30  | Pass    |
|                                    |                 |               | 3      | 23.18                 | -1.58      | 21.60      | <=30  | Pass    |
|                                    |                 | 6             | 0      | 22.13                 | -1.58      | 20.55      | <=30  | Pass    |
|                                    | 1732.5          | 1             | 0      | 23.16                 | -1.58      | 21.58      | <=30  | Pass    |
|                                    |                 |               | 2      | 23.23                 | -1.58      | 21.65      | <=30  | Pass    |
|                                    |                 |               | 5      | 23.17                 | -1.58      | 21.59      | <=30  | Pass    |
|                                    |                 | 3             | 0      | 23.16                 | -1.58      | 21.58      | <=30  | Pass    |
|                                    |                 |               | 2      | 23.19                 | -1.58      | 21.61      | <=30  | Pass    |
|                                    |                 |               | 3      | 23.18                 | -1.58      | 21.60      | <=30  | Pass    |
|                                    |                 | 6             | 0      | 22.25                 | -1.58      | 20.67      | <=30  | Pass    |
|                                    | 1754.3          | 1             | 0      | 22.93                 | -1.58      | 21.35      | <=30  | Pass    |
|                                    |                 |               | 2      | 23.00                 | -1.58      | 21.42      | <=30  | Pass    |
|                                    |                 |               | 5      | 22.96                 | -1.58      | 21.38      | <=30  | Pass    |
|                                    |                 | 3             | 0      | 23.12                 | -1.58      | 21.54      | <=30  | Pass    |
|                                    |                 |               | 2      | 23.14                 | -1.58      | 21.56      | <=30  | Pass    |
|                                    |                 |               | 3      | 23.09                 | -1.58      | 21.51      | <=30  | Pass    |
|                                    |                 | 6             | 0      | 22.09                 | -1.58      | 20.51      | <=30  | Pass    |
| 16QAM                              | 1710.7          | 1             | 0      | 21.99                 | -1.58      | 20.41      | <=30  | Pass    |
|                                    |                 |               | 2      | 22.06                 | -1.58      | 20.48      | <=30  | Pass    |
|                                    |                 |               | 5      | 22.03                 | -1.58      | 20.45      | <=30  | Pass    |
|                                    |                 | 3             | 0      | 22.42                 | -1.58      | 20.84      | <=30  | Pass    |
|                                    |                 |               | 2      | 22.43                 | -1.58      | 20.85      | <=30  | Pass    |
|                                    |                 |               | 3      | 22.45                 | -1.58      | 20.87      | <=30  | Pass    |
|                                    |                 | 6             | 0      | 21.23                 | -1.58      | 19.65      | <=30  | Pass    |
|                                    | 1732.5          | 1             | 0      | 22.01                 | -1.58      | 20.43      | <=30  | Pass    |
|                                    |                 |               | 2      | 22.09                 | -1.58      | 20.51      | <=30  | Pass    |
|                                    |                 |               | 5      | 22.06                 | -1.58      | 20.48      | <=30  | Pass    |
|                                    |                 | 3             | 0      | 22.18                 | -1.58      | 20.60      | <=30  | Pass    |
|                                    |                 |               | 2      | 22.19                 | -1.58      | 20.61      | <=30  | Pass    |
|                                    |                 |               | 3      | 22.18                 | -1.58      | 20.60      | <=30  | Pass    |
|                                    |                 | 6             | 0      | 21.15                 | -1.58      | 19.57      | <=30  | Pass    |
|                                    | 1754.3          | 1             | 0      | 22.12                 | -1.58      | 20.54      | <=30  | Pass    |
|                                    |                 |               | 2      | 22.09                 | -1.58      | 20.51      | <=30  | Pass    |
|                                    |                 |               | 5      | 21.97                 | -1.58      | 20.39      | <=30  | Pass    |
|                                    |                 | 3             | 0      | 21.98                 | -1.58      | 20.40      | <=30  | Pass    |
|                                    |                 |               | 2      | 22.02                 | -1.58      | 20.44      | <=30  | Pass    |
|                                    |                 |               | 3      | 21.97                 | -1.58      | 20.39      | <=30  | Pass    |
|                                    |                 | 6             | 0      | 21.10                 | -1.58      | 19.52      | <=30  | Pass    |

Note1: EIRP=Conducted Power+Antenna Gain

#### 1.1.2 B4\_3MHz\_EIRP

| Band: 4 / Bandwidth: 3MHz / NTNV |                 |               |        |                       |            |            |       |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                             | 1711.5          | 1             | 0      | 22.76                 | -1.58      | 21.18      | <=30  | Pass    |
|                                  |                 |               | 7      | 22.89                 | -1.58      | 21.31      | <=30  | Pass    |
|                                  |                 |               | 14     | 22.76                 | -1.58      | 21.18      | <=30  | Pass    |
|                                  |                 | 8             | 0      | 21.91                 | -1.58      | 20.33      | <=30  | Pass    |
|                                  |                 |               | 4      | 21.93                 | -1.58      | 20.35      | <=30  | Pass    |
|                                  |                 |               | 7      | 21.53                 | -1.58      | 19.95      | <=30  | Pass    |
|                                  |                 | 15            | 0      | 21.59                 | -1.58      | 20.01      | <=30  | Pass    |
|                                  | 1732.5          | 1             | 0      | 22.45                 | -1.58      | 20.87      | <=30  | Pass    |
|                                  |                 |               | 7      | 22.58                 | -1.58      | 21.00      | <=30  | Pass    |
|                                  |                 |               | 14     | 22.40                 | -1.58      | 20.82      | <=30  | Pass    |
|                                  |                 | 8             | 0      | 21.65                 | -1.58      | 20.07      | <=30  | Pass    |
|                                  |                 |               | 4      | 21.65                 | -1.58      | 20.07      | <=30  | Pass    |
|                                  |                 |               | 7      | 21.59                 | -1.58      | 20.01      | <=30  | Pass    |
|                                  |                 | 15            | 0      | 21.56                 | -1.58      | 19.98      | <=30  | Pass    |
|                                  | 1753.5          | 1             | 0      | 22.25                 | -1.58      | 20.67      | <=30  | Pass    |
|                                  |                 |               | 7      | 22.43                 | -1.58      | 20.85      | <=30  | Pass    |
|                                  |                 |               | 14     | 22.28                 | -1.58      | 20.70      | <=30  | Pass    |
|                                  |                 | 8             | 0      | 21.55                 | -1.58      | 19.97      | <=30  | Pass    |
|                                  |                 |               | 4      | 21.60                 | -1.58      | 20.02      | <=30  | Pass    |
|                                  |                 |               | 7      | 21.52                 | -1.58      | 19.94      | <=30  | Pass    |
|                                  |                 | 15            | 0      | 21.53                 | -1.58      | 19.95      | <=30  | Pass    |
| 16QAM                            | 1711.5          | 1             | 0      | 21.99                 | -1.58      | 20.41      | <=30  | Pass    |
|                                  |                 |               | 7      | 22.10                 | -1.58      | 20.52      | <=30  | Pass    |
|                                  |                 |               | 14     | 21.93                 | -1.58      | 20.35      | <=30  | Pass    |
|                                  |                 | 8             | 0      | 20.72                 | -1.58      | 19.14      | <=30  | Pass    |
|                                  |                 |               | 4      | 20.84                 | -1.58      | 19.26      | <=30  | Pass    |
|                                  |                 |               | 7      | 20.74                 | -1.58      | 19.16      | <=30  | Pass    |
|                                  |                 | 15            | 0      | 20.70                 | -1.58      | 19.12      | <=30  | Pass    |
|                                  | 1732.5          | 1             | 0      | 21.37                 | -1.58      | 19.79      | <=30  | Pass    |
|                                  |                 |               | 7      | 21.52                 | -1.58      | 19.94      | <=30  | Pass    |
|                                  |                 |               | 14     | 21.37                 | -1.58      | 19.79      | <=30  | Pass    |
|                                  |                 | 8             | 0      | 20.68                 | -1.58      | 19.10      | <=30  | Pass    |
|                                  |                 |               | 4      | 20.73                 | -1.58      | 19.15      | <=30  | Pass    |
|                                  |                 |               | 7      | 20.63                 | -1.58      | 19.05      | <=30  | Pass    |
|                                  |                 | 15            | 0      | 20.60                 | -1.58      | 19.02      | <=30  | Pass    |
|                                  | 1753.5          | 1             | 0      | 21.51                 | -1.58      | 19.93      | <=30  | Pass    |
|                                  |                 |               | 7      | 21.63                 | -1.58      | 20.05      | <=30  | Pass    |
|                                  |                 |               | 14     | 21.46                 | -1.58      | 19.88      | <=30  | Pass    |
|                                  |                 | 8             | 0      | 20.54                 | -1.58      | 18.96      | <=30  | Pass    |
|                                  |                 |               | 4      | 20.60                 | -1.58      | 19.02      | <=30  | Pass    |
|                                  |                 |               | 7      | 20.54                 | -1.58      | 18.96      | <=30  | Pass    |
|                                  |                 | 15            | 0      | 20.53                 | -1.58      | 18.95      | <=30  | Pass    |

Note1: EIRP=Conducted Power+Antenna Gain

### 1.1.3 B4\_5MHz\_EIRP

| Band: 4 / Bandwidth: 5MHz / NTNV |                 |               |        |                       |            |            |       |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                             | 1712.5          | 1             | 0      | 22.83                 | -1.58      | 21.25      | <=30  | Pass    |
|                                  |                 |               | 13     | 22.74                 | -1.58      | 21.16      | <=30  | Pass    |
|                                  |                 |               | 24     | 22.62                 | -1.58      | 21.04      | <=30  | Pass    |
|                                  |                 | 12            | 0      | 21.60                 | -1.58      | 20.02      | <=30  | Pass    |

|       |        |    |    |       |       |       |      |      |
|-------|--------|----|----|-------|-------|-------|------|------|
|       | 1732.5 | 25 | 6  | 21.65 | -1.58 | 20.07 | <=30 | Pass |
|       |        |    | 13 | 21.71 | -1.58 | 20.13 | <=30 | Pass |
|       |        |    | 0  | 21.70 | -1.58 | 20.12 | <=30 | Pass |
|       |        | 1  | 0  | 22.62 | -1.58 | 21.04 | <=30 | Pass |
|       |        |    | 13 | 22.73 | -1.58 | 21.15 | <=30 | Pass |
|       |        |    | 24 | 22.61 | -1.58 | 21.03 | <=30 | Pass |
|       |        | 12 | 0  | 21.61 | -1.58 | 20.03 | <=30 | Pass |
|       |        |    | 6  | 21.70 | -1.58 | 20.12 | <=30 | Pass |
|       |        |    | 13 | 21.65 | -1.58 | 20.07 | <=30 | Pass |
|       |        | 25 | 0  | 21.64 | -1.58 | 20.06 | <=30 | Pass |
|       | 1752.5 | 1  | 0  | 22.62 | -1.58 | 21.04 | <=30 | Pass |
|       |        |    | 13 | 22.74 | -1.58 | 21.16 | <=30 | Pass |
|       |        |    | 24 | 22.61 | -1.58 | 21.03 | <=30 | Pass |
|       |        | 12 | 0  | 21.55 | -1.58 | 19.97 | <=30 | Pass |
|       |        |    | 6  | 21.67 | -1.58 | 20.09 | <=30 | Pass |
|       |        |    | 13 | 21.68 | -1.58 | 20.10 | <=30 | Pass |
|       |        | 25 | 0  | 21.64 | -1.58 | 20.06 | <=30 | Pass |
| 16QAM | 1712.5 | 1  | 0  | 21.93 | -1.58 | 20.35 | <=30 | Pass |
|       |        |    | 13 | 22.07 | -1.58 | 20.49 | <=30 | Pass |
|       |        |    | 24 | 21.98 | -1.58 | 20.40 | <=30 | Pass |
|       |        | 12 | 0  | 20.73 | -1.58 | 19.15 | <=30 | Pass |
|       |        |    | 6  | 20.79 | -1.58 | 19.21 | <=30 | Pass |
|       |        |    | 13 | 20.80 | -1.58 | 19.22 | <=30 | Pass |
|       |        | 25 | 0  | 20.80 | -1.58 | 19.22 | <=30 | Pass |
|       | 1732.5 | 1  | 0  | 21.39 | -1.58 | 19.81 | <=30 | Pass |
|       |        |    | 13 | 21.51 | -1.58 | 19.93 | <=30 | Pass |
|       |        |    | 24 | 21.45 | -1.58 | 19.87 | <=30 | Pass |
|       |        | 12 | 0  | 20.65 | -1.58 | 19.07 | <=30 | Pass |
|       |        |    | 6  | 20.69 | -1.58 | 19.11 | <=30 | Pass |
|       |        |    | 13 | 20.68 | -1.58 | 19.10 | <=30 | Pass |
|       |        | 25 | 0  | 20.71 | -1.58 | 19.13 | <=30 | Pass |
|       | 1752.5 | 1  | 0  | 21.69 | -1.58 | 20.11 | <=30 | Pass |
|       |        |    | 13 | 21.78 | -1.58 | 20.20 | <=30 | Pass |
|       |        |    | 24 | 21.66 | -1.58 | 20.08 | <=30 | Pass |
|       |        | 12 | 0  | 20.62 | -1.58 | 19.04 | <=30 | Pass |
|       |        |    | 6  | 20.70 | -1.58 | 19.12 | <=30 | Pass |
|       |        |    | 13 | 20.68 | -1.58 | 19.10 | <=30 | Pass |
|       |        | 25 | 0  | 20.74 | -1.58 | 19.16 | <=30 | Pass |

Note1: EIRP=Conducted Power+Antenna Gain

#### 1.1.4 B4\_10MHz\_EIRP

| Band: 4 / Bandwidth: 10MHz / NTNV |                 |               |        |                       |            |            |       |         |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                   |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                              | 1715            | 1             | 0      | 22.60                 | -1.58      | 21.02      | <=30  | Pass    |
|                                   |                 |               | 25     | 22.68                 | -1.58      | 21.10      | <=30  | Pass    |
|                                   |                 |               | 49     | 22.68                 | -1.58      | 21.10      | <=30  | Pass    |
|                                   |                 | 25            | 0      | 21.52                 | -1.58      | 19.94      | <=30  | Pass    |
|                                   |                 |               | 13     | 21.74                 | -1.58      | 20.16      | <=30  | Pass    |
|                                   |                 |               | 25     | 21.74                 | -1.58      | 20.16      | <=30  | Pass    |
|                                   |                 | 50            | 0      | 21.72                 | -1.58      | 20.14      | <=30  | Pass    |
|                                   | 1732.5          | 1             | 0      | 22.75                 | -1.58      | 21.17      | <=30  | Pass    |
|                                   |                 |               | 25     | 22.71                 | -1.58      | 21.13      | <=30  | Pass    |
|                                   |                 |               | 49     | 22.65                 | -1.58      | 21.07      | <=30  | Pass    |
|                                   |                 | 25            | 0      | 21.68                 | -1.58      | 20.10      | <=30  | Pass    |

|       |        |    |    |       |       |       |      |      |
|-------|--------|----|----|-------|-------|-------|------|------|
|       | 1750   | 50 | 13 | 21.70 | -1.58 | 20.12 | <=30 | Pass |
|       |        |    | 25 | 21.64 | -1.58 | 20.06 | <=30 | Pass |
|       |        |    | 0  | 21.66 | -1.58 | 20.08 | <=30 | Pass |
|       |        | 1  | 0  | 22.63 | -1.58 | 21.05 | <=30 | Pass |
|       |        |    | 25 | 22.71 | -1.58 | 21.13 | <=30 | Pass |
|       |        |    | 49 | 22.66 | -1.58 | 21.08 | <=30 | Pass |
|       | 1750   | 25 | 0  | 21.57 | -1.58 | 19.99 | <=30 | Pass |
|       |        |    | 13 | 21.70 | -1.58 | 20.12 | <=30 | Pass |
|       |        |    | 25 | 21.70 | -1.58 | 20.12 | <=30 | Pass |
|       |        | 50 | 0  | 21.70 | -1.58 | 20.12 | <=30 | Pass |
|       |        |    | 0  | 21.85 | -1.58 | 20.27 | <=30 | Pass |
|       |        |    | 25 | 21.91 | -1.58 | 20.33 | <=30 | Pass |
| 16QAM | 1715   | 1  | 49 | 21.86 | -1.58 | 20.28 | <=30 | Pass |
|       |        |    | 0  | 20.67 | -1.58 | 19.09 | <=30 | Pass |
|       |        |    | 13 | 20.85 | -1.58 | 19.27 | <=30 | Pass |
|       |        | 25 | 25 | 20.85 | -1.58 | 19.27 | <=30 | Pass |
|       |        |    | 0  | 20.80 | -1.58 | 19.22 | <=30 | Pass |
|       |        |    | 0  | 22.14 | -1.58 | 20.56 | <=30 | Pass |
|       |        | 1  | 25 | 22.19 | -1.58 | 20.61 | <=30 | Pass |
|       |        |    | 49 | 22.22 | -1.58 | 20.64 | <=30 | Pass |
|       |        |    | 0  | 20.76 | -1.58 | 19.18 | <=30 | Pass |
|       | 1732.5 | 25 | 13 | 20.80 | -1.58 | 19.22 | <=30 | Pass |
|       |        |    | 25 | 20.77 | -1.58 | 19.19 | <=30 | Pass |
|       |        |    | 0  | 20.73 | -1.58 | 19.15 | <=30 | Pass |
|       |        | 50 | 0  | 20.75 | -1.58 | 20.17 | <=30 | Pass |
|       |        |    | 25 | 21.76 | -1.58 | 20.18 | <=30 | Pass |
|       |        |    | 49 | 21.66 | -1.58 | 20.08 | <=30 | Pass |
|       |        | 1  | 0  | 20.72 | -1.58 | 19.14 | <=30 | Pass |
|       |        |    | 13 | 20.84 | -1.58 | 19.26 | <=30 | Pass |
|       |        |    | 25 | 20.82 | -1.58 | 19.24 | <=30 | Pass |
|       | 1750   | 50 | 0  | 20.75 | -1.58 | 19.17 | <=30 | Pass |
|       |        |    | 0  | 21.58 | -1.58 | 20.00 | <=30 | Pass |
|       |        |    | 0  | 21.58 | -1.58 | 20.00 | <=30 | Pass |

Note1: EIRP=Conducted Power+Antenna Gain

### 1.1.5 B4\_15MHz\_EIRP

| Band: 4 / Bandwidth: 15MHz / NTN/V |                 |               |        |                       |            |            |       |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                               | 1717.5          | 1             | 0      | 22.56                 | -1.58      | 20.98      | <=30  | Pass    |
|                                    |                 |               | 38     | 22.74                 | -1.58      | 21.16      | <=30  | Pass    |
|                                    |                 |               | 74     | 22.70                 | -1.58      | 21.12      | <=30  | Pass    |
|                                    |                 | 36            | 0      | 21.55                 | -1.58      | 19.97      | <=30  | Pass    |
|                                    |                 |               | 18     | 21.67                 | -1.58      | 20.09      | <=30  | Pass    |
|                                    |                 |               | 39     | 21.75                 | -1.58      | 20.17      | <=30  | Pass    |
|                                    |                 | 75            | 0      | 21.69                 | -1.58      | 20.11      | <=30  | Pass    |
|                                    |                 |               | 0      | 22.63                 | -1.58      | 21.05      | <=30  | Pass    |
|                                    |                 |               | 38     | 22.74                 | -1.58      | 21.16      | <=30  | Pass    |
|                                    | 1732.5          | 1             | 74     | 22.60                 | -1.58      | 21.02      | <=30  | Pass    |
|                                    |                 |               | 0      | 21.76                 | -1.58      | 20.18      | <=30  | Pass    |
|                                    |                 |               | 18     | 21.78                 | -1.58      | 20.20      | <=30  | Pass    |
|                                    |                 | 36            | 39     | 21.73                 | -1.58      | 20.15      | <=30  | Pass    |
|                                    |                 |               | 0      | 21.78                 | -1.58      | 20.20      | <=30  | Pass    |
|                                    |                 |               | 0      | 22.63                 | -1.58      | 21.05      | <=30  | Pass    |
|                                    |                 | 1             | 38     | 22.70                 | -1.58      | 21.12      | <=30  | Pass    |
|                                    |                 |               | 74     | 22.56                 | -1.58      | 20.98      | <=30  | Pass    |
|                                    |                 |               | 0      | 21.58                 | -1.58      | 20.00      | <=30  | Pass    |

|       |        |    |    |       |       |       |      |      |
|-------|--------|----|----|-------|-------|-------|------|------|
| 16QAM | 1717.5 | 75 | 18 | 21.65 | -1.58 | 20.07 | <=30 | Pass |
|       |        |    | 39 | 21.67 | -1.58 | 20.09 | <=30 | Pass |
|       |        |    | 0  | 21.69 | -1.58 | 20.11 | <=30 | Pass |
|       |        | 1  | 0  | 21.83 | -1.58 | 20.25 | <=30 | Pass |
|       |        |    | 38 | 21.96 | -1.58 | 20.38 | <=30 | Pass |
|       |        |    | 74 | 21.75 | -1.58 | 20.17 | <=30 | Pass |
|       |        | 36 | 0  | 20.66 | -1.58 | 19.08 | <=30 | Pass |
|       |        |    | 18 | 20.76 | -1.58 | 19.18 | <=30 | Pass |
|       |        |    | 39 | 20.75 | -1.58 | 19.17 | <=30 | Pass |
|       |        | 75 | 0  | 20.73 | -1.58 | 19.15 | <=30 | Pass |
|       | 1732.5 | 1  | 0  | 22.07 | -1.58 | 20.49 | <=30 | Pass |
|       |        |    | 38 | 22.20 | -1.58 | 20.62 | <=30 | Pass |
|       |        |    | 74 | 22.28 | -1.58 | 20.70 | <=30 | Pass |
|       |        | 36 | 0  | 20.73 | -1.58 | 19.15 | <=30 | Pass |
|       |        |    | 18 | 20.79 | -1.58 | 19.21 | <=30 | Pass |
|       |        |    | 39 | 20.81 | -1.58 | 19.23 | <=30 | Pass |
|       |        | 75 | 0  | 20.72 | -1.58 | 19.14 | <=30 | Pass |
|       | 1747.5 | 1  | 0  | 22.09 | -1.58 | 20.51 | <=30 | Pass |
|       |        |    | 38 | 22.23 | -1.58 | 20.65 | <=30 | Pass |
|       |        |    | 74 | 21.92 | -1.58 | 20.34 | <=30 | Pass |
|       |        | 36 | 0  | 20.63 | -1.58 | 19.05 | <=30 | Pass |
|       |        |    | 18 | 20.71 | -1.58 | 19.13 | <=30 | Pass |
|       |        |    | 39 | 20.73 | -1.58 | 19.15 | <=30 | Pass |
|       |        | 75 | 0  | 20.69 | -1.58 | 19.11 | <=30 | Pass |

Note1: EIRP=Conducted Power+Antenna Gain

### 1.1.6 B4\_20MHz\_EIRP

| Band: 4 / Bandwidth: 20MHz / NTNV |                 |               |        |                       |            |            |       |         |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                   |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                              | 1720            | 1             | 0      | 23.00                 | -1.58      | 21.42      | <=30  | Pass    |
|                                   |                 |               | 50     | 22.73                 | -1.58      | 21.15      | <=30  | Pass    |
|                                   |                 |               | 99     | 22.63                 | -1.58      | 21.05      | <=30  | Pass    |
|                                   |                 | 50            | 0      | 21.54                 | -1.58      | 19.96      | <=30  | Pass    |
|                                   |                 |               | 25     | 21.75                 | -1.58      | 20.17      | <=30  | Pass    |
|                                   |                 |               | 50     | 21.67                 | -1.58      | 20.09      | <=30  | Pass    |
|                                   |                 | 100           | 0      | 21.62                 | -1.58      | 20.04      | <=30  | Pass    |
|                                   | 1732.5          | 1             | 0      | 23.06                 | -1.58      | 21.48      | <=30  | Pass    |
|                                   |                 |               | 50     | 22.76                 | -1.58      | 21.18      | <=30  | Pass    |
|                                   |                 |               | 99     | 22.61                 | -1.58      | 21.03      | <=30  | Pass    |
|                                   |                 | 50            | 0      | 21.67                 | -1.58      | 20.09      | <=30  | Pass    |
|                                   |                 |               | 25     | 21.73                 | -1.58      | 20.15      | <=30  | Pass    |
|                                   |                 |               | 50     | 21.72                 | -1.58      | 20.14      | <=30  | Pass    |
|                                   |                 | 100           | 0      | 21.69                 | -1.58      | 20.11      | <=30  | Pass    |
|                                   | 1745            | 1             | 0      | 23.03                 | -1.58      | 21.45      | <=30  | Pass    |
|                                   |                 |               | 50     | 22.68                 | -1.58      | 21.10      | <=30  | Pass    |
|                                   |                 |               | 99     | 22.52                 | -1.58      | 20.94      | <=30  | Pass    |
|                                   |                 | 50            | 0      | 21.72                 | -1.58      | 20.14      | <=30  | Pass    |
|                                   |                 |               | 25     | 21.80                 | -1.58      | 20.22      | <=30  | Pass    |
|                                   |                 |               | 50     | 21.89                 | -1.58      | 20.31      | <=30  | Pass    |
|                                   |                 | 100           | 0      | 21.73                 | -1.58      | 20.15      | <=30  | Pass    |
| 16QAM                             | 1720            | 1             | 0      | 22.26                 | -1.58      | 20.68      | <=30  | Pass    |
|                                   |                 |               | 50     | 21.95                 | -1.58      | 20.37      | <=30  | Pass    |
|                                   |                 |               | 99     | 21.74                 | -1.58      | 20.16      | <=30  | Pass    |
|                                   |                 | 50            | 0      | 20.61                 | -1.58      | 19.03      | <=30  | Pass    |

|  |        |     |    |       |       |       |      |      |
|--|--------|-----|----|-------|-------|-------|------|------|
|  |        | 100 | 25 | 20.82 | -1.58 | 19.24 | <=30 | Pass |
|  |        |     | 50 | 20.70 | -1.58 | 19.12 | <=30 | Pass |
|  |        |     | 0  | 20.63 | -1.58 | 19.05 | <=30 | Pass |
|  | 1732.5 | 1   | 0  | 22.26 | -1.58 | 20.68 | <=30 | Pass |
|  |        |     | 50 | 21.99 | -1.58 | 20.41 | <=30 | Pass |
|  |        |     | 99 | 21.95 | -1.58 | 20.37 | <=30 | Pass |
|  |        | 50  | 0  | 20.69 | -1.58 | 19.11 | <=30 | Pass |
|  |        |     | 25 | 20.79 | -1.58 | 19.21 | <=30 | Pass |
|  |        |     | 50 | 20.73 | -1.58 | 19.15 | <=30 | Pass |
|  |        | 100 | 0  | 20.76 | -1.58 | 19.18 | <=30 | Pass |
|  | 1745   | 1   | 0  | 22.50 | -1.58 | 20.92 | <=30 | Pass |
|  |        |     | 50 | 22.34 | -1.58 | 20.76 | <=30 | Pass |
|  |        |     | 99 | 22.08 | -1.58 | 20.50 | <=30 | Pass |
|  |        | 50  | 0  | 20.77 | -1.58 | 19.19 | <=30 | Pass |
|  |        |     | 25 | 20.85 | -1.58 | 19.27 | <=30 | Pass |
|  |        |     | 50 | 20.93 | -1.58 | 19.35 | <=30 | Pass |
|  |        | 100 | 0  | 20.85 | -1.58 | 19.27 | <=30 | Pass |

Note1: EIRP=Conducted Power+Antenna Gain

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B4\_1.4MHz

| Band: 4 / 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                        | 1710.7          | 6             | 0      | 20         | 3.27          | -12.832          | -0.0075               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 11.659           | 0.0068                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | 4.892            | 0.0029                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | 9.270            | 0.0054                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | 2.232            | 0.0013                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -8.683           | -0.0051               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -7.882           | -0.0046               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | 10.700           | 0.0063                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -9.556           | -0.0056               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | 0.529            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             | 1732.5          | 6             | 0      | 50         | 3.85          | 3.161            | 0.0018                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 20         | 3.27          | -10.700          | -0.0062               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 9.799            | 0.0057                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -8.540           | -0.0049               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -13.461          | -0.0078               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | 12.345           | 0.0071                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | 8.841            | 0.0051                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -5.851           | -0.0034               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | 12.860           | 0.0074                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -3.233           | -0.0019               | -2.5 to 2.5 | Pass    |
|                             | 1754.3          | 6             | 0      | 40         | 3.85          | -0.916           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -1.001           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 20         | 3.27          | 11.315           | 0.0064                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 1.087            | 0.0006                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -8.440           | -0.0048               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -9.284           | -0.0053               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | 1.187            | 0.0007                | -2.5 to 2.5 | Pass    |

|       |        |   |   |     |      |         |         |             |      |
|-------|--------|---|---|-----|------|---------|---------|-------------|------|
| 16QAM | 1710.7 | 6 | 0 | -10 | 3.85 | -10.343 | -0.0059 | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 3.85 | 4.220   | 0.0024  | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 3.85 | -7.539  | -0.0043 | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 3.85 | -8.497  | -0.0048 | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 3.85 | -16.036 | -0.0091 | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 3.85 | 7.968   | 0.0045  | -2.5 to 2.5 | Pass |
|       | 1732.5 | 6 | 0 | 20  | 3.27 | -12.445 | -0.0073 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 3.85 | -4.864  | -0.0028 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 4.43 | -1.760  | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 3.85 | -14.005 | -0.0082 | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 3.85 | 8.597   | 0.0050  | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 3.85 | -16.723 | -0.0098 | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 3.85 | -12.431 | -0.0073 | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 3.85 | -8.240  | -0.0048 | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 3.85 | 8.998   | 0.0053  | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 3.85 | -0.658  | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 3.85 | 7.911   | 0.0046  | -2.5 to 2.5 | Pass |
|       |        |   |   | 20  | 3.27 | 4.063   | 0.0023  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 3.85 | -15.807 | -0.0091 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 4.43 | -13.776 | -0.0080 | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 3.85 | -11.015 | -0.0064 | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 3.85 | -3.533  | -0.0020 | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 3.85 | -5.708  | -0.0033 | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 3.85 | 2.146   | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 3.85 | 3.333   | 0.0019  | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 3.85 | 5.779   | 0.0033  | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 3.85 | 4.206   | 0.0024  | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 3.85 | -5.164  | -0.0030 | -2.5 to 2.5 | Pass |
|       | 1754.3 | 6 | 0 | 20  | 3.27 | -16.150 | -0.0092 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 3.85 | -12.002 | -0.0068 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 4.43 | -10.929 | -0.0062 | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 3.85 | -12.059 | -0.0069 | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 3.85 | -14.663 | -0.0084 | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 3.85 | -14.434 | -0.0082 | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 3.85 | -12.960 | -0.0074 | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 3.85 | -3.462  | -0.0020 | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 3.85 | -13.218 | -0.0075 | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 3.85 | -8.526  | -0.0049 | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 3.85 | 3.834   | 0.0022  | -2.5 to 2.5 | Pass |

## 2.1.2 B4\_3MHz

| Band: 4 / Bandwidth: 3MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 1711.5          | 15            | 0      | 20         | 3.27          | -5.865           | -0.0034               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.85          | 6.580            | 0.0038                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.43          | 4.392            | 0.0026                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.85          | 8.554            | 0.0050                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.85          | 0.658            | 0.0004                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.85          | -3.290           | -0.0019               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.85          | -3.247           | -0.0019               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 3.85          | 1.931            | 0.0011                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 3.85          | -16.937          | -0.0099               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 3.85          | -13.046          | -0.0076               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 3.85          | -11.301          | -0.0066               | -2.5 to 2.5 | Pass    |

|       |        |    |   |     |      |         |         |             |      |
|-------|--------|----|---|-----|------|---------|---------|-------------|------|
|       | 1732.5 | 15 | 0 | 20  | 3.27 | -8.168  | -0.0047 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.85 | -20.084 | -0.0116 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.43 | -5.794  | -0.0033 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.85 | -3.791  | -0.0022 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.85 | 1.516   | 0.0009  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.85 | 3.333   | 0.0019  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.85 | -7.310  | -0.0042 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.85 | -5.622  | -0.0032 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.85 | -13.504 | -0.0078 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.85 | -9.170  | -0.0053 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.85 | -20.084 | -0.0116 | -2.5 to 2.5 | Pass |
|       | 1753.5 | 15 | 0 | 20  | 3.27 | 9.155   | 0.0052  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.85 | 4.163   | 0.0024  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.43 | 11.015  | 0.0063  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.85 | 6.967   | 0.0040  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.85 | 11.272  | 0.0064  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.85 | -6.981  | -0.0040 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.85 | 4.492   | 0.0026  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.85 | -2.089  | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.85 | -1.602  | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.85 | 9.556   | 0.0054  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.85 | 5.808   | 0.0033  | -2.5 to 2.5 | Pass |
| 16QAM | 1711.5 | 15 | 0 | 20  | 3.27 | 3.405   | 0.0020  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.85 | -6.423  | -0.0038 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.43 | -0.315  | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.85 | -9.756  | -0.0057 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.85 | -4.821  | -0.0028 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.85 | -3.433  | -0.0020 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.85 | 0.086   | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.85 | -1.087  | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.85 | -12.417 | -0.0073 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.85 | -8.011  | -0.0047 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.85 | 12.159  | 0.0071  | -2.5 to 2.5 | Pass |
|       | 1732.5 | 15 | 0 | 20  | 3.27 | 1.473   | 0.0009  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.85 | 8.254   | 0.0048  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.43 | 11.802  | 0.0068  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.85 | 8.311   | 0.0048  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.85 | 0.215   | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.85 | -0.944  | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.85 | -4.277  | -0.0025 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.85 | -4.349  | -0.0025 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.85 | -8.469  | -0.0049 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.85 | 8.912   | 0.0051  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.85 | -0.157  | -0.0001 | -2.5 to 2.5 | Pass |
|       | 1753.5 | 15 | 0 | 20  | 3.27 | -1.445  | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.85 | -12.274 | -0.0070 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.43 | 2.360   | 0.0013  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.85 | -12.703 | -0.0072 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.85 | -5.522  | -0.0031 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.85 | 1.187   | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.85 | -17.438 | -0.0099 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.85 | 1.860   | 0.0011  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.85 | -5.865  | -0.0033 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.85 | 0.257   | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.85 | -0.901  | -0.0005 | -2.5 to 2.5 | Pass |

## 2.1.3 B4\_5MHz

| Band: 4 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 1712.5          | 25            | 0      | 20         | 3.27          | -4.292           | -0.0025               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.85          | 0.529            | 0.0003                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.43          | 2.389            | 0.0014                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.85          | 9.999            | 0.0058                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.85          | 6.266            | 0.0037                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.85          | -0.300           | -0.0002               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.85          | -4.506           | -0.0026               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 3.85          | -1.144           | -0.0007               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 3.85          | 2.346            | 0.0014                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 3.85          | -8.297           | -0.0048               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 3.85          | 3.963            | 0.0023                | -2.5 to 2.5 | Pass    |
|                           | 1732.5          | 25            | 0      | 20         | 3.27          | -9.041           | -0.0052               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.85          | 11.144           | 0.0064                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.43          | -1.116           | -0.0006               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.85          | -0.515           | -0.0003               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.85          | -9.642           | -0.0056               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.85          | 0.701            | 0.0004                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.85          | -5.593           | -0.0032               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 3.85          | -4.220           | -0.0024               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 3.85          | 2.990            | 0.0017                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 3.85          | -2.847           | -0.0016               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 3.85          | -2.260           | -0.0013               | -2.5 to 2.5 | Pass    |
|                           | 1752.5          | 25            | 0      | 20         | 3.27          | 4.334            | 0.0025                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.85          | 3.262            | 0.0019                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.43          | 0.687            | 0.0004                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.85          | 0.658            | 0.0004                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.85          | 2.789            | 0.0016                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.85          | 0.629            | 0.0004                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.85          | 6.094            | 0.0035                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 3.85          | -2.275           | -0.0013               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 3.85          | -0.501           | -0.0003               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 3.85          | 0.043            | 0.0000                | -2.5 to 2.5 | Pass    |
| 16QAM                     | 1712.5          | 25            | 0      | 20         | 3.27          | -11.101          | -0.0065               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.85          | -4.921           | -0.0029               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.43          | -5.651           | -0.0033               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.85          | 9.956            | 0.0058                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.85          | -6.380           | -0.0037               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.85          | 2.074            | 0.0012                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.85          | 6.623            | 0.0039                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 3.85          | -9.112           | -0.0053               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 3.85          | -7.396           | -0.0043               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 3.85          | 2.189            | 0.0013                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 3.85          | 5.422            | 0.0032                | -2.5 to 2.5 | Pass    |
|                           | 1732.5          | 25            | 0      | 20         | 3.27          | -1.116           | -0.0006               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.85          | 6.037            | 0.0035                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.43          | -4.177           | -0.0024               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.85          | -2.975           | -0.0017               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.85          | 3.891            | 0.0022                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.85          | -4.063           | -0.0023               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.85          | -1.674           | -0.0010               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 3.85          | -9.112           | -0.0053               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 3.85          | -5.178           | -0.0030               | -2.5 to 2.5 | Pass    |

|  |        |    |   |     |      |         |         |             |      |
|--|--------|----|---|-----|------|---------|---------|-------------|------|
|  | 1752.5 | 25 | 0 | 40  | 3.85 | 1.931   | 0.0011  | -2.5 to 2.5 | Pass |
|  |        |    |   | 50  | 3.85 | -5.980  | -0.0035 | -2.5 to 2.5 | Pass |
|  |        |    |   | 20  | 3.27 | -3.061  | -0.0017 | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 3.85 | 7.510   | 0.0043  | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 4.43 | -5.078  | -0.0029 | -2.5 to 2.5 | Pass |
|  |        |    |   | -30 | 3.85 | 1.030   | 0.0006  | -2.5 to 2.5 | Pass |
|  |        |    |   | -20 | 3.85 | 2.775   | 0.0016  | -2.5 to 2.5 | Pass |
|  |        |    |   | -10 | 3.85 | 0.072   | 0.0000  | -2.5 to 2.5 | Pass |
|  |        |    |   | 0   | 3.85 | -0.072  | 0.0000  | -2.5 to 2.5 | Pass |
|  |        |    |   | 10  | 3.85 | 2.217   | 0.0013  | -2.5 to 2.5 | Pass |
|  |        |    |   | 30  | 3.85 | -0.672  | -0.0004 | -2.5 to 2.5 | Pass |
|  |        |    |   | 40  | 3.85 | -13.189 | -0.0075 | -2.5 to 2.5 | Pass |
|  |        |    |   | 50  | 3.85 | 9.055   | 0.0052  | -2.5 to 2.5 | Pass |

#### 2.1.4 B4\_10MHz

| Band: 4 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1715            | 50            | 0      | 20         | 3.27          | 1.144            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | 1.731            | 0.0010                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -3.476           | -0.0020               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | 2.275            | 0.0013                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | 0.443            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | 1.974            | 0.0012                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -2.203           | -0.0013               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -7.224           | -0.0042               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -3.490           | -0.0020               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | 0.672            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | -6.938           | -0.0040               | -2.5 to 2.5 | Pass    |
|                            | 1732.5          | 50            | 0      | 20         | 3.27          | -0.286           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -2.203           | -0.0013               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -5.364           | -0.0031               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -0.286           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -1.359           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -1.230           | -0.0007               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -1.903           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | 0.544            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -1.645           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | 3.004            | 0.0017                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | -4.234           | -0.0024               | -2.5 to 2.5 | Pass    |
|                            | 1750            | 50            | 0      | 20         | 3.27          | 5.479            | 0.0031                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | 2.832            | 0.0016                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | 0.129            | 0.0001                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | 1.602            | 0.0009                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -0.257           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -1.888           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | 4.320            | 0.0025                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | 6.223            | 0.0036                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -6.552           | -0.0037               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -6.208           | -0.0035               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | 8.168            | 0.0047                | -2.5 to 2.5 | Pass    |
| 16QAM                      | 1715            | 50            | 0      | 20         | 3.27          | -2.260           | -0.0013               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | 3.734            | 0.0022                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -5.035           | -0.0029               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | 2.131            | 0.0012                | -2.5 to 2.5 | Pass    |

|  |        |    |   |     |      |        |         |             |      |
|--|--------|----|---|-----|------|--------|---------|-------------|------|
|  |        |    |   | -20 | 3.85 | 1.087  | 0.0006  | -2.5 to 2.5 | Pass |
|  |        |    |   | -10 | 3.85 | 6.452  | 0.0038  | -2.5 to 2.5 | Pass |
|  |        |    |   | 0   | 3.85 | 2.818  | 0.0016  | -2.5 to 2.5 | Pass |
|  |        |    |   | 10  | 3.85 | 1.073  | 0.0006  | -2.5 to 2.5 | Pass |
|  |        |    |   | 30  | 3.85 | -3.862 | -0.0023 | -2.5 to 2.5 | Pass |
|  |        |    |   | 40  | 3.85 | -0.157 | -0.0001 | -2.5 to 2.5 | Pass |
|  |        |    |   | 50  | 3.85 | -0.744 | -0.0004 | -2.5 to 2.5 | Pass |
|  | 1732.5 | 50 | 0 | 20  | 3.27 | -0.029 | 0.0000  | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 3.85 | -2.832 | -0.0016 | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 4.43 | -2.604 | -0.0015 | -2.5 to 2.5 | Pass |
|  |        |    |   | -30 | 3.85 | -3.376 | -0.0019 | -2.5 to 2.5 | Pass |
|  |        |    |   | -20 | 3.85 | -2.160 | -0.0012 | -2.5 to 2.5 | Pass |
|  |        |    |   | -10 | 3.85 | -3.748 | -0.0022 | -2.5 to 2.5 | Pass |
|  |        |    |   | 0   | 3.85 | -8.941 | -0.0052 | -2.5 to 2.5 | Pass |
|  |        |    |   | 10  | 3.85 | -2.789 | -0.0016 | -2.5 to 2.5 | Pass |
|  |        |    |   | 30  | 3.85 | -1.817 | -0.0010 | -2.5 to 2.5 | Pass |
|  |        |    |   | 40  | 3.85 | -2.332 | -0.0013 | -2.5 to 2.5 | Pass |
|  |        |    |   | 50  | 3.85 | -1.130 | -0.0007 | -2.5 to 2.5 | Pass |
|  | 1750   | 50 | 0 | 20  | 3.27 | 0.100  | 0.0001  | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 3.85 | 2.217  | 0.0013  | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 4.43 | 0.443  | 0.0003  | -2.5 to 2.5 | Pass |
|  |        |    |   | -30 | 3.85 | -2.661 | -0.0015 | -2.5 to 2.5 | Pass |
|  |        |    |   | -20 | 3.85 | -3.891 | -0.0022 | -2.5 to 2.5 | Pass |
|  |        |    |   | -10 | 3.85 | 3.676  | 0.0021  | -2.5 to 2.5 | Pass |
|  |        |    |   | 0   | 3.85 | -4.878 | -0.0028 | -2.5 to 2.5 | Pass |
|  |        |    |   | 10  | 3.85 | -1.087 | -0.0006 | -2.5 to 2.5 | Pass |
|  |        |    |   | 30  | 3.85 | -1.845 | -0.0011 | -2.5 to 2.5 | Pass |
|  |        |    |   | 40  | 3.85 | 1.159  | 0.0007  | -2.5 to 2.5 | Pass |
|  |        |    |   | 50  | 3.85 | 0.544  | 0.0003  | -2.5 to 2.5 | Pass |

### 2.1.5 B4\_15MHz

| Band: 4 / Bandwidth: 15MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1717.5          | 75            | 0      | 20         | 3.27          | -2.604           | -0.0015               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -2.890           | -0.0017               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -5.379           | -0.0031               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -5.264           | -0.0031               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | 2.646            | 0.0015                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -4.735           | -0.0028               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | 0.958            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -0.443           | -0.0003               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -6.065           | -0.0035               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | 0.172            | 0.0001                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | -3.119           | -0.0018               | -2.5 to 2.5 | Pass    |
|                            | 1732.5          | 75            | 0      | 20         | 3.27          | -3.676           | -0.0021               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -2.518           | -0.0015               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -1.016           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -0.873           | -0.0005               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -4.191           | -0.0024               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -2.317           | -0.0013               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | 1.144            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -1.588           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -0.901           | -0.0005               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -1.144           | -0.0007               | -2.5 to 2.5 | Pass    |

|       |        |    |   |     |      |        |         |             |      |
|-------|--------|----|---|-----|------|--------|---------|-------------|------|
|       | 1747.5 | 75 | 0 | 50  | 3.85 | -2.618 | -0.0015 | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.27 | 3.877  | 0.0022  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.85 | 1.101  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.43 | -2.618 | -0.0015 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.85 | -1.473 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.85 | -0.701 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.85 | -2.761 | -0.0016 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.85 | -1.402 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.85 | 2.975  | 0.0017  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.85 | 1.945  | 0.0011  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.85 | 0.257  | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.85 | 0.644  | 0.0004  | -2.5 to 2.5 | Pass |
| 16QAM | 1717.5 | 75 | 0 | 20  | 3.27 | 3.376  | 0.0020  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.85 | -3.319 | -0.0019 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.43 | -2.818 | -0.0016 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.85 | -1.259 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.85 | -3.161 | -0.0018 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.85 | 1.731  | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.85 | -2.489 | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.85 | -0.114 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.85 | -0.529 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.85 | -4.091 | -0.0024 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.85 | -0.644 | -0.0004 | -2.5 to 2.5 | Pass |
|       | 1732.5 | 75 | 0 | 20  | 3.27 | -5.465 | -0.0032 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.85 | 0.758  | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.43 | -5.221 | -0.0030 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.85 | 0.272  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.85 | -2.503 | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.85 | -5.407 | -0.0031 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.85 | -0.687 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.85 | -2.861 | -0.0017 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.85 | -3.676 | -0.0021 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.85 | -1.016 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.85 | 1.159  | 0.0007  | -2.5 to 2.5 | Pass |
|       | 1747.5 | 75 | 0 | 20  | 3.27 | -2.375 | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.85 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.43 | -0.401 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.85 | 0.587  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.85 | -4.950 | -0.0028 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.85 | -1.259 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.85 | -3.891 | -0.0022 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.85 | -2.131 | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.85 | 1.960  | 0.0011  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.85 | -2.503 | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.85 | -0.186 | -0.0001 | -2.5 to 2.5 | Pass |

## 2.1.6 B4\_20MHz

| Band: 4 / Bandwidth: 20MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1720            | 100           | 0      | 20         | 3.27          | -7.396           | -0.0043               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -3.204           | -0.0019               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -4.964           | -0.0029               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | 1.373            | 0.0008                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -1.101           | -0.0006               | -2.5 to 2.5 | Pass    |

|       |        |     |   |     |      |         |         |             |      |
|-------|--------|-----|---|-----|------|---------|---------|-------------|------|
|       |        |     |   | -10 | 3.85 | -4.277  | -0.0025 | -2.5 to 2.5 | Pass |
|       |        |     |   | 0   | 3.85 | -1.316  | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |     |   | 10  | 3.85 | -5.322  | -0.0031 | -2.5 to 2.5 | Pass |
|       |        |     |   | 30  | 3.85 | 0.014   | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |     |   | 40  | 3.85 | 2.904   | 0.0017  | -2.5 to 2.5 | Pass |
|       |        |     |   | 50  | 3.85 | -3.777  | -0.0022 | -2.5 to 2.5 | Pass |
|       | 1732.5 | 100 | 0 | 20  | 3.27 | 1.831   | 0.0011  | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 3.85 | 2.775   | 0.0016  | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 4.43 | -1.903  | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |     |   | -30 | 3.85 | -3.047  | -0.0018 | -2.5 to 2.5 | Pass |
|       |        |     |   | -20 | 3.85 | -1.974  | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |     |   | -10 | 3.85 | -6.351  | -0.0037 | -2.5 to 2.5 | Pass |
|       |        |     |   | 0   | 3.85 | -4.406  | -0.0025 | -2.5 to 2.5 | Pass |
|       |        |     |   | 10  | 3.85 | -2.389  | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |     |   | 30  | 3.85 | 4.063   | 0.0023  | -2.5 to 2.5 | Pass |
|       |        |     |   | 40  | 3.85 | 0.086   | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |     |   | 50  | 3.85 | -8.125  | -0.0047 | -2.5 to 2.5 | Pass |
|       |        |     |   | 20  | 3.27 | -2.418  | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 3.85 | -4.334  | -0.0025 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 4.43 | -4.249  | -0.0024 | -2.5 to 2.5 | Pass |
|       | 1745   | 100 | 0 | -30 | 3.85 | -2.174  | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |     |   | -20 | 3.85 | 2.131   | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |     |   | -10 | 3.85 | -1.645  | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |     |   | 0   | 3.85 | 1.459   | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |     |   | 10  | 3.85 | -2.804  | -0.0016 | -2.5 to 2.5 | Pass |
|       |        |     |   | 30  | 3.85 | 2.017   | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |     |   | 40  | 3.85 | 1.745   | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |     |   | 50  | 3.85 | -3.762  | -0.0022 | -2.5 to 2.5 | Pass |
| 16QAM | 1720   | 100 | 0 | 20  | 3.27 | -1.559  | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 3.85 | -2.275  | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 4.43 | -1.731  | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |     |   | -30 | 3.85 | -1.359  | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |     |   | -20 | 3.85 | -2.074  | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |     |   | -10 | 3.85 | -3.004  | -0.0017 | -2.5 to 2.5 | Pass |
|       |        |     |   | 0   | 3.85 | -3.448  | -0.0020 | -2.5 to 2.5 | Pass |
|       |        |     |   | 10  | 3.85 | 0.114   | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |     |   | 30  | 3.85 | 0.958   | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |     |   | 40  | 3.85 | 1.688   | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |     |   | 50  | 3.85 | -2.732  | -0.0016 | -2.5 to 2.5 | Pass |
|       | 1732.5 | 100 | 0 | 20  | 3.27 | -2.174  | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 3.85 | -0.701  | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 4.43 | -3.290  | -0.0019 | -2.5 to 2.5 | Pass |
|       |        |     |   | -30 | 3.85 | -6.852  | -0.0040 | -2.5 to 2.5 | Pass |
|       |        |     |   | -20 | 3.85 | -2.131  | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |     |   | -10 | 3.85 | -4.392  | -0.0025 | -2.5 to 2.5 | Pass |
|       |        |     |   | 0   | 3.85 | -1.945  | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |     |   | 10  | 3.85 | -11.687 | -0.0067 | -2.5 to 2.5 | Pass |
|       |        |     |   | 30  | 3.85 | -2.303  | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |     |   | 40  | 3.85 | -3.519  | -0.0020 | -2.5 to 2.5 | Pass |
|       |        |     |   | 50  | 3.85 | 1.788   | 0.0010  | -2.5 to 2.5 | Pass |
|       | 1745   | 100 | 0 | 20  | 3.27 | -3.276  | -0.0019 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 3.85 | 1.030   | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 4.43 | 0.572   | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |     |   | -30 | 3.85 | -3.190  | -0.0018 | -2.5 to 2.5 | Pass |
|       |        |     |   | -20 | 3.85 | 5.064   | 0.0029  | -2.5 to 2.5 | Pass |
|       |        |     |   | -10 | 3.85 | 1.216   | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |     |   | 0   | 3.85 | -5.136  | -0.0029 | -2.5 to 2.5 | Pass |
|       |        |     |   | 10  | 3.85 | 1.330   | 0.0008  | -2.5 to 2.5 | Pass |

|  |  |  |  |    |      |        |         |             |      |
|--|--|--|--|----|------|--------|---------|-------------|------|
|  |  |  |  | 30 | 3.85 | 2.675  | 0.0015  | -2.5 to 2.5 | Pass |
|  |  |  |  | 40 | 3.85 | 1.187  | 0.0007  | -2.5 to 2.5 | Pass |
|  |  |  |  | 50 | 3.85 | -5.722 | -0.0033 | -2.5 to 2.5 | Pass |

### 3. Modulation Characteristics

#### 3.1 Test Result

##### 3.1.1 B4\_1.4MHz

| Band: 4 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                            |       |         |
|------------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Modulation Characteristics |       | Verdict |
|                                    |                 | Size          | Offset | Result                     | Limit |         |
| QPSK                               | 1732.5          | 6             | 0      | Refer To Test Graph        |       | Pass    |
| 16QAM                              | 1732.5          | 6             | 0      | Refer To Test Graph        |       | Pass    |

##### 3.1.2 B4\_3MHz

| Band: 4 / Bandwidth: 3MHz / NTNV |                 |               |        |                            |       |         |
|----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Modulation Characteristics |       | Verdict |
|                                  |                 | Size          | Offset | Result                     | Limit |         |
| QPSK                             | 1732.5          | 15            | 0      | Refer To Test Graph        |       | Pass    |
| 16QAM                            | 1732.5          | 15            | 0      | Refer To Test Graph        |       | Pass    |

##### 3.1.3 B4\_5MHz

| Band: 4 / Bandwidth: 5MHz / NTNV |                 |               |        |                            |       |         |
|----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Modulation Characteristics |       | Verdict |
|                                  |                 | Size          | Offset | Result                     | Limit |         |
| QPSK                             | 1732.5          | 25            | 0      | Refer To Test Graph        |       | Pass    |
| 16QAM                            | 1732.5          | 25            | 0      | Refer To Test Graph        |       | Pass    |

##### 3.1.4 B4\_10MHz

| Band: 4 / Bandwidth: 10MHz / NTNV |                 |               |        |                            |       |         |
|-----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Modulation Characteristics |       | Verdict |
|                                   |                 | Size          | Offset | Result                     | Limit |         |
| QPSK                              | 1732.5          | 50            | 0      | Refer To Test Graph        |       | Pass    |
| 16QAM                             | 1732.5          | 50            | 0      | Refer To Test Graph        |       | Pass    |

##### 3.1.5 B4\_15MHz

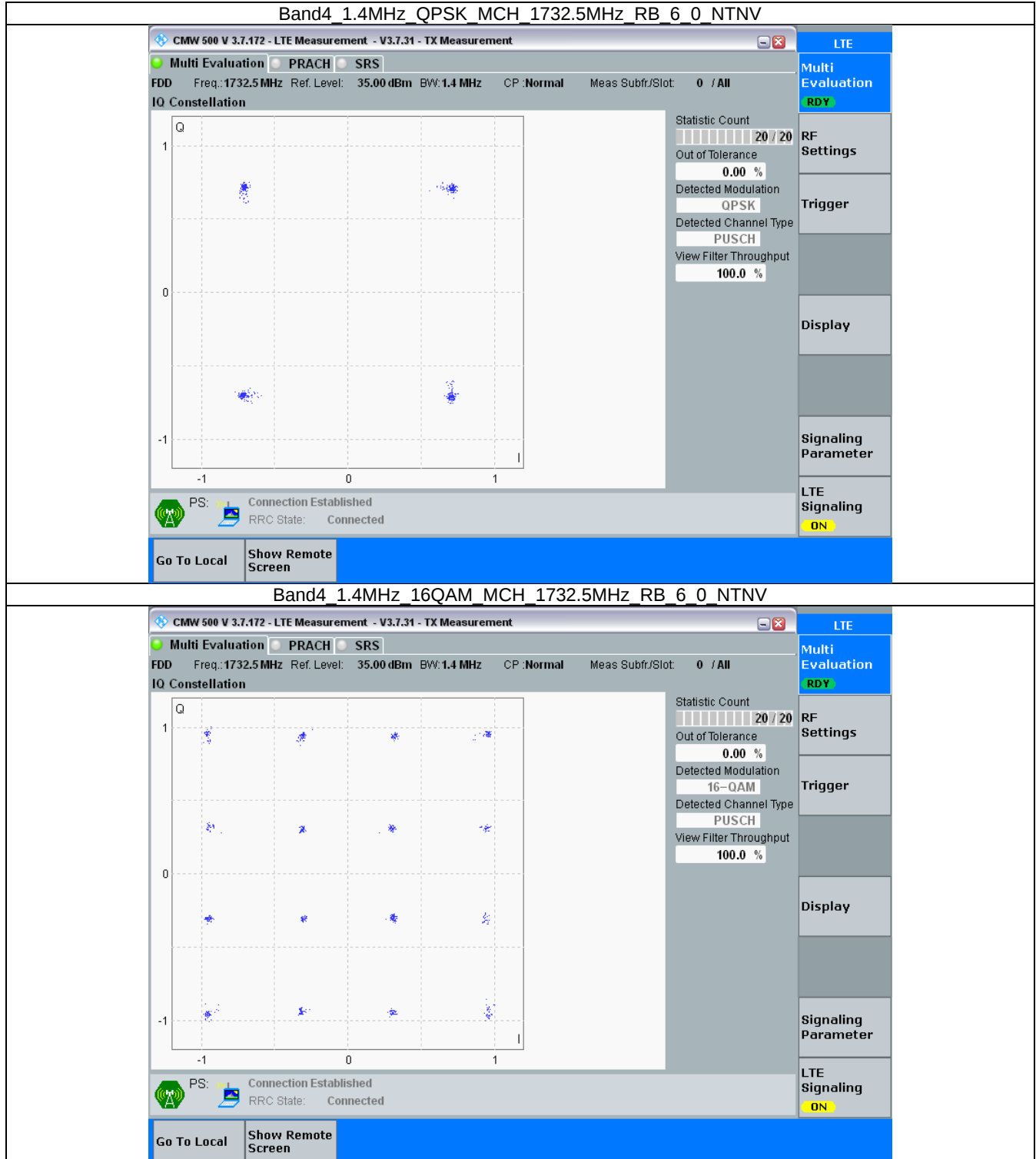
| Band: 4 / Bandwidth: 15MHz / NTNV |                 |               |        |                            |       |         |
|-----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Modulation Characteristics |       | Verdict |
|                                   |                 | Size          | Offset | Result                     | Limit |         |
| QPSK                              | 1732.5          | 75            | 0      | Refer To Test Graph        |       | Pass    |
| 16QAM                             | 1732.5          | 75            | 0      | Refer To Test Graph        |       | Pass    |

## 3.1.6 B4\_20MHz

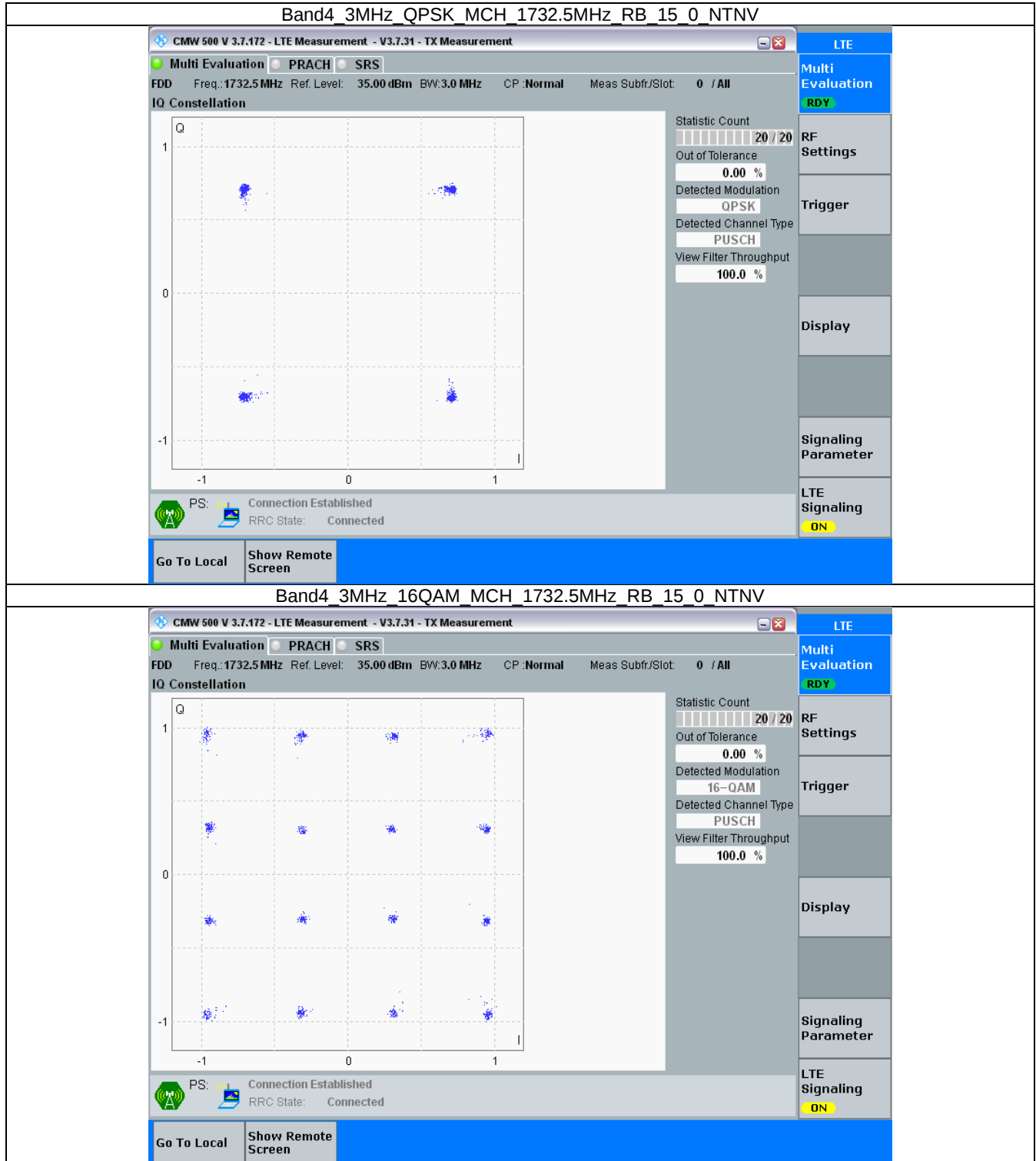
| Band: 4 / Bandwidth: 20MHz / NTV |                 |               |        |                            |       |         |
|----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Modulation Characteristics |       | Verdict |
|                                  |                 | Size          | Offset | Result                     | Limit |         |
| QPSK                             | 1732.5          | 100           | 0      | Refer To Test Graph        |       | Pass    |
| 16QAM                            | 1732.5          | 100           | 0      | Refer To Test Graph        |       | Pass    |

## 3.2 Test Graph

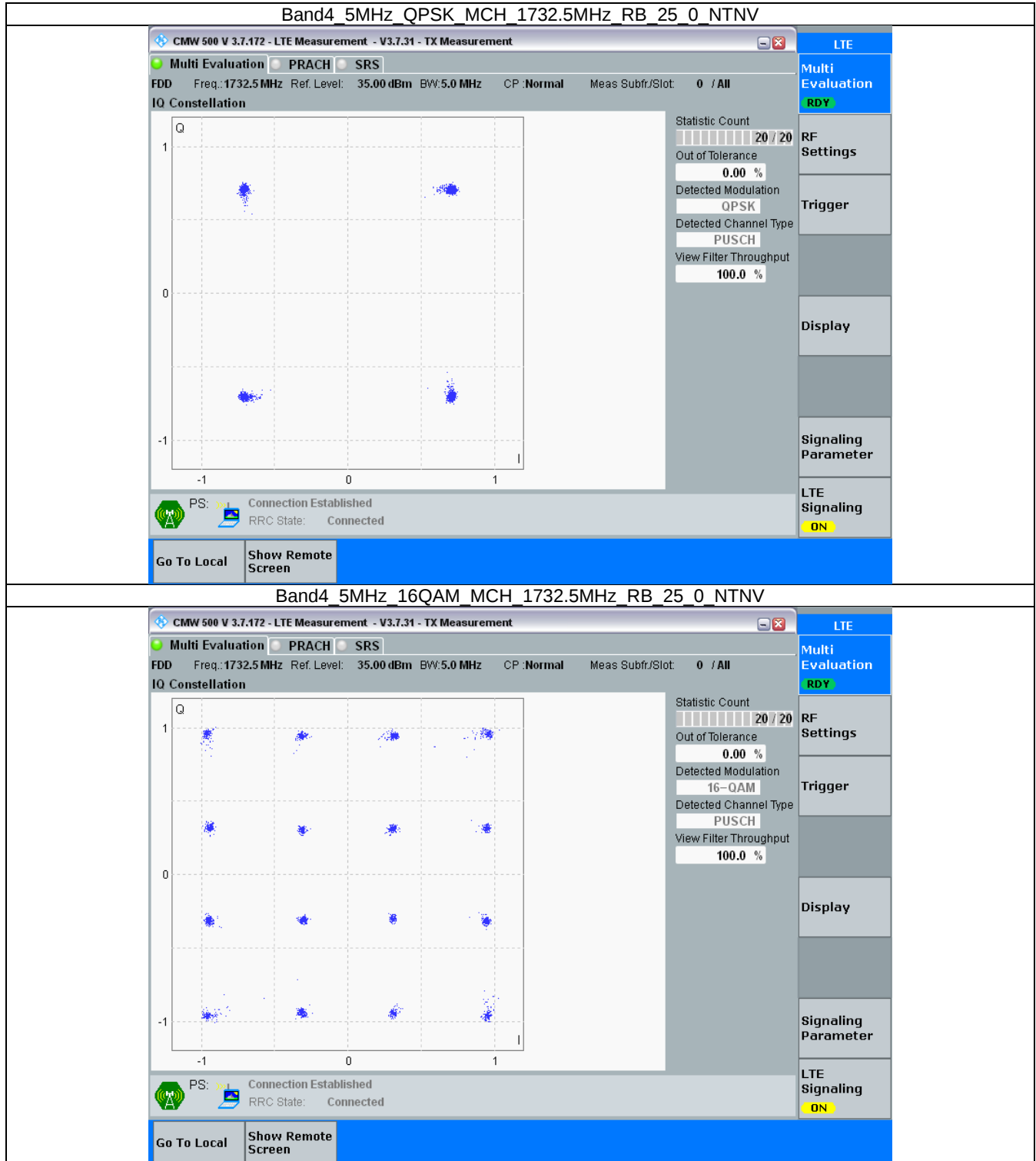
### 3.2.1 B4\_1.4MHz



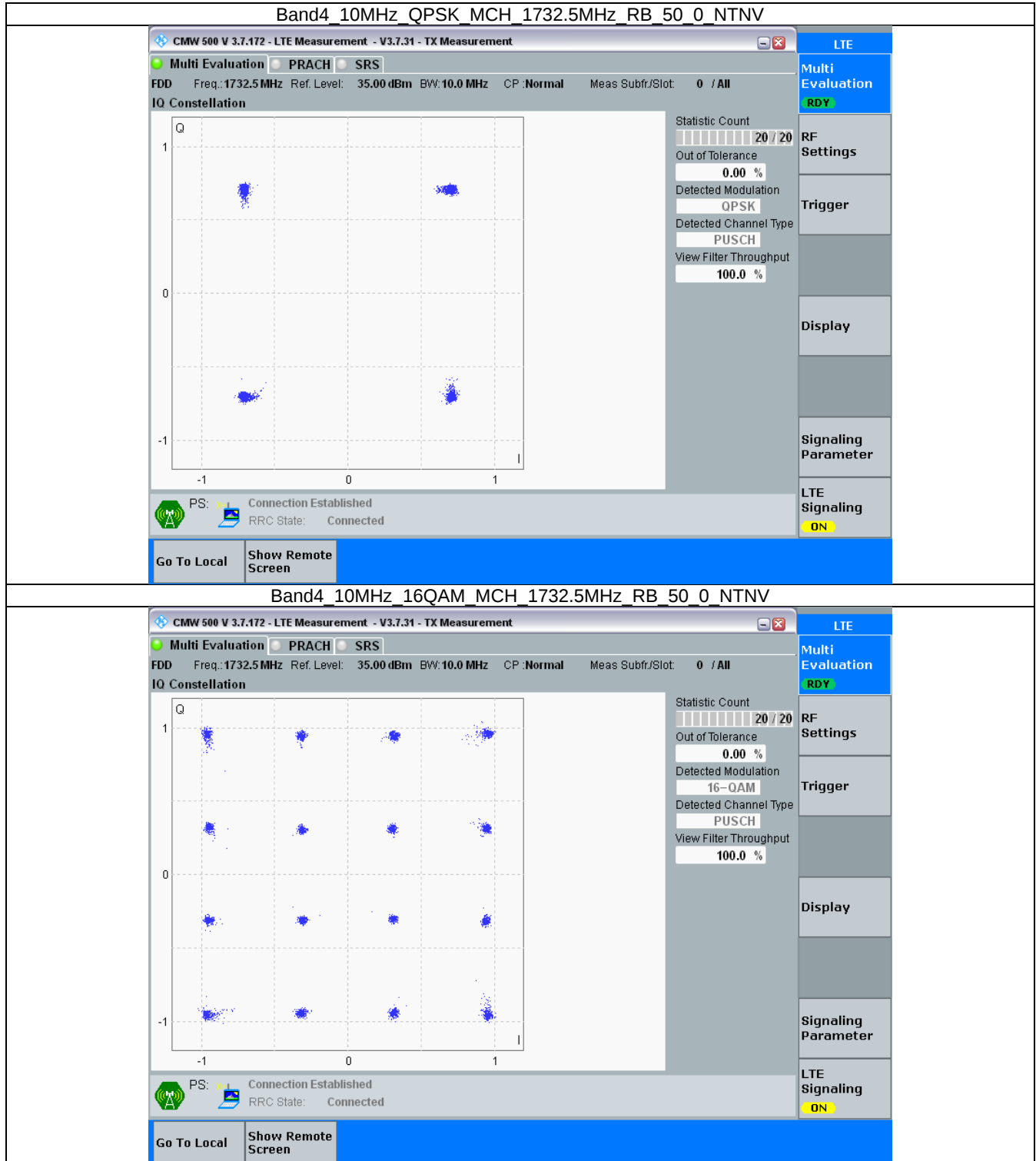
### 3.2.2 B4\_3MHz



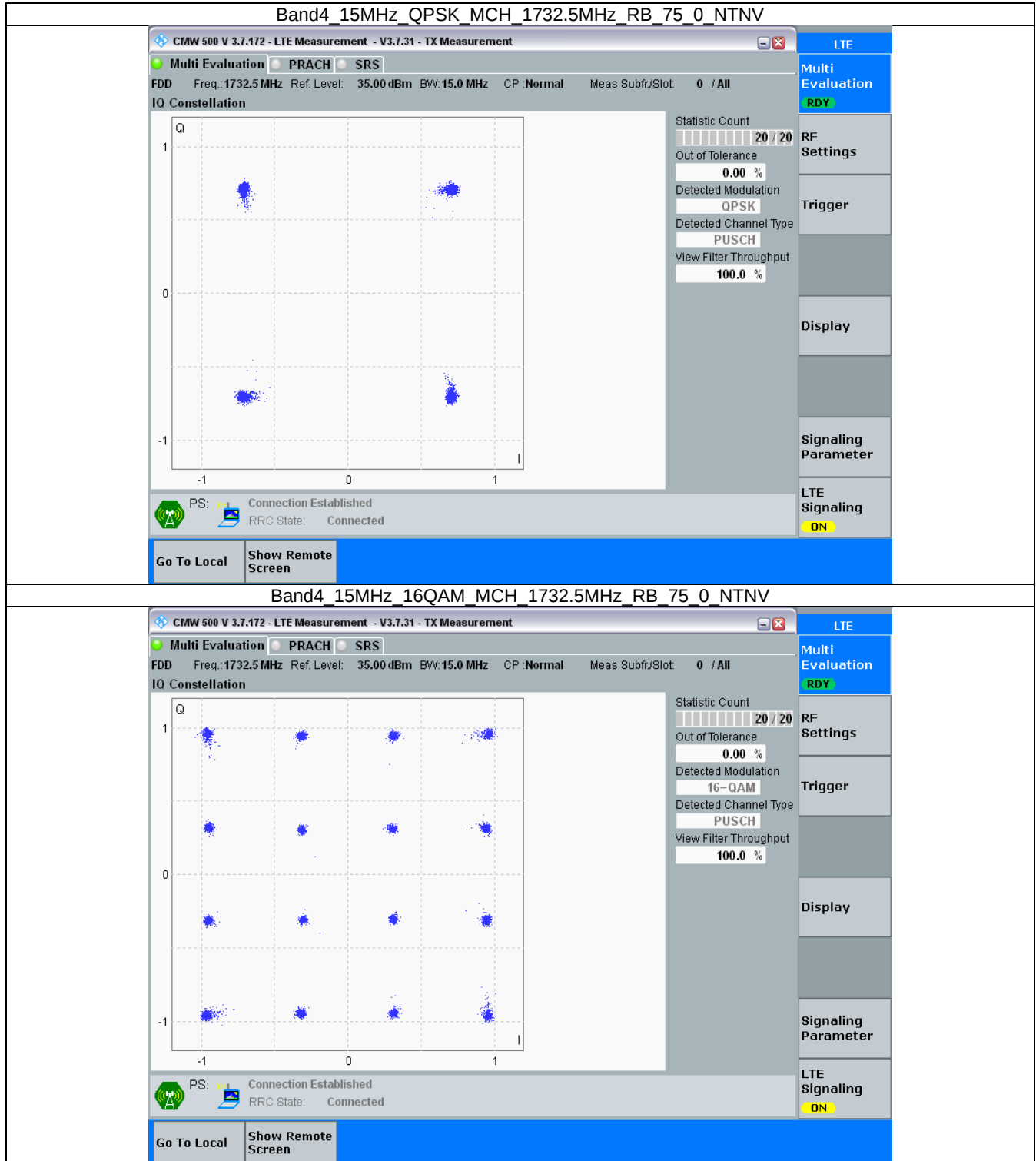
### 3.2.3 B4\_5MHz



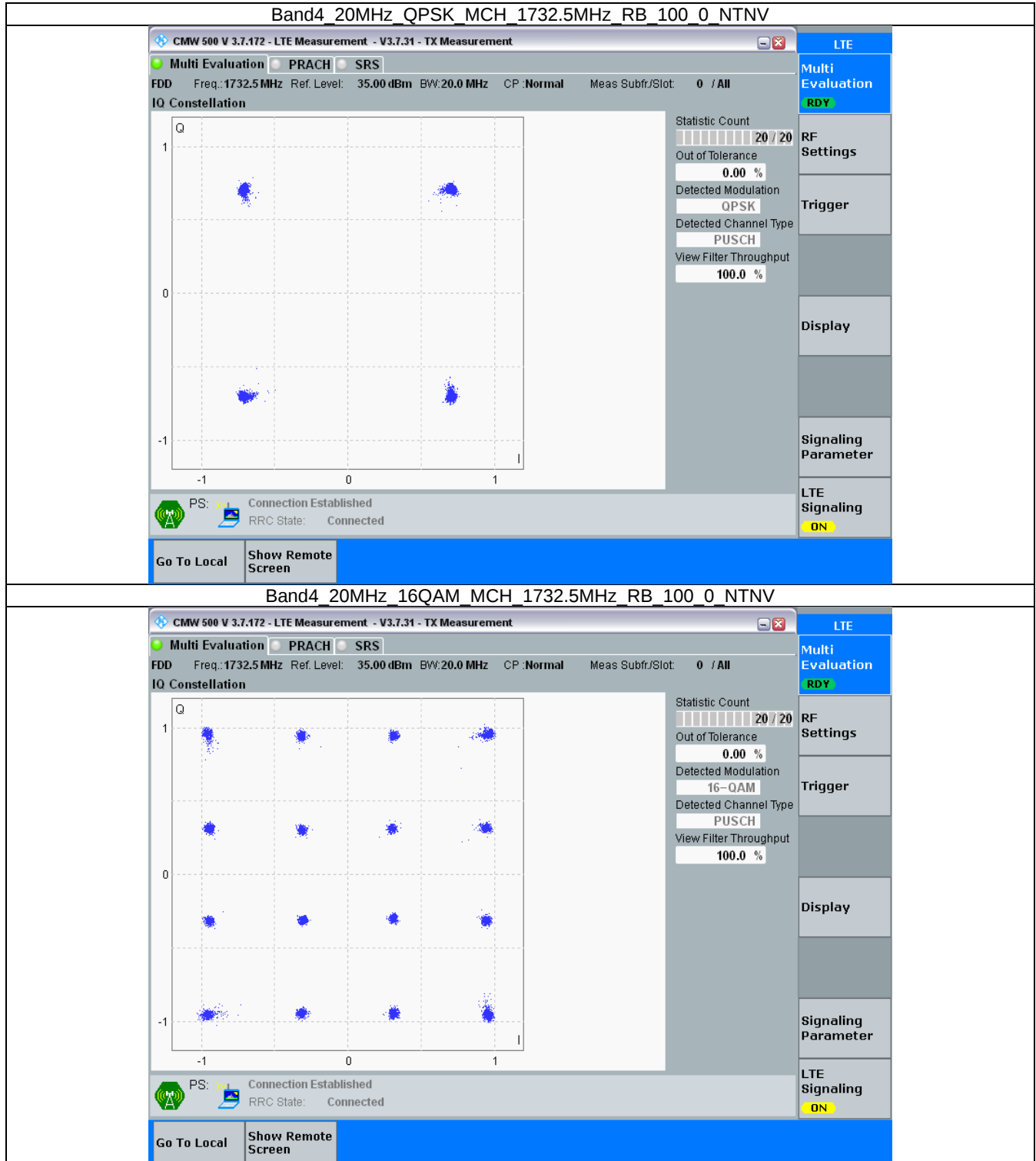
### 3.2.4 B4\_10MHz



### 3.2.5 B4\_15MHz



### 3.2.6 B4\_20MHz



## 4. 99% & 26dB Bandwidth

### 4.1 Test Result

#### 4.1.1 Band4\_OBW

| Band: 4 / NTNV  |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 1.4             | QPSK       | 1710.7          | 6             | 0      | 1.112                        | /     | Pass    |
|                 |            | 1732.5          | 6             | 0      | 1.125                        | /     | Pass    |
|                 |            | 1754.3          | 6             | 0      | 1.119                        | /     | Pass    |
|                 | 16QAM      | 1710.7          | 6             | 0      | 1.122                        | /     | Pass    |
|                 |            | 1732.5          | 6             | 0      | 1.116                        | /     | Pass    |
|                 |            | 1754.3          | 6             | 0      | 1.107                        | /     | Pass    |
| 3               | QPSK       | 1711.5          | 15            | 0      | 2.743                        | /     | Pass    |
|                 |            | 1732.5          | 15            | 0      | 2.727                        | /     | Pass    |
|                 |            | 1753.5          | 15            | 0      | 2.723                        | /     | Pass    |
|                 | 16QAM      | 1711.5          | 15            | 0      | 2.732                        | /     | Pass    |
|                 |            | 1732.5          | 15            | 0      | 2.727                        | /     | Pass    |
|                 |            | 1753.5          | 15            | 0      | 2.732                        | /     | Pass    |
| 5               | QPSK       | 1712.5          | 25            | 0      | 4.572                        | /     | Pass    |
|                 |            | 1732.5          | 25            | 0      | 4.553                        | /     | Pass    |
|                 |            | 1752.5          | 25            | 0      | 4.553                        | /     | Pass    |
|                 | 16QAM      | 1712.5          | 25            | 0      | 4.549                        | /     | Pass    |
|                 |            | 1732.5          | 25            | 0      | 4.586                        | /     | Pass    |
|                 |            | 1752.5          | 25            | 0      | 4.544                        | /     | Pass    |
| 10              | QPSK       | 1715            | 50            | 0      | 9.051                        | /     | Pass    |
|                 |            | 1732.5          | 50            | 0      | 9.053                        | /     | Pass    |
|                 |            | 1750            | 50            | 0      | 9.052                        | /     | Pass    |
|                 | 16QAM      | 1715            | 50            | 0      | 9.069                        | /     | Pass    |
|                 |            | 1732.5          | 50            | 0      | 9.070                        | /     | Pass    |
|                 |            | 1750            | 50            | 0      | 9.041                        | /     | Pass    |
| 15              | QPSK       | 1717.5          | 75            | 0      | 13.598                       | /     | Pass    |
|                 |            | 1732.5          | 75            | 0      | 13.602                       | /     | Pass    |
|                 |            | 1747.5          | 75            | 0      | 13.575                       | /     | Pass    |
|                 | 16QAM      | 1717.5          | 75            | 0      | 13.573                       | /     | Pass    |
|                 |            | 1732.5          | 75            | 0      | 13.604                       | /     | Pass    |
|                 |            | 1747.5          | 75            | 0      | 13.587                       | /     | Pass    |
| 20              | QPSK       | 1720            | 100           | 0      | 18.016                       | /     | Pass    |
|                 |            | 1732.5          | 100           | 0      | 18.146                       | /     | Pass    |
|                 |            | 1745            | 100           | 0      | 18.143                       | /     | Pass    |
|                 | 16QAM      | 1720            | 100           | 0      | 18.017                       | /     | Pass    |
|                 |            | 1732.5          | 100           | 0      | 18.209                       | /     | Pass    |
|                 |            | 1745            | 100           | 0      | 18.171                       | /     | Pass    |

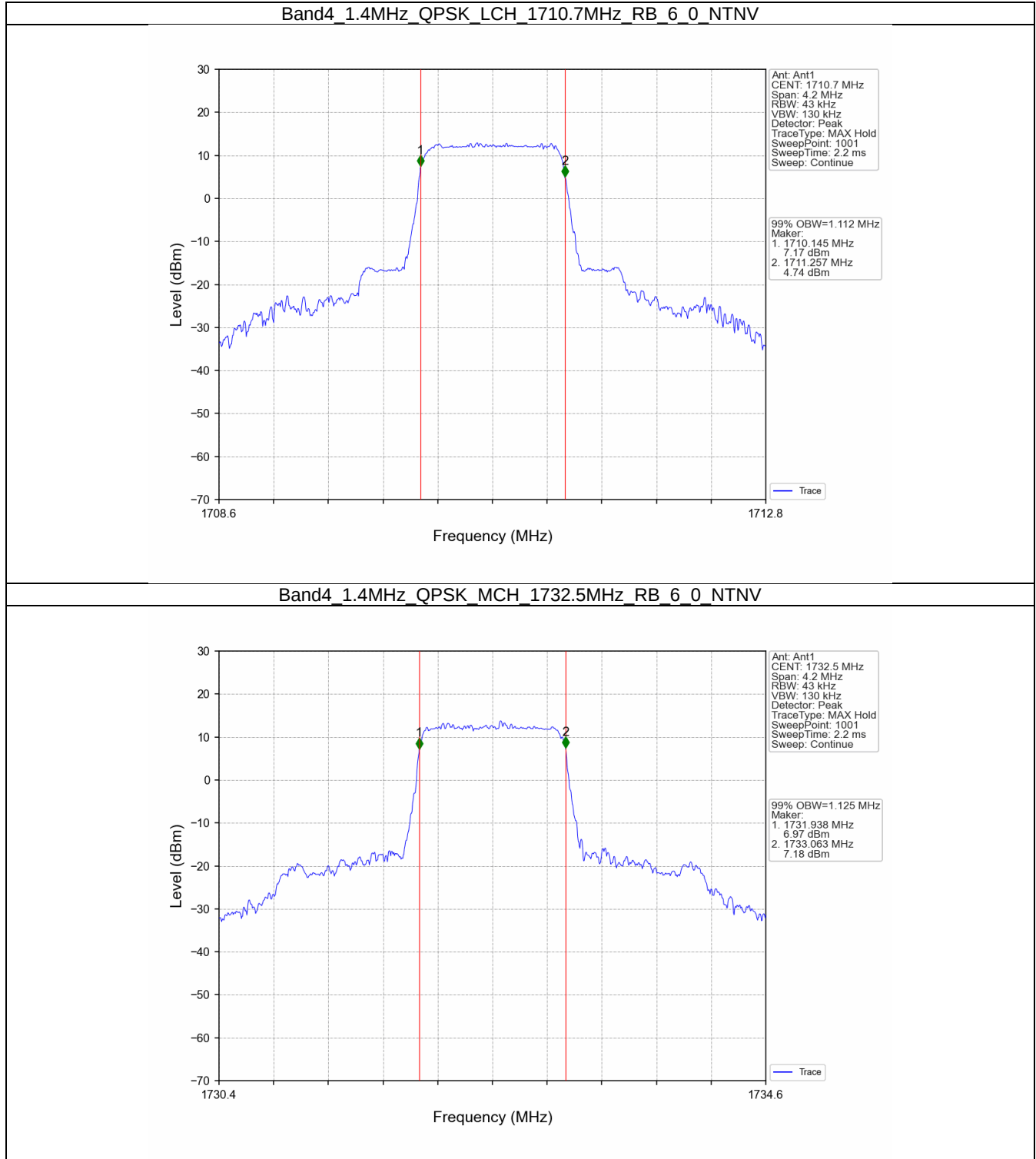
#### 4.1.2 Band4\_XDB

| Band: 4 / NTNV  |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 1.4             | QPSK       | 1710.7          | 6             | 0      | 1.306                | /     | Pass    |

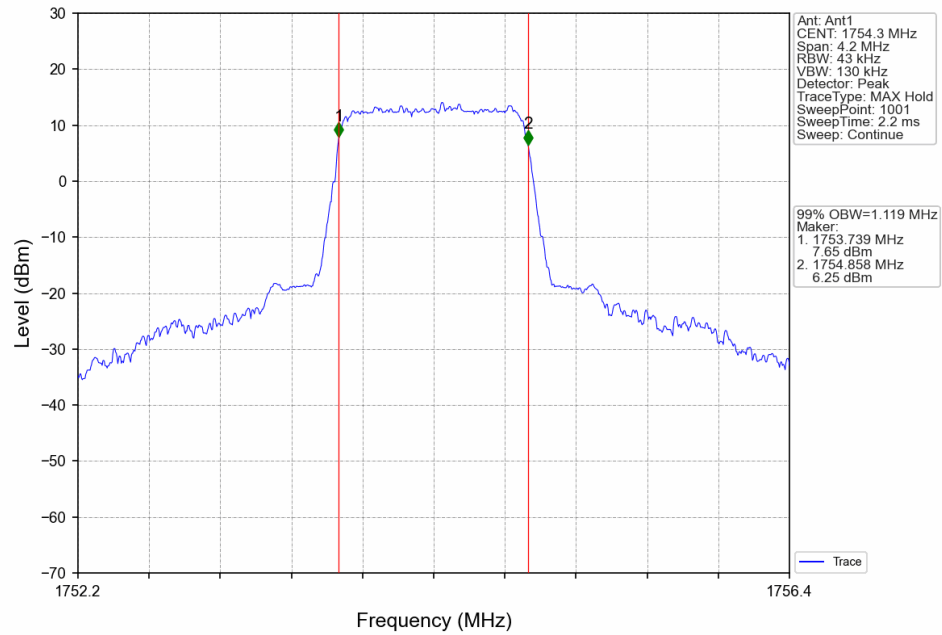
|    |       |        |     |   |        |   |      |
|----|-------|--------|-----|---|--------|---|------|
|    | 16QAM | 1732.5 | 6   | 0 | 1.302  | / | Pass |
|    |       | 1754.3 | 6   | 0 | 1.304  | / | Pass |
|    |       | 1710.7 | 6   | 0 | 1.327  | / | Pass |
|    |       | 1732.5 | 6   | 0 | 1.305  | / | Pass |
|    |       | 1754.3 | 6   | 0 | 1.321  | / | Pass |
| 3  | QPSK  | 1711.5 | 15  | 0 | 3.056  | / | Pass |
|    |       | 1732.5 | 15  | 0 | 3.048  | / | Pass |
|    |       | 1753.5 | 15  | 0 | 3.027  | / | Pass |
|    | 16QAM | 1711.5 | 15  | 0 | 3.051  | / | Pass |
|    |       | 1732.5 | 15  | 0 | 3.044  | / | Pass |
|    |       | 1753.5 | 15  | 0 | 3.018  | / | Pass |
| 5  | QPSK  | 1712.5 | 25  | 0 | 5.039  | / | Pass |
|    |       | 1732.5 | 25  | 0 | 4.983  | / | Pass |
|    |       | 1752.5 | 25  | 0 | 4.984  | / | Pass |
|    | 16QAM | 1712.5 | 25  | 0 | 4.987  | / | Pass |
|    |       | 1732.5 | 25  | 0 | 5.020  | / | Pass |
|    |       | 1752.5 | 25  | 0 | 5.020  | / | Pass |
| 10 | QPSK  | 1715   | 50  | 0 | 9.869  | / | Pass |
|    |       | 1732.5 | 50  | 0 | 9.861  | / | Pass |
|    |       | 1750   | 50  | 0 | 9.909  | / | Pass |
|    | 16QAM | 1715   | 50  | 0 | 9.897  | / | Pass |
|    |       | 1732.5 | 50  | 0 | 9.864  | / | Pass |
|    |       | 1750   | 50  | 0 | 9.875  | / | Pass |
| 15 | QPSK  | 1717.5 | 75  | 0 | 14.917 | / | Pass |
|    |       | 1732.5 | 75  | 0 | 14.793 | / | Pass |
|    |       | 1747.5 | 75  | 0 | 14.771 | / | Pass |
|    | 16QAM | 1717.5 | 75  | 0 | 14.877 | / | Pass |
|    |       | 1732.5 | 75  | 0 | 14.835 | / | Pass |
|    |       | 1747.5 | 75  | 0 | 14.867 | / | Pass |
| 20 | QPSK  | 1720   | 100 | 0 | 19.601 | / | Pass |
|    |       | 1732.5 | 100 | 0 | 19.645 | / | Pass |
|    |       | 1745   | 100 | 0 | 19.833 | / | Pass |
|    | 16QAM | 1720   | 100 | 0 | 19.629 | / | Pass |
|    |       | 1732.5 | 100 | 0 | 19.687 | / | Pass |
|    |       | 1745   | 100 | 0 | 19.723 | / | Pass |

## 4.2 Test Graph

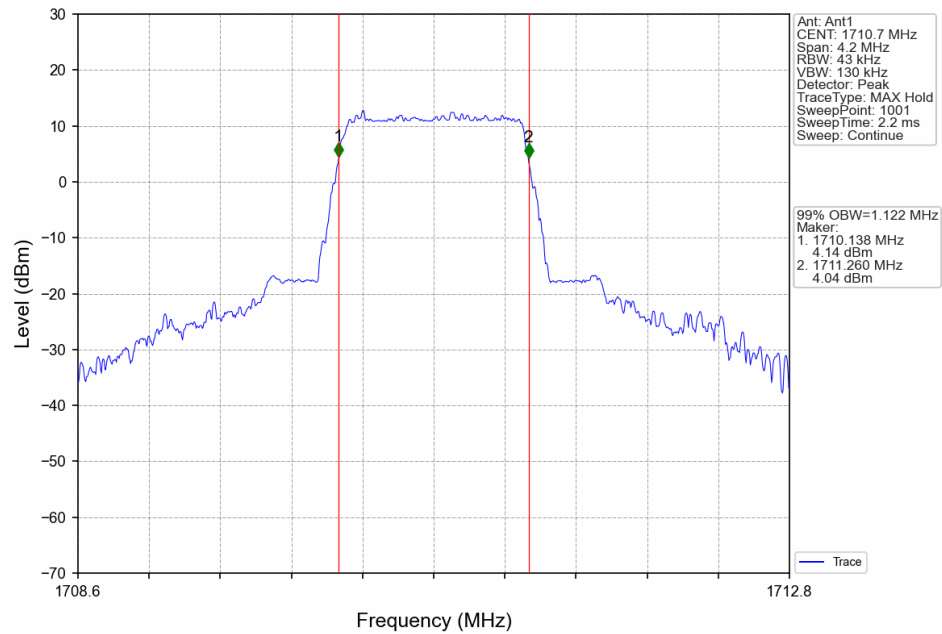
### 4.2.1 Band4\_OBW



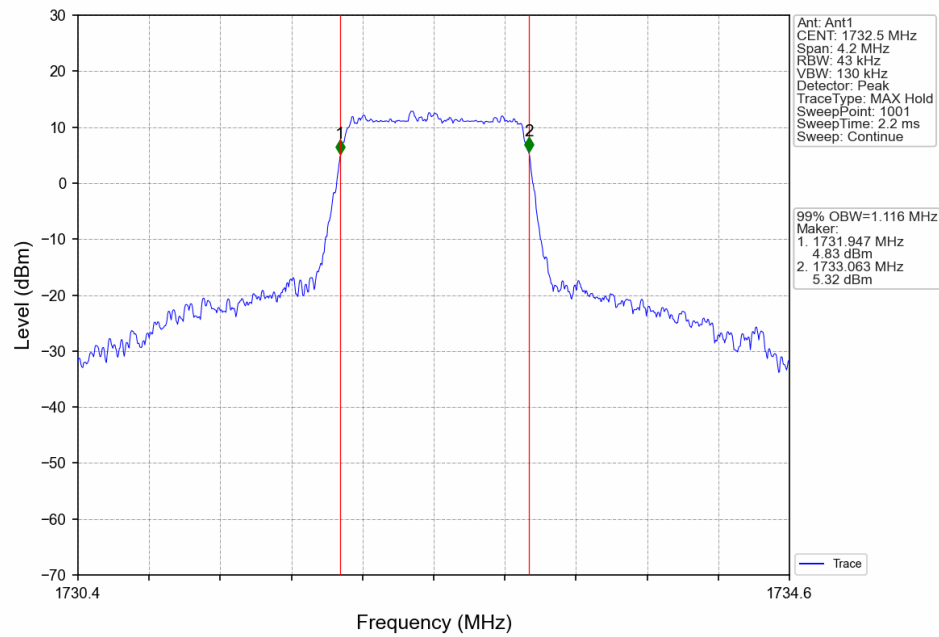
Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



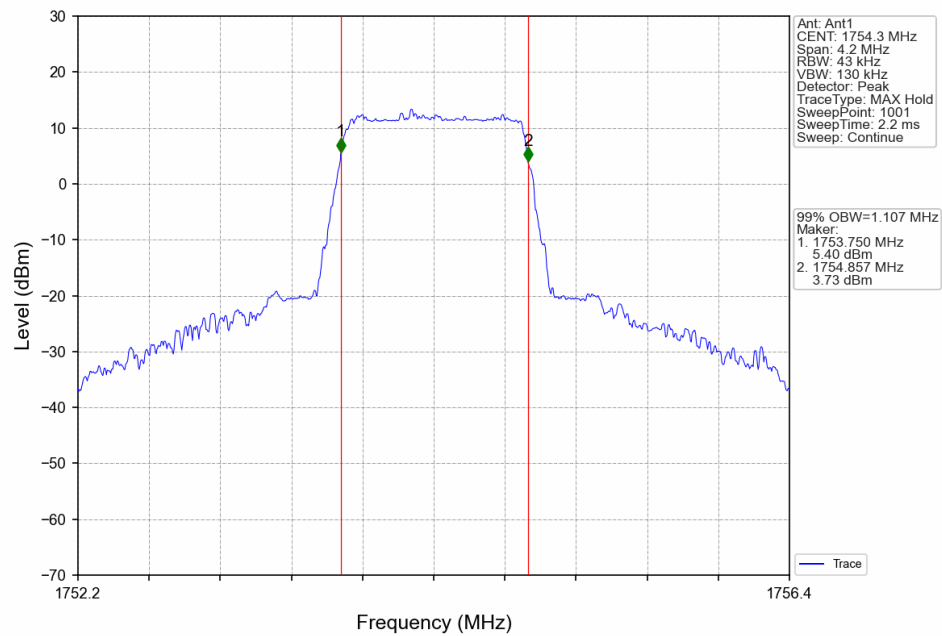
Band4\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV



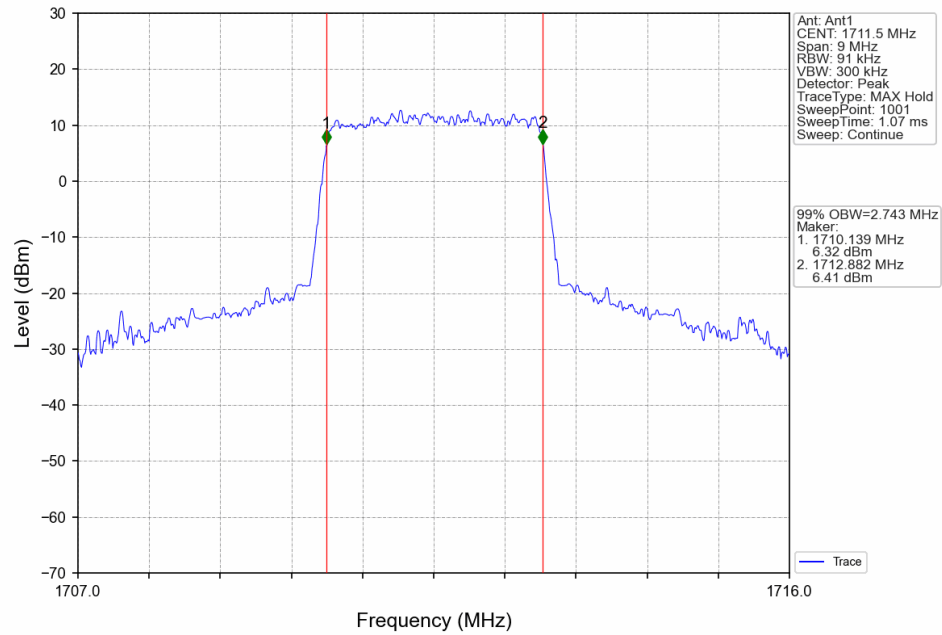
Band4\_1.4MHz\_16QAM\_MCH\_1732.5MHz\_RB\_6\_0\_NTNV



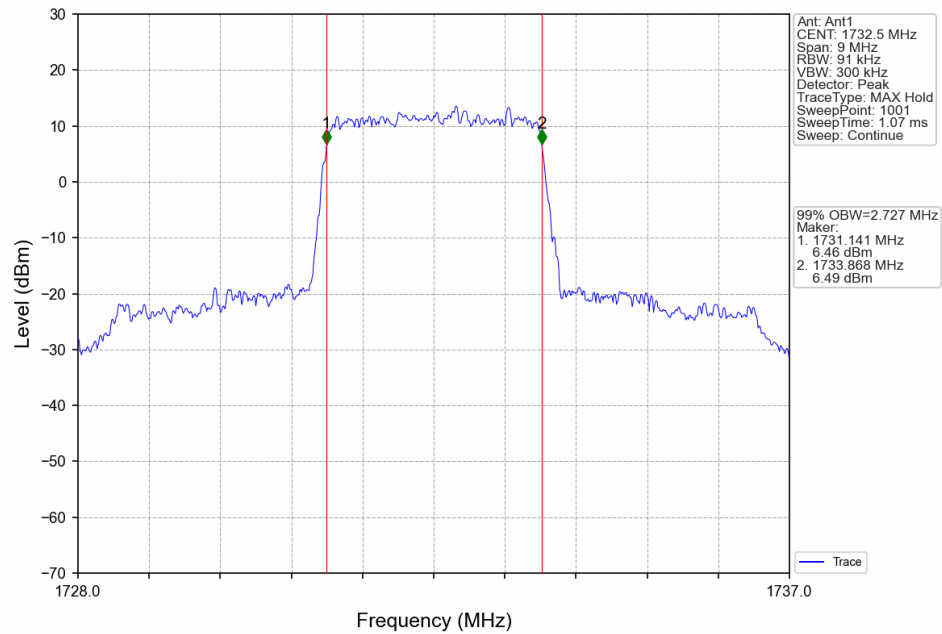
Band4\_1.4MHz\_16QAM\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



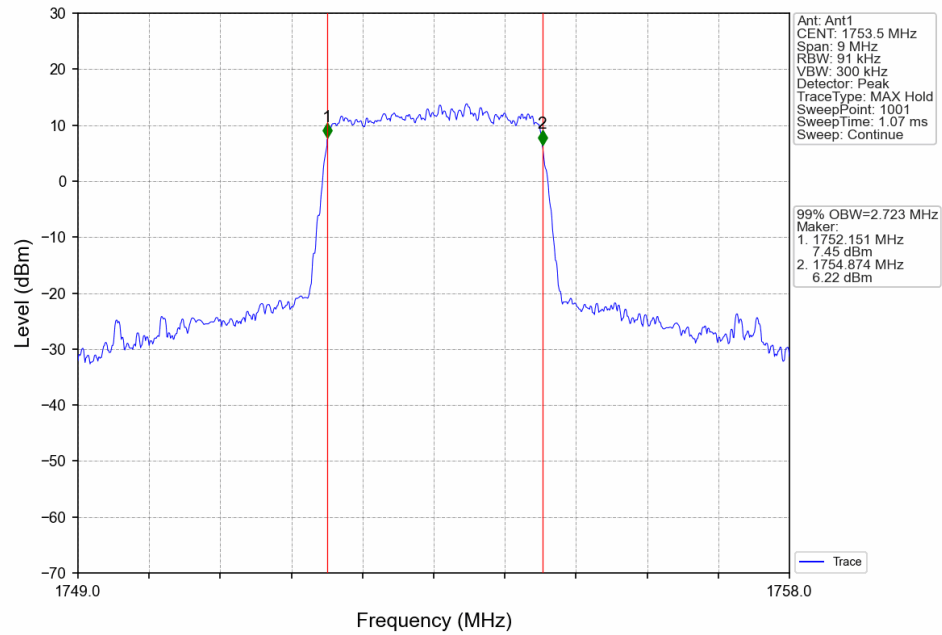
Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



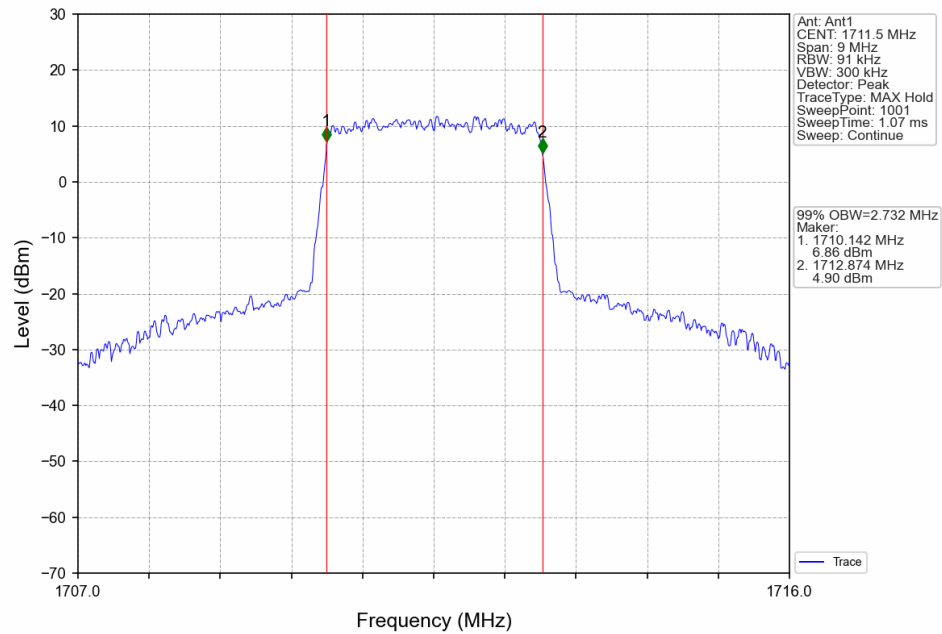
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



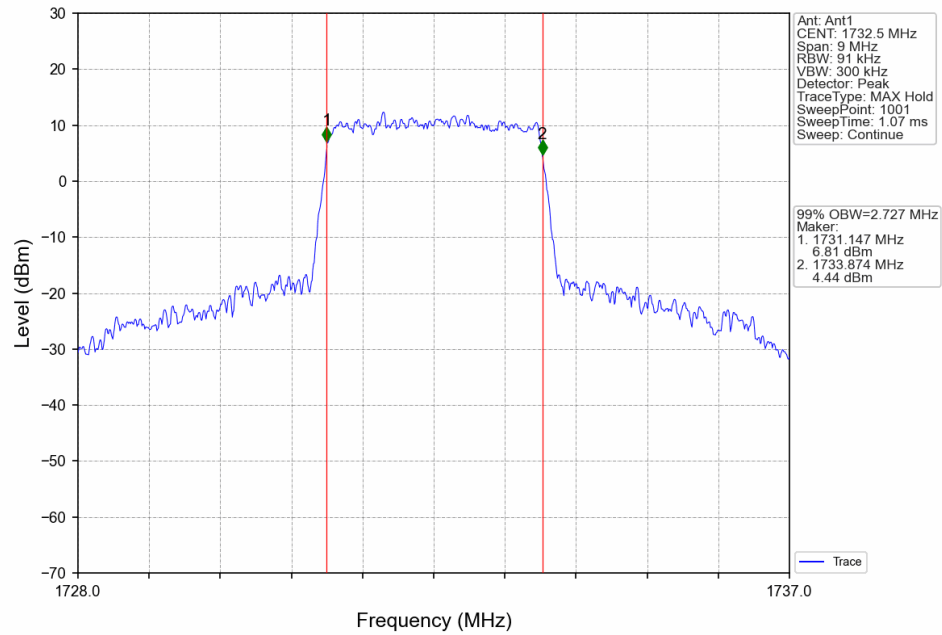
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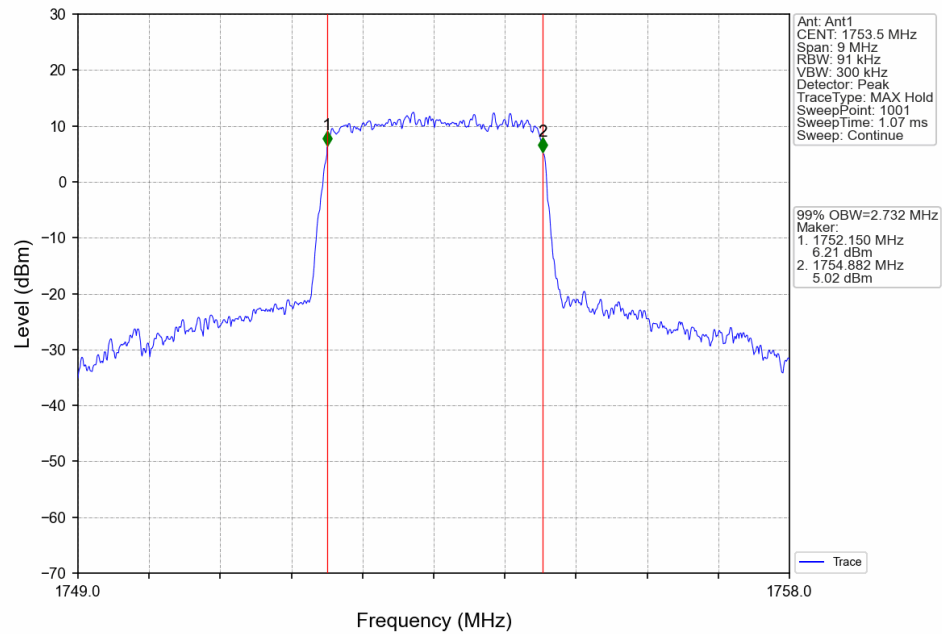
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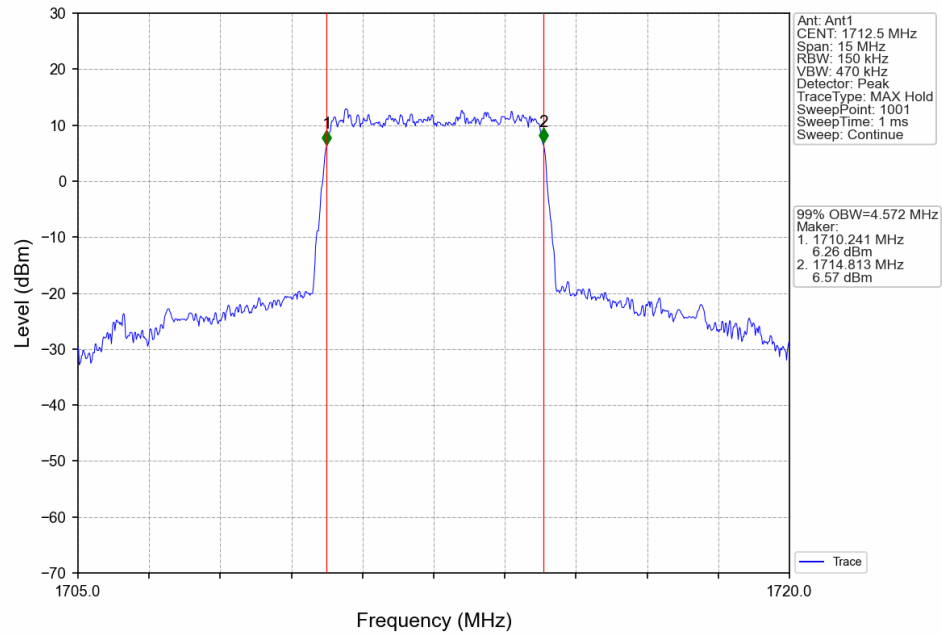
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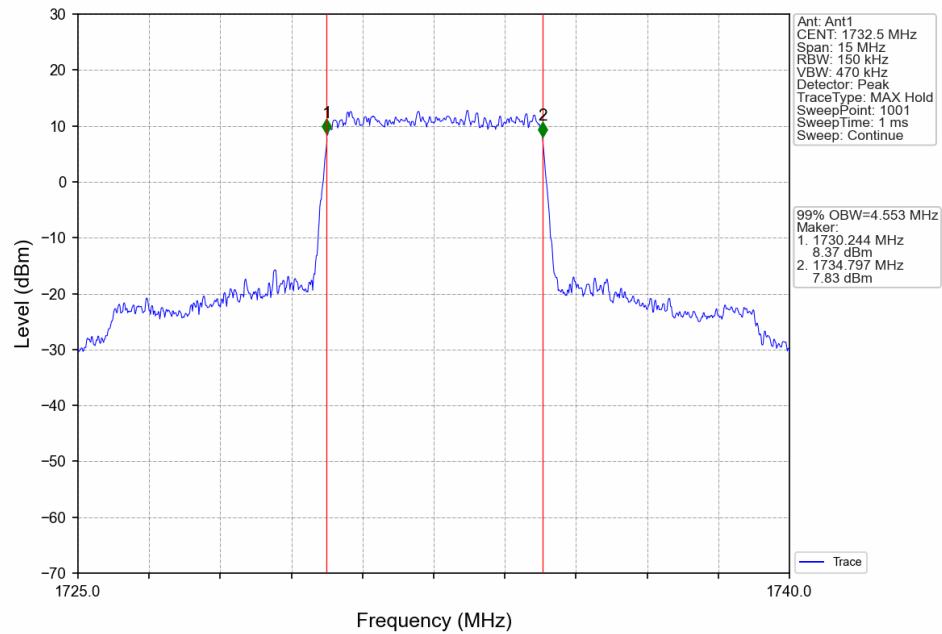
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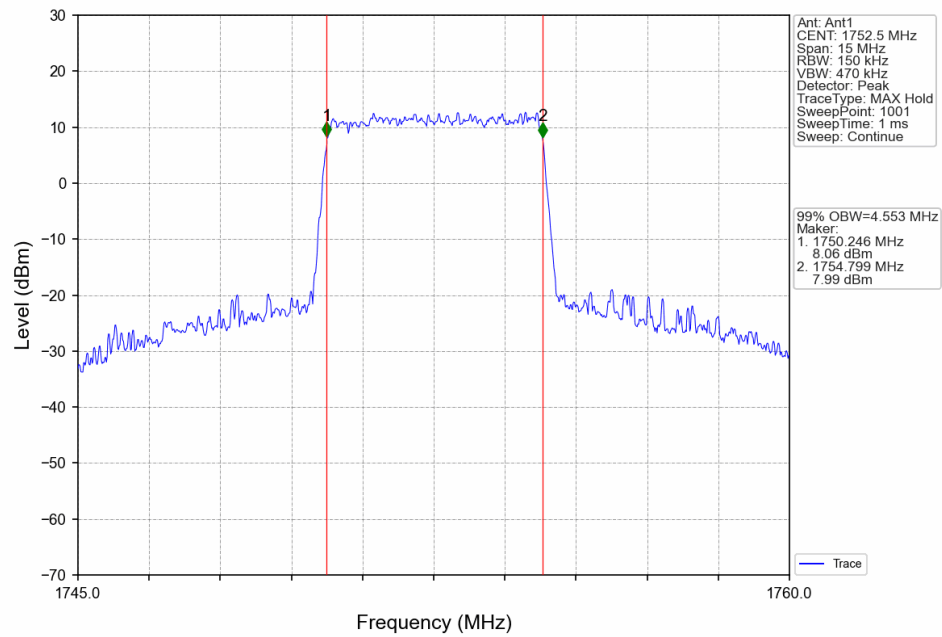
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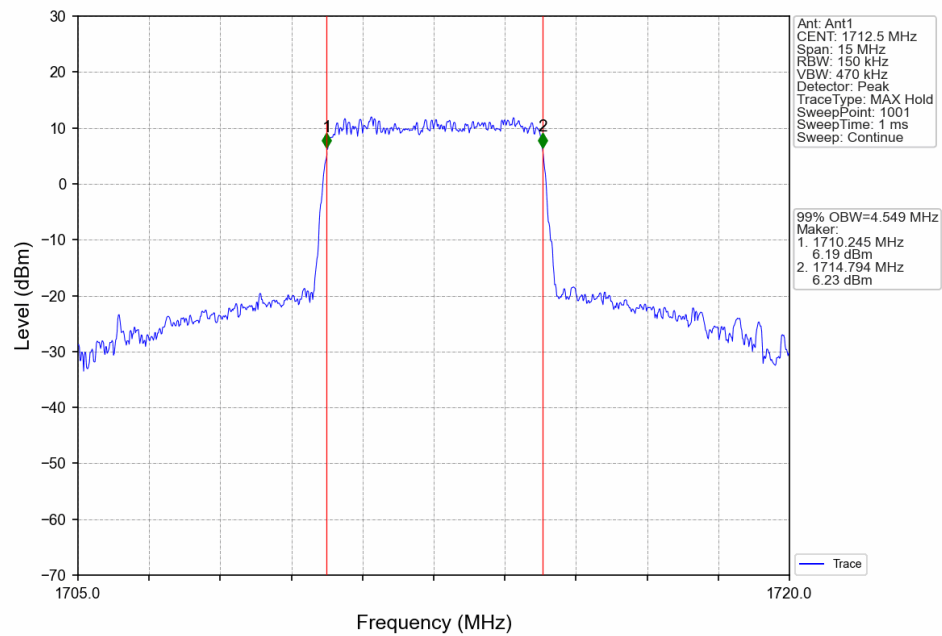
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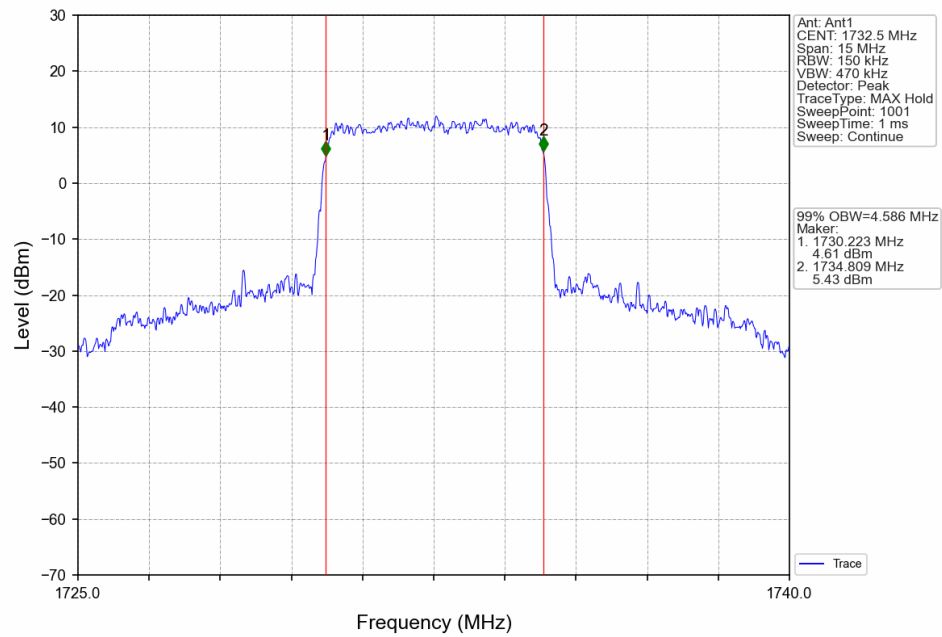
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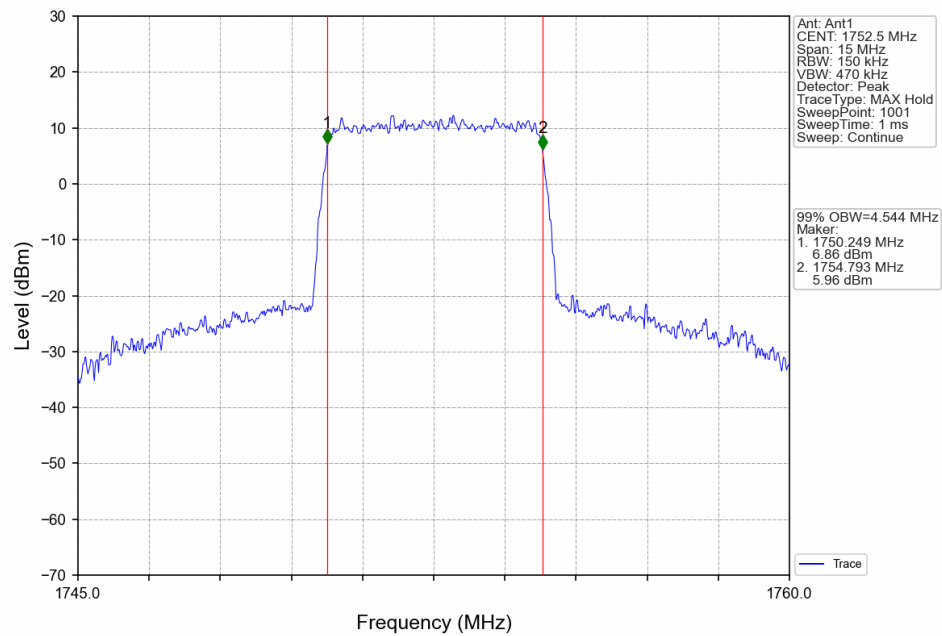
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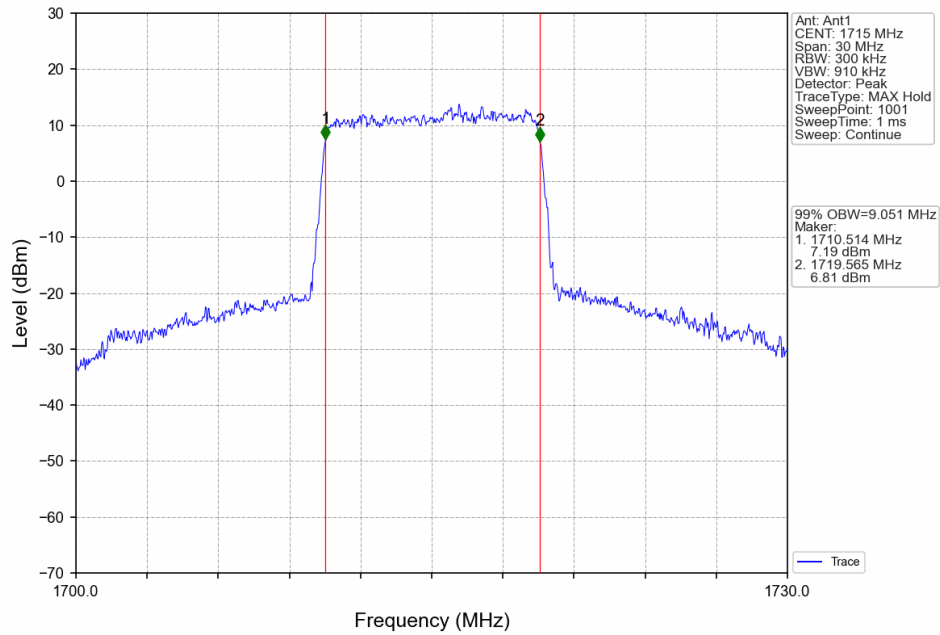
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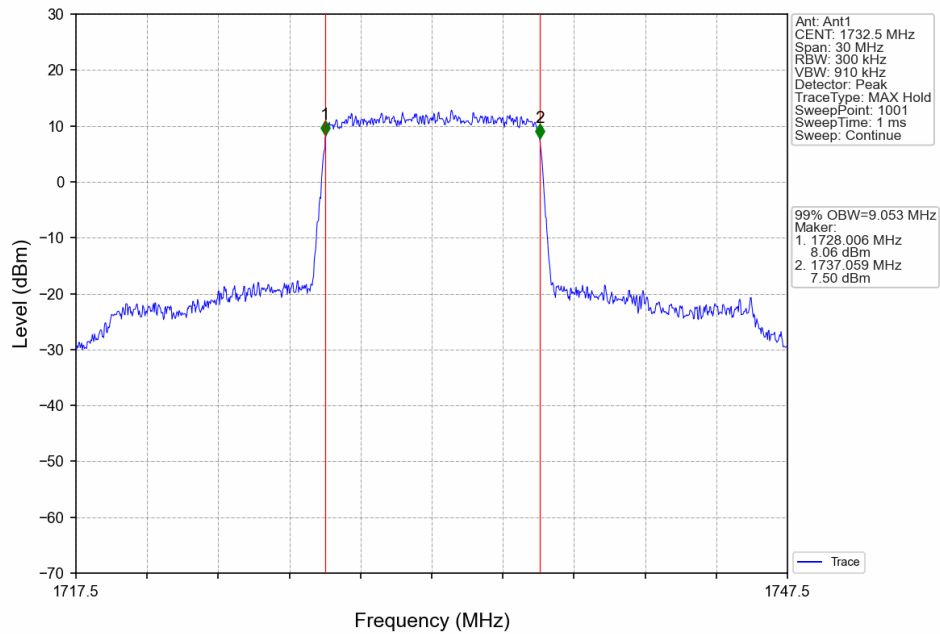
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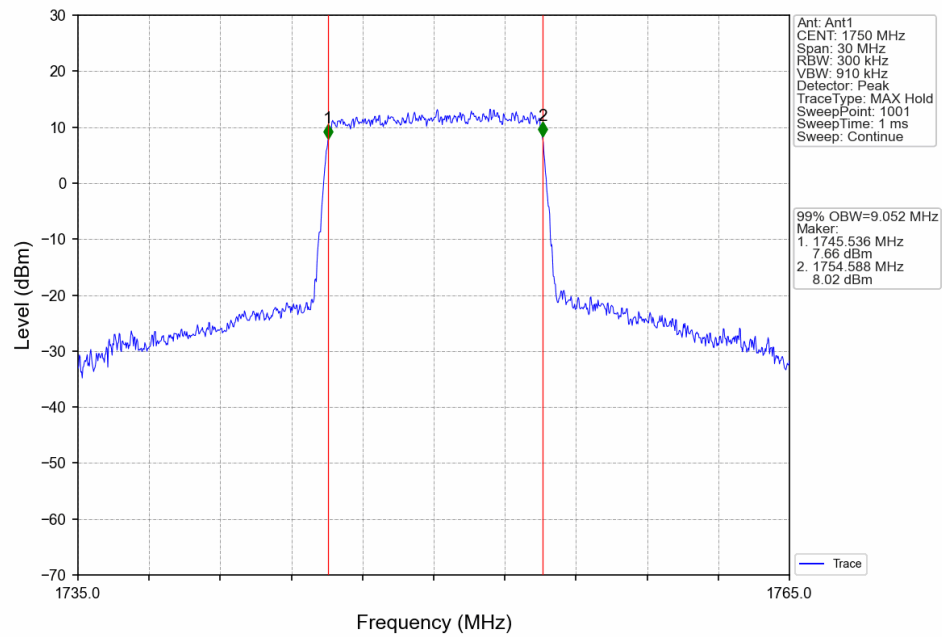
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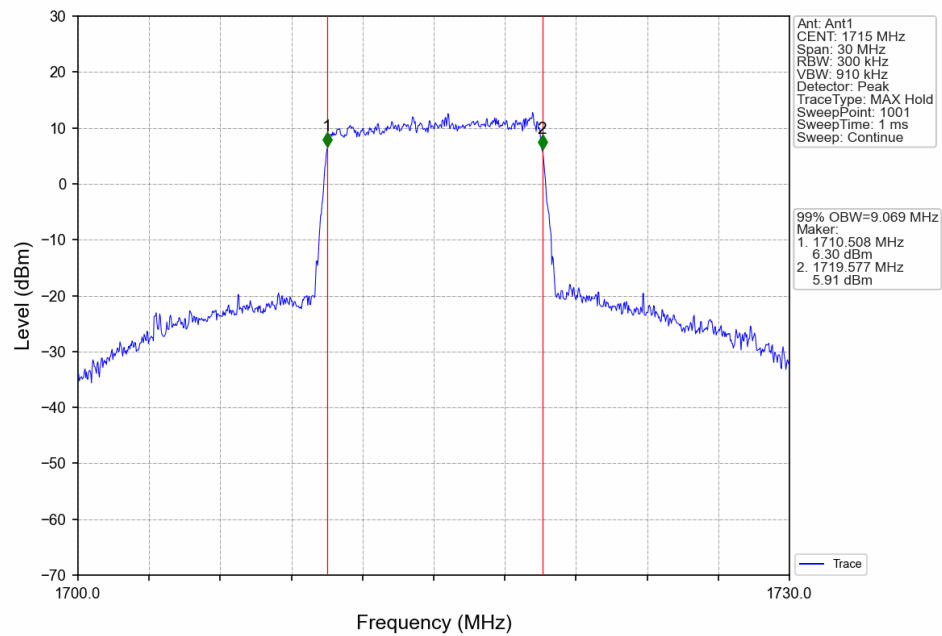
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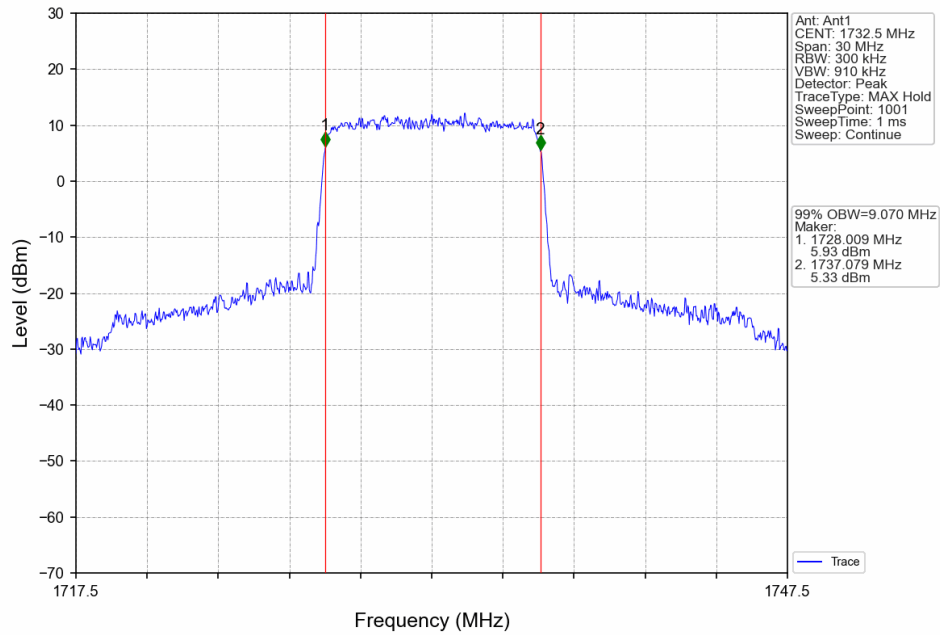
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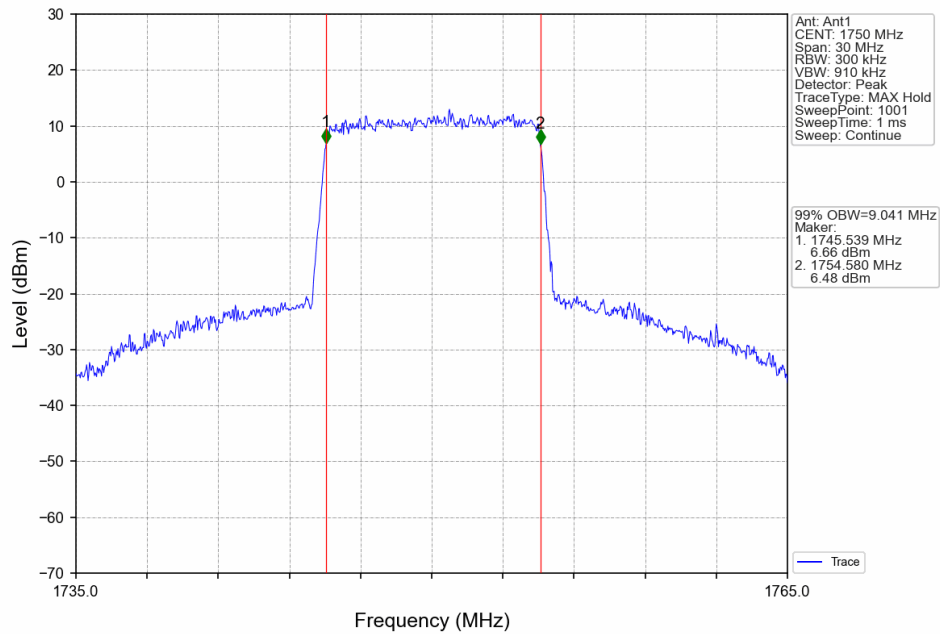
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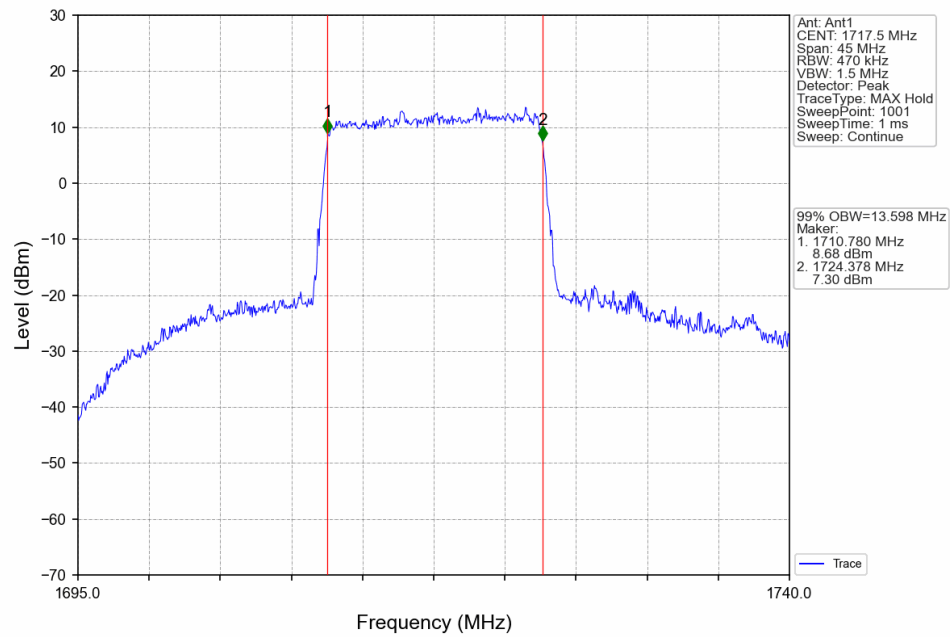
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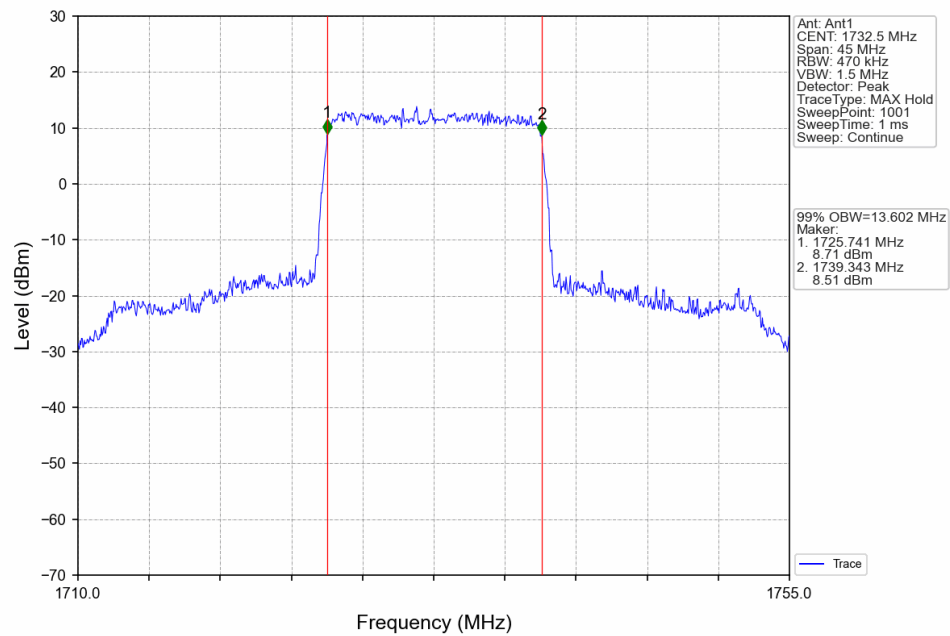
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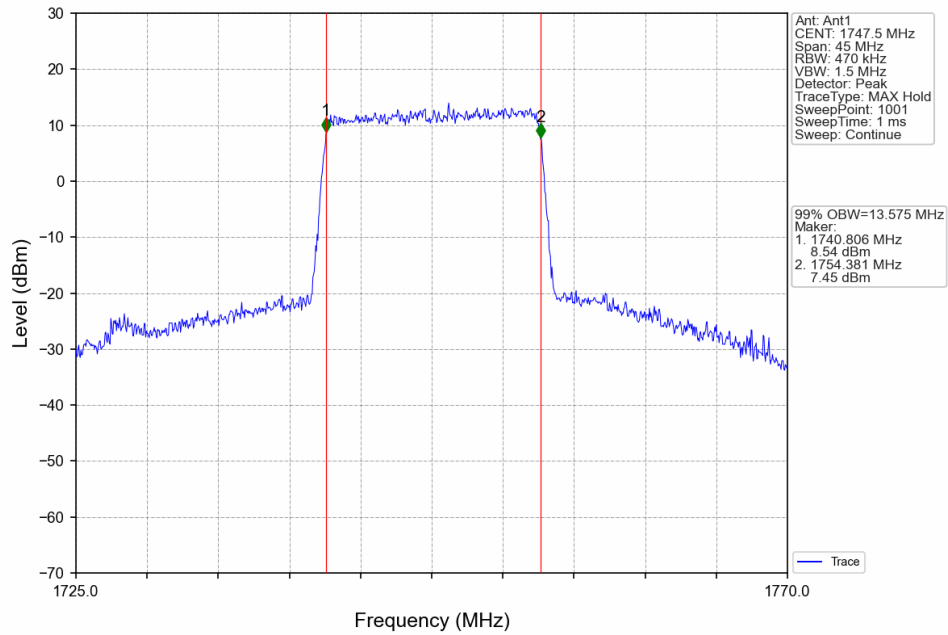
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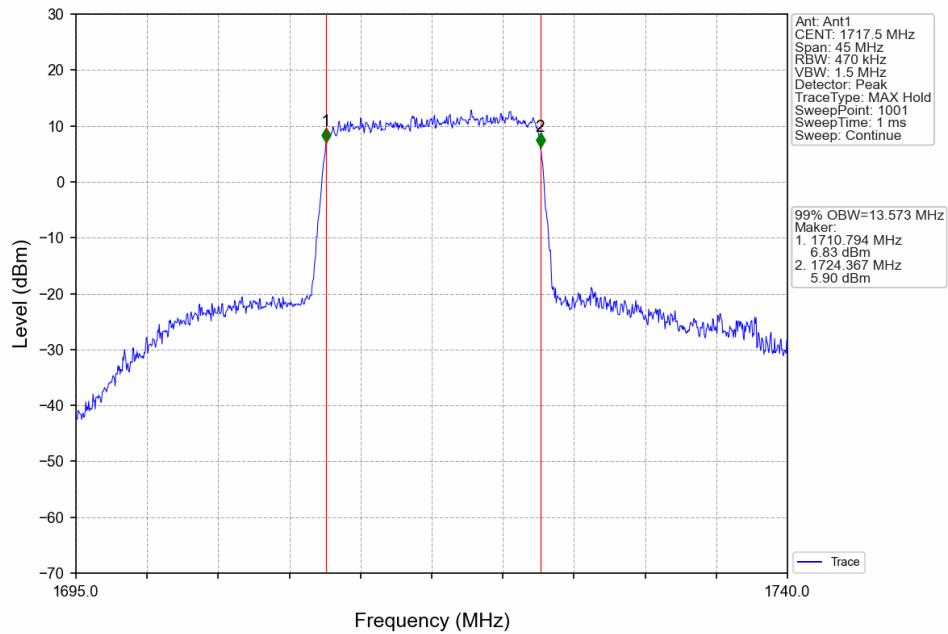
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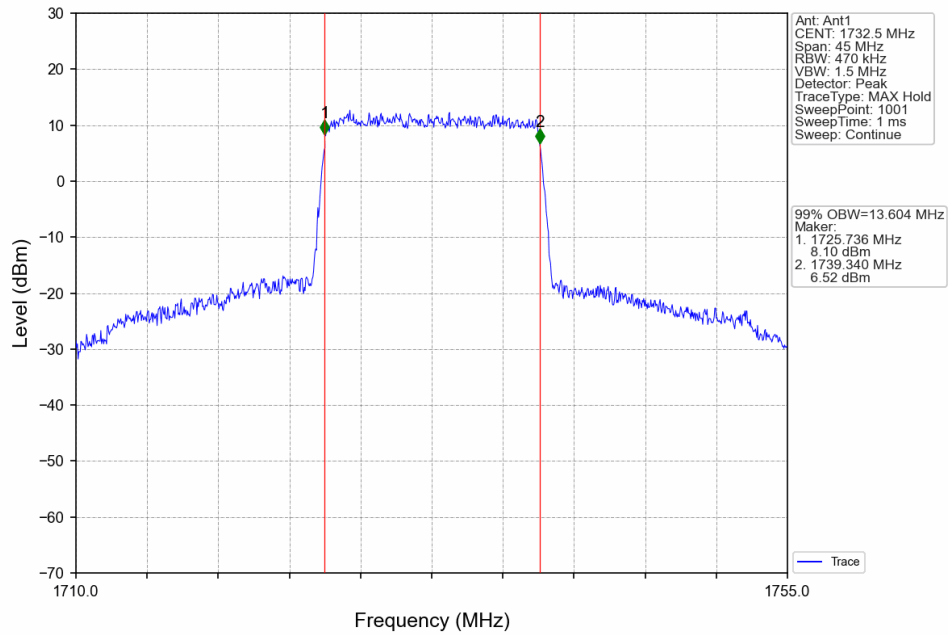
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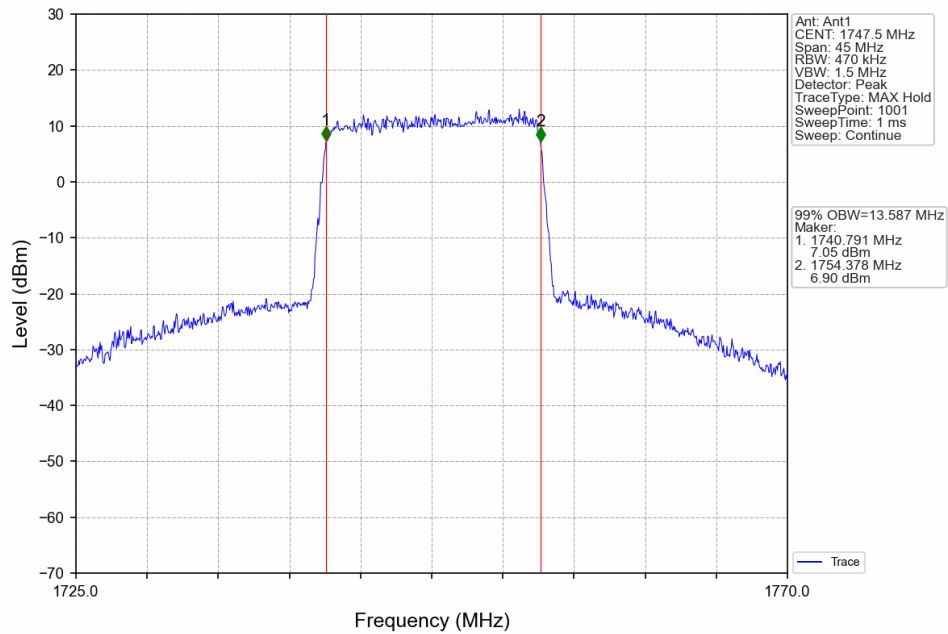
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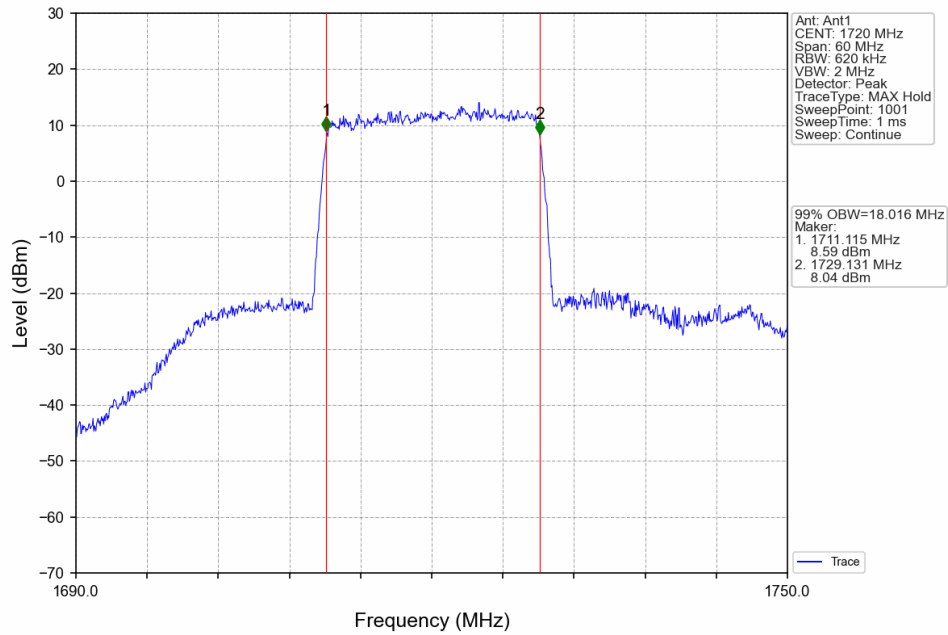
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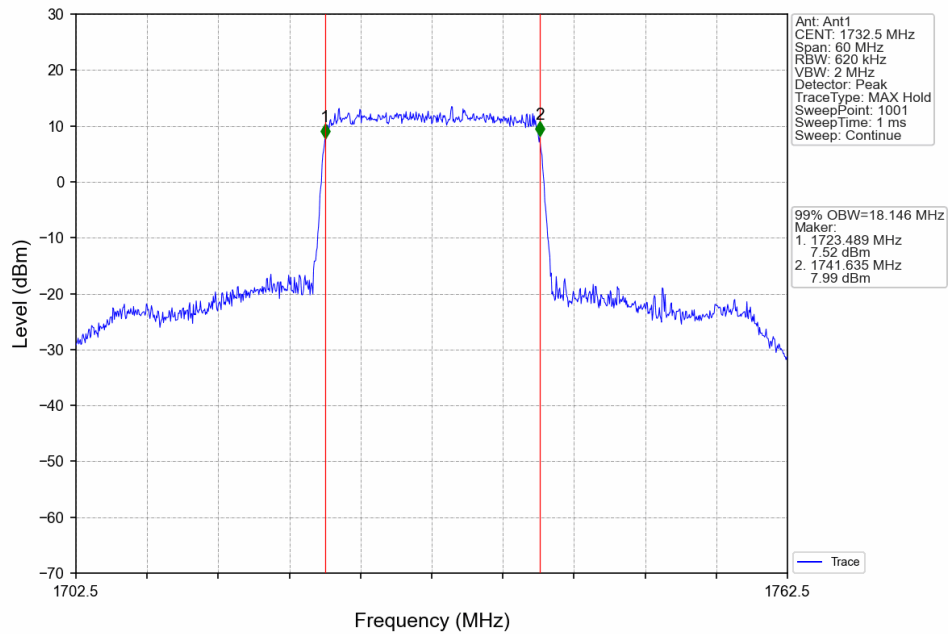
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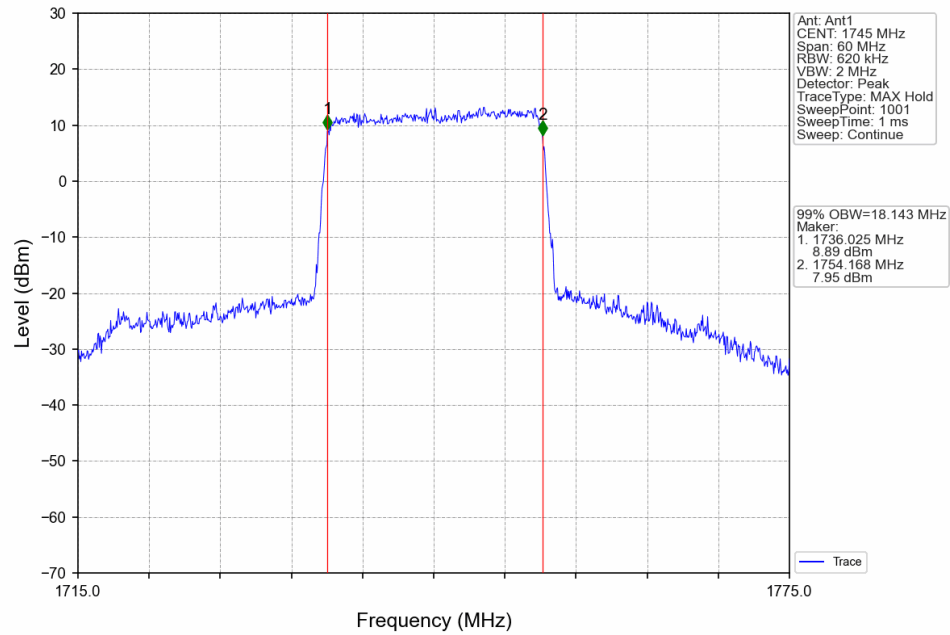
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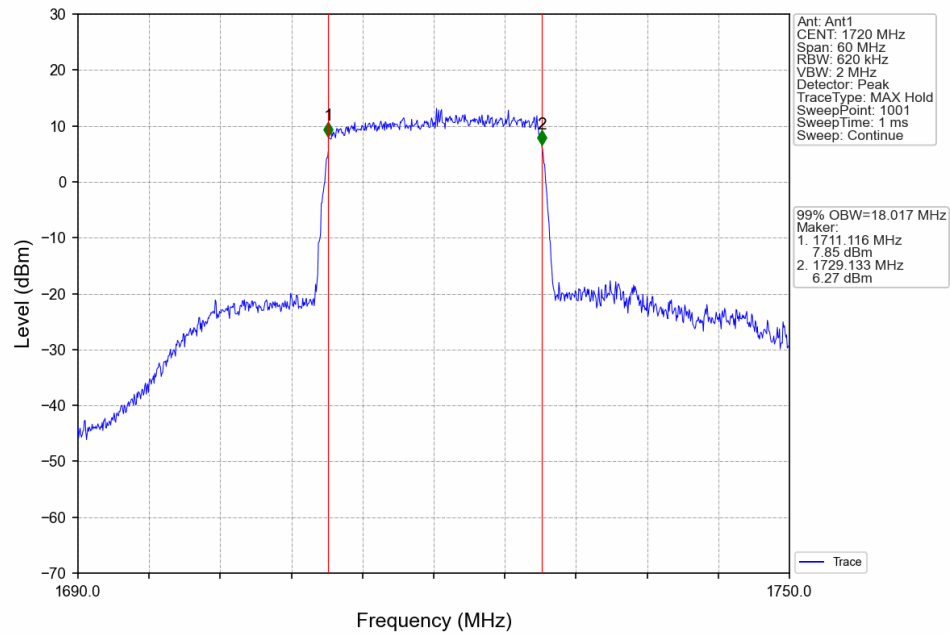
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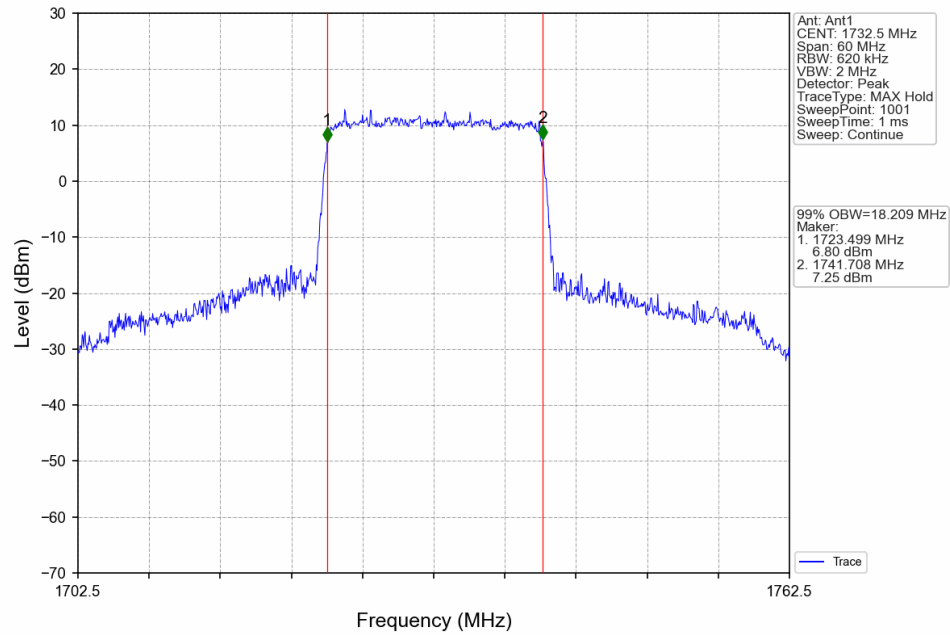
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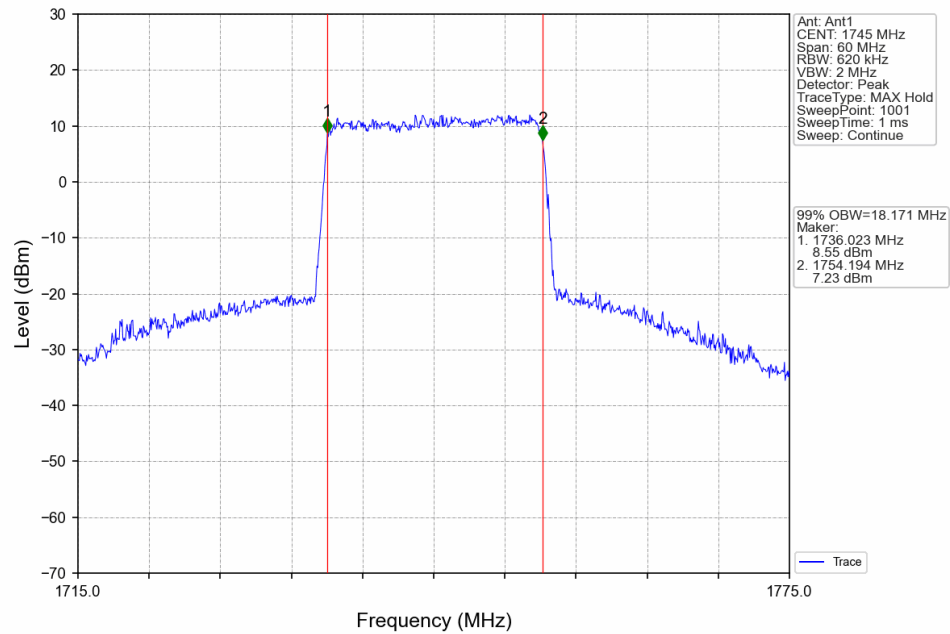
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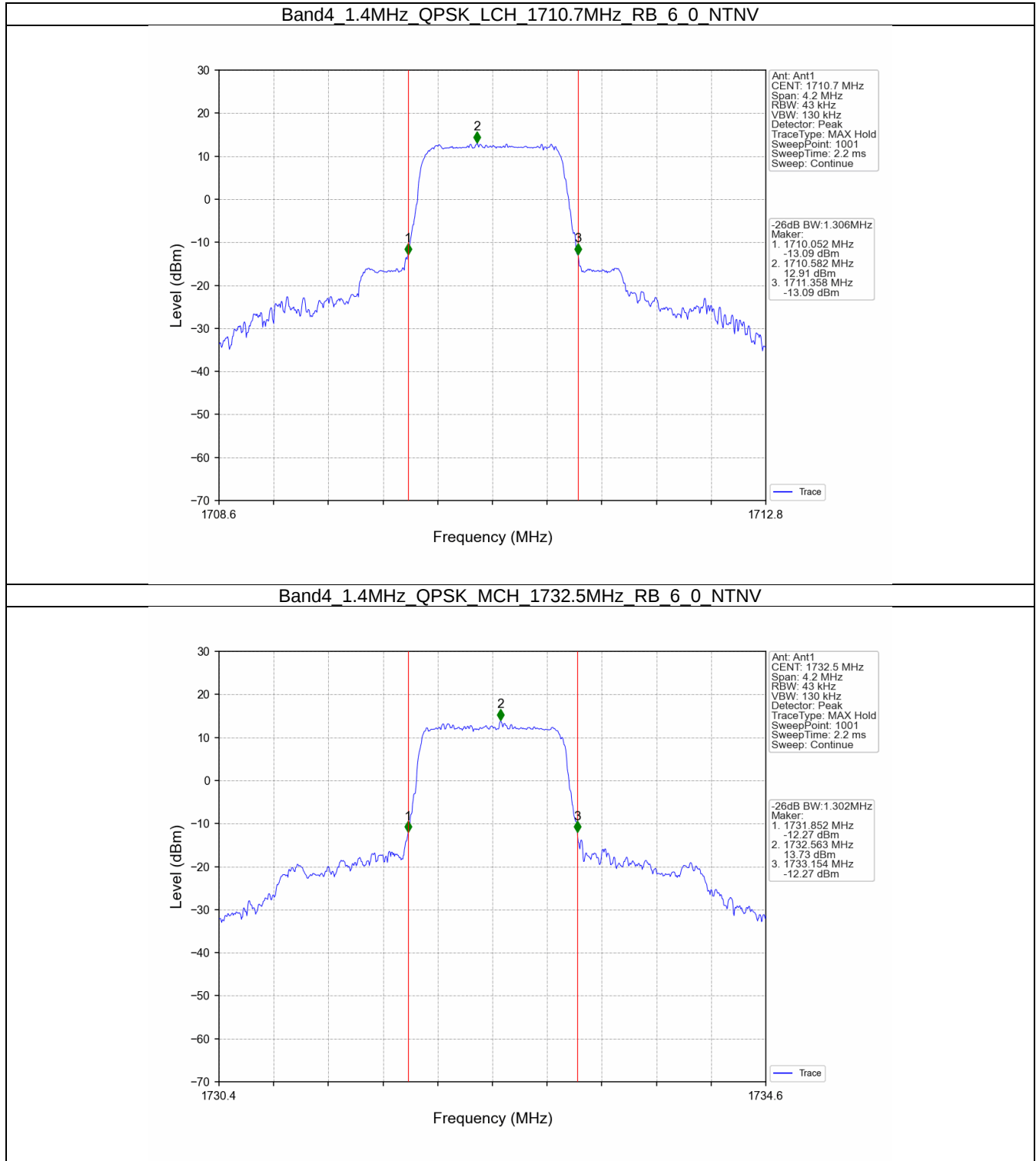
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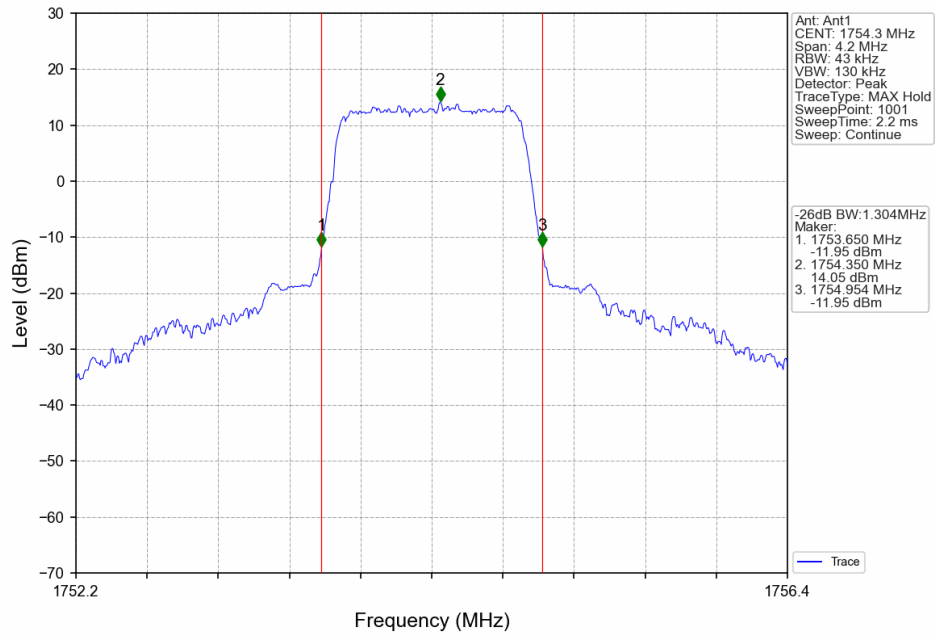
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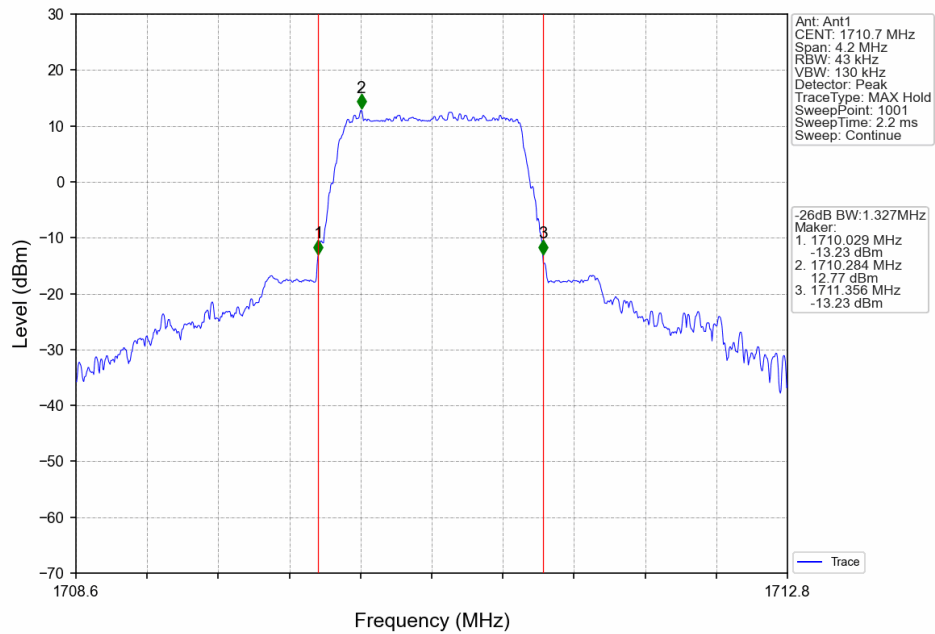
## 4.2.2 Band4\_XDB



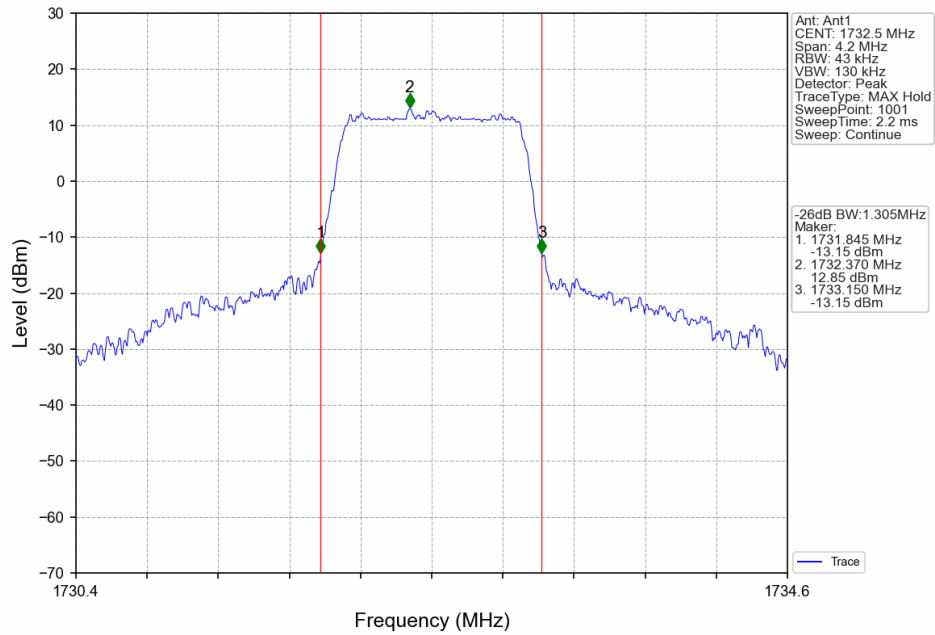
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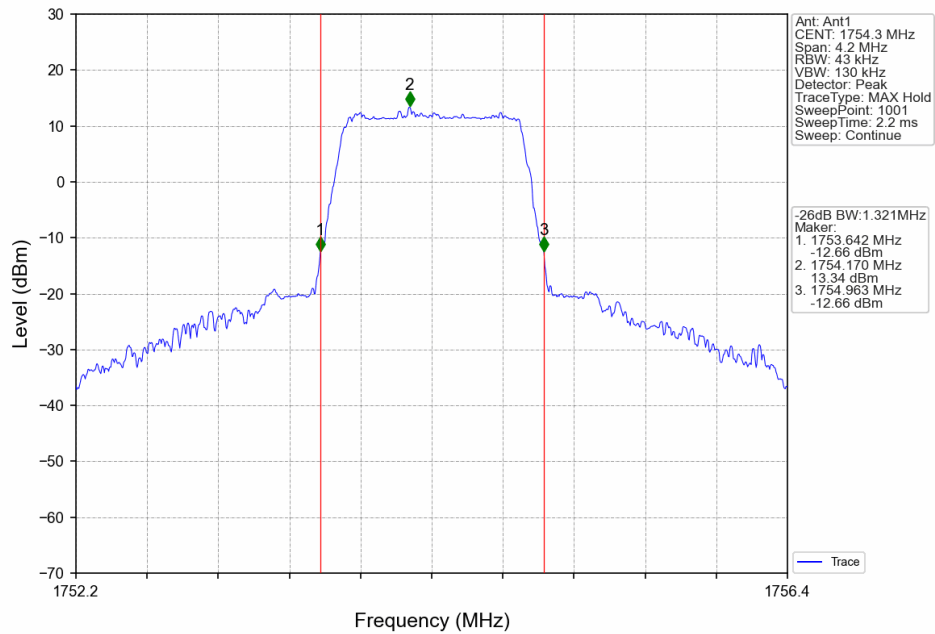
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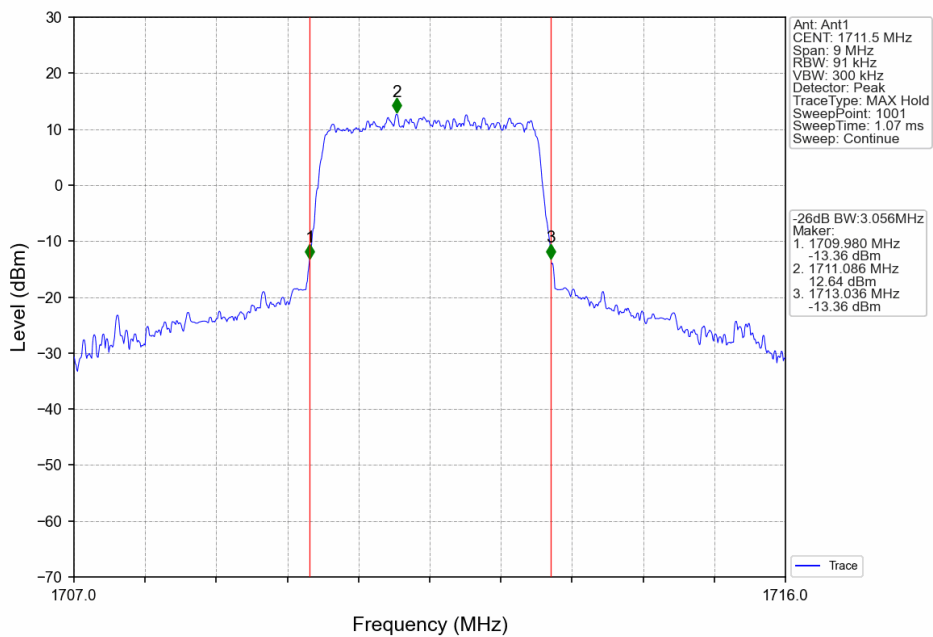
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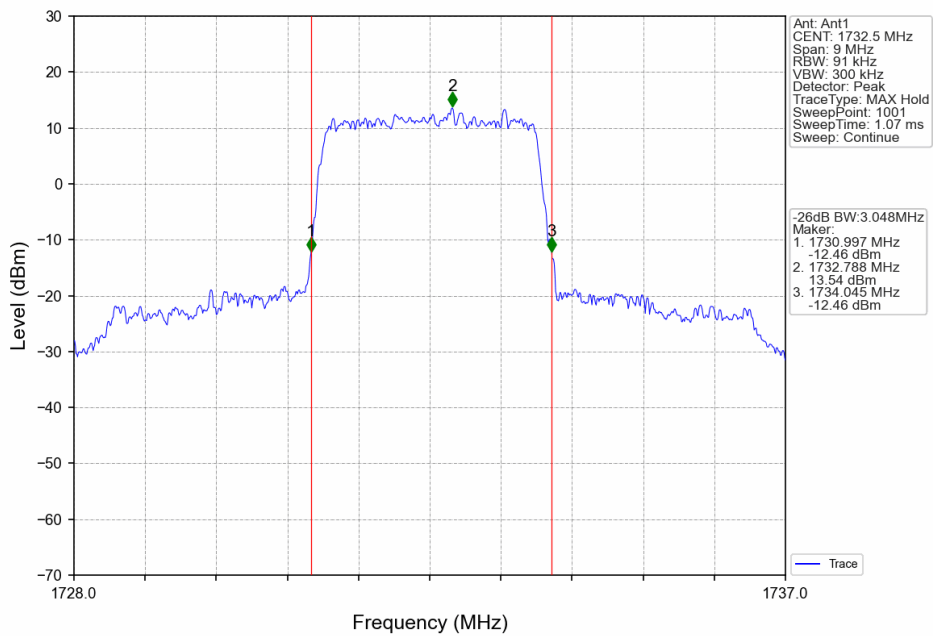
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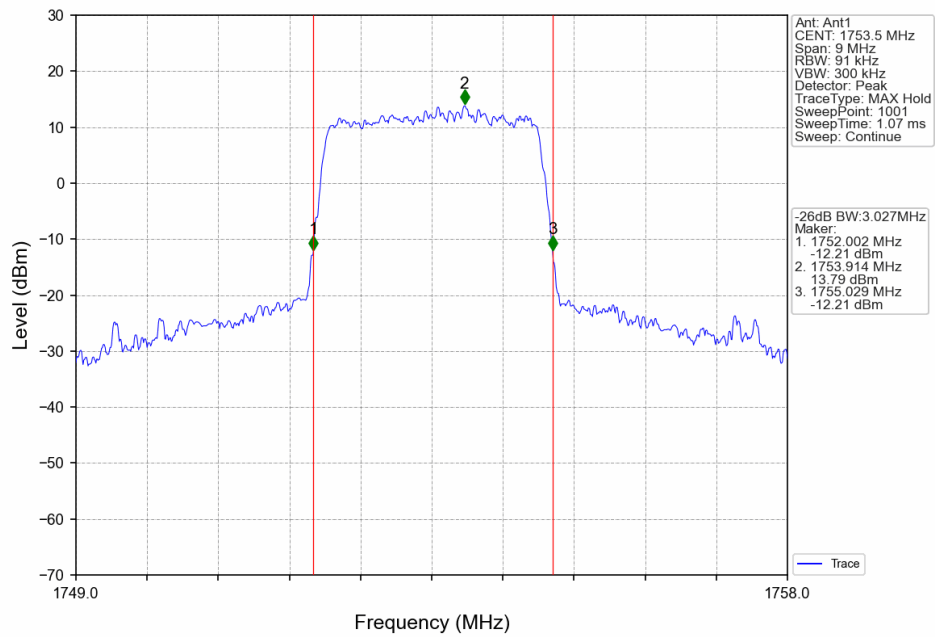
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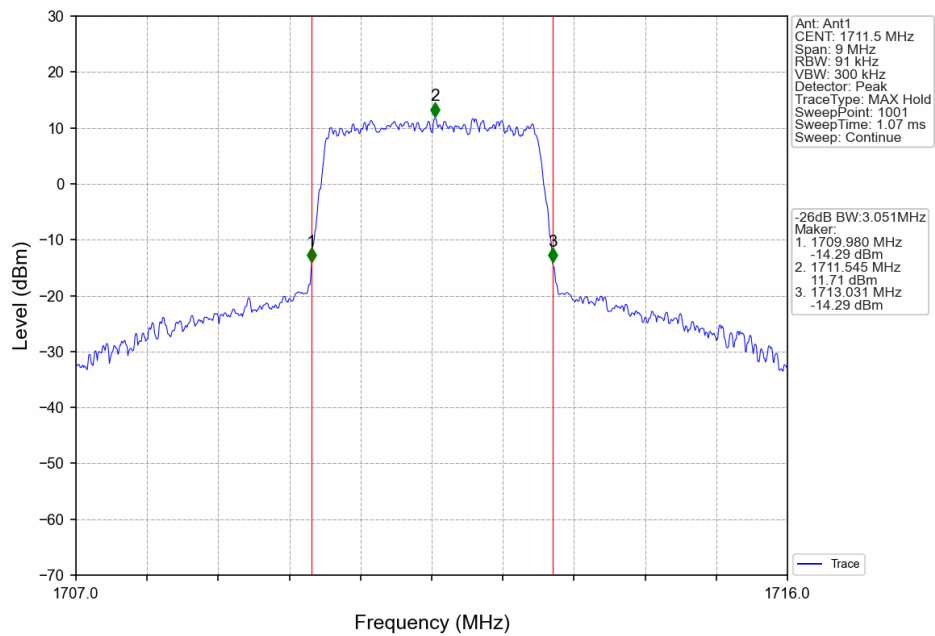
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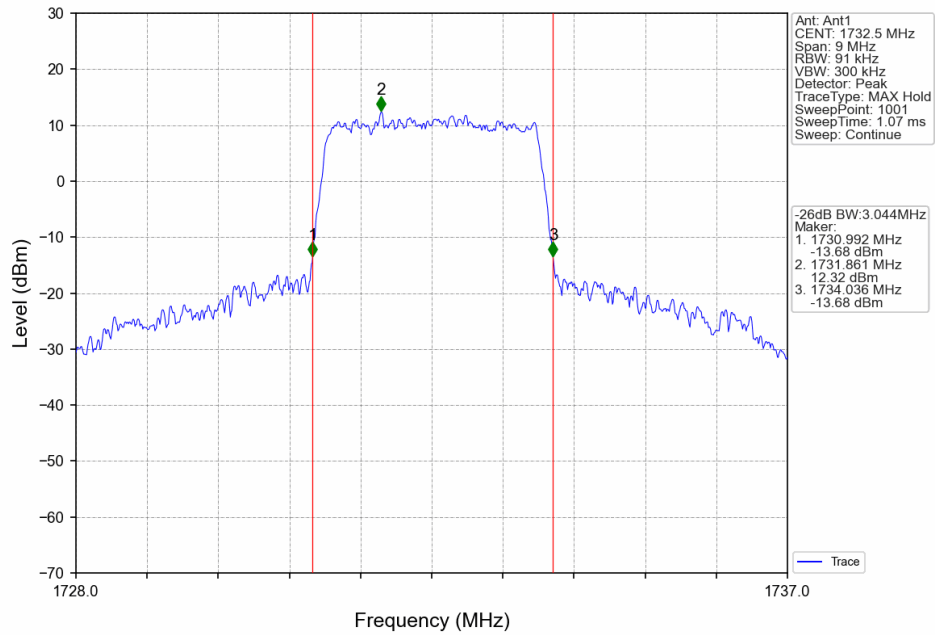
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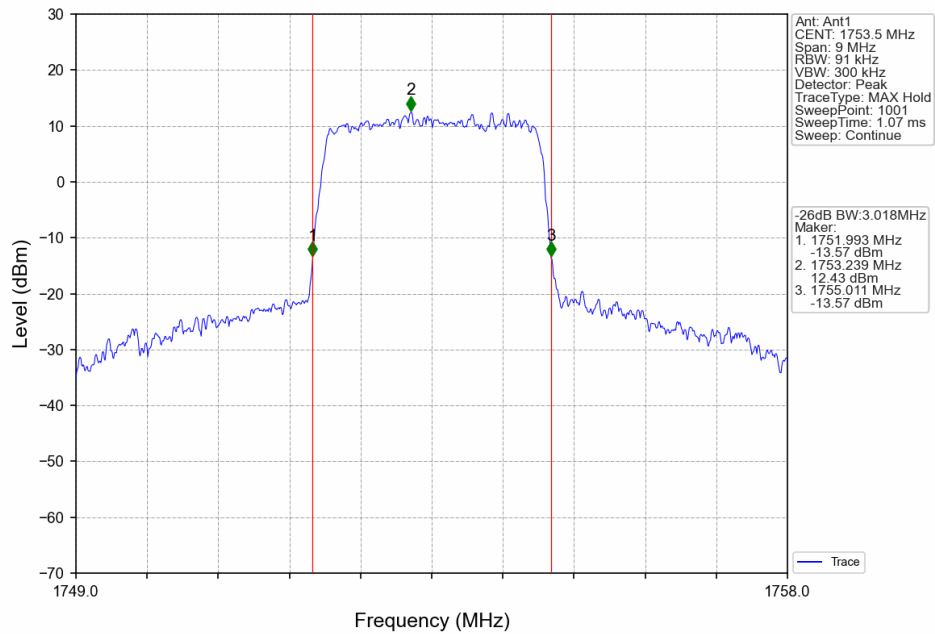
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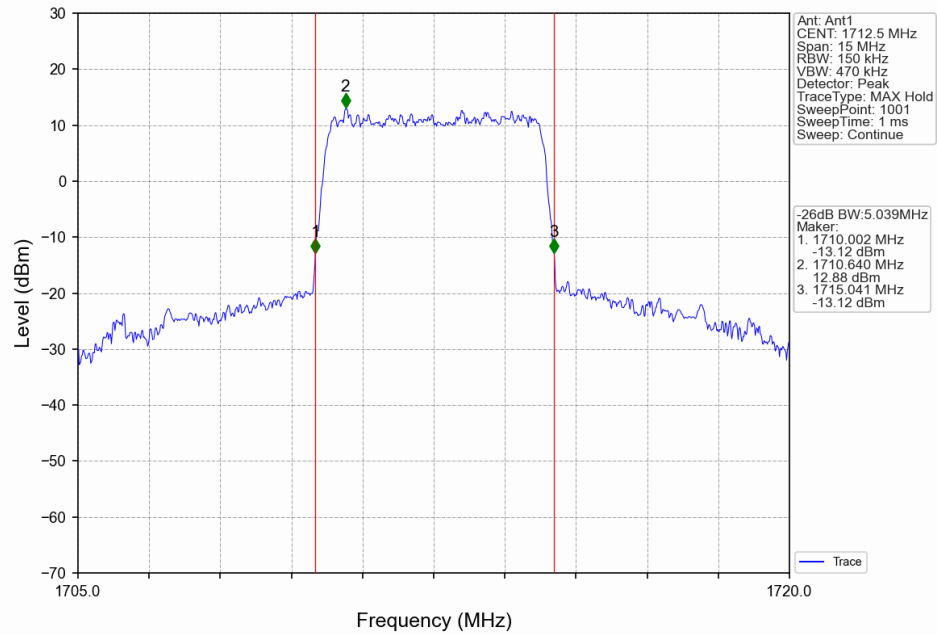
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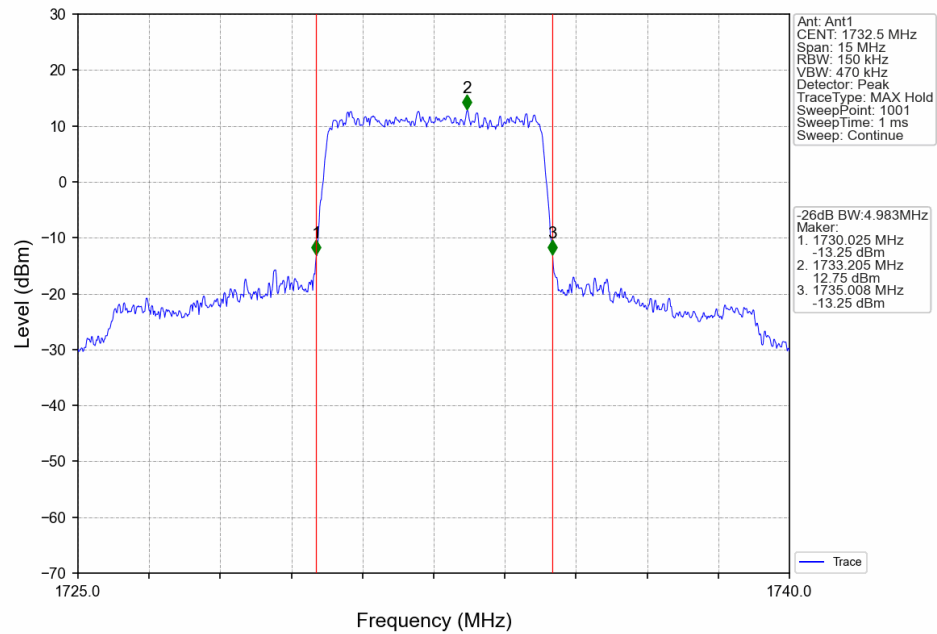
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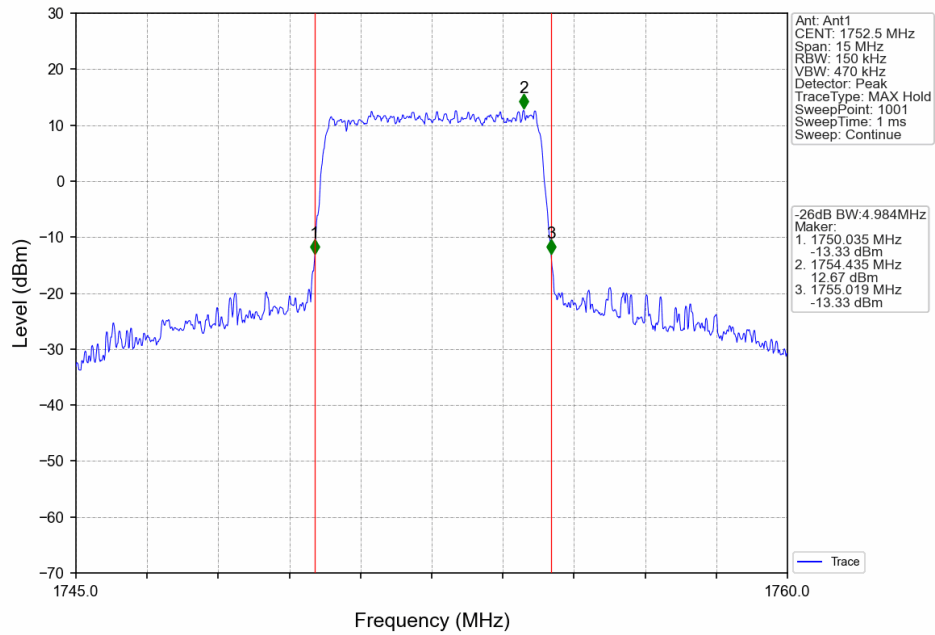
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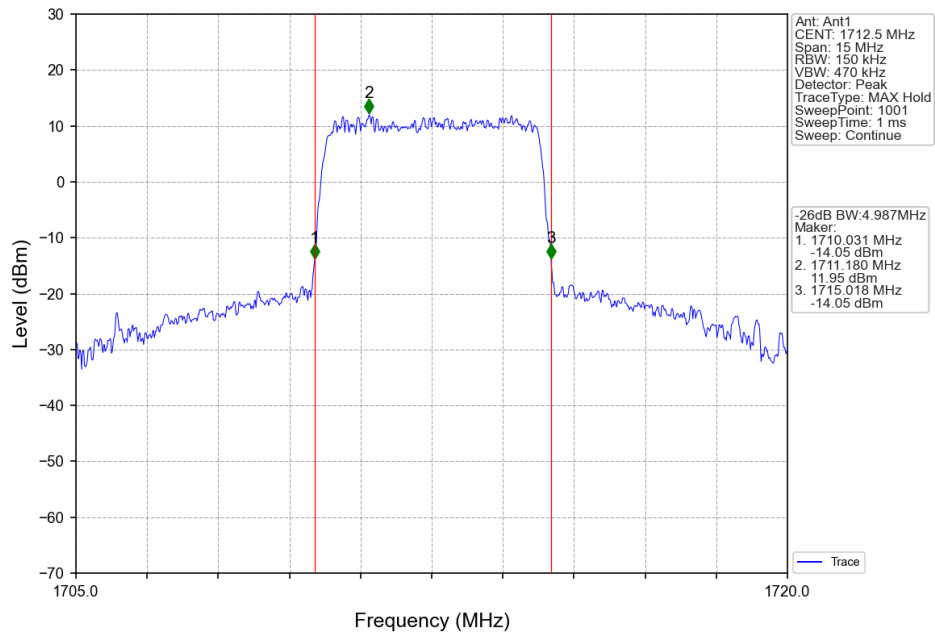
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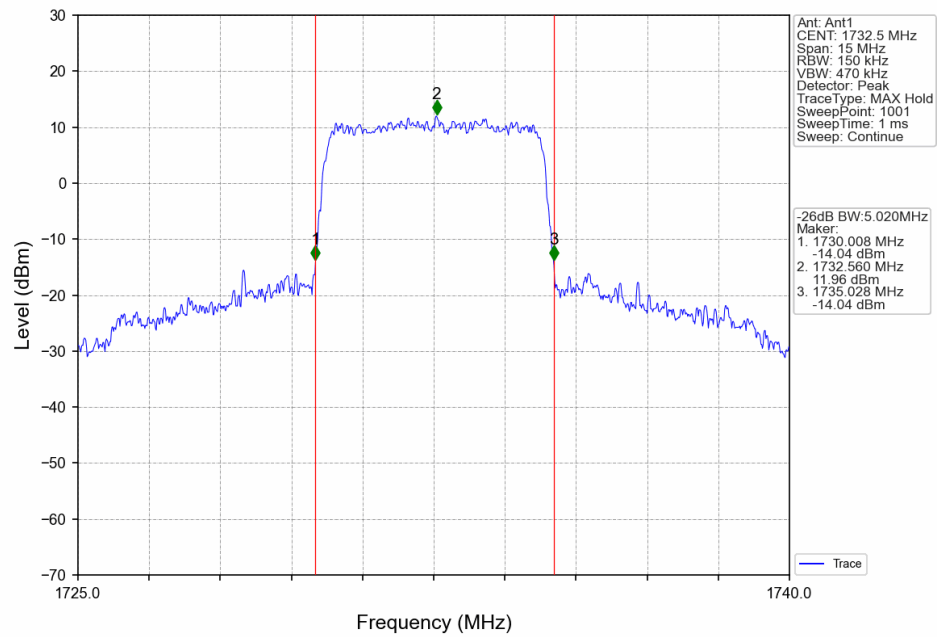
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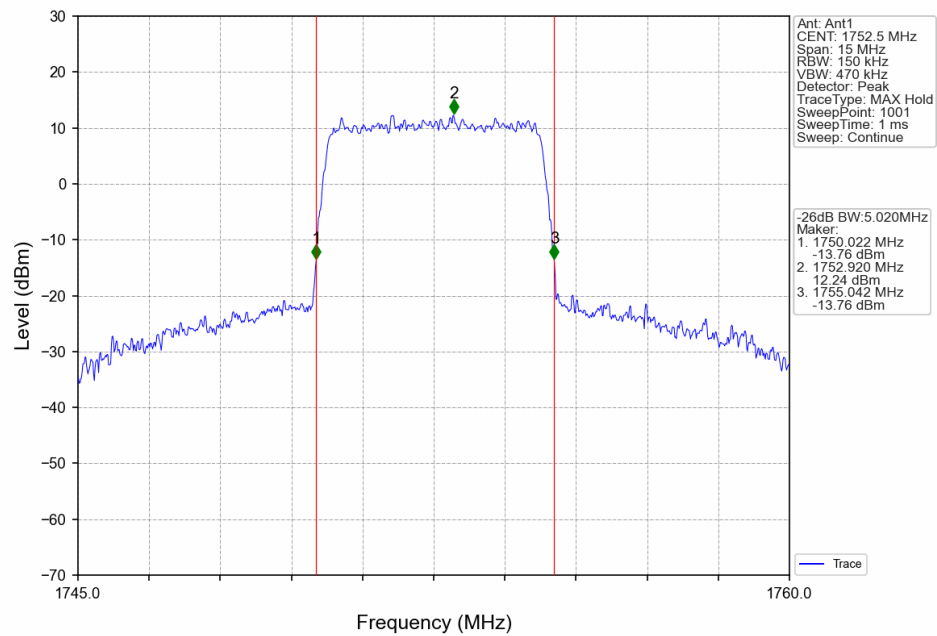
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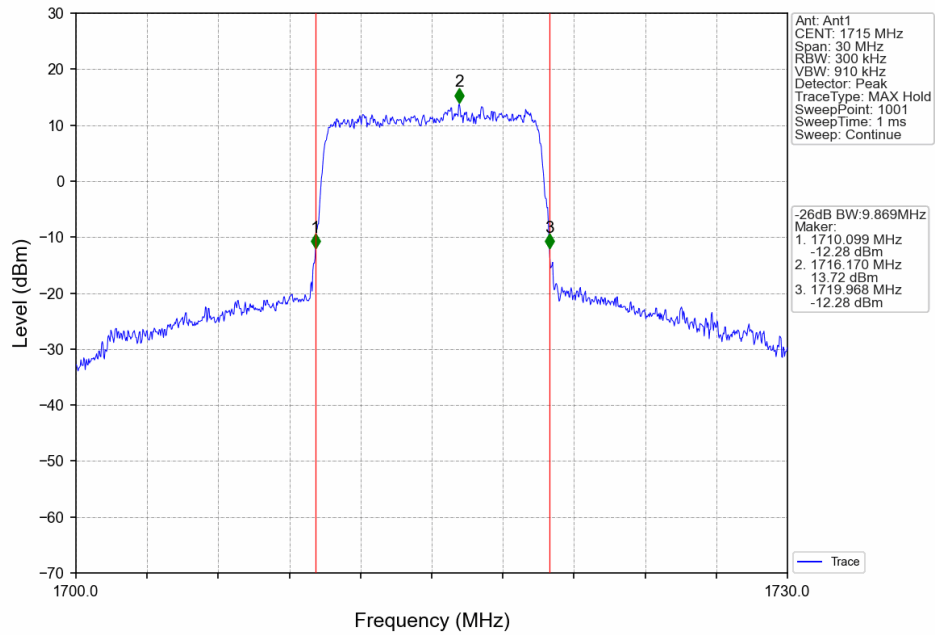
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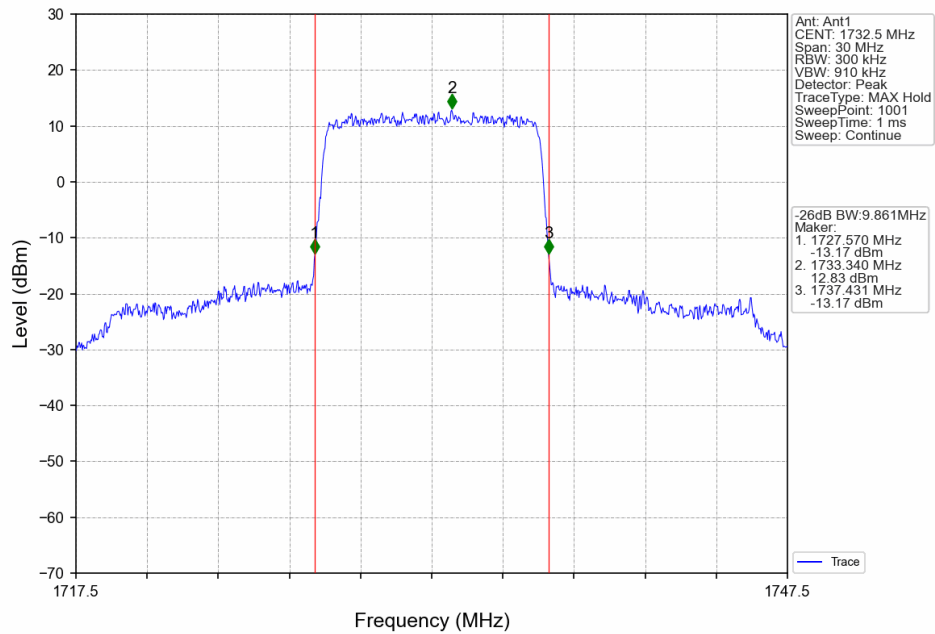
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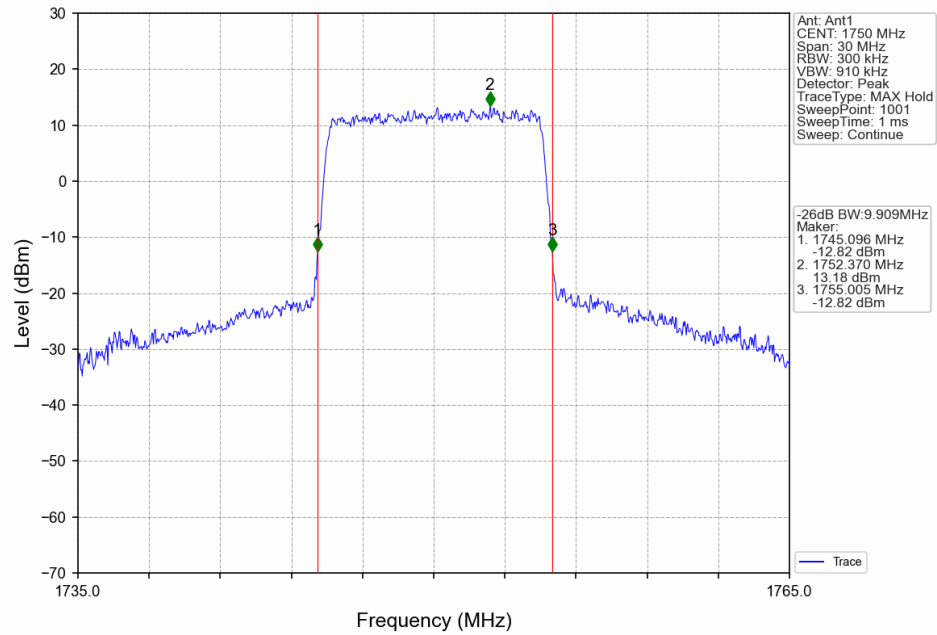
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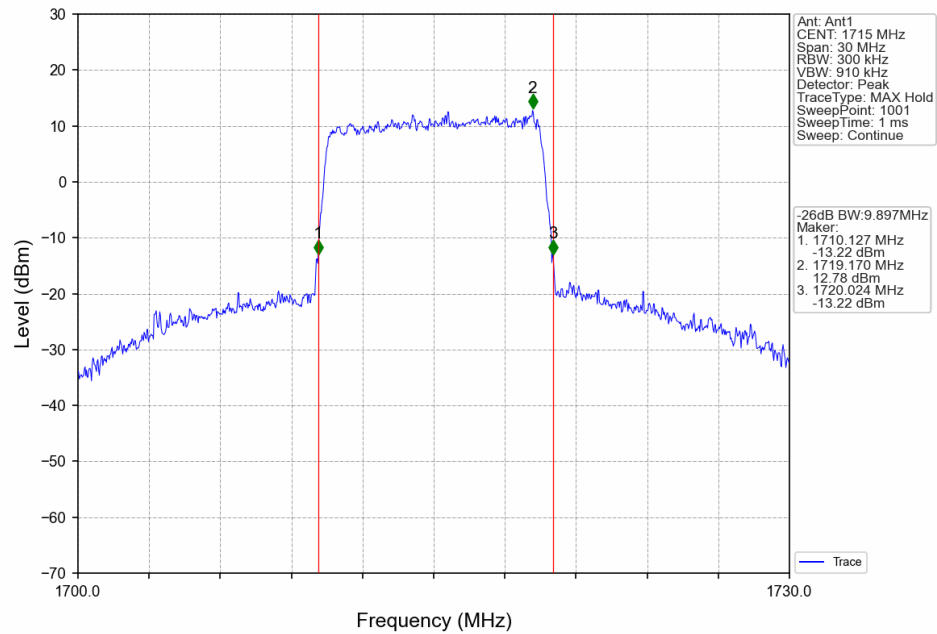
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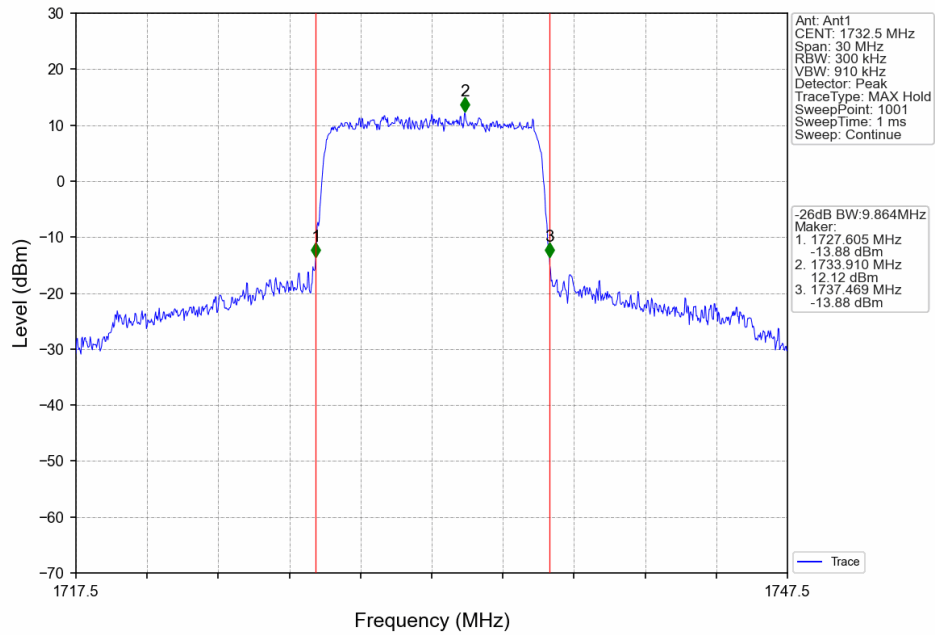
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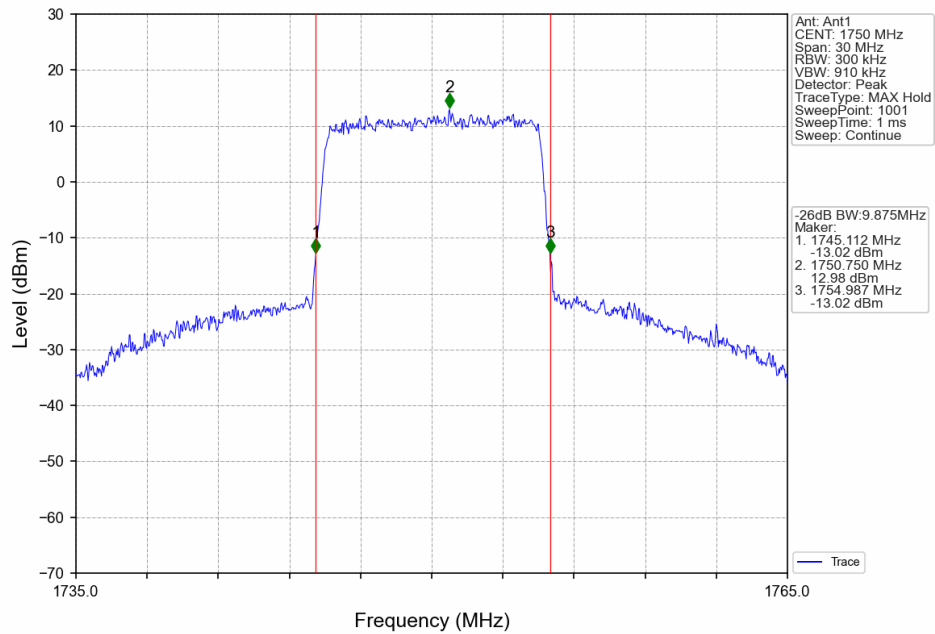
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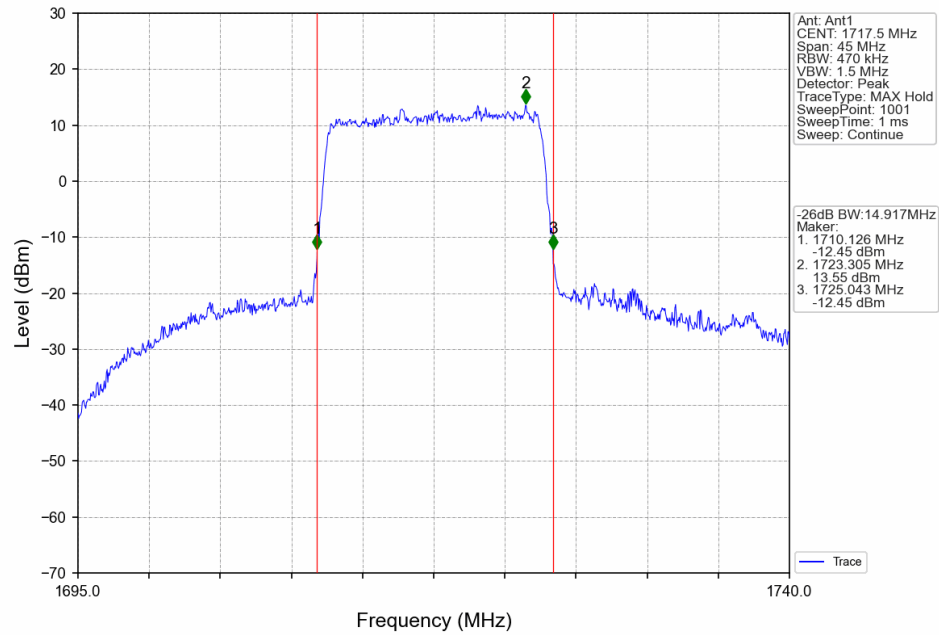
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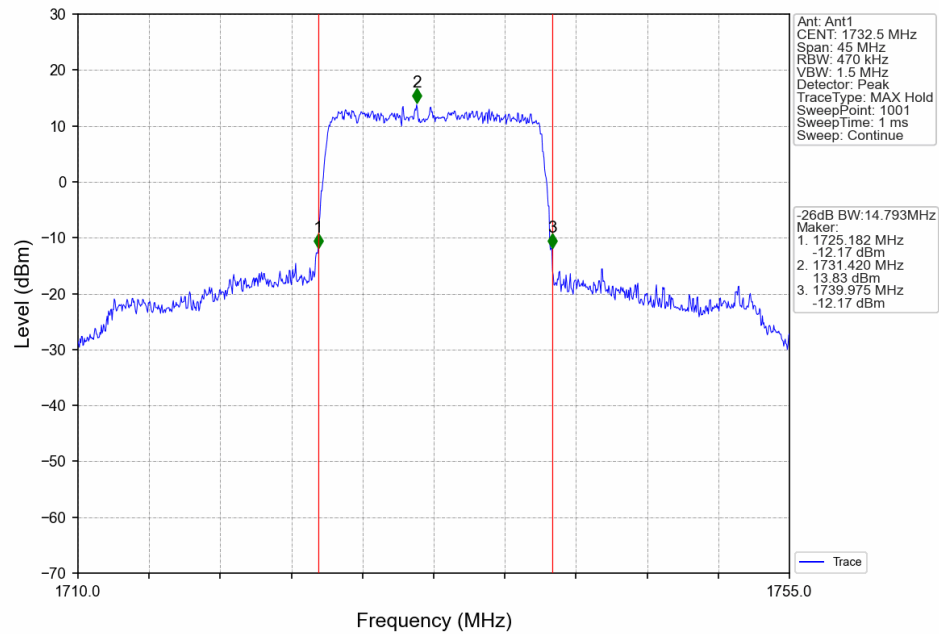
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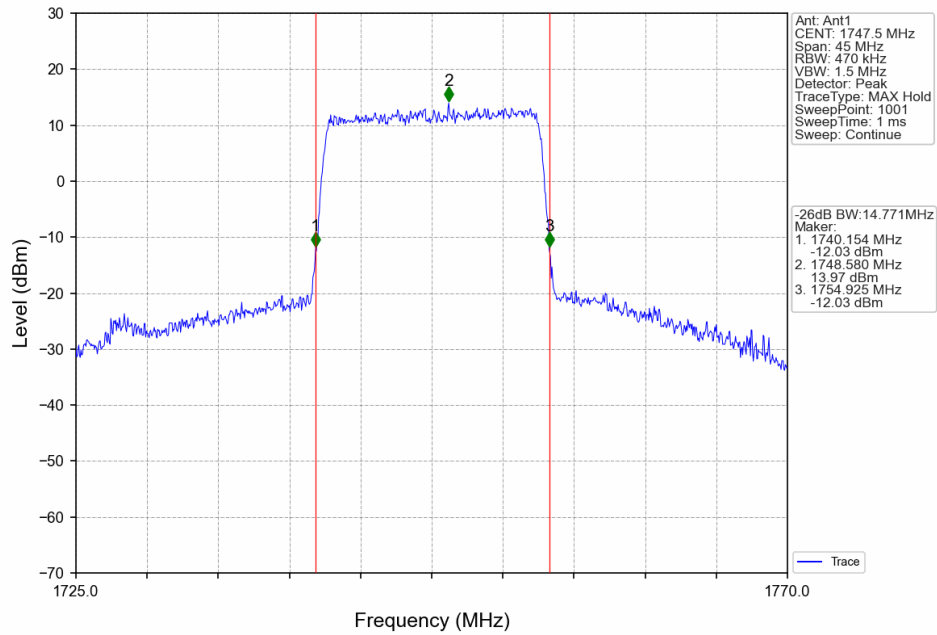
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Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV

