



# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B4\_1.4MHz\_EIRP

### 1.1.1 Test Result

| 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      | 23.22                 | 0.51       | 23.73      | <=30  | Pass    |      |      |
|                                    |                 |               | 2      | 23.35                 | 0.51       | 23.86      | <=30  | Pass    |      |      |
|                                    |                 |               | 5      | 23.22                 | 0.51       | 23.73      | <=30  | Pass    |      |      |
|                                    |                 | 3             | 0      | 23.29                 | 0.51       | 23.80      | <=30  | Pass    |      |      |
|                                    |                 |               | 2      | 23.33                 | 0.51       | 23.84      | <=30  | Pass    |      |      |
|                                    |                 |               | 3      | 23.08                 | 0.51       | 23.59      | <=30  | Pass    |      |      |
|                                    |                 | 6             | 0      | 21.86                 | 0.51       | 22.37      | <=30  | Pass    |      |      |
|                                    |                 | 1732.5        | 1      | 0                     | 22.68      | 0.51       | 23.19 | <=30    | Pass |      |
|                                    |                 |               |        | 2                     | 22.80      | 0.51       | 23.31 | <=30    | Pass |      |
|                                    | 5               |               |        | 22.67                 | 0.51       | 23.18      | <=30  | Pass    |      |      |
|                                    | 3               |               | 0      | 22.82                 | 0.51       | 23.33      | <=30  | Pass    |      |      |
|                                    |                 |               | 2      | 22.81                 | 0.51       | 23.32      | <=30  | Pass    |      |      |
|                                    |                 |               | 3      | 22.82                 | 0.51       | 23.33      | <=30  | Pass    |      |      |
|                                    | 6               |               | 0      | 21.71                 | 0.51       | 22.22      | <=30  | Pass    |      |      |
|                                    | 1754.3          |               | 1      | 0                     | 22.53      | 0.51       | 23.04 | <=30    | Pass |      |
|                                    |                 |               |        | 2                     | 22.67      | 0.51       | 23.18 | <=30    | Pass |      |
|                                    |                 | 5             |        | 22.52                 | 0.51       | 23.03      | <=30  | Pass    |      |      |
|                                    |                 | 3             | 0      | 22.46                 | 0.51       | 22.97      | <=30  | Pass    |      |      |
|                                    |                 |               | 2      | 22.51                 | 0.51       | 23.02      | <=30  | Pass    |      |      |
|                                    |                 |               | 3      | 22.45                 | 0.51       | 22.96      | <=30  | Pass    |      |      |
|                                    |                 | 6             | 0      | 21.66                 | 0.51       | 22.17      | <=30  | Pass    |      |      |
|                                    |                 | 16QAM         | 1710.7 | 1                     | 0          | 21.69      | 0.51  | 22.20   | <=30 | Pass |
|                                    |                 |               |        |                       | 2          | 21.77      | 0.51  | 22.28   | <=30 | Pass |
|                                    | 5               |               |        |                       | 21.72      | 0.51       | 22.23 | <=30    | Pass |      |
| 3                                  | 0               |               |        | 21.96                 | 0.51       | 22.47      | <=30  | Pass    |      |      |
|                                    | 2               |               |        | 21.98                 | 0.51       | 22.49      | <=30  | Pass    |      |      |
|                                    | 3               |               |        | 21.96                 | 0.51       | 22.47      | <=30  | Pass    |      |      |
| 6                                  | 0               |               |        | 20.81                 | 0.51       | 21.32      | <=30  | Pass    |      |      |
| 1732.5                             | 1               |               |        | 0                     | 21.72      | 0.51       | 22.23 | <=30    | Pass |      |
|                                    |                 |               |        | 2                     | 21.82      | 0.51       | 22.33 | <=30    | Pass |      |
|                                    |                 |               | 5      | 21.80                 | 0.51       | 22.31      | <=30  | Pass    |      |      |
|                                    | 3               |               | 0      | 21.89                 | 0.51       | 22.40      | <=30  | Pass    |      |      |
|                                    |                 |               | 2      | 21.85                 | 0.51       | 22.36      | <=30  | Pass    |      |      |
|                                    |                 |               | 3      | 21.86                 | 0.51       | 22.37      | <=30  | Pass    |      |      |
|                                    | 6               |               | 0      | 20.67                 | 0.51       | 21.18      | <=30  | Pass    |      |      |
|                                    | 1754.3          |               | 1      | 0                     | 21.54      | 0.51       | 22.05 | <=30    | Pass |      |
|                                    |                 |               |        | 2                     | 21.67      | 0.51       | 22.18 | <=30    | Pass |      |
| 5                                  |                 |               |        | 21.52                 | 0.51       | 22.03      | <=30  | Pass    |      |      |
| 3                                  |                 |               | 0      | 21.35                 | 0.51       | 21.86      | <=30  | Pass    |      |      |
|                                    |                 |               | 2      | 21.40                 | 0.51       | 21.91      | <=30  | Pass    |      |      |
|                                    |                 |               | 3      | 21.38                 | 0.51       | 21.89      | <=30  | Pass    |      |      |
| 6                                  |                 |               | 0      | 20.53                 | 0.51       | 21.04      | <=30  | Pass    |      |      |

Note1: EIRP=Conducted Power+Antenna Gain



1.2 B4\_3MHz\_EIRP

1.2.1 Test Result

| 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      | 22.93                 | 0.51       | 23.44      | <=30  | Pass    |      |      |
|                                  |                 |               | 7      | 23.07                 | 0.51       | 23.58      | <=30  | Pass    |      |      |
|                                  |                 |               | 14     | 22.94                 | 0.51       | 23.45      | <=30  | Pass    |      |      |
|                                  |                 | 8             | 0      | 21.91                 | 0.51       | 22.42      | <=30  | Pass    |      |      |
|                                  |                 |               | 4      | 21.96                 | 0.51       | 22.47      | <=30  | Pass    |      |      |
|                                  |                 |               | 7      | 21.87                 | 0.51       | 22.38      | <=30  | Pass    |      |      |
|                                  |                 | 15            | 0      | 21.84                 | 0.51       | 22.35      | <=30  | Pass    |      |      |
|                                  |                 | 1732.5        | 1      | 0                     | 22.76      | 0.51       | 23.27 | <=30    | Pass |      |
|                                  |                 |               |        | 7                     | 22.91      | 0.51       | 23.42 | <=30    | Pass |      |
|                                  | 14              |               |        | 22.77                 | 0.51       | 23.28      | <=30  | Pass    |      |      |
|                                  | 8               |               | 0      | 21.82                 | 0.51       | 22.33      | <=30  | Pass    |      |      |
|                                  |                 |               | 4      | 21.83                 | 0.51       | 22.34      | <=30  | Pass    |      |      |
|                                  |                 |               | 7      | 21.80                 | 0.51       | 22.31      | <=30  | Pass    |      |      |
|                                  | 15              |               | 0      | 21.83                 | 0.51       | 22.34      | <=30  | Pass    |      |      |
|                                  | 1753.5          |               | 1      | 0                     | 22.73      | 0.51       | 23.24 | <=30    | Pass |      |
|                                  |                 |               |        | 7                     | 22.76      | 0.51       | 23.27 | <=30    | Pass |      |
|                                  |                 | 14            |        | 22.65                 | 0.51       | 23.16      | <=30  | Pass    |      |      |
|                                  |                 | 8             | 0      | 21.70                 | 0.51       | 22.21      | <=30  | Pass    |      |      |
|                                  |                 |               | 4      | 21.73                 | 0.51       | 22.24      | <=30  | Pass    |      |      |
|                                  |                 |               | 7      | 21.66                 | 0.51       | 22.17      | <=30  | Pass    |      |      |
|                                  |                 | 15            | 0      | 21.59                 | 0.51       | 22.10      | <=30  | Pass    |      |      |
|                                  |                 | 16QAM         | 1711.5 | 1                     | 0          | 21.91      | 0.51  | 22.42   | <=30 | Pass |
|                                  |                 |               |        |                       | 7          | 21.99      | 0.51  | 22.50   | <=30 | Pass |
|                                  | 14              |               |        |                       | 21.85      | 0.51       | 22.36 | <=30    | Pass |      |
| 8                                | 0               |               |        | 20.92                 | 0.51       | 21.43      | <=30  | Pass    |      |      |
|                                  | 4               |               |        | 20.95                 | 0.51       | 21.46      | <=30  | Pass    |      |      |
|                                  | 7               |               |        | 20.89                 | 0.51       | 21.40      | <=30  | Pass    |      |      |
| 15                               | 0               |               |        | 20.87                 | 0.51       | 21.38      | <=30  | Pass    |      |      |
| 1732.5                           | 1               |               |        | 0                     | 22.01      | 0.51       | 22.52 | <=30    | Pass |      |
|                                  |                 |               |        | 7                     | 22.12      | 0.51       | 22.63 | <=30    | Pass |      |
|                                  |                 |               | 14     | 21.96                 | 0.51       | 22.47      | <=30  | Pass    |      |      |
|                                  | 8               |               | 0      | 20.81                 | 0.51       | 21.32      | <=30  | Pass    |      |      |
|                                  |                 |               | 4      | 20.87                 | 0.51       | 21.38      | <=30  | Pass    |      |      |
|                                  |                 |               | 7      | 20.79                 | 0.51       | 21.30      | <=30  | Pass    |      |      |
|                                  | 15              |               | 0      | 20.81                 | 0.51       | 21.32      | <=30  | Pass    |      |      |
|                                  | 1753.5          |               | 1      | 0                     | 22.01      | 0.51       | 22.52 | <=30    | Pass |      |
|                                  |                 |               |        | 7                     | 22.04      | 0.51       | 22.55 | <=30    | Pass |      |
| 14                               |                 |               |        | 21.89                 | 0.51       | 22.40      | <=30  | Pass    |      |      |
| 8                                |                 |               | 0      | 20.74                 | 0.51       | 21.25      | <=30  | Pass    |      |      |
|                                  |                 |               | 4      | 20.77                 | 0.51       | 21.28      | <=30  | Pass    |      |      |
|                                  |                 |               | 7      | 20.67                 | 0.51       | 21.18      | <=30  | Pass    |      |      |
| 15                               |                 |               | 0      | 20.61                 | 0.51       | 21.12      | <=30  | Pass    |      |      |

Note1: EIRP=Conducted Power+Antenna Gain



1.3 B4\_5MHz\_EIRP

1.3.1 Test Result

| Band: 4 / Bandwidth: 5MHz / NTV |                 |               |        |                       |            |            |       |         |      |      |
|---------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|------|------|
| Modulation                      | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |      |      |
|                                 |                 | Size          | Offset |                       |            | Result     | Limit |         |      |      |
| QPSK                            | 1712.5          | 1             | 0      | 22.76                 | 0.51       | 23.27      | <=30  | Pass    |      |      |
|                                 |                 |               | 13     | 22.90                 | 0.51       | 23.41      | <=30  | Pass    |      |      |
|                                 |                 |               | 24     | 22.73                 | 0.51       | 23.24      | <=30  | Pass    |      |      |
|                                 |                 | 12            | 0      | 21.74                 | 0.51       | 22.25      | <=30  | Pass    |      |      |
|                                 |                 |               | 6      | 21.86                 | 0.51       | 22.37      | <=30  | Pass    |      |      |
|                                 |                 |               | 13     | 21.88                 | 0.51       | 22.39      | <=30  | Pass    |      |      |
|                                 |                 | 25            | 0      | 21.79                 | 0.51       | 22.30      | <=30  | Pass    |      |      |
|                                 |                 | 1732.5        | 1      | 0                     | 22.60      | 0.51       | 23.11 | <=30    | Pass |      |
|                                 |                 |               |        | 13                    | 22.76      | 0.51       | 23.27 | <=30    | Pass |      |
|                                 | 24              |               |        | 22.66                 | 0.51       | 23.17      | <=30  | Pass    |      |      |
|                                 | 12              |               | 0      | 21.73                 | 0.51       | 22.24      | <=30  | Pass    |      |      |
|                                 |                 |               | 6      | 21.78                 | 0.51       | 22.29      | <=30  | Pass    |      |      |
|                                 |                 |               | 13     | 21.74                 | 0.51       | 22.25      | <=30  | Pass    |      |      |
|                                 | 25              |               | 0      | 21.74                 | 0.51       | 22.25      | <=30  | Pass    |      |      |
|                                 | 1752.5          |               | 1      | 0                     | 22.54      | 0.51       | 23.05 | <=30    | Pass |      |
|                                 |                 |               |        | 13                    | 22.66      | 0.51       | 23.17 | <=30    | Pass |      |
|                                 |                 | 24            |        | 22.48                 | 0.51       | 22.99      | <=30  | Pass    |      |      |
|                                 |                 | 12            | 0      | 21.53                 | 0.51       | 22.04      | <=30  | Pass    |      |      |
|                                 |                 |               | 6      | 21.60                 | 0.51       | 22.11      | <=30  | Pass    |      |      |
|                                 |                 |               | 13     | 21.53                 | 0.51       | 22.04      | <=30  | Pass    |      |      |
|                                 |                 | 25            | 0      | 21.50                 | 0.51       | 22.01      | <=30  | Pass    |      |      |
|                                 |                 | 16QAM         | 1712.5 | 1                     | 0          | 21.83      | 0.51  | 22.34   | <=30 | Pass |
|                                 |                 |               |        |                       | 13         | 21.93      | 0.51  | 22.44   | <=30 | Pass |
|                                 | 24              |               |        |                       | 21.83      | 0.51       | 22.34 | <=30    | Pass |      |
| 12                              | 0               |               |        | 20.67                 | 0.51       | 21.18      | <=30  | Pass    |      |      |
|                                 | 6               |               |        | 20.78                 | 0.51       | 21.29      | <=30  | Pass    |      |      |
|                                 | 13              |               |        | 20.77                 | 0.51       | 21.28      | <=30  | Pass    |      |      |
| 25                              | 0               |               |        | 20.72                 | 0.51       | 21.23      | <=30  | Pass    |      |      |
| 1732.5                          | 1               |               |        | 0                     | 21.98      | 0.51       | 22.49 | <=30    | Pass |      |
|                                 |                 |               |        | 13                    | 22.07      | 0.51       | 22.58 | <=30    | Pass |      |
|                                 |                 |               | 24     | 21.93                 | 0.51       | 22.44      | <=30  | Pass    |      |      |
|                                 | 12              |               | 0      | 20.80                 | 0.51       | 21.31      | <=30  | Pass    |      |      |
|                                 |                 |               | 6      | 20.82                 | 0.51       | 21.33      | <=30  | Pass    |      |      |
|                                 |                 |               | 13     | 20.79                 | 0.51       | 21.30      | <=30  | Pass    |      |      |
|                                 | 25              |               | 0      | 20.76                 | 0.51       | 21.27      | <=30  | Pass    |      |      |
|                                 | 1752.5          |               | 1      | 0                     | 21.32      | 0.51       | 21.83 | <=30    | Pass |      |
|                                 |                 |               |        | 13                    | 21.41      | 0.51       | 21.92 | <=30    | Pass |      |
| 24                              |                 |               |        | 21.22                 | 0.51       | 21.73      | <=30  | Pass    |      |      |
| 12                              |                 |               | 0      | 20.49                 | 0.51       | 21.00      | <=30  | Pass    |      |      |
|                                 |                 |               | 6      | 20.53                 | 0.51       | 21.04      | <=30  | Pass    |      |      |
|                                 |                 |               | 13     | 20.48                 | 0.51       | 20.99      | <=30  | Pass    |      |      |
| 25                              |                 |               | 0      | 20.51                 | 0.51       | 21.02      | <=30  | Pass    |      |      |

Note1: EIRP=Conducted Power+Antenna Gain



1.4 B4\_10MHz\_EIRP

1.4.1 Test Result

| Band: 4 / Bandwidth: 10MHz / NTV |                 |               |        |                       |            |            |       |         |      |      |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|------|------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |      |      |
|                                  |                 | Size          | Offset |                       |            | Result     | Limit |         |      |      |
| QPSK                             | 1715            | 1             | 0      | 22.74                 | 0.51       | 23.25      | <=30  | Pass    |      |      |
|                                  |                 |               | 25     | 22.95                 | 0.51       | 23.46      | <=30  | Pass    |      |      |
|                                  |                 |               | 49     | 22.67                 | 0.51       | 23.18      | <=30  | Pass    |      |      |
|                                  |                 | 25            | 0      | 21.71                 | 0.51       | 22.22      | <=30  | Pass    |      |      |
|                                  |                 |               | 13     | 21.80                 | 0.51       | 22.31      | <=30  | Pass    |      |      |
|                                  |                 |               | 25     | 21.76                 | 0.51       | 22.27      | <=30  | Pass    |      |      |
|                                  |                 | 50            | 0      | 21.74                 | 0.51       | 22.25      | <=30  | Pass    |      |      |
|                                  |                 | 1732.5        | 1      | 0                     | 22.69      | 0.51       | 23.20 | <=30    | Pass |      |
|                                  |                 |               |        | 25                    | 22.89      | 0.51       | 23.40 | <=30    | Pass |      |
|                                  | 49              |               |        | 22.68                 | 0.51       | 23.19      | <=30  | Pass    |      |      |
|                                  | 25              |               | 0      | 21.86                 | 0.51       | 22.37      | <=30  | Pass    |      |      |
|                                  |                 |               | 13     | 21.77                 | 0.51       | 22.28      | <=30  | Pass    |      |      |
|                                  |                 |               | 25     | 21.75                 | 0.51       | 22.26      | <=30  | Pass    |      |      |
|                                  | 50              |               | 0      | 21.81                 | 0.51       | 22.32      | <=30  | Pass    |      |      |
|                                  | 1750            |               | 1      | 0                     | 22.60      | 0.51       | 23.11 | <=30    | Pass |      |
|                                  |                 |               |        | 25                    | 22.85      | 0.51       | 23.36 | <=30    | Pass |      |
|                                  |                 | 49            |        | 22.50                 | 0.51       | 23.01      | <=30  | Pass    |      |      |
|                                  |                 | 25            | 0      | 21.65                 | 0.51       | 22.16      | <=30  | Pass    |      |      |
|                                  |                 |               | 13     | 21.64                 | 0.51       | 22.15      | <=30  | Pass    |      |      |
|                                  |                 |               | 25     | 21.61                 | 0.51       | 22.12      | <=30  | Pass    |      |      |
|                                  |                 | 50            | 0      | 21.63                 | 0.51       | 22.14      | <=30  | Pass    |      |      |
|                                  |                 | 16QAM         | 1715   | 1                     | 0          | 22.21      | 0.51  | 22.72   | <=30 | Pass |
|                                  |                 |               |        |                       | 25         | 22.40      | 0.51  | 22.91   | <=30 | Pass |
|                                  | 49              |               |        |                       | 22.21      | 0.51       | 22.72 | <=30    | Pass |      |
| 25                               | 0               |               |        | 20.72                 | 0.51       | 21.23      | <=30  | Pass    |      |      |
|                                  | 13              |               |        | 20.83                 | 0.51       | 21.34      | <=30  | Pass    |      |      |
|                                  | 25              |               |        | 20.83                 | 0.51       | 21.34      | <=30  | Pass    |      |      |
| 50                               | 0               |               |        | 20.74                 | 0.51       | 21.25      | <=30  | Pass    |      |      |
| 1732.5                           | 1               |               |        | 0                     | 21.74      | 0.51       | 22.25 | <=30    | Pass |      |
|                                  |                 |               |        | 25                    | 21.96      | 0.51       | 22.47 | <=30    | Pass |      |
|                                  |                 |               | 49     | 21.72                 | 0.51       | 22.23      | <=30  | Pass    |      |      |
|                                  | 25              |               | 0      | 20.95                 | 0.51       | 21.46      | <=30  | Pass    |      |      |
|                                  |                 |               | 13     | 20.92                 | 0.51       | 21.43      | <=30  | Pass    |      |      |
|                                  |                 |               | 25     | 20.87                 | 0.51       | 21.38      | <=30  | Pass    |      |      |
|                                  | 50              |               | 0      | 20.89                 | 0.51       | 21.40      | <=30  | Pass    |      |      |
|                                  | 1750            |               | 1      | 0                     | 21.74      | 0.51       | 22.25 | <=30    | Pass |      |
|                                  |                 |               |        | 25                    | 21.89      | 0.51       | 22.40 | <=30    | Pass |      |
| 49                               |                 |               |        | 21.53                 | 0.51       | 22.04      | <=30  | Pass    |      |      |
| 25                               |                 |               | 0      | 20.60                 | 0.51       | 21.11      | <=30  | Pass    |      |      |
|                                  |                 |               | 13     | 20.64                 | 0.51       | 21.15      | <=30  | Pass    |      |      |
|                                  |                 |               | 25     | 20.59                 | 0.51       | 21.10      | <=30  | Pass    |      |      |
| 50                               |                 |               | 0      | 20.61                 | 0.51       | 21.12      | <=30  | Pass    |      |      |

Note1: EIRP=Conducted Power+Antenna Gain



1.5 B4\_15MHz\_EIRP

1.5.1 Test Result

| Band: 4 / Bandwidth: 15MHz / NTV |                 |               |        |                       |            |            |       |         |      |      |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|------|------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |      |      |
|                                  |                 | Size          | Offset |                       |            | Result     | Limit |         |      |      |
| QPSK                             | 1717.5          | 1             | 0      | 22.68                 | 0.51       | 23.19      | <=30  | Pass    |      |      |
|                                  |                 |               | 38     | 22.79                 | 0.51       | 23.30      | <=30  | Pass    |      |      |
|                                  |                 |               | 74     | 22.55                 | 0.51       | 23.06      | <=30  | Pass    |      |      |
|                                  |                 | 36            | 0      | 21.84                 | 0.51       | 22.35      | <=30  | Pass    |      |      |
|                                  |                 |               | 18     | 21.89                 | 0.51       | 22.40      | <=30  | Pass    |      |      |
|                                  |                 |               | 39     | 21.80                 | 0.51       | 22.31      | <=30  | Pass    |      |      |
|                                  |                 | 75            | 0      | 21.76                 | 0.51       | 22.27      | <=30  | Pass    |      |      |
|                                  |                 | 1732.5        | 1      | 0                     | 22.66      | 0.51       | 23.17 | <=30    | Pass |      |
|                                  |                 |               |        | 38                    | 22.77      | 0.51       | 23.28 | <=30    | Pass |      |
|                                  | 74              |               |        | 22.56                 | 0.51       | 23.07      | <=30  | Pass    |      |      |
|                                  | 36              |               | 0      | 21.92                 | 0.51       | 22.43      | <=30  | Pass    |      |      |
|                                  |                 |               | 18     | 21.84                 | 0.51       | 22.35      | <=30  | Pass    |      |      |
|                                  |                 |               | 39     | 21.79                 | 0.51       | 22.30      | <=30  | Pass    |      |      |
|                                  | 75              |               | 0      | 21.83                 | 0.51       | 22.34      | <=30  | Pass    |      |      |
|                                  | 1747.5          |               | 1      | 0                     | 22.53      | 0.51       | 23.04 | <=30    | Pass |      |
|                                  |                 |               |        | 38                    | 22.70      | 0.51       | 23.21 | <=30    | Pass |      |
|                                  |                 | 74            |        | 22.43                 | 0.51       | 22.94      | <=30  | Pass    |      |      |
|                                  |                 | 36            | 0      | 21.79                 | 0.51       | 22.30      | <=30  | Pass    |      |      |
|                                  |                 |               | 18     | 21.82                 | 0.51       | 22.33      | <=30  | Pass    |      |      |
|                                  |                 |               | 39     | 21.79                 | 0.51       | 22.30      | <=30  | Pass    |      |      |
|                                  |                 | 75            | 0      | 21.77                 | 0.51       | 22.28      | <=30  | Pass    |      |      |
|                                  |                 | 16QAM         | 1717.5 | 1                     | 0          | 21.96      | 0.51  | 22.47   | <=30 | Pass |
|                                  |                 |               |        |                       | 38         | 22.15      | 0.51  | 22.66   | <=30 | Pass |
|                                  | 74              |               |        |                       | 22.01      | 0.51       | 22.52 | <=30    | Pass |      |
| 36                               | 0               |               |        | 20.73                 | 0.51       | 21.24      | <=30  | Pass    |      |      |
|                                  | 18              |               |        | 20.80                 | 0.51       | 21.31      | <=30  | Pass    |      |      |
|                                  | 39              |               |        | 20.71                 | 0.51       | 21.22      | <=30  | Pass    |      |      |
| 75                               | 0               |               |        | 20.72                 | 0.51       | 21.23      | <=30  | Pass    |      |      |
| 1732.5                           | 1               |               |        | 0                     | 21.83      | 0.51       | 22.34 | <=30    | Pass |      |
|                                  |                 |               |        | 38                    | 21.97      | 0.51       | 22.48 | <=30    | Pass |      |
|                                  |                 |               | 74     | 21.74                 | 0.51       | 22.25      | <=30  | Pass    |      |      |
|                                  | 36              |               | 0      | 20.86                 | 0.51       | 21.37      | <=30  | Pass    |      |      |
|                                  |                 |               | 18     | 20.84                 | 0.51       | 21.35      | <=30  | Pass    |      |      |
|                                  |                 |               | 39     | 20.76                 | 0.51       | 21.27      | <=30  | Pass    |      |      |
|                                  | 75              |               | 0      | 20.83                 | 0.51       | 21.34      | <=30  | Pass    |      |      |
|                                  | 1747.5          |               | 1      | 0                     | 22.13      | 0.51       | 22.64 | <=30    | Pass |      |
|                                  |                 |               |        | 38                    | 22.12      | 0.51       | 22.63 | <=30    | Pass |      |
| 74                               |                 |               |        | 21.72                 | 0.51       | 22.23      | <=30  | Pass    |      |      |
| 36                               |                 |               | 0      | 20.74                 | 0.51       | 21.25      | <=30  | Pass    |      |      |
|                                  |                 |               | 18     | 20.73                 | 0.51       | 21.24      | <=30  | Pass    |      |      |
|                                  |                 |               | 39     | 20.70                 | 0.51       | 21.21      | <=30  | Pass    |      |      |
| 75                               |                 |               | 0      | 20.71                 | 0.51       | 21.22      | <=30  | Pass    |      |      |

Note1: EIRP=Conducted Power+Antenna Gain



1.6 B4\_20MHz\_EIRP

1.6.1 Test Result

| Band: 4 / Bandwidth: 20MHz / NTV |                 |               |        |                       |            |            |       |         |      |      |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|------|------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |      |      |
|                                  |                 | Size          | Offset |                       |            | Result     | Limit |         |      |      |
| QPSK                             | 1720            | 1             | 0      | 22.55                 | 0.51       | 23.06      | <=30  | Pass    |      |      |
|                                  |                 |               | 50     | 22.95                 | 0.51       | 23.46      | <=30  | Pass    |      |      |
|                                  |                 |               | 99     | 22.46                 | 0.51       | 22.97      | <=30  | Pass    |      |      |
|                                  |                 | 50            | 0      | 21.76                 | 0.51       | 22.27      | <=30  | Pass    |      |      |
|                                  |                 |               | 25     | 21.84                 | 0.51       | 22.35      | <=30  | Pass    |      |      |
|                                  |                 |               | 50     | 21.63                 | 0.51       | 22.14      | <=30  | Pass    |      |      |
|                                  |                 | 100           | 0      | 21.70                 | 0.51       | 22.21      | <=30  | Pass    |      |      |
|                                  |                 | 1732.5        | 1      | 0                     | 22.52      | 0.51       | 23.03 | <=30    | Pass |      |
|                                  |                 |               |        | 50                    | 22.90      | 0.51       | 23.41 | <=30    | Pass |      |
|                                  | 99              |               |        | 22.43                 | 0.51       | 22.94      | <=30  | Pass    |      |      |
|                                  | 50              |               | 0      | 21.93                 | 0.51       | 22.44      | <=30  | Pass    |      |      |
|                                  |                 |               | 25     | 21.81                 | 0.51       | 22.32      | <=30  | Pass    |      |      |
|                                  |                 |               | 50     | 21.68                 | 0.51       | 22.19      | <=30  | Pass    |      |      |
|                                  | 100             |               | 0      | 21.81                 | 0.51       | 22.32      | <=30  | Pass    |      |      |
|                                  | 1745            |               | 1      | 0                     | 22.43      | 0.51       | 22.94 | <=30    | Pass |      |
|                                  |                 |               |        | 50                    | 22.87      | 0.51       | 23.38 | <=30    | Pass |      |
|                                  |                 | 99            |        | 22.28                 | 0.51       | 22.79      | <=30  | Pass    |      |      |
|                                  |                 | 50            | 0      | 21.78                 | 0.51       | 22.29      | <=30  | Pass    |      |      |
|                                  |                 |               | 25     | 21.72                 | 0.51       | 22.23      | <=30  | Pass    |      |      |
|                                  |                 |               | 50     | 21.62                 | 0.51       | 22.13      | <=30  | Pass    |      |      |
|                                  |                 | 100           | 0      | 21.71                 | 0.51       | 22.22      | <=30  | Pass    |      |      |
|                                  |                 | 16QAM         | 1720   | 1                     | 0          | 22.01      | 0.51  | 22.52   | <=30 | Pass |
|                                  |                 |               |        |                       | 50         | 22.52      | 0.51  | 23.03   | <=30 | Pass |
|                                  | 99              |               |        |                       | 22.06      | 0.51       | 22.57 | <=30    | Pass |      |
| 50                               | 0               |               |        | 20.72                 | 0.51       | 21.23      | <=30  | Pass    |      |      |
|                                  | 25              |               |        | 20.84                 | 0.51       | 21.35      | <=30  | Pass    |      |      |
|                                  | 50              |               |        | 20.62                 | 0.51       | 21.13      | <=30  | Pass    |      |      |
| 100                              | 0               |               |        | 20.73                 | 0.51       | 21.24      | <=30  | Pass    |      |      |
| 1732.5                           | 1               |               |        | 0                     | 21.74      | 0.51       | 22.25 | <=30    | Pass |      |
|                                  |                 |               |        | 50                    | 22.15      | 0.51       | 22.66 | <=30    | Pass |      |
|                                  |                 |               | 99     | 21.64                 | 0.51       | 22.15      | <=30  | Pass    |      |      |
|                                  | 50              |               | 0      | 20.96                 | 0.51       | 21.47      | <=30  | Pass    |      |      |
|                                  |                 |               | 25     | 20.81                 | 0.51       | 21.32      | <=30  | Pass    |      |      |
|                                  |                 |               | 50     | 20.67                 | 0.51       | 21.18      | <=30  | Pass    |      |      |
|                                  | 100             |               | 0      | 20.84                 | 0.51       | 21.35      | <=30  | Pass    |      |      |
|                                  | 1745            |               | 1      | 0                     | 21.76      | 0.51       | 22.27 | <=30    | Pass |      |
|                                  |                 |               |        | 50                    | 22.06      | 0.51       | 22.57 | <=30    | Pass |      |
| 99                               |                 |               |        | 21.40                 | 0.51       | 21.91      | <=30  | Pass    |      |      |
| 50                               |                 |               | 0      | 20.79                 | 0.51       | 21.30      | <=30  | Pass    |      |      |
|                                  |                 |               | 25     | 20.74                 | 0.51       | 21.25      | <=30  | Pass    |      |      |
|                                  |                 |               | 50     | 20.66                 | 0.51       | 21.17      | <=30  | Pass    |      |      |
| 100                              |                 |               | 0      | 20.75                 | 0.51       | 21.26      | <=30  | Pass    |      |      |

Note1: EIRP=Conducted Power+Antenna Gain



## 2. Frequency Stability

### 2.1 B4\_1.4MHz

#### 2.1.1 Test Result

| 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          | -7.038           | -0.0041               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         |             | 3.85          | 1.645            | 0.0010                | -2.5 to 2.5 | Pass    |
|                             |                 |               |         |             | 4.43          | -7.725           | -0.0045               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | -30         | 3.85          | 3.433            | 0.0020                | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | -20         | 3.85          | -0.687           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | -10         | 3.85          | -11.559          | -0.0068               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | 0           | 3.85          | -12.717          | -0.0074               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | 10          | 3.85          | -14.663          | -0.0086               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | 30          | 3.85          | 8.283            | 0.0048                | -2.5 to 2.5 | Pass    |
|                             | 40              | 3.85          | -5.736  | -0.0034     | -2.5 to 2.5   | Pass             |                       |             |         |
|                             | 50              | 3.85          | 2.832   | 0.0017      | -2.5 to 2.5   | Pass             |                       |             |         |
|                             | 1732.5          | 6             | 0       | 20          | 3.27          | 7.524            | 0.0043                | -2.5 to 2.5 | Pass    |
|                             |                 |               |         |             | 3.85          | -5.865           | -0.0034               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         |             | 4.43          | 4.048            | 0.0023                | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | -30         | 3.85          | 4.478            | 0.0026                | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | -20         | 3.85          | -12.918          | -0.0075               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | -10         | 3.85          | 5.207            | 0.0030                | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | 0           | 3.85          | -11.272          | -0.0065               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | 10          | 3.85          | -6.008           | -0.0035               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | 30          | 3.85          | -5.722           | -0.0033               | -2.5 to 2.5 | Pass    |
|                             | 40              | 3.85          | -5.708  | -0.0033     | -2.5 to 2.5   | Pass             |                       |             |         |
|                             | 50              | 3.85          | 0.644   | 0.0004      | -2.5 to 2.5   | Pass             |                       |             |         |
|                             | 1754.3          | 6             | 0       | 20          | 3.27          | -7.224           | -0.0041               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         |             | 3.85          | 2.775            | 0.0016                | -2.5 to 2.5 | Pass    |
|                             |                 |               |         |             | 4.43          | -8.898           | -0.0051               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | -30         | 3.85          | -5.336           | -0.0030               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | -20         | 3.85          | 7.739            | 0.0044                | -2.5 to 2.5 | Pass    |
| -10                         |                 |               |         | 3.85        | -9.642        | -0.0055          | -2.5 to 2.5           | Pass        |         |
| 0                           |                 |               |         | 3.85        | -17.409       | -0.0099          | -2.5 to 2.5           | Pass        |         |
| 10                          |                 |               |         | 3.85        | -16.665       | -0.0095          | -2.5 to 2.5           | Pass        |         |
| 30                          |                 |               |         | 3.85        | -12.188       | -0.0069          | -2.5 to 2.5           | Pass        |         |
| 40                          | 3.85            | -11.086       | -0.0063 | -2.5 to 2.5 | Pass          |                  |                       |             |         |
| 50                          | 3.85            | -5.894        | -0.0034 | -2.5 to 2.5 | Pass          |                  |                       |             |         |
| 16QAM                       | 1710.7          | 6             | 0       | 20          | 3.27          | 0.200            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |         |             | 3.85          | 4.449            | 0.0026                | -2.5 to 2.5 | Pass    |
|                             |                 |               |         |             | 4.43          | 12.102           | 0.0071                | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | -30         | 3.85          | -9.112           | -0.0053               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | -20         | 3.85          | -6.824           | -0.0040               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | -10         | 3.85          | -5.894           | -0.0034               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | 0           | 3.85          | 11.344           | 0.0066                | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | 10          | 3.85          | -14.362          | -0.0084               | -2.5 to 2.5 | Pass    |
|                             |                 |               |         | 30          | 3.85          | -3.047           | -0.0018               | -2.5 to 2.5 | Pass    |
| 40                          | 3.85            | -13.604       | -0.0080 | -2.5 to 2.5 | Pass          |                  |                       |             |         |
| 50                          | 3.85            | -7.925        | -0.0046 | -2.5 to 2.5 | Pass          |                  |                       |             |         |



|    |        |      |         |         |             |             |             |             |             |             |
|----|--------|------|---------|---------|-------------|-------------|-------------|-------------|-------------|-------------|
|    | 1732.5 | 6    | 0       | 20      | 3.27        | 7.238       | 0.0042      | -2.5 to 2.5 | Pass        |             |
|    |        |      |         |         | 3.85        | 6.394       | 0.0037      | -2.5 to 2.5 | Pass        |             |
|    |        |      |         |         | 4.43        | -8.440      | -0.0049     | -2.5 to 2.5 | Pass        |             |
|    |        |      |         | -30     | 3.85        | -13.504     | -0.0078     | -2.5 to 2.5 | Pass        |             |
|    |        |      |         |         | -20         | 3.85        | -2.346      | -0.0014     | -2.5 to 2.5 | Pass        |
|    |        |      |         |         |             | -10         | 3.85        | 6.852       | 0.0040      | -2.5 to 2.5 |
|    |        |      |         | 0       | 3.85        | -13.418     | -0.0077     | -2.5 to 2.5 | Pass        |             |
|    |        |      |         |         | 10          | 3.85        | 6.394       | 0.0037      | -2.5 to 2.5 | Pass        |
|    |        |      |         |         | 30          | 3.85        | -11.787     | -0.0068     | -2.5 to 2.5 | Pass        |
|    | 40     | 3.85 | 1.316   |         | 0.0008      | -2.5 to 2.5 | Pass        |             |             |             |
|    | 50     | 3.85 | 5.322   |         | 0.0031      | -2.5 to 2.5 | Pass        |             |             |             |
|    |        | 3.85 | -14.205 |         | -0.0081     | -2.5 to 2.5 | Pass        |             |             |             |
|    | 1754.3 | 6    | 0       | 20      | 3.85        | -15.163     | -0.0086     | -2.5 to 2.5 | Pass        |             |
|    |        |      |         |         | 4.43        | -15.593     | -0.0089     | -2.5 to 2.5 | Pass        |             |
|    |        |      |         |         | -30         | 3.85        | -8.254      | -0.0047     | -2.5 to 2.5 | Pass        |
|    |        |      |         | -20     | 3.85        | -11.101     | -0.0063     | -2.5 to 2.5 | Pass        |             |
|    |        |      |         |         | -10         | 3.85        | -9.384      | -0.0053     | -2.5 to 2.5 | Pass        |
|    |        |      |         |         |             | 0           | 3.85        | -10.357     | -0.0059     | -2.5 to 2.5 |
| 10 |        |      |         | 3.85    | -18.125     | -0.0103     | -2.5 to 2.5 | Pass        |             |             |
|    |        |      |         | 30      | 3.85        | -1.960      | -0.0011     | -2.5 to 2.5 | Pass        |             |
|    |        |      |         | 40      | 3.85        | -8.283      | -0.0047     | -2.5 to 2.5 | Pass        |             |
|    | 50     | 3.85 | -6.781  | -0.0039 | -2.5 to 2.5 | Pass        |             |             |             |             |
|    |        | 3.85 | -6.781  | -0.0039 | -2.5 to 2.5 | Pass        |             |             |             |             |

2.2 B4\_3MHz

2.2.1 Test Result

| 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          | -7.567           | -0.0044               | -2.5 to 2.5 | Pass        |             |
|                           |                 |               |         |            | 3.85          | -11.973          | -0.0070               | -2.5 to 2.5 | Pass        |             |
|                           |                 |               |         |            | 4.43          | -2.918           | -0.0017               | -2.5 to 2.5 | Pass        |             |
|                           |                 |               |         | -30        | 3.85          | -18.225          | -0.0106               | -2.5 to 2.5 | Pass        |             |
|                           |                 |               |         |            | -20           | 3.85             | 6.552                 | 0.0038      | -2.5 to 2.5 | Pass        |
|                           |                 |               |         |            |               | -10              | 3.85                  | -11.358     | -0.0066     | -2.5 to 2.5 |
|                           |                 |               |         | 0          | 3.85          | -7.052           | -0.0041               | -2.5 to 2.5 | Pass        |             |
|                           |                 |               |         |            | 10            | 3.85             | -12.102               | -0.0071     | -2.5 to 2.5 | Pass        |
|                           |                 |               |         |            | 30            | 3.85             | -2.832                | -0.0017     | -2.5 to 2.5 | Pass        |
|                           | 40              | 3.85          | -2.174  |            | -0.0013       | -2.5 to 2.5      | Pass                  |             |             |             |
|                           | 50              | 3.85          | -5.994  |            | -0.0035       | -2.5 to 2.5      | Pass                  |             |             |             |
|                           |                 | 3.85          | -5.994  |            | -0.0035       | -2.5 to 2.5      | Pass                  |             |             |             |
|                           | 1732.5          | 15            | 0       | 20         | 3.27          | -6.323           | -0.0036               | -2.5 to 2.5 | Pass        |             |
|                           |                 |               |         |            | 3.85          | -13.819          | -0.0080               | -2.5 to 2.5 | Pass        |             |
|                           |                 |               |         |            | 4.43          | 2.031            | 0.0012                | -2.5 to 2.5 | Pass        |             |
|                           |                 |               |         | -30        | 3.85          | -0.257           | -0.0001               | -2.5 to 2.5 | Pass        |             |
|                           |                 |               |         |            | -20           | 3.85             | -12.503               | -0.0072     | -2.5 to 2.5 | Pass        |
|                           |                 |               |         |            |               | -10              | 3.85                  | -9.012      | -0.0052     | -2.5 to 2.5 |
|                           |                 |               |         | 0          | 3.85          | -5.221           | -0.0030               | -2.5 to 2.5 | Pass        |             |
|                           |                 |               |         |            | 10            | 3.85             | -8.097                | -0.0047     | -2.5 to 2.5 | Pass        |
|                           |                 |               |         |            | 30            | 3.85             | -2.074                | -0.0012     | -2.5 to 2.5 | Pass        |
|                           | 40              | 3.85          | -2.589  |            | -0.0015       | -2.5 to 2.5      | Pass                  |             |             |             |
|                           | 50              | 3.85          | -14.048 |            | -0.0081       | -2.5 to 2.5      | Pass                  |             |             |             |
|                           |                 | 3.85          | -14.048 |            | -0.0081       | -2.5 to 2.5      | Pass                  |             |             |             |
|                           | 1753.5          | 15            | 0       | 20         | 3.27          | -15.306          | -0.0087               | -2.5 to 2.5 | Pass        |             |



|       |        |        |         |             |             |             |             |             |             |      |
|-------|--------|--------|---------|-------------|-------------|-------------|-------------|-------------|-------------|------|
|       |        |        |         |             | 3.85        | 7.682       | 0.0044      | -2.5 to 2.5 | Pass        |      |
|       |        |        |         |             | 4.43        | 2.203       | 0.0013      | -2.5 to 2.5 | Pass        |      |
|       |        |        |         | -30         | 3.85        | 1.516       | 0.0009      | -2.5 to 2.5 | Pass        |      |
|       |        |        |         | -20         | 3.85        | 0.501       | 0.0003      | -2.5 to 2.5 | Pass        |      |
|       |        |        |         | -10         | 3.85        | -5.207      | -0.0030     | -2.5 to 2.5 | Pass        |      |
|       |        |        |         | 0           | 3.85        | -11.544     | -0.0066     | -2.5 to 2.5 | Pass        |      |
|       |        |        |         | 10          | 3.85        | -1.531      | -0.0009     | -2.5 to 2.5 | Pass        |      |
|       |        |        |         | 30          | 3.85        | -3.762      | -0.0021     | -2.5 to 2.5 | Pass        |      |
|       |        |        |         | 40          | 3.85        | -2.475      | -0.0014     | -2.5 to 2.5 | Pass        |      |
|       |        |        |         | 50          | 3.85        | -5.536      | -0.0032     | -2.5 to 2.5 | Pass        |      |
| 16QAM | 1711.5 | 15     | 0       | 20          | 3.27        | 1.659       | 0.0010      | -2.5 to 2.5 | Pass        |      |
|       |        |        |         |             | 3.85        | -6.580      | -0.0038     | -2.5 to 2.5 | Pass        |      |
|       |        |        |         |             | 4.43        | -15.192     | -0.0089     | -2.5 to 2.5 | Pass        |      |
|       |        |        |         | -30         | 3.85        | -11.058     | -0.0065     | -2.5 to 2.5 | Pass        |      |
|       |        |        |         |             | -20         | 3.85        | -19.512     | -0.0114     | -2.5 to 2.5 | Pass |
|       |        |        |         |             |             | 3.85        | -11.301     | -0.0066     | -2.5 to 2.5 | Pass |
|       |        |        |         | 0           | 3.85        | 4.520       | 0.0026      | -2.5 to 2.5 | Pass        |      |
|       |        |        |         |             | 10          | 3.85        | -2.604      | -0.0015     | -2.5 to 2.5 | Pass |
|       |        |        |         | 30          | 3.85        | 0.000       | 0.0000      | -2.5 to 2.5 | Pass        |      |
|       | 40     | 3.85   | -9.284  |             | -0.0054     | -2.5 to 2.5 | Pass        |             |             |      |
|       | 50     | 3.85   | -12.045 | -0.0070     | -2.5 to 2.5 | Pass        |             |             |             |      |
|       | 1732.5 | 15     | 0       | 20          | 3.27        | -5.894      | -0.0034     | -2.5 to 2.5 | Pass        |      |
|       |        |        |         |             | 3.85        | 4.191       | 0.0024      | -2.5 to 2.5 | Pass        |      |
|       |        |        |         |             | 4.43        | -14.849     | -0.0086     | -2.5 to 2.5 | Pass        |      |
|       |        |        |         | -30         | 3.85        | -0.687      | -0.0004     | -2.5 to 2.5 | Pass        |      |
|       |        |        |         |             | -20         | 3.85        | -8.969      | -0.0052     | -2.5 to 2.5 | Pass |
|       |        |        |         |             |             | 3.85        | -10.042     | -0.0058     | -2.5 to 2.5 | Pass |
|       |        |        |         | 0           | 3.85        | 10.500      | 0.0061      | -2.5 to 2.5 | Pass        |      |
|       |        |        |         |             | 10          | 3.85        | -10.443     | -0.0060     | -2.5 to 2.5 | Pass |
|       |        |        |         | 30          | 3.85        | 5.980       | 0.0035      | -2.5 to 2.5 | Pass        |      |
|       | 40     | 3.85   | -1.001  |             | -0.0006     | -2.5 to 2.5 | Pass        |             |             |      |
|       | 50     | 3.85   | 8.941   | 0.0052      | -2.5 to 2.5 | Pass        |             |             |             |      |
|       | 1753.5 | 15     | 0       | 20          | 3.27        | -14.505     | -0.0083     | -2.5 to 2.5 | Pass        |      |
|       |        |        |         |             | 3.85        | -10.586     | -0.0060     | -2.5 to 2.5 | Pass        |      |
|       |        |        |         |             | 4.43        | -10.872     | -0.0062     | -2.5 to 2.5 | Pass        |      |
|       |        |        |         | -30         | 3.85        | 6.423       | 0.0037      | -2.5 to 2.5 | Pass        |      |
|       |        |        |         |             | -20         | 3.85        | -6.881      | -0.0039     | -2.5 to 2.5 | Pass |
| 3.85  |        |        |         |             |             | -8.154      | -0.0047     | -2.5 to 2.5 | Pass        |      |
| 0     |        |        |         | 3.85        | -11.086     | -0.0063     | -2.5 to 2.5 | Pass        |             |      |
|       |        |        |         | 10          | 3.85        | -4.349      | -0.0025     | -2.5 to 2.5 | Pass        |      |
| 30    |        |        |         | 3.85        | -13.218     | -0.0075     | -2.5 to 2.5 | Pass        |             |      |
|       | 40     | 3.85   | 0.744   | 0.0004      | -2.5 to 2.5 | Pass        |             |             |             |      |
| 50    | 3.85   | -0.987 | -0.0006 | -2.5 to 2.5 | Pass        |             |             |             |             |      |

## 2.3 B4\_5MHz

### 2.3.1 Test Result

| 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          | -5.679           | -0.0033               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            |               |                  |                       |             | 3.85    |

|       |        |         |         |             |             |         |         |             |        |
|-------|--------|---------|---------|-------------|-------------|---------|---------|-------------|--------|
|       |        |         |         |             | 4.43        | -6.409  | -0.0037 | -2.5 to 2.5 | Pass   |
|       |        |         |         | -30         | 3.85        | 3.233   | 0.0019  | -2.5 to 2.5 | Pass   |
|       |        |         |         | -20         | 3.85        | 0.129   | 0.0001  | -2.5 to 2.5 | Pass   |
|       |        |         |         | -10         | 3.85        | 2.861   | 0.0017  | -2.5 to 2.5 | Pass   |
|       |        |         |         | 0           | 3.85        | -1.245  | -0.0007 | -2.5 to 2.5 | Pass   |
|       |        |         |         | 10          | 3.85        | 2.561   | 0.0015  | -2.5 to 2.5 | Pass   |
|       |        |         |         | 30          | 3.85        | -0.100  | -0.0001 | -2.5 to 2.5 | Pass   |
|       |        |         |         | 40          | 3.85        | -8.841  | -0.0052 | -2.5 to 2.5 | Pass   |
|       |        |         |         | 50          | 3.85        | -9.627  | -0.0056 | -2.5 to 2.5 | Pass   |
|       |        |         |         | 1732.5      | 25          | 0       | 20      | 3.27        | -3.562 |
|       | 3.85   | -15.092 | -0.0087 |             |             |         |         | -2.5 to 2.5 | Pass   |
|       | 4.43   | -10.357 | -0.0060 |             |             |         |         | -2.5 to 2.5 | Pass   |
|       | -30    | 3.85    | -15.879 |             |             |         | -0.0092 | -2.5 to 2.5 | Pass   |
|       | -20    | 3.85    | 7.310   |             |             |         | 0.0042  | -2.5 to 2.5 | Pass   |
|       | -10    | 3.85    | -4.849  |             |             |         | -0.0028 | -2.5 to 2.5 | Pass   |
|       | 0      | 3.85    | -16.150 |             |             |         | -0.0093 | -2.5 to 2.5 | Pass   |
|       | 10     | 3.85    | -15.006 |             |             |         | -0.0087 | -2.5 to 2.5 | Pass   |
|       | 30     | 3.85    | -1.259  |             |             |         | -0.0007 | -2.5 to 2.5 | Pass   |
|       | 40     | 3.85    | -5.465  |             |             |         | -0.0032 | -2.5 to 2.5 | Pass   |
|       | 50     | 3.85    | -8.554  | -0.0049     | -2.5 to 2.5 | Pass    |         |             |        |
|       | 1752.5 | 25      | 0       | 20          | 3.27        | -7.224  | -0.0041 | -2.5 to 2.5 | Pass   |
|       |        |         |         |             | 3.85        | -12.074 | -0.0069 | -2.5 to 2.5 | Pass   |
|       |        |         |         |             | 4.43        | -12.789 | -0.0073 | -2.5 to 2.5 | Pass   |
|       |        |         |         | -30         | 3.85        | -13.304 | -0.0076 | -2.5 to 2.5 | Pass   |
|       |        |         |         | -20         | 3.85        | -3.619  | -0.0021 | -2.5 to 2.5 | Pass   |
|       |        |         |         | -10         | 3.85        | -5.794  | -0.0033 | -2.5 to 2.5 | Pass   |
|       |        |         |         | 0           | 3.85        | -15.492 | -0.0088 | -2.5 to 2.5 | Pass   |
|       |        |         |         | 10          | 3.85        | -13.247 | -0.0076 | -2.5 to 2.5 | Pass   |
|       |        |         |         | 30          | 3.85        | -7.596  | -0.0043 | -2.5 to 2.5 | Pass   |
|       |        |         |         | 40          | 3.85        | -9.856  | -0.0056 | -2.5 to 2.5 | Pass   |
| 50    | 3.85   | 0.587   | 0.0003  | -2.5 to 2.5 | Pass        |         |         |             |        |
| 16QAM | 1712.5 | 25      | 0       | 20          | 3.27        | 6.924   | 0.0040  | -2.5 to 2.5 | Pass   |
|       |        |         |         |             | 3.85        | 1.116   | 0.0007  | -2.5 to 2.5 | Pass   |
|       |        |         |         |             | 4.43        | 4.034   | 0.0024  | -2.5 to 2.5 | Pass   |
|       |        |         |         | -30         | 3.85        | 0.701   | 0.0004  | -2.5 to 2.5 | Pass   |
|       |        |         |         | -20         | 3.85        | -7.267  | -0.0042 | -2.5 to 2.5 | Pass   |
|       |        |         |         | -10         | 3.85        | 2.160   | 0.0013  | -2.5 to 2.5 | Pass   |
|       |        |         |         | 0           | 3.85        | -10.142 | -0.0059 | -2.5 to 2.5 | Pass   |
|       |        |         |         | 10          | 3.85        | 1.802   | 0.0011  | -2.5 to 2.5 | Pass   |
|       |        |         |         | 30          | 3.85        | -3.061  | -0.0018 | -2.5 to 2.5 | Pass   |
|       |        |         |         | 40          | 3.85        | -2.389  | -0.0014 | -2.5 to 2.5 | Pass   |
|       | 50     | 3.85    | -4.921  | -0.0029     | -2.5 to 2.5 | Pass    |         |             |        |
|       | 1732.5 | 25      | 0       | 20          | 3.27        | -4.435  | -0.0026 | -2.5 to 2.5 | Pass   |
|       |        |         |         |             | 3.85        | -5.264  | -0.0030 | -2.5 to 2.5 | Pass   |
|       |        |         |         |             | 4.43        | -2.689  | -0.0016 | -2.5 to 2.5 | Pass   |
|       |        |         |         | -30         | 3.85        | 1.845   | 0.0011  | -2.5 to 2.5 | Pass   |
|       |        |         |         | -20         | 3.85        | 2.174   | 0.0013  | -2.5 to 2.5 | Pass   |
|       |        |         |         | -10         | 3.85        | 6.924   | 0.0040  | -2.5 to 2.5 | Pass   |
|       |        |         |         | 0           | 3.85        | 0.515   | 0.0003  | -2.5 to 2.5 | Pass   |
|       |        |         |         | 10          | 3.85        | -1.259  | -0.0007 | -2.5 to 2.5 | Pass   |
|       |        |         |         | 30          | 3.85        | -8.612  | -0.0050 | -2.5 to 2.5 | Pass   |
|       |        |         |         | 40          | 3.85        | -13.790 | -0.0080 | -2.5 to 2.5 | Pass   |
|       | 50     | 3.85    | -0.730  | -0.0004     | -2.5 to 2.5 | Pass    |         |             |        |
|       | 1752.5 | 25      | 0       | 20          | 3.27        | -8.183  | -0.0047 | -2.5 to 2.5 | Pass   |
|       |        |         |         |             | 3.85        | -6.638  | -0.0038 | -2.5 to 2.5 | Pass   |

|  |  |  |  |     |      |        |         |             |      |
|--|--|--|--|-----|------|--------|---------|-------------|------|
|  |  |  |  |     | 4.43 | 3.047  | 0.0017  | -2.5 to 2.5 | Pass |
|  |  |  |  | -30 | 3.85 | -0.501 | -0.0003 | -2.5 to 2.5 | Pass |
|  |  |  |  | -20 | 3.85 | -7.010 | -0.0040 | -2.5 to 2.5 | Pass |
|  |  |  |  | -10 | 3.85 | 0.243  | 0.0001  | -2.5 to 2.5 | Pass |
|  |  |  |  | 0   | 3.85 | -3.104 | -0.0018 | -2.5 to 2.5 | Pass |
|  |  |  |  | 10  | 3.85 | -2.875 | -0.0016 | -2.5 to 2.5 | Pass |
|  |  |  |  | 30  | 3.85 | -6.351 | -0.0036 | -2.5 to 2.5 | Pass |
|  |  |  |  | 40  | 3.85 | 4.134  | 0.0024  | -2.5 to 2.5 | Pass |
|  |  |  |  | 50  | 3.85 | -9.527 | -0.0054 | -2.5 to 2.5 | Pass |

## 2.4 B4\_10MHz

### 2.4.1 Test Result

| 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          | -7.997           | -0.0047               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 3.85          | -2.789           | -0.0016               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 4.43          | -3.862           | -0.0023               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         | -30         | 3.85          | -6.008           | -0.0035               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | -20           | 3.85             | -7.210                | -0.0042     | -2.5 to 2.5 | Pass        |
|                            |                 |               |         |             |               | -10              | 3.85                  | -3.862      | -0.0023     | -2.5 to 2.5 |
|                            |                 |               |         | 0           | 3.85          | -6.967           | -0.0041               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 10            | 3.85             | -7.925                | -0.0046     | -2.5 to 2.5 | Pass        |
|                            |                 |               |         | 30          | 3.85          | -2.747           | -0.0016               | -2.5 to 2.5 | Pass        |             |
|                            | 40              | 3.85          | -1.588  | -0.0009     | -2.5 to 2.5   | Pass             |                       |             |             |             |
|                            | 50              | 3.85          | -7.296  | -0.0043     | -2.5 to 2.5   | Pass             |                       |             |             |             |
|                            | 1732.5          | 50            | 0       | 20          | 3.27          | -4.406           | -0.0025               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 3.85          | -7.296           | -0.0042               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 4.43          | -7.768           | -0.0045               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         | -30         | 3.85          | -1.574           | -0.0009               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | -20           | 3.85             | -0.129                | -0.0001     | -2.5 to 2.5 | Pass        |
|                            |                 |               |         |             |               | -10              | 3.85                  | -1.974      | -0.0011     | -2.5 to 2.5 |
|                            |                 |               |         | 0           | 3.85          | 4.249            | 0.0025                | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 10            | 3.85             | -12.131               | -0.0070     | -2.5 to 2.5 | Pass        |
|                            |                 |               |         | 30          | 3.85          | -7.596           | -0.0044               | -2.5 to 2.5 | Pass        |             |
|                            | 40              | 3.85          | -6.680  | -0.0039     | -2.5 to 2.5   | Pass             |                       |             |             |             |
|                            | 50              | 3.85          | -9.427  | -0.0054     | -2.5 to 2.5   | Pass             |                       |             |             |             |
|                            | 1750            | 50            | 0       | 20          | 3.27          | -8.340           | -0.0048               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 3.85          | -5.651           | -0.0032               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 4.43          | -5.121           | -0.0029               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         | -30         | 3.85          | -4.320           | -0.0025               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | -20           | 3.85             | -3.147                | -0.0018     | -2.5 to 2.5 | Pass        |
| -10                        |                 |               |         |             |               | 3.85             | -6.309                | -0.0036     | -2.5 to 2.5 | Pass        |
| 0                          |                 |               |         | 3.85        | -3.047        | -0.0017          | -2.5 to 2.5           | Pass        |             |             |
|                            |                 |               |         | 10          | 3.85          | -3.605           | -0.0021               | -2.5 to 2.5 | Pass        |             |
| 30                         |                 |               |         | 3.85        | -3.190        | -0.0018          | -2.5 to 2.5           | Pass        |             |             |
| 40                         | 3.85            | -3.390        | -0.0019 | -2.5 to 2.5 | Pass          |                  |                       |             |             |             |
| 50                         | 3.85            | -4.778        | -0.0027 | -2.5 to 2.5 | Pass          |                  |                       |             |             |             |
| 16QAM                      | 1715            | 50            | 0       | 20          | 3.27          | -2.990           | -0.0017               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 3.85          | -5.393           | -0.0031               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 4.43          | -7.038           | -0.0041               | -2.5 to 2.5 | Pass        |             |

|    |        |        |         |      |      |         |             |             |         |
|----|--------|--------|---------|------|------|---------|-------------|-------------|---------|
|    |        |        |         | -30  | 3.85 | -5.536  | -0.0032     | -2.5 to 2.5 | Pass    |
|    |        |        |         | -20  | 3.85 | -3.190  | -0.0019     | -2.5 to 2.5 | Pass    |
|    |        |        |         | -10  | 3.85 | -9.041  | -0.0053     | -2.5 to 2.5 | Pass    |
|    |        |        |         | 0    | 3.85 | -3.090  | -0.0018     | -2.5 to 2.5 | Pass    |
|    |        |        |         | 10   | 3.85 | -8.698  | -0.0051     | -2.5 to 2.5 | Pass    |
|    |        |        |         | 30   | 3.85 | -4.778  | -0.0028     | -2.5 to 2.5 | Pass    |
|    |        |        |         | 40   | 3.85 | -6.094  | -0.0036     | -2.5 to 2.5 | Pass    |
|    |        |        |         | 50   | 3.85 | -1.216  | -0.0007     | -2.5 to 2.5 | Pass    |
|    | 1732.5 | 50     | 0       | 20   | 3.27 | 1.345   | 0.0008      | -2.5 to 2.5 | Pass    |
|    |        |        |         |      | 3.85 | 1.473   | 0.0009      | -2.5 to 2.5 | Pass    |
|    |        |        |         |      | 4.43 | -8.512  | -0.0049     | -2.5 to 2.5 | Pass    |
|    |        |        |         | -30  | 3.85 | -1.960  | -0.0011     | -2.5 to 2.5 | Pass    |
|    |        |        |         | -20  | 3.85 | -10.929 | -0.0063     | -2.5 to 2.5 | Pass    |
|    |        |        |         | -10  | 3.85 | -7.868  | -0.0045     | -2.5 to 2.5 | Pass    |
|    |        |        |         | 0    | 3.85 | -7.324  | -0.0042     | -2.5 to 2.5 | Pass    |
|    |        |        |         | 10   | 3.85 | -0.086  | 0.0000      | -2.5 to 2.5 | Pass    |
|    |        |        |         | 30   | 3.85 | -1.044  | -0.0006     | -2.5 to 2.5 | Pass    |
|    |        |        |         | 40   | 3.85 | -2.604  | -0.0015     | -2.5 to 2.5 | Pass    |
|    |        |        |         | 50   | 3.85 | -7.625  | -0.0044     | -2.5 to 2.5 | Pass    |
|    |        |        |         | 1750 | 50   | 0       | 20          | 3.27        | -10.200 |
|    | 3.85   | -0.987 | -0.0006 |      |      |         |             | -2.5 to 2.5 | Pass    |
|    | 4.43   | -4.120 | -0.0024 |      |      |         |             | -2.5 to 2.5 | Pass    |
|    | -30    | 3.85   | -3.505  |      |      |         | -0.0020     | -2.5 to 2.5 | Pass    |
|    | -20    | 3.85   | -5.465  |      |      |         | -0.0031     | -2.5 to 2.5 | Pass    |
|    | -10    | 3.85   | -3.834  |      |      |         | -0.0022     | -2.5 to 2.5 | Pass    |
|    | 0      | 3.85   | -0.787  |      |      |         | -0.0004     | -2.5 to 2.5 | Pass    |
|    | 10     | 3.85   | -5.207  |      |      |         | -0.0030     | -2.5 to 2.5 | Pass    |
|    | 30     | 3.85   | -5.922  |      |      |         | -0.0034     | -2.5 to 2.5 | Pass    |
| 40 | 3.85   | -4.706 | -0.0027 |      |      |         | -2.5 to 2.5 | Pass        |         |
| 50 | 3.85   | -7.439 | -0.0043 |      |      |         | -2.5 to 2.5 | Pass        |         |

## 2.5 B4\_15MHz

### 2.5.1 Test Result

| 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          | -3.290           | -0.0019               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         |            | 3.85          | -9.828           | -0.0057               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         |            | 4.43          | -6.566           | -0.0038               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -30        | 3.85          | -4.249           | -0.0025               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -20        | 3.85          | -7.524           | -0.0044               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -10        | 3.85          | -5.064           | -0.0029               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 0          | 3.85          | -7.381           | -0.0043               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 10         | 3.85          | -0.229           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 30         | 3.85          | -4.406           | -0.0026               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 40         | 3.85          | -4.864           | -0.0028               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 50         | 3.85          | -5.922           | -0.0034               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 1732.5     | 75            | 0                | 20                    | 3.27        | -9.155  |
|                            | 3.85            | -5.178        | -0.0030 |            |               |                  |                       | -2.5 to 2.5 | Pass    |
|                            | 4.43            | -5.808        | -0.0034 |            |               |                  |                       | -2.5 to 2.5 | Pass    |
|                            | -30             | 3.85          | -4.692  |            |               |                  | -0.0027               | -2.5 to 2.5 | Pass    |

|        |        |         |             |             |             |         |             |             |      |        |         |             |      |
|--------|--------|---------|-------------|-------------|-------------|---------|-------------|-------------|------|--------|---------|-------------|------|
|        |        |         |             | -20         | 3.85        | -8.411  | -0.0049     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             | -10         | 3.85        | -8.554  | -0.0049     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             | 0           | 3.85        | -2.861  | -0.0017     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             | 10          | 3.85        | -4.892  | -0.0028     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             | 30          | 3.85        | -2.503  | -0.0014     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             | 40          | 3.85        | -3.719  | -0.0021     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             | 50          | 3.85        | -6.323  | -0.0036     | -2.5 to 2.5 | Pass |        |         |             |      |
|        | 1747.5 | 75      | 0           | 20          | 3.27        | -2.789  | -0.0016     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             |             | 3.85        | -6.480  | -0.0037     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             |             | 4.43        | -4.706  | -0.0027     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             | -30         | 3.85        | -8.683  | -0.0050     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             | -20         | 3.85        | -6.509  | -0.0037     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             | -10         | 3.85        | -8.111  | -0.0046     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             | 0           | 3.85        | -4.578  | -0.0026     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             | 10          | 3.85        | -0.658  | -0.0004     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             | 30          | 3.85        | -1.373  | -0.0008     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             | 40          | 3.85        | -7.124  | -0.0041     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             | 50          | 3.85        | -4.807  | -0.0028     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             | 16QAM       | 1717.5      | 75      | 0           | 20          | 3.27 | -2.961 | -0.0017 | -2.5 to 2.5 | Pass |
|        |        |         |             |             |             |         |             |             | 3.85 | -0.958 | -0.0006 | -2.5 to 2.5 | Pass |
| 4.43   | -6.824 | -0.0040 | -2.5 to 2.5 |             |             |         |             |             | Pass |        |         |             |      |
| -30    | 3.85   | -1.659  | -0.0010     |             |             |         |             | -2.5 to 2.5 | Pass |        |         |             |      |
| -20    | 3.85   | -7.925  | -0.0046     |             |             |         |             | -2.5 to 2.5 | Pass |        |         |             |      |
| -10    | 3.85   | -3.405  | -0.0020     |             |             |         |             | -2.5 to 2.5 | Pass |        |         |             |      |
| 0      | 3.85   | 0.916   | 0.0005      |             |             |         |             | -2.5 to 2.5 | Pass |        |         |             |      |
| 10     | 3.85   | -3.018  | -0.0018     |             |             |         |             | -2.5 to 2.5 | Pass |        |         |             |      |
| 30     | 3.85   | -4.606  | -0.0027     |             | -2.5 to 2.5 | Pass    |             |             |      |        |         |             |      |
| 40     | 3.85   | 1.130   | 0.0007      |             | -2.5 to 2.5 | Pass    |             |             |      |        |         |             |      |
| 50     | 3.85   | -4.835  | -0.0028     |             | -2.5 to 2.5 | Pass    |             |             |      |        |         |             |      |
| 1732.5 | 75     | 0       | 20          |             | 3.27        | -6.609  | -0.0038     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             |             | 3.85        | -7.367  | -0.0043     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         |             |             | 4.43        | -8.755  | -0.0051     | -2.5 to 2.5 | Pass |        |         |             |      |
|        |        |         | -30         | 3.85        | -1.974      | -0.0011 | -2.5 to 2.5 | Pass        |      |        |         |             |      |
|        |        |         | -20         | 3.85        | -3.777      | -0.0022 | -2.5 to 2.5 | Pass        |      |        |         |             |      |
|        |        |         | -10         | 3.85        | -6.409      | -0.0037 | -2.5 to 2.5 | Pass        |      |        |         |             |      |
| 1747.5 | 75     | 0       | 20          | 3.27        | -6.752      | -0.0039 | -2.5 to 2.5 | Pass        |      |        |         |             |      |
|        |        |         |             | 3.85        | -5.593      | -0.0032 | -2.5 to 2.5 | Pass        |      |        |         |             |      |
|        |        |         |             | 4.43        | -1.159      | -0.0007 | -2.5 to 2.5 | Pass        |      |        |         |             |      |
|        |        |         | -30         | 3.85        | -1.330      | -0.0008 | -2.5 to 2.5 | Pass        |      |        |         |             |      |
|        |        |         | -20         | 3.85        | -2.046      | -0.0012 | -2.5 to 2.5 | Pass        |      |        |         |             |      |
|        |        |         | -10         | 3.85        | -0.157      | -0.0001 | -2.5 to 2.5 | Pass        |      |        |         |             |      |
|        |        |         | 0           | 3.85        | -0.815      | -0.0005 | -2.5 to 2.5 | Pass        |      |        |         |             |      |
|        |        |         | 10          | 3.85        | -3.433      | -0.0020 | -2.5 to 2.5 | Pass        |      |        |         |             |      |
| 30     | 3.85   | -4.034  | -0.0023     | -2.5 to 2.5 | Pass        |         |             |             |      |        |         |             |      |
| 40     | 3.85   | -2.160  | -0.0012     | -2.5 to 2.5 | Pass        |         |             |             |      |        |         |             |      |
| 50     | 3.85   | 0.944   | 0.0005      | -2.5 to 2.5 | Pass        |         |             |             |      |        |         |             |      |



2.6 B4\_20MHz

2.6.1 Test Result

| 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          | -3.076           | -0.0018               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 3.85          | -5.021           | -0.0029               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 4.43          | -6.723           | -0.0039               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         | -30         | 3.85          | -5.121           | -0.0030               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | -20           | 3.85             | -7.868                | -0.0046     | -2.5 to 2.5 | Pass        |
|                            |                 |               |         |             |               | -10              | 3.85                  | -3.233      | -0.0019     | -2.5 to 2.5 |
|                            |                 |               |         | 0           | 3.85          | -4.406           | -0.0026               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 10            | 3.85             | -2.232                | -0.0013     | -2.5 to 2.5 | Pass        |
|                            |                 |               |         | 30          | 3.85          | -0.401           | -0.0002               | -2.5 to 2.5 | Pass        |             |
|                            | 40              | 3.85          | -5.007  | -0.0029     | -2.5 to 2.5   | Pass             |                       |             |             |             |
|                            | 50              | 3.85          | -7.896  | -0.0046     | -2.5 to 2.5   | Pass             |                       |             |             |             |
|                            | 1732.5          | 100           | 0       | 20          | 3.27          | -8.025           | -0.0046               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 3.85          | 0.544            | 0.0003                | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 4.43          | -1.388           | -0.0008               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         | -30         | 3.85          | -3.233           | -0.0019               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | -20           | 3.85             | 6.251                 | 0.0036      | -2.5 to 2.5 | Pass        |
|                            |                 |               |         |             |               | -10              | 3.85                  | 2.747       | 0.0016      | -2.5 to 2.5 |
|                            |                 |               |         | 0           | 3.85          | -1.988           | -0.0011               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 10            | 3.85             | -2.561                | -0.0015     | -2.5 to 2.5 | Pass        |
|                            |                 |               |         | 30          | 3.85          | -6.251           | -0.0036               | -2.5 to 2.5 | Pass        |             |
|                            | 40              | 3.85          | -5.064  | -0.0029     | -2.5 to 2.5   | Pass             |                       |             |             |             |
|                            | 50              | 3.85          | -3.705  | -0.0021     | -2.5 to 2.5   | Pass             |                       |             |             |             |
|                            | 1745            | 100           | 0       | 20          | 3.27          | -3.662           | -0.0021               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 3.85          | -9.112           | -0.0052               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 4.43          | -0.730           | -0.0004               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         | -30         | 3.85          | -4.163           | -0.0024               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | -20           | 3.85             | -7.682                | -0.0044     | -2.5 to 2.5 | Pass        |
| -10                        |                 |               |         |             |               | 3.85             | -4.134                | -0.0024     | -2.5 to 2.5 | Pass        |
| 0                          |                 |               |         | 3.85        | -3.290        | -0.0019          | -2.5 to 2.5           | Pass        |             |             |
|                            |                 |               |         | 10          | 3.85          | -9.284           | -0.0053               | -2.5 to 2.5 | Pass        |             |
| 30                         |                 |               |         | 3.85        | -4.864        | -0.0028          | -2.5 to 2.5           | Pass        |             |             |
| 40                         | 3.85            | -6.051        | -0.0035 | -2.5 to 2.5 | Pass          |                  |                       |             |             |             |
| 50                         | 3.85            | -4.306        | -0.0025 | -2.5 to 2.5 | Pass          |                  |                       |             |             |             |
| 16QAM                      | 1720            | 100           | 0       | 20          | 3.27          | -7.553           | -0.0044               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 3.85          | -2.060           | -0.0012               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 4.43          | -8.755           | -0.0051               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         | -30         | 3.85          | -0.486           | -0.0003               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | -20           | 3.85             | -10.285               | -0.0060     | -2.5 to 2.5 | Pass        |
|                            |                 |               |         |             |               | -10              | 3.85                  | -2.990      | -0.0017     | -2.5 to 2.5 |
|                            |                 |               |         | 0           | 3.85          | -6.723           | -0.0039               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 10            | 3.85             | -11.044               | -0.0064     | -2.5 to 2.5 | Pass        |
|                            |                 |               |         | 30          | 3.85          | -2.246           | -0.0013               | -2.5 to 2.5 | Pass        |             |
|                            | 40              | 3.85          | -7.582  | -0.0044     | -2.5 to 2.5   | Pass             |                       |             |             |             |
|                            | 50              | 3.85          | -5.035  | -0.0029     | -2.5 to 2.5   | Pass             |                       |             |             |             |
|                            | 1732.5          | 100           | 0       | 20          | 3.27          | -4.120           | -0.0024               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 3.85          | -0.443           | -0.0003               | -2.5 to 2.5 | Pass        |             |
|                            |                 |               |         |             | 4.43          | -2.761           | -0.0016               | -2.5 to 2.5 | Pass        |             |

|  |      |        |         |         |             |        |         |             |        |         |             |      |
|--|------|--------|---------|---------|-------------|--------|---------|-------------|--------|---------|-------------|------|
|  |      |        |         | -30     | 3.85        | -0.129 | -0.0001 | -2.5 to 2.5 | Pass   |         |             |      |
|  |      |        |         | -20     | 3.85        | -4.220 | -0.0024 | -2.5 to 2.5 | Pass   |         |             |      |
|  |      |        |         | -10     | 3.85        | -4.091 | -0.0024 | -2.5 to 2.5 | Pass   |         |             |      |
|  |      |        |         | 0       | 3.85        | -6.638 | -0.0038 | -2.5 to 2.5 | Pass   |         |             |      |
|  |      |        |         | 10      | 3.85        | -1.531 | -0.0009 | -2.5 to 2.5 | Pass   |         |             |      |
|  |      |        |         | 30      | 3.85        | -0.873 | -0.0005 | -2.5 to 2.5 | Pass   |         |             |      |
|  |      |        |         | 40      | 3.85        | -7.796 | -0.0045 | -2.5 to 2.5 | Pass   |         |             |      |
|  |      |        |         | 50      | 3.85        | -9.341 | -0.0054 | -2.5 to 2.5 | Pass   |         |             |      |
|  |      |        |         | 1745    | 100         | 0      | 20      | 3.27        | -7.381 | -0.0042 | -2.5 to 2.5 | Pass |
|  |      |        |         |         |             |        |         | 3.85        | -6.752 | -0.0039 | -2.5 to 2.5 | Pass |
|  | 4.43 | -4.449 | -0.0025 |         |             |        |         | -2.5 to 2.5 | Pass   |         |             |      |
|  | -30  | 3.85   | -4.649  |         |             |        | -0.0027 | -2.5 to 2.5 | Pass   |         |             |      |
|  | -20  | 3.85   | -4.463  |         |             |        | -0.0026 | -2.5 to 2.5 | Pass   |         |             |      |
|  | -10  | 3.85   | -7.982  |         |             |        | -0.0046 | -2.5 to 2.5 | Pass   |         |             |      |
|  | 0    | 3.85   | -4.563  |         |             |        | -0.0026 | -2.5 to 2.5 | Pass   |         |             |      |
|  | 10   | 3.85   | -7.911  |         |             |        | -0.0045 | -2.5 to 2.5 | Pass   |         |             |      |
|  | 30   | 3.85   | -3.648  |         |             |        | -0.0021 | -2.5 to 2.5 | Pass   |         |             |      |
|  | 40   | 3.85   | -1.860  |         |             |        | -0.0011 | -2.5 to 2.5 | Pass   |         |             |      |
|  | 50   | 3.85   | -7.768  | -0.0045 | -2.5 to 2.5 | Pass   |         |             |        |         |             |      |

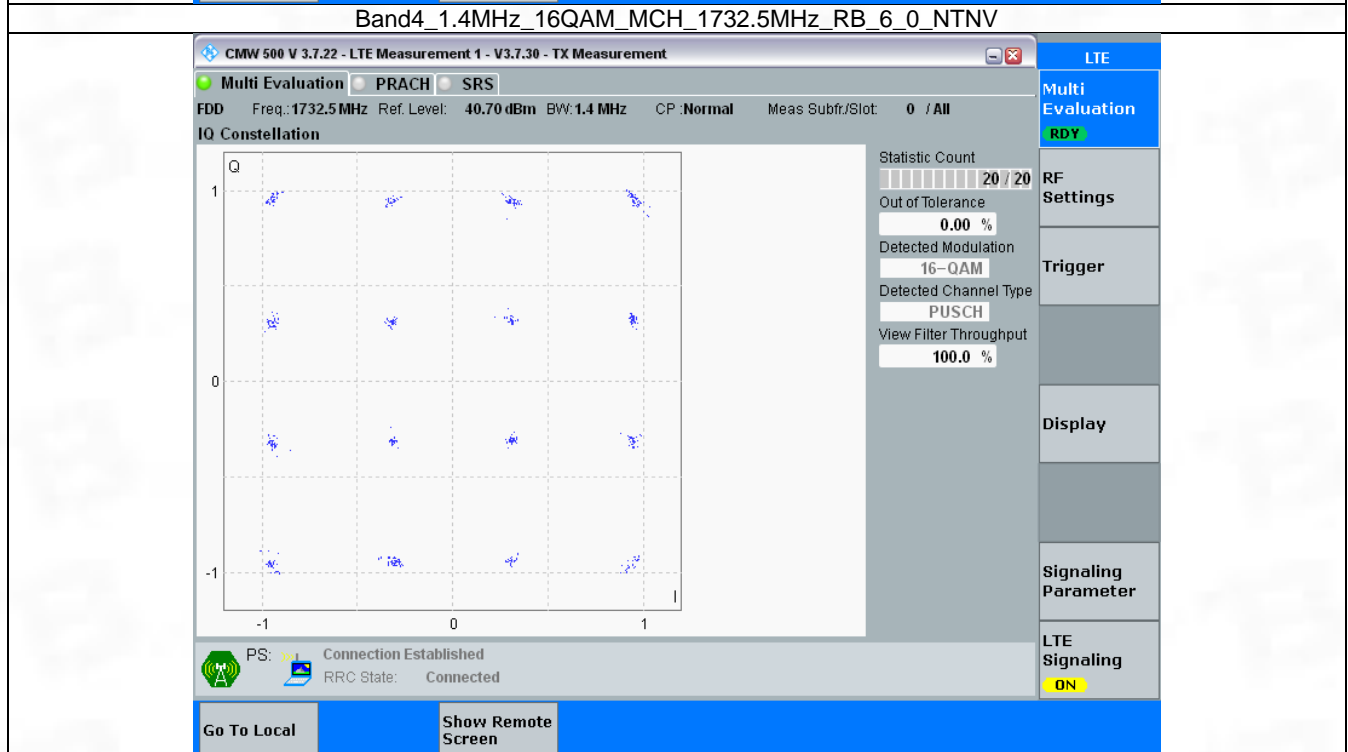
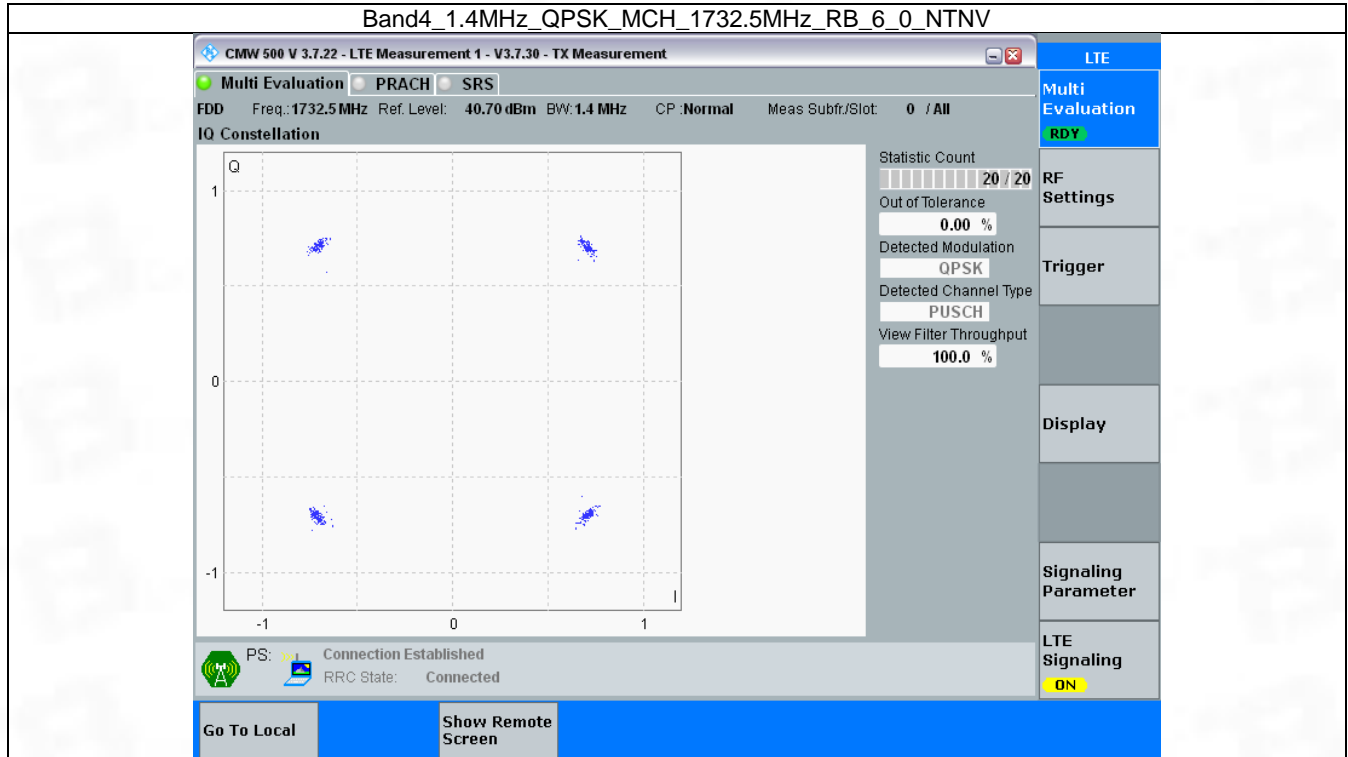
### 3. Modulation Characteristics

#### 3.1 B4\_1.4MHz

##### 3.1.1 Test Result

| Band: 4 / Bandwidth: 1.4MHz / NTN |                 |               |        |                            |       |         |
|-----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| 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 Test Graph





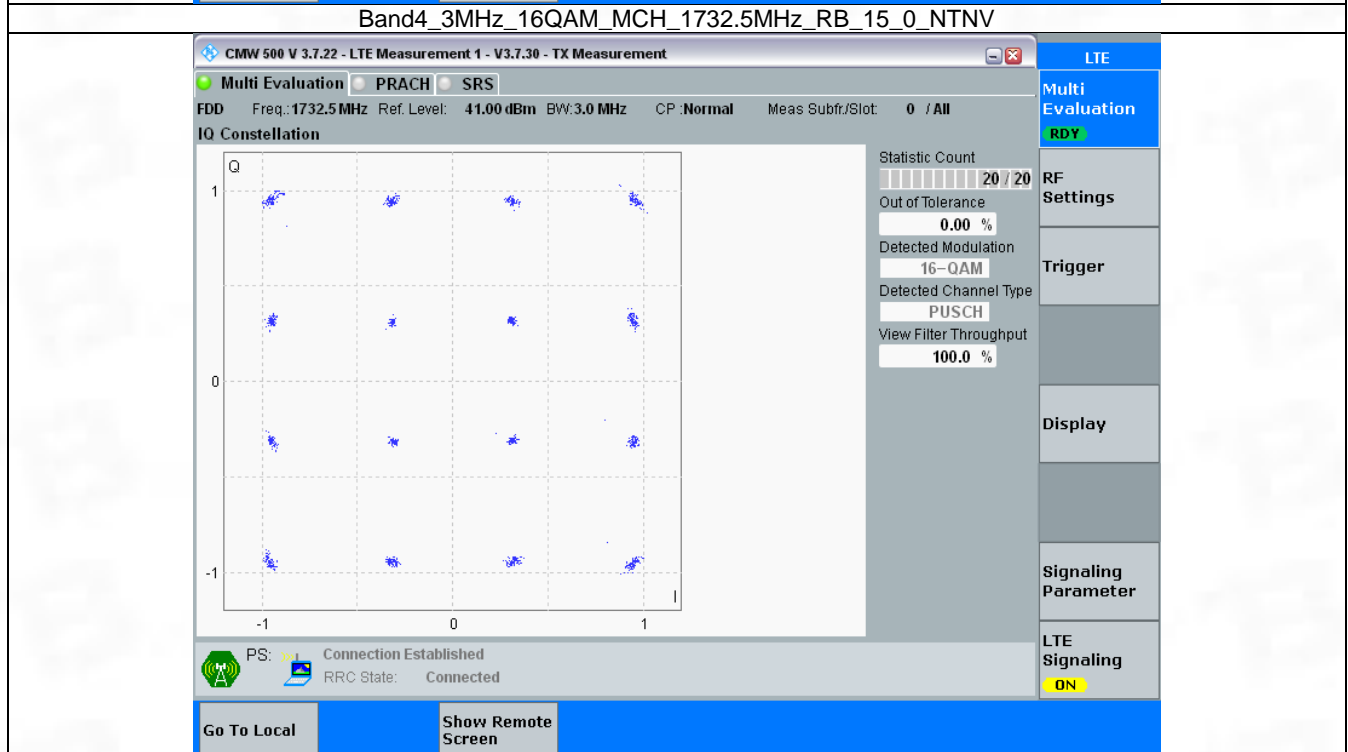
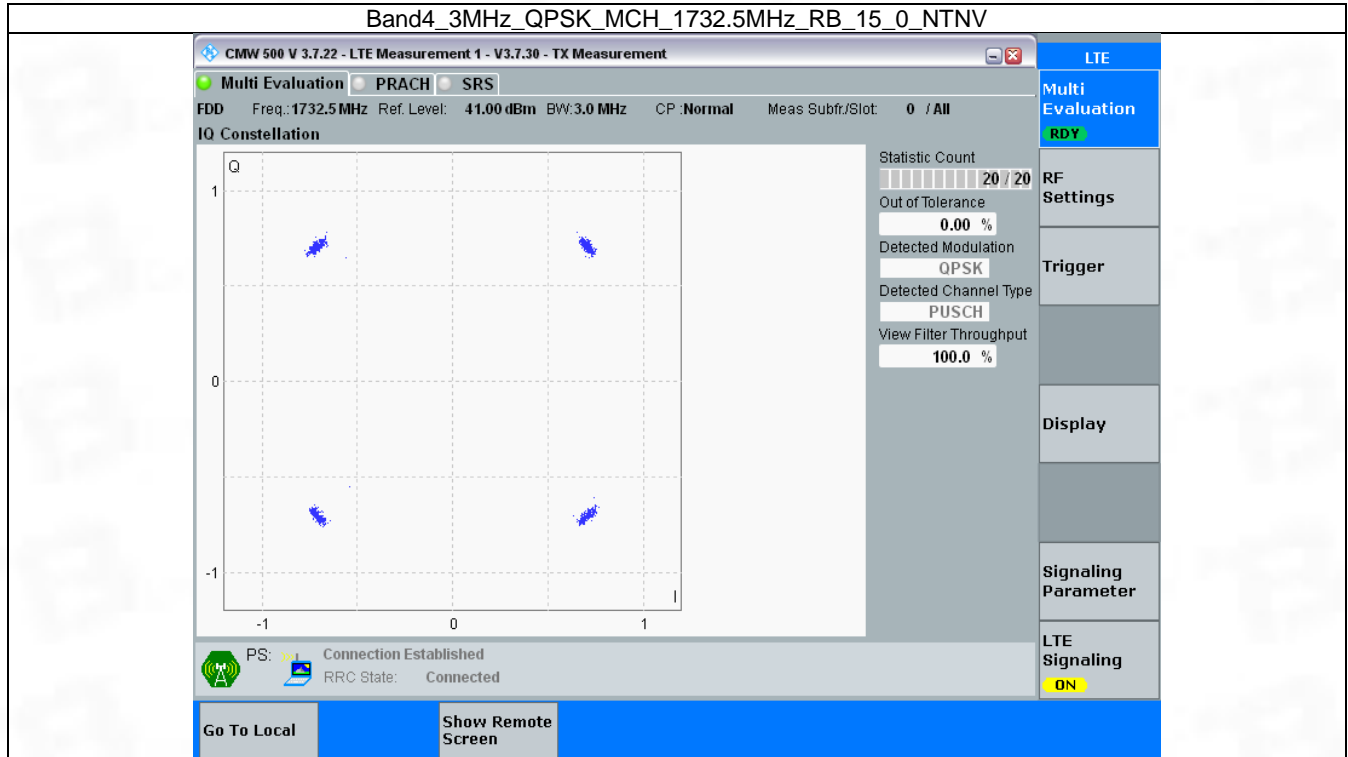


### 3.2 B4\_3MHz

#### 3.2.1 Test Result

| Band: 4 / Bandwidth: 3MHz / NTN |                 |               |        |                            |       |         |
|---------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| 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  |         |

### 3.2.2 Test Graph



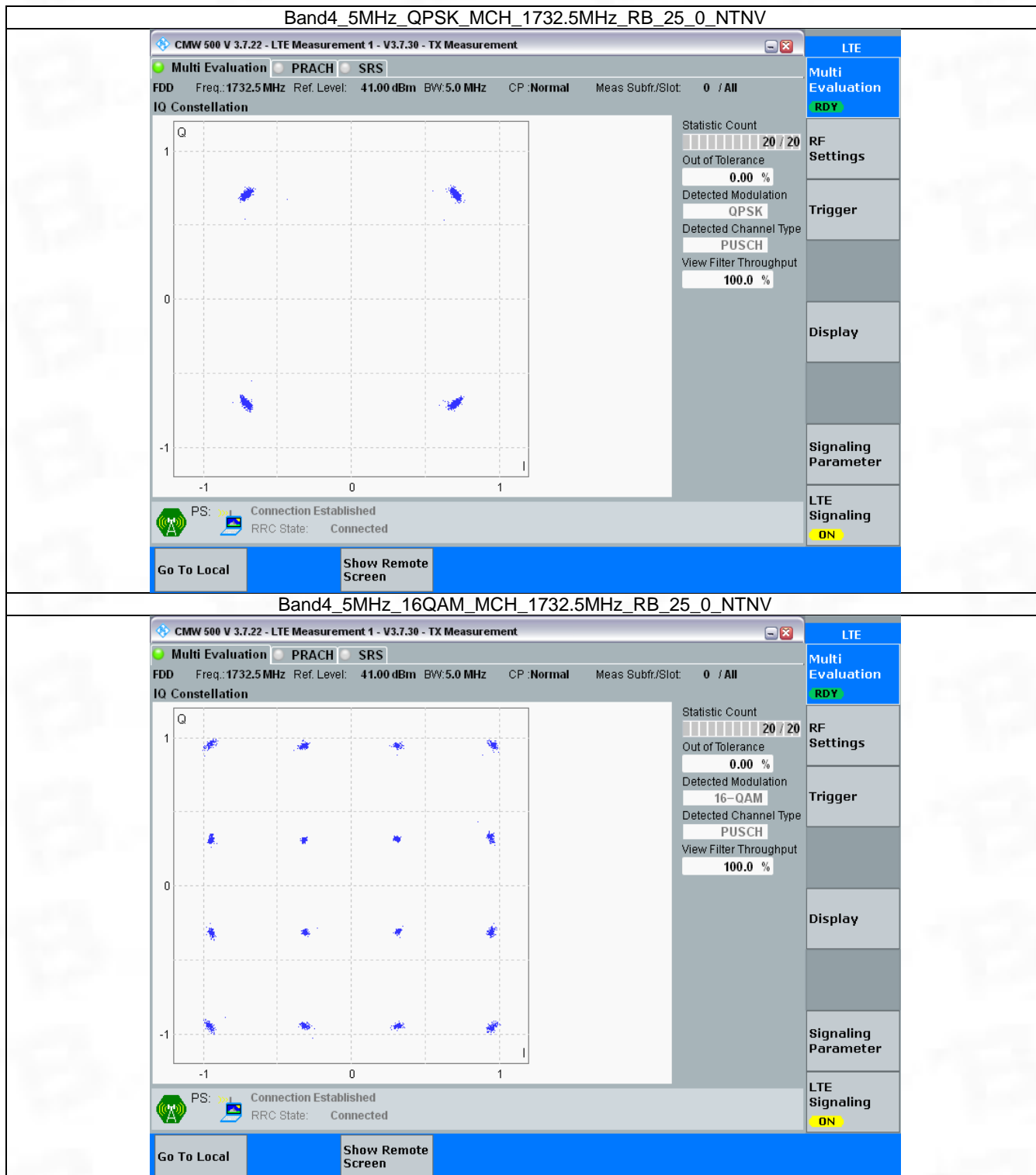


### 3.3 B4\_5MHz

#### 3.3.1 Test Result

| Band: 4 / Bandwidth: 5MHz / NTN |                 |               |        |                            |       |         |
|---------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| 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  |         |

### 3.3.2 Test Graph



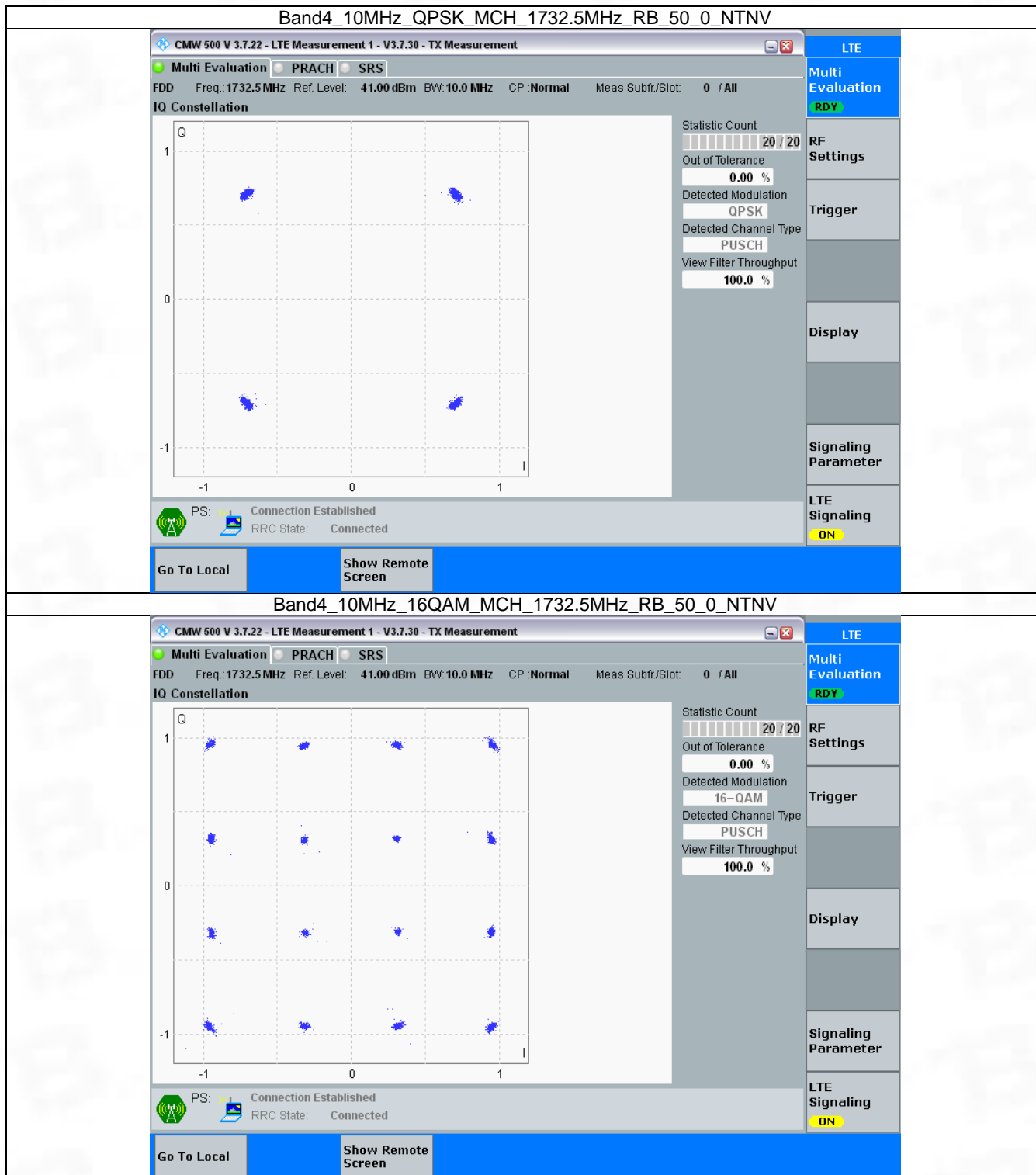


### 3.4 B4\_10MHz

#### 3.4.1 Test Result

| Band: 4 / Bandwidth: 10MHz / NTV |                 |               |        |                            |       |         |
|----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| 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  |         |

### 3.4.2 Test Graph



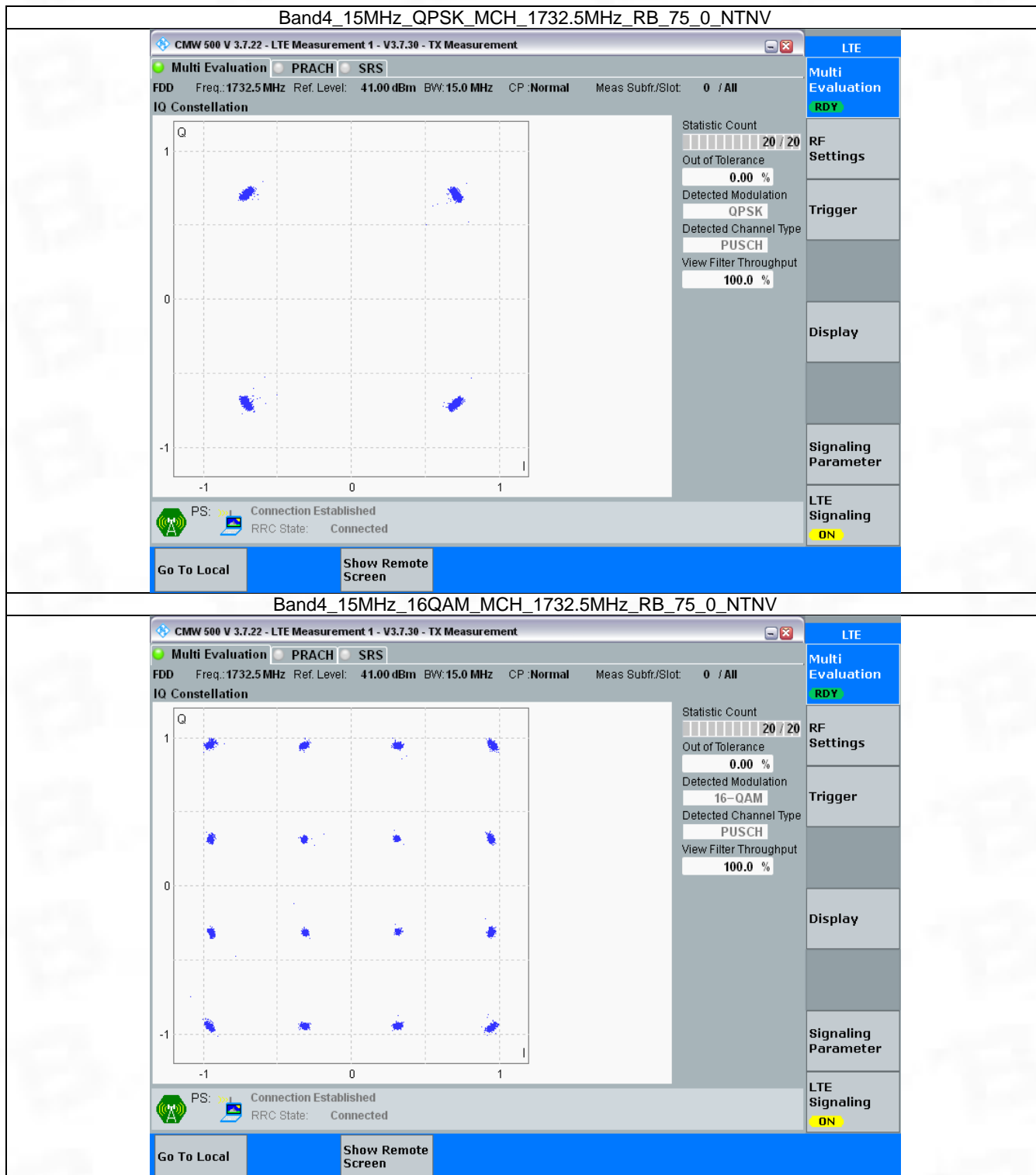


3.5 B4\_15MHz

3.5.1 Test Result

| Band: 4 / Bandwidth: 15MHz / NTN |                 |               |        |                            |       |         |
|----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| 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    |

### 3.5.2 Test Graph





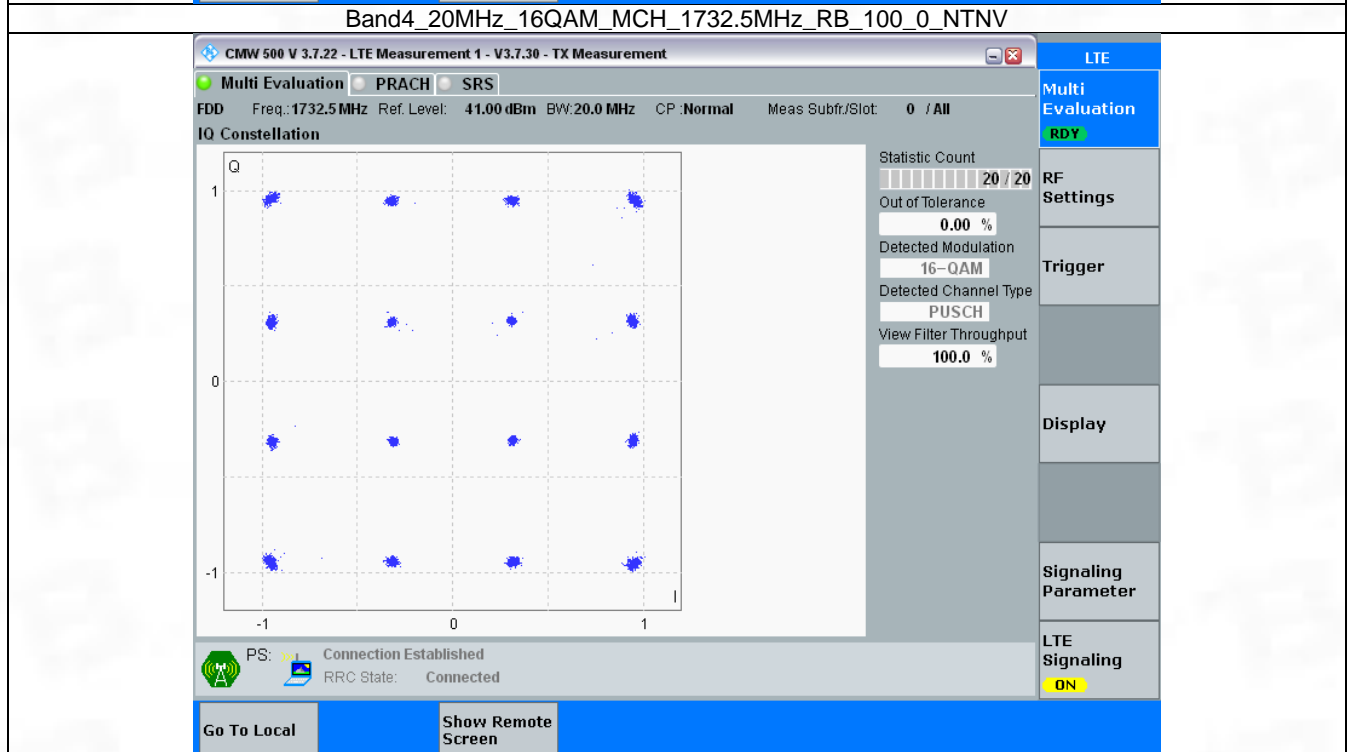
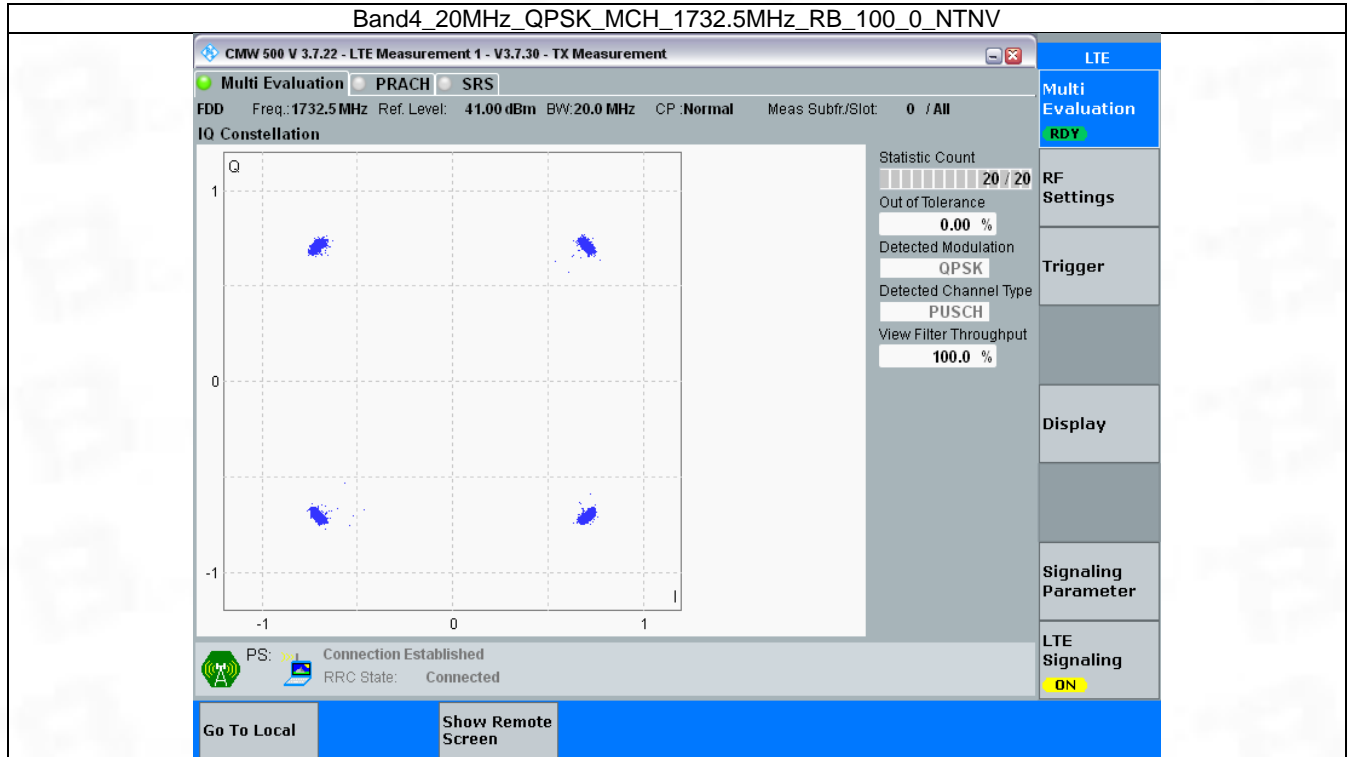


3.6 B4\_20MHz

3.6.1 Test Result

| 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  |         |

### 3.6.2 Test Graph



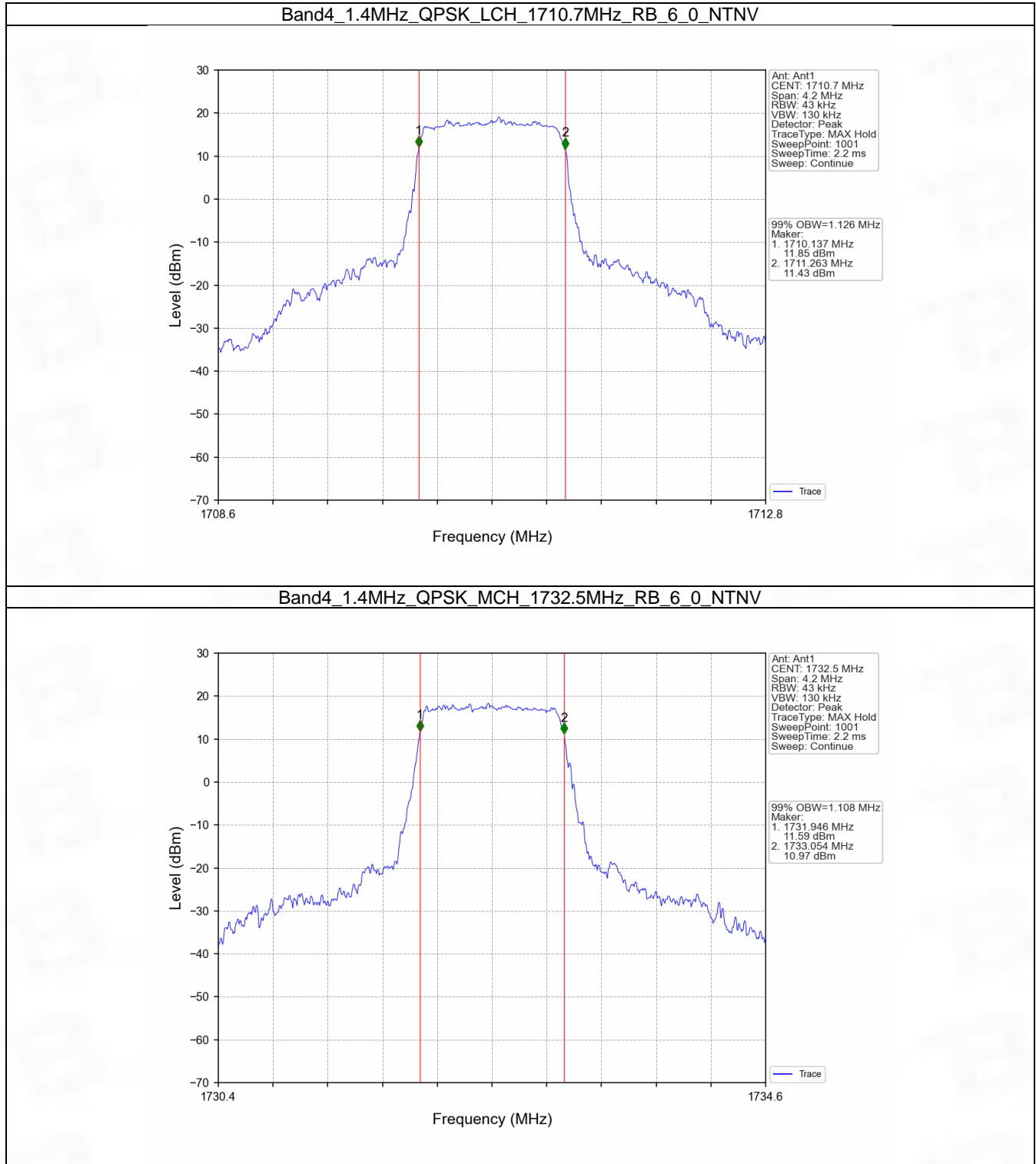
#### 4. 99% & 26dB Bandwidth

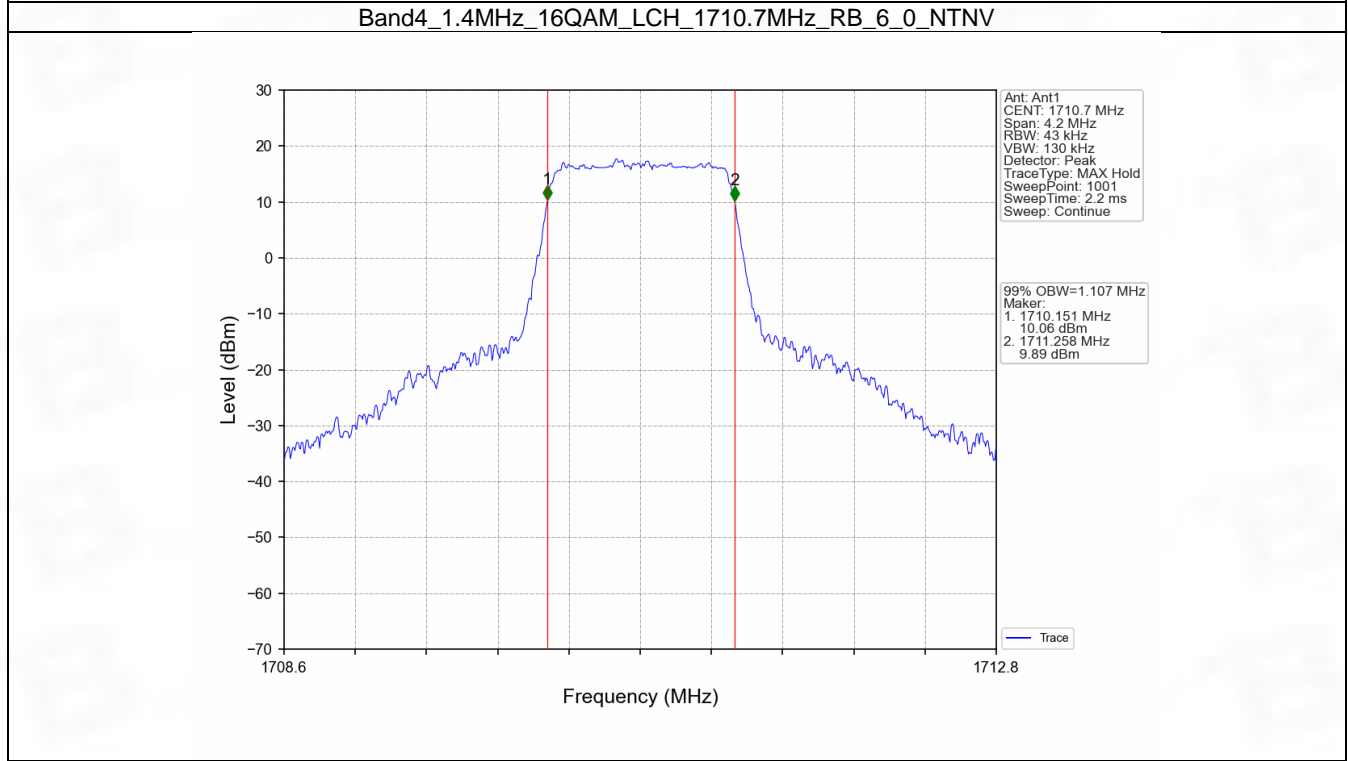
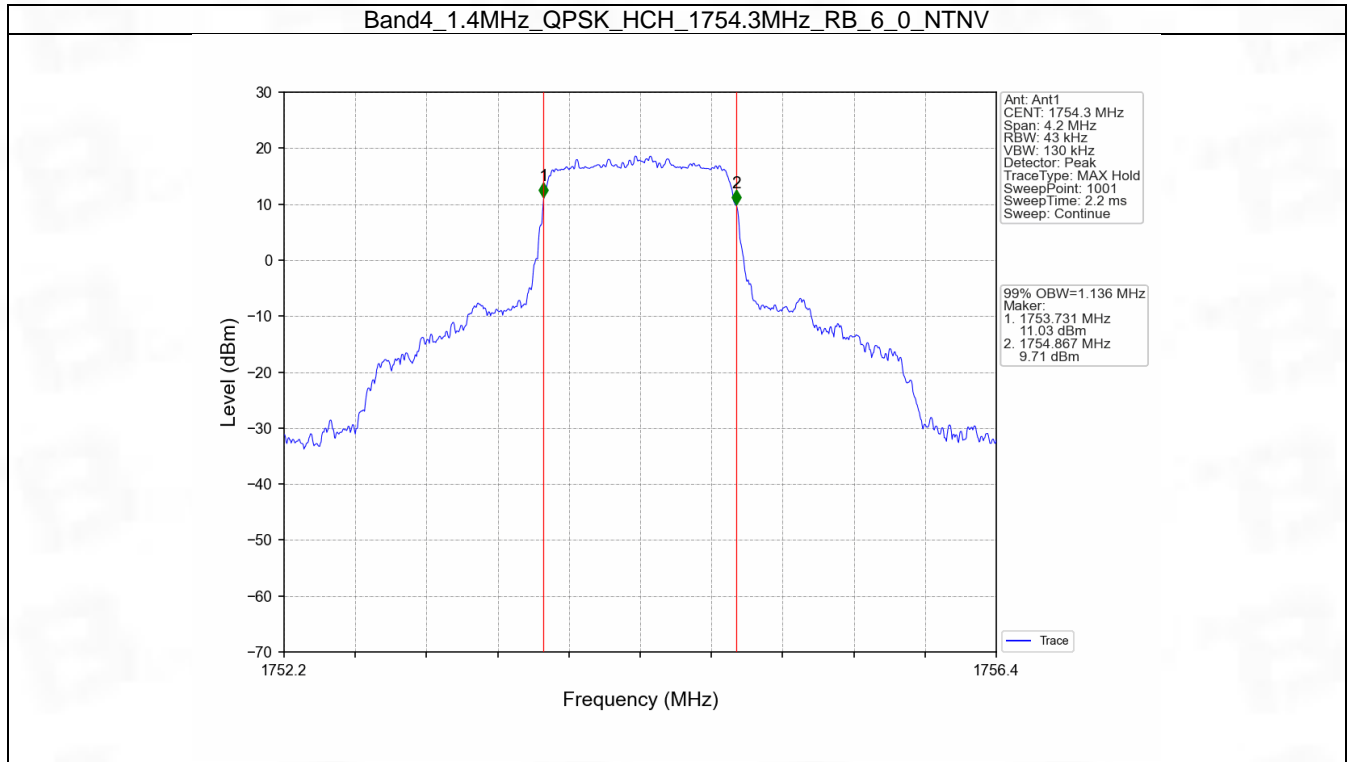
##### 4.1 Band4\_OBW

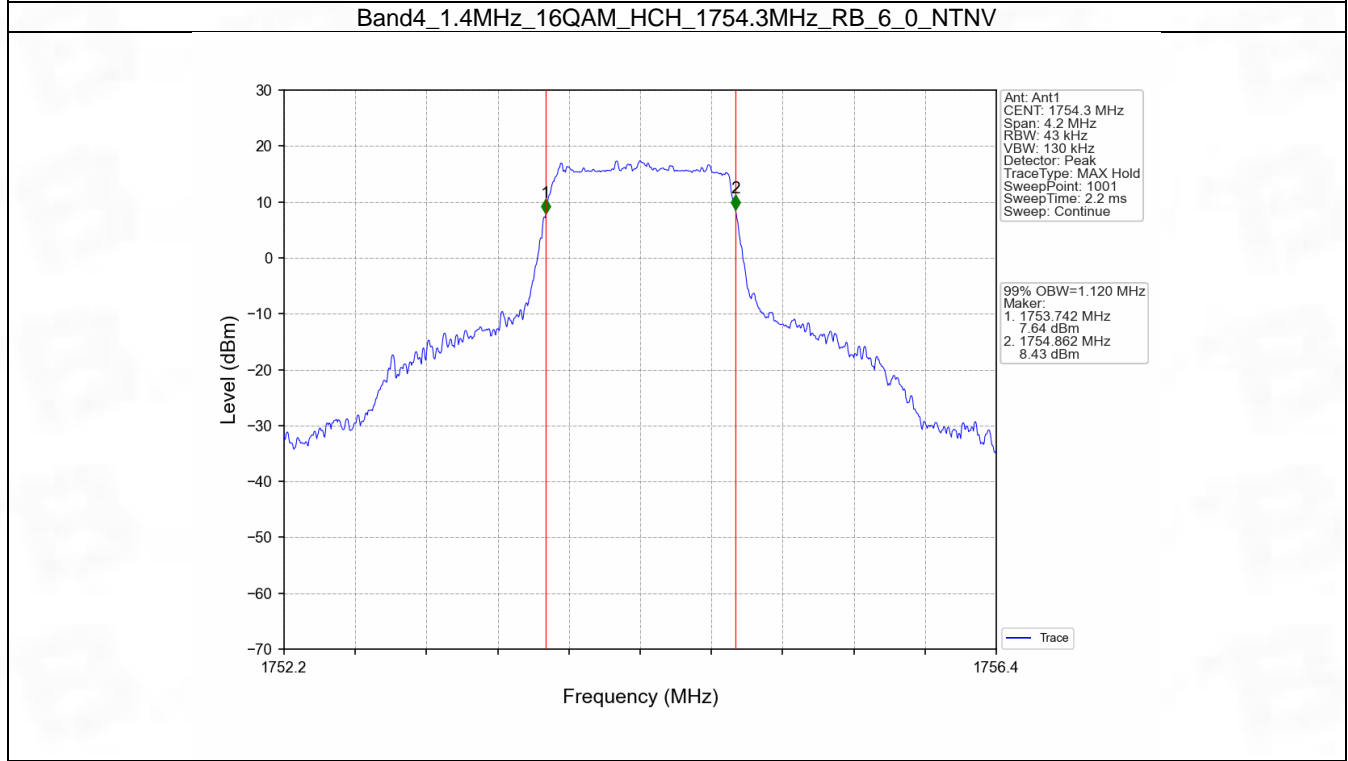
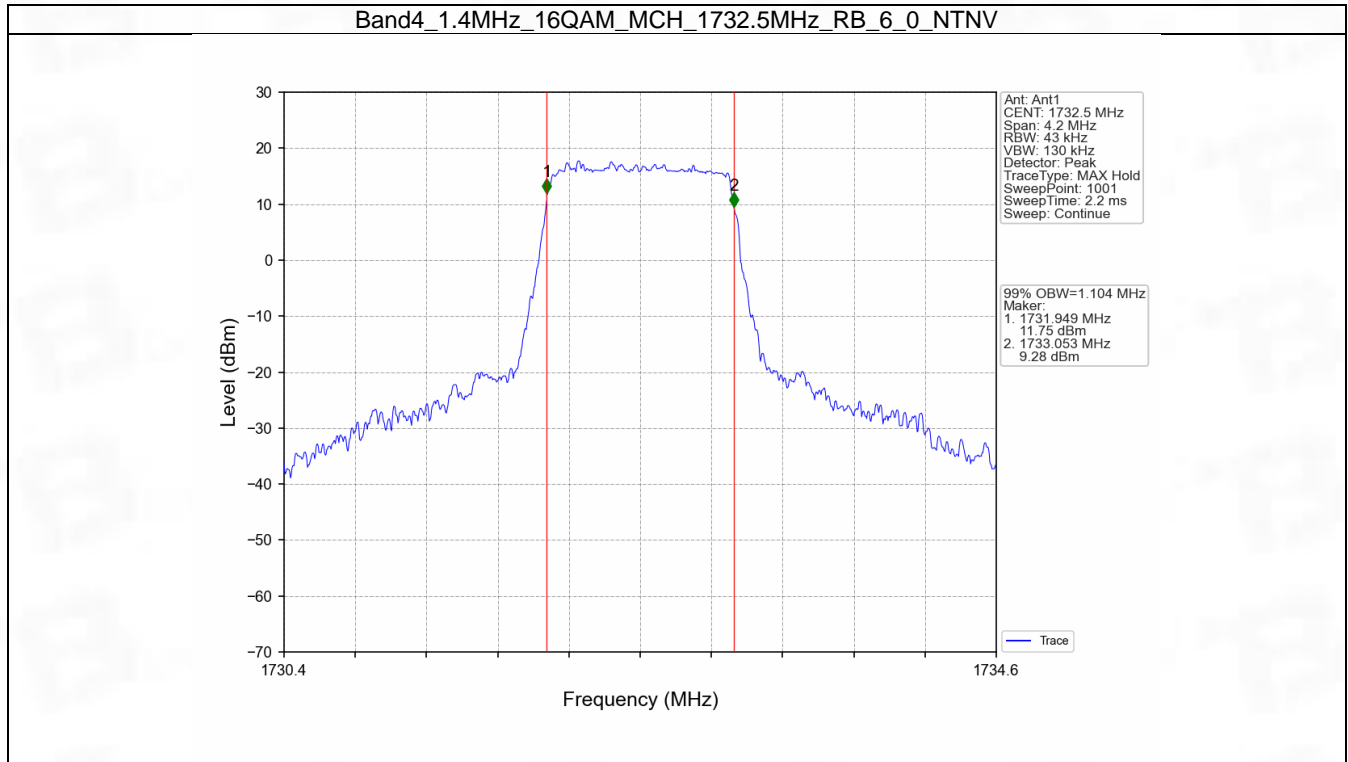
##### 4.1.1 Test Result

| Band: 4 / NTN   |            |                 |               |        |                              |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) | Verdict |
|                 |            |                 | Size          | Offset | Result                       |         |
| 1.4             | QPSK       | 1710.7          | 6             | 0      | 1.126                        | Pass    |
|                 |            | 1732.5          | 6             | 0      | 1.108                        | Pass    |
|                 |            | 1754.3          | 6             | 0      | 1.136                        | Pass    |
|                 | 16QAM      | 1710.7          | 6             | 0      | 1.107                        | Pass    |
|                 |            | 1732.5          | 6             | 0      | 1.104                        | Pass    |
|                 |            | 1754.3          | 6             | 0      | 1.120                        | Pass    |
| 3               | QPSK       | 1711.5          | 15            | 0      | 2.722                        | Pass    |
|                 |            | 1732.5          | 15            | 0      | 2.731                        | Pass    |
|                 |            | 1753.5          | 15            | 0      | 2.739                        | Pass    |
|                 | 16QAM      | 1711.5          | 15            | 0      | 2.722                        | Pass    |
|                 |            | 1732.5          | 15            | 0      | 2.719                        | Pass    |
|                 |            | 1753.5          | 15            | 0      | 2.740                        | Pass    |
| 5               | QPSK       | 1712.5          | 25            | 0      | 4.550                        | Pass    |
|                 |            | 1732.5          | 25            | 0      | 4.533                        | Pass    |
|                 |            | 1752.5          | 25            | 0      | 4.546                        | Pass    |
|                 | 16QAM      | 1712.5          | 25            | 0      | 4.534                        | Pass    |
|                 |            | 1732.5          | 25            | 0      | 4.528                        | Pass    |
|                 |            | 1752.5          | 25            | 0      | 4.554                        | Pass    |
| 10              | QPSK       | 1715            | 50            | 0      | 9.036                        | Pass    |
|                 |            | 1732.5          | 50            | 0      | 9.043                        | Pass    |
|                 |            | 1750            | 50            | 0      | 9.062                        | Pass    |
|                 | 16QAM      | 1715            | 50            | 0      | 9.027                        | Pass    |
|                 |            | 1732.5          | 50            | 0      | 9.043                        | Pass    |
|                 |            | 1750            | 50            | 0      | 9.078                        | Pass    |
| 15              | QPSK       | 1717.5          | 75            | 0      | 13.538                       | Pass    |
|                 |            | 1732.5          | 75            | 0      | 13.586                       | Pass    |
|                 |            | 1747.5          | 75            | 0      | 13.574                       | Pass    |
|                 | 16QAM      | 1717.5          | 75            | 0      | 13.562                       | Pass    |
|                 |            | 1732.5          | 75            | 0      | 13.599                       | Pass    |
|                 |            | 1747.5          | 75            | 0      | 13.614                       | Pass    |
| 20              | QPSK       | 1720            | 100           | 0      | 18.047                       | Pass    |
|                 |            | 1732.5          | 100           | 0      | 18.158                       | Pass    |
|                 |            | 1745            | 100           | 0      | 18.218                       | Pass    |
|                 | 16QAM      | 1720            | 100           | 0      | 18.045                       | Pass    |
|                 |            | 1732.5          | 100           | 0      | 18.129                       | Pass    |
|                 |            | 1745            | 100           | 0      | 18.115                       | Pass    |

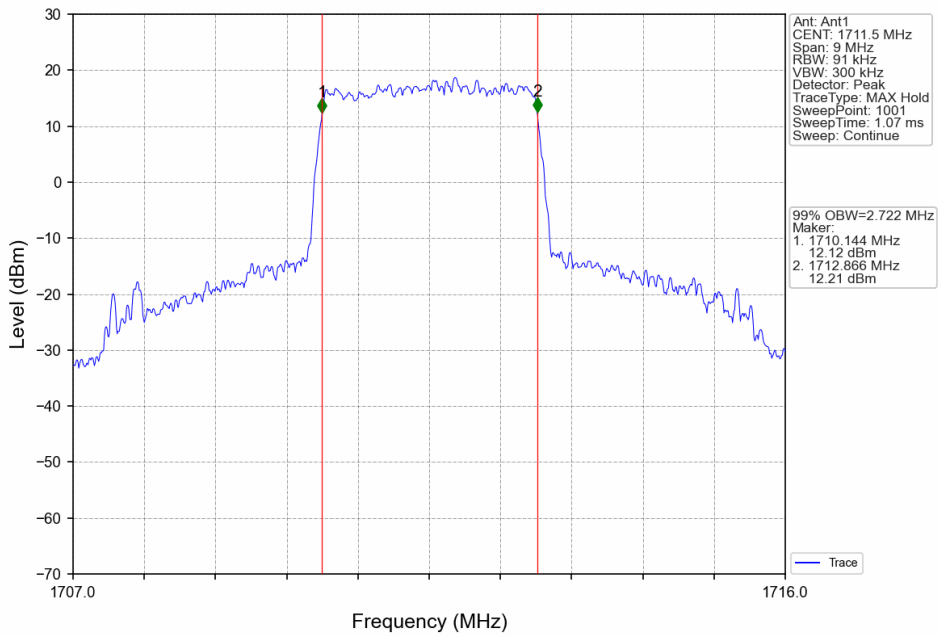
### 4.1.2 Test Graph



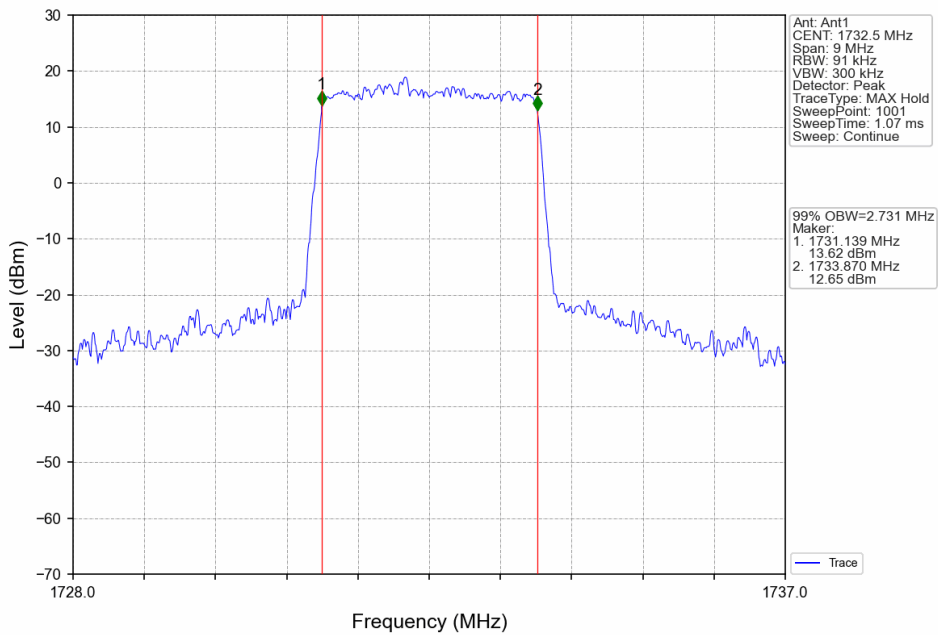




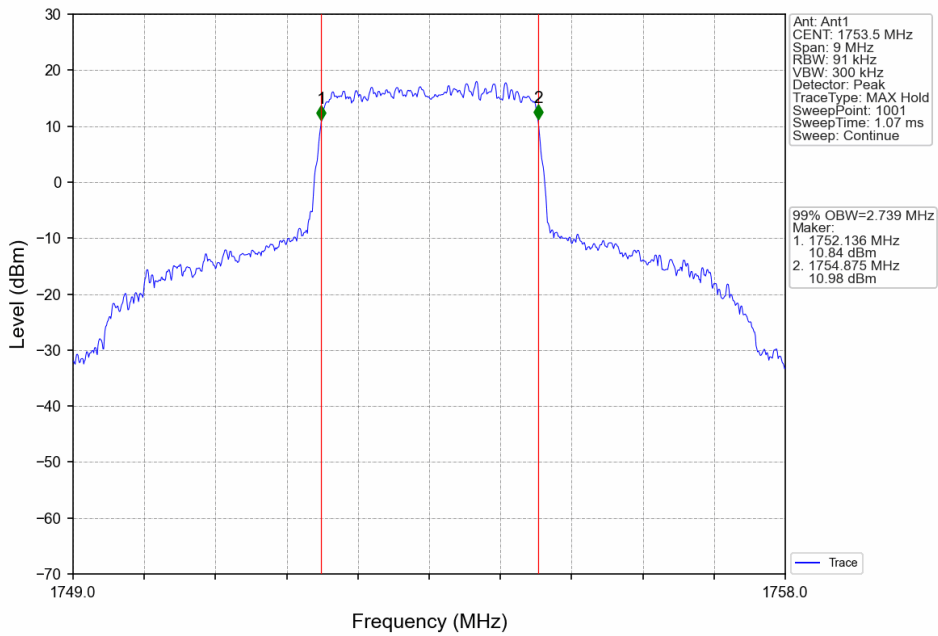
Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



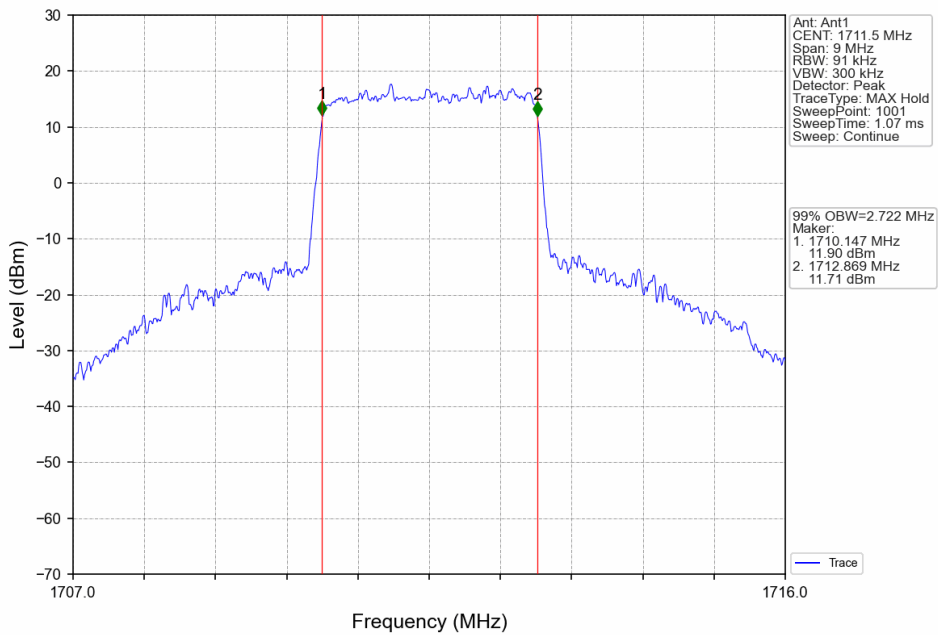
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



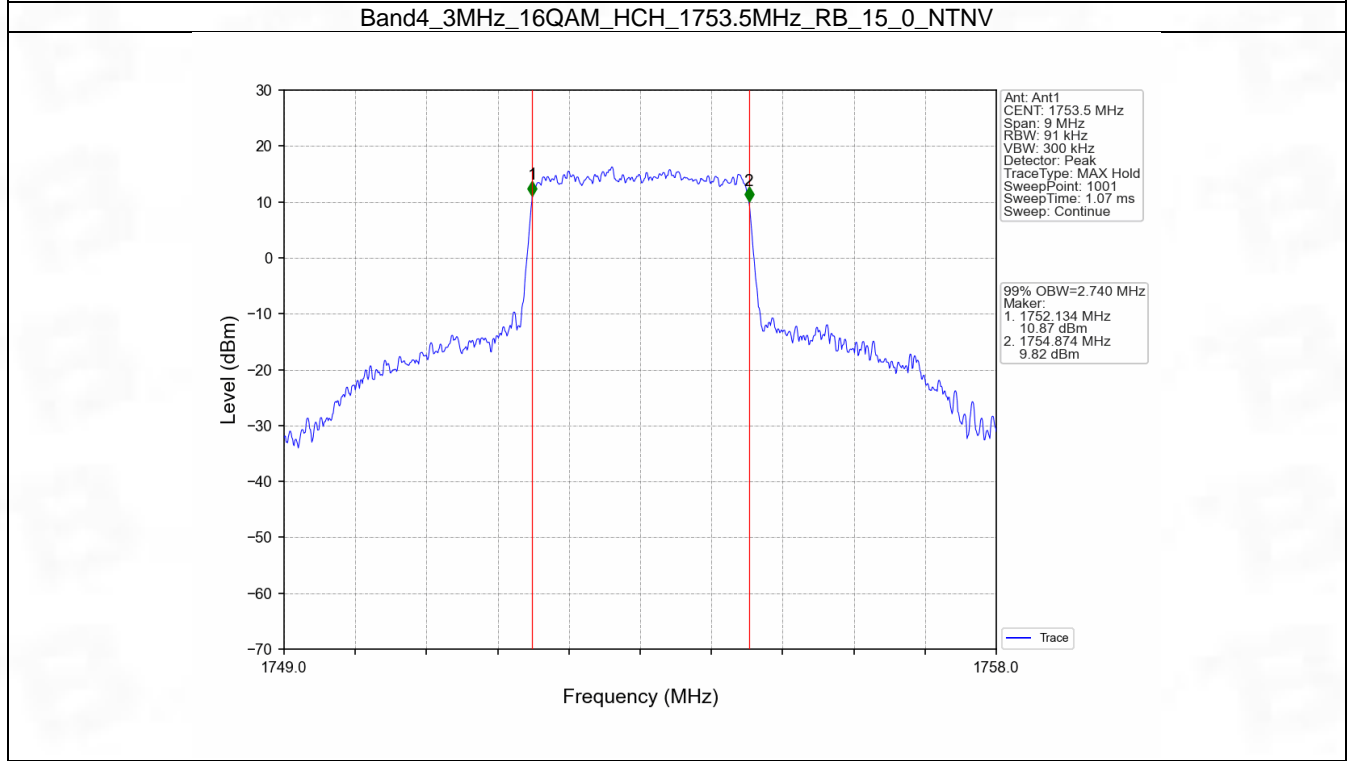
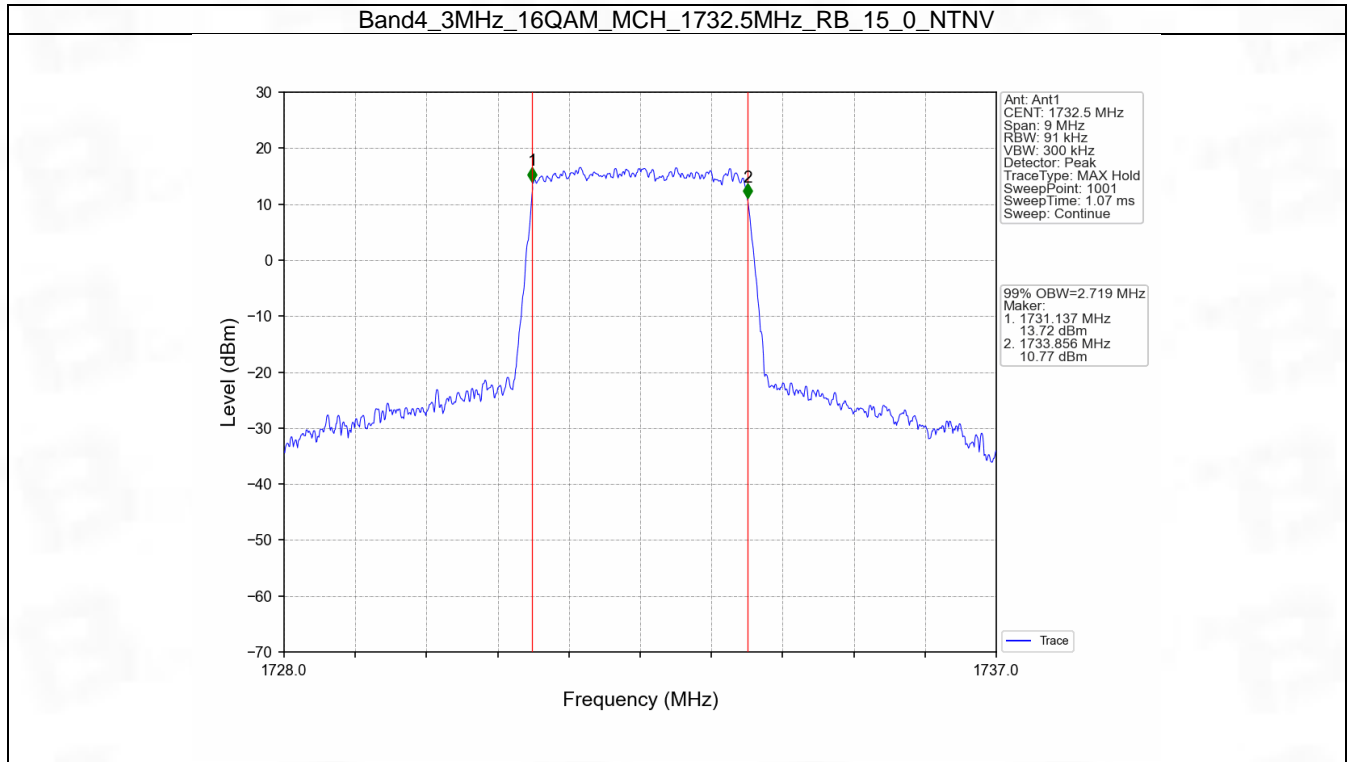
Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



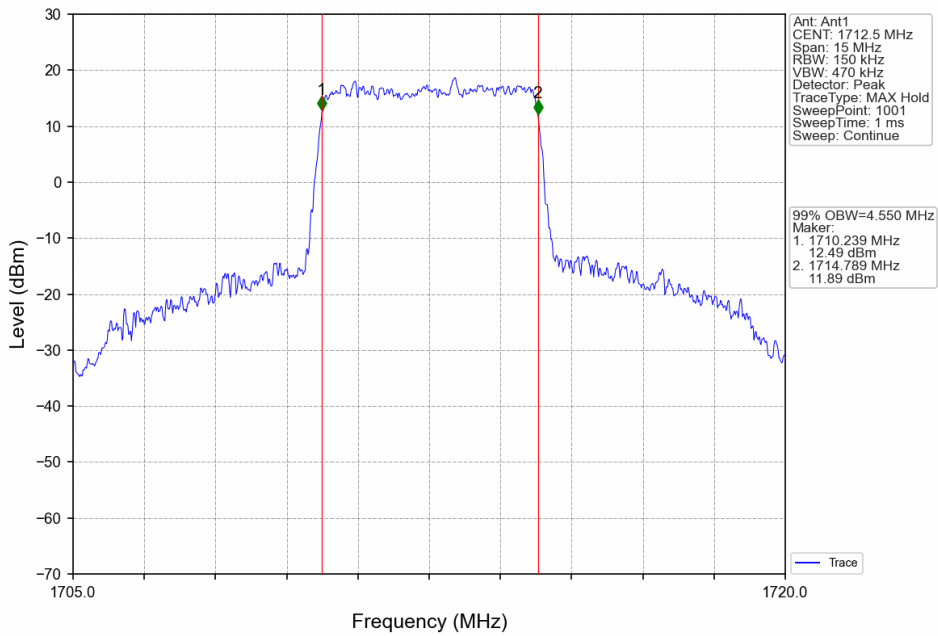
Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



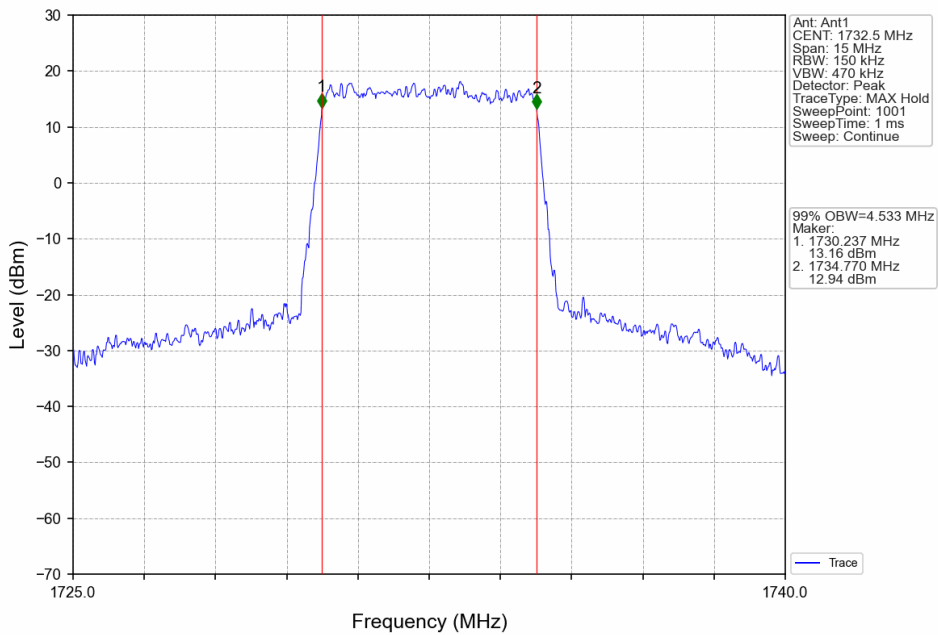




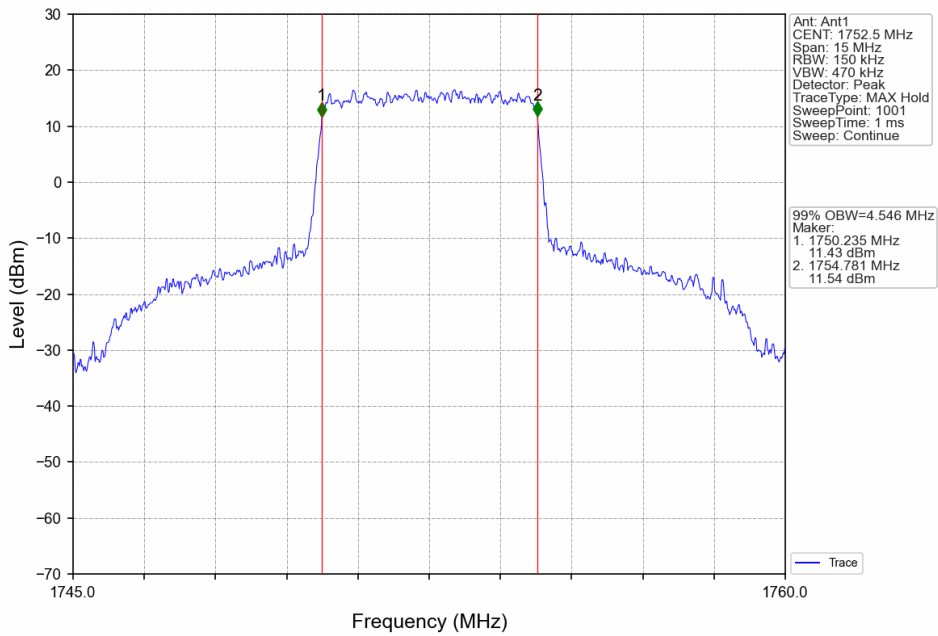
Band4\_5MHz\_QPSK\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



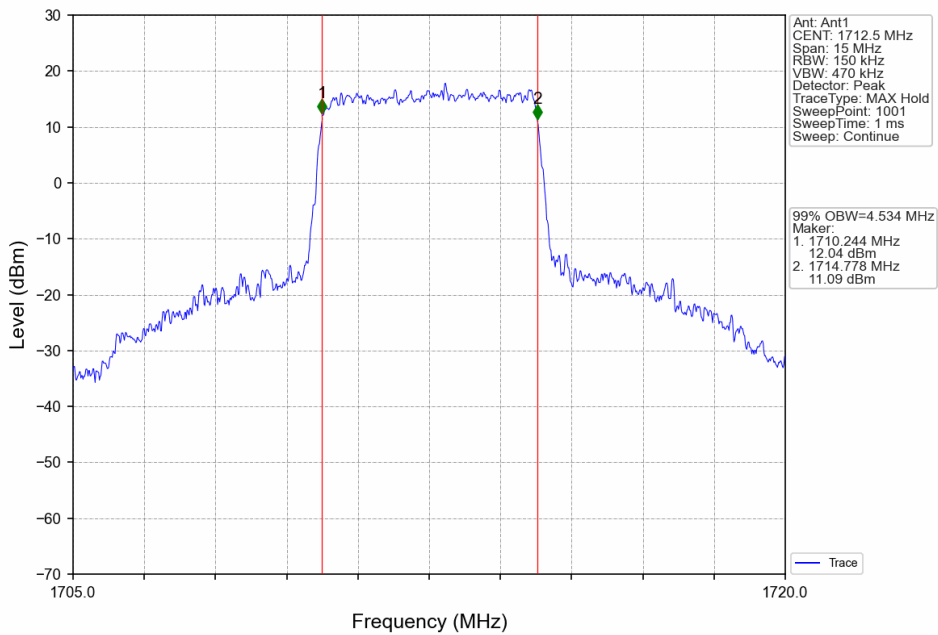
Band4\_5MHz\_QPSK\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV

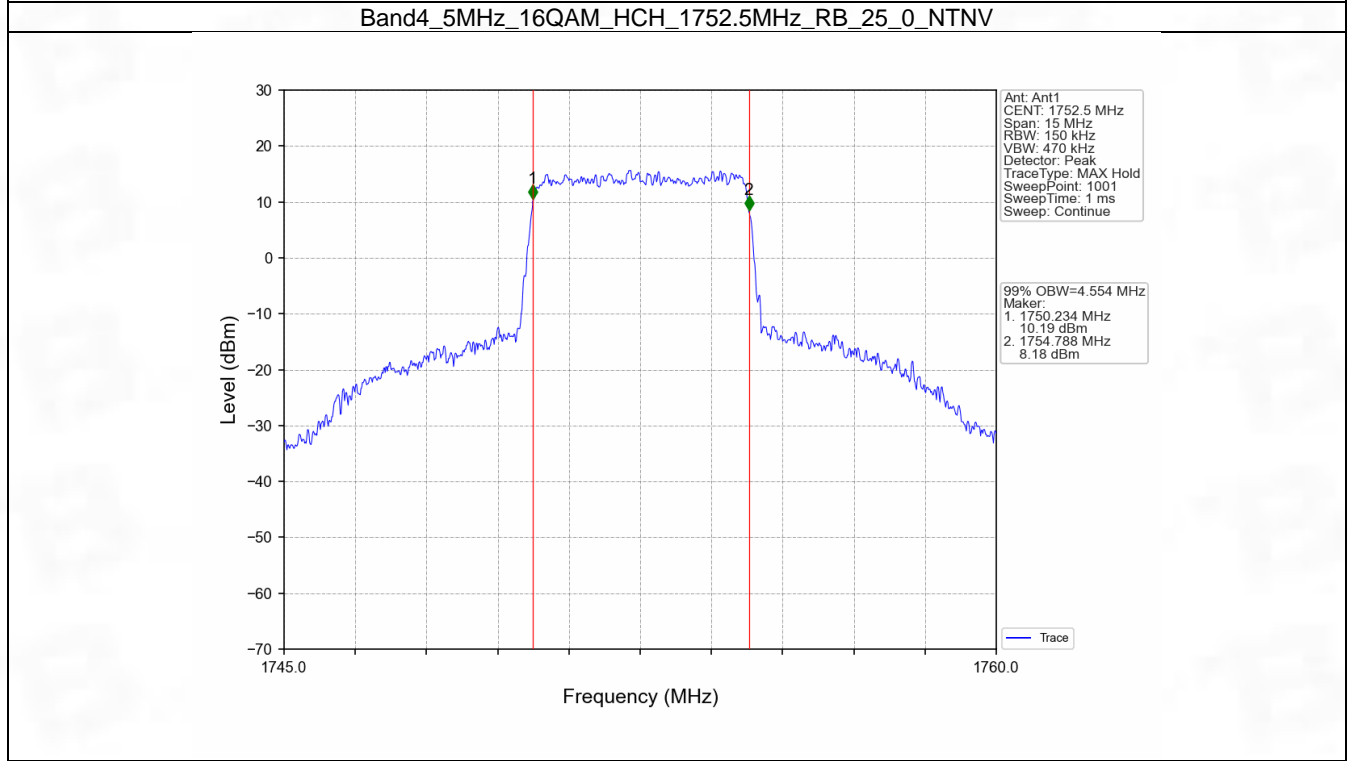
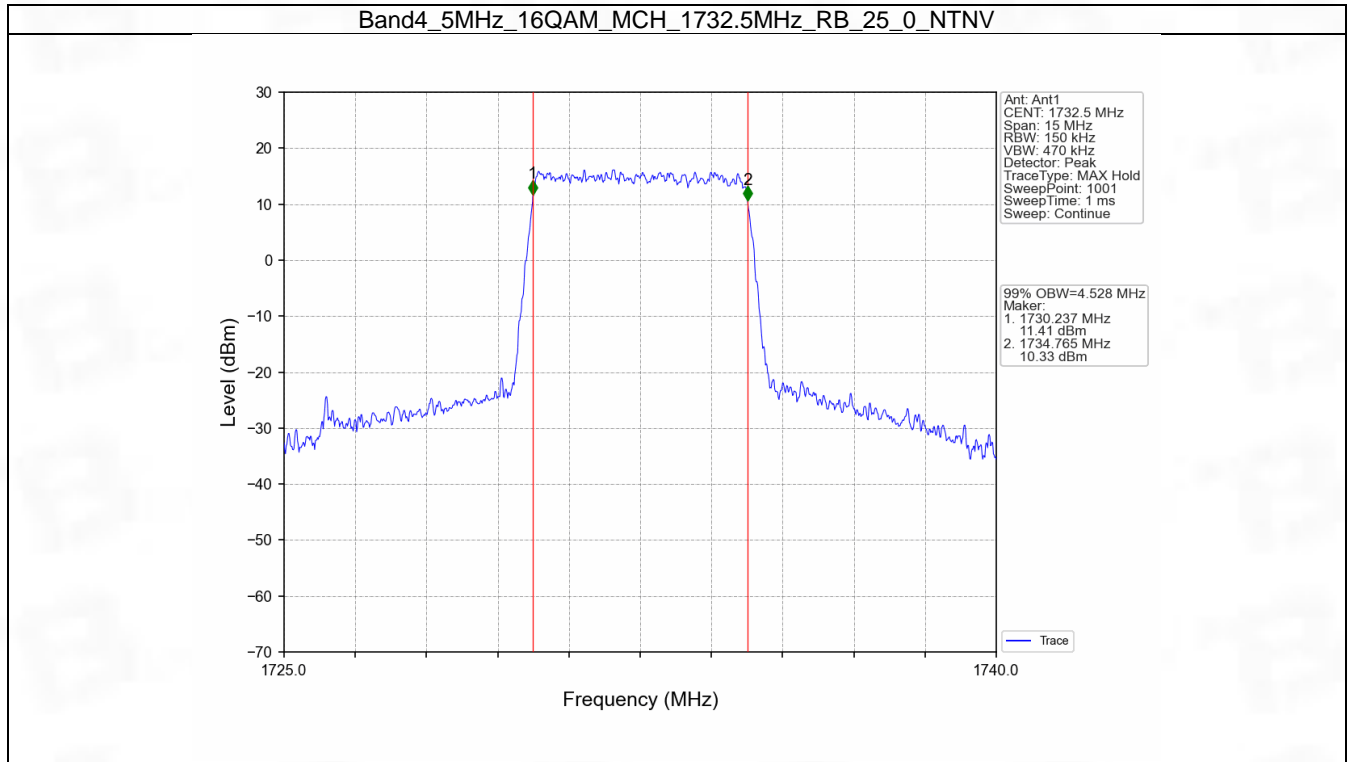


Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV

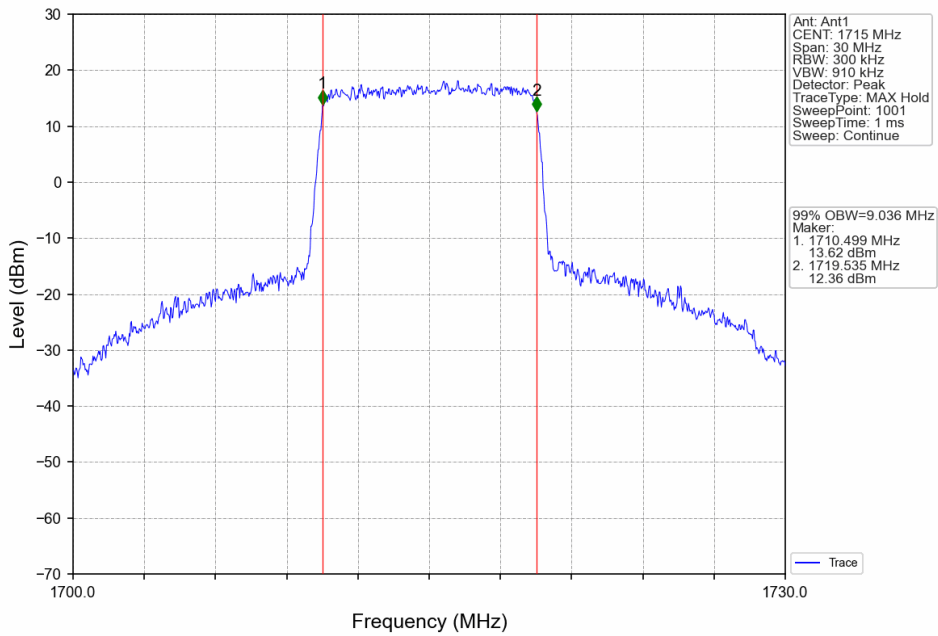


Band4\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV

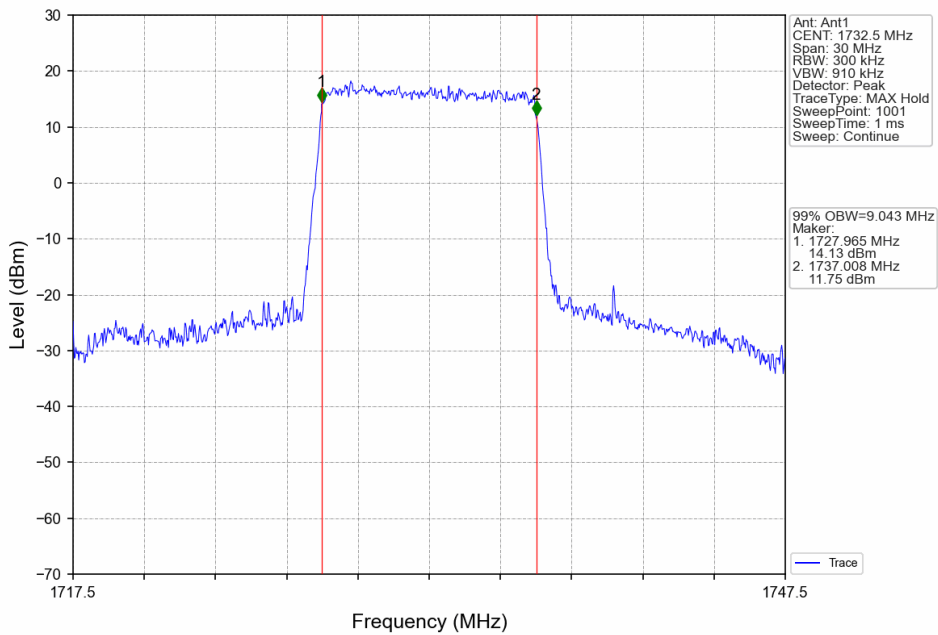




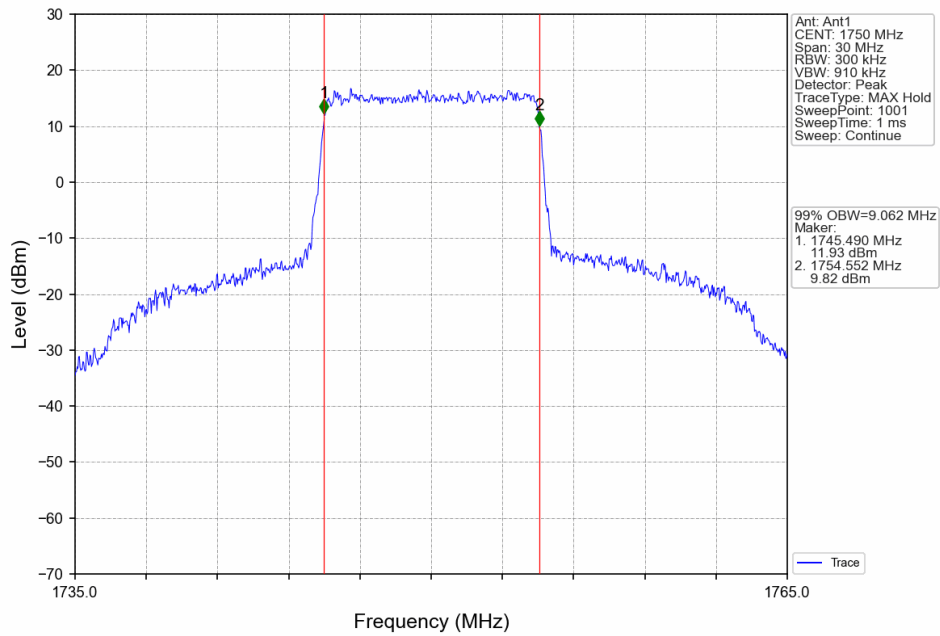
Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_50\_0\_NTNV



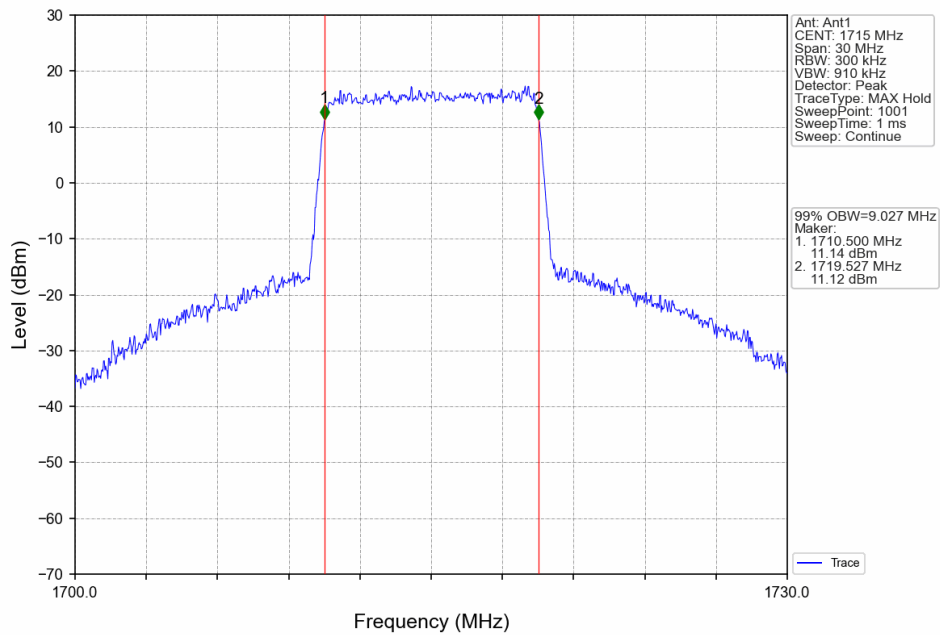
Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV

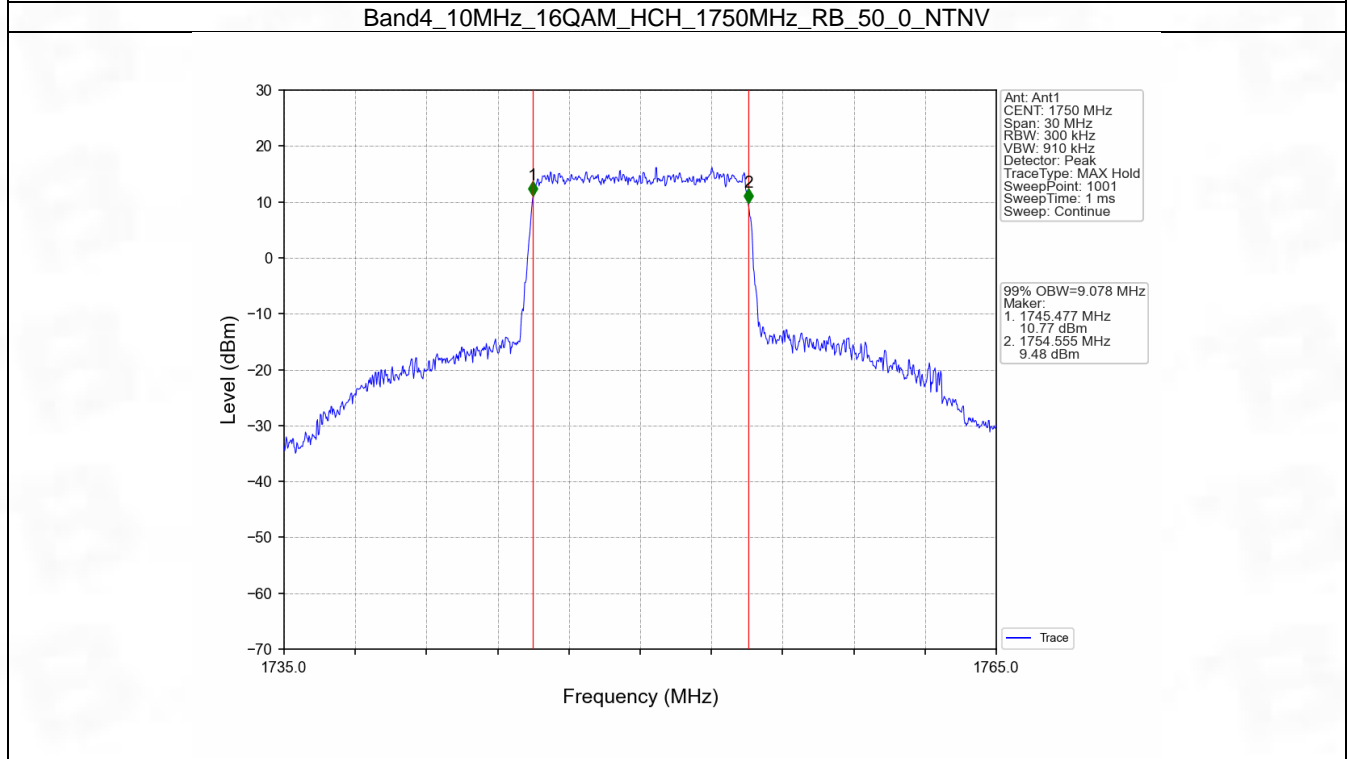
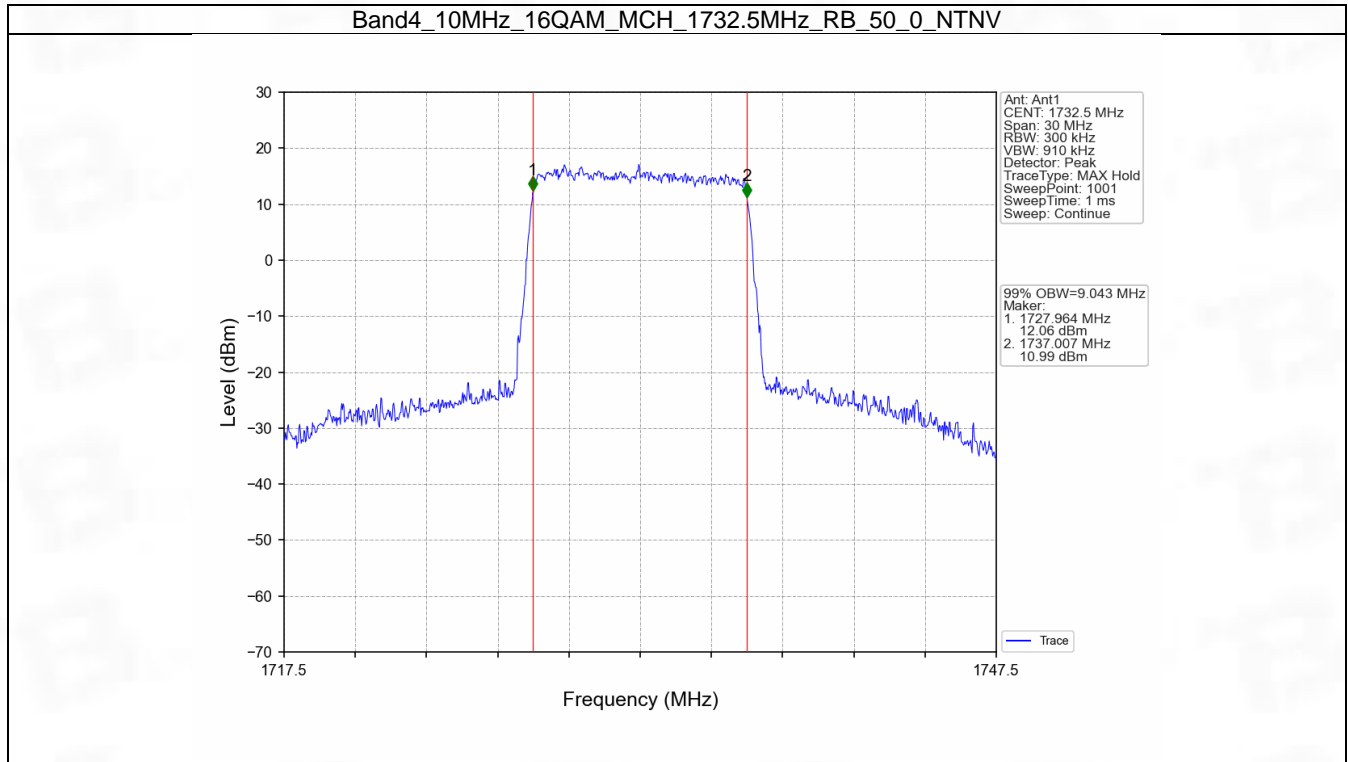


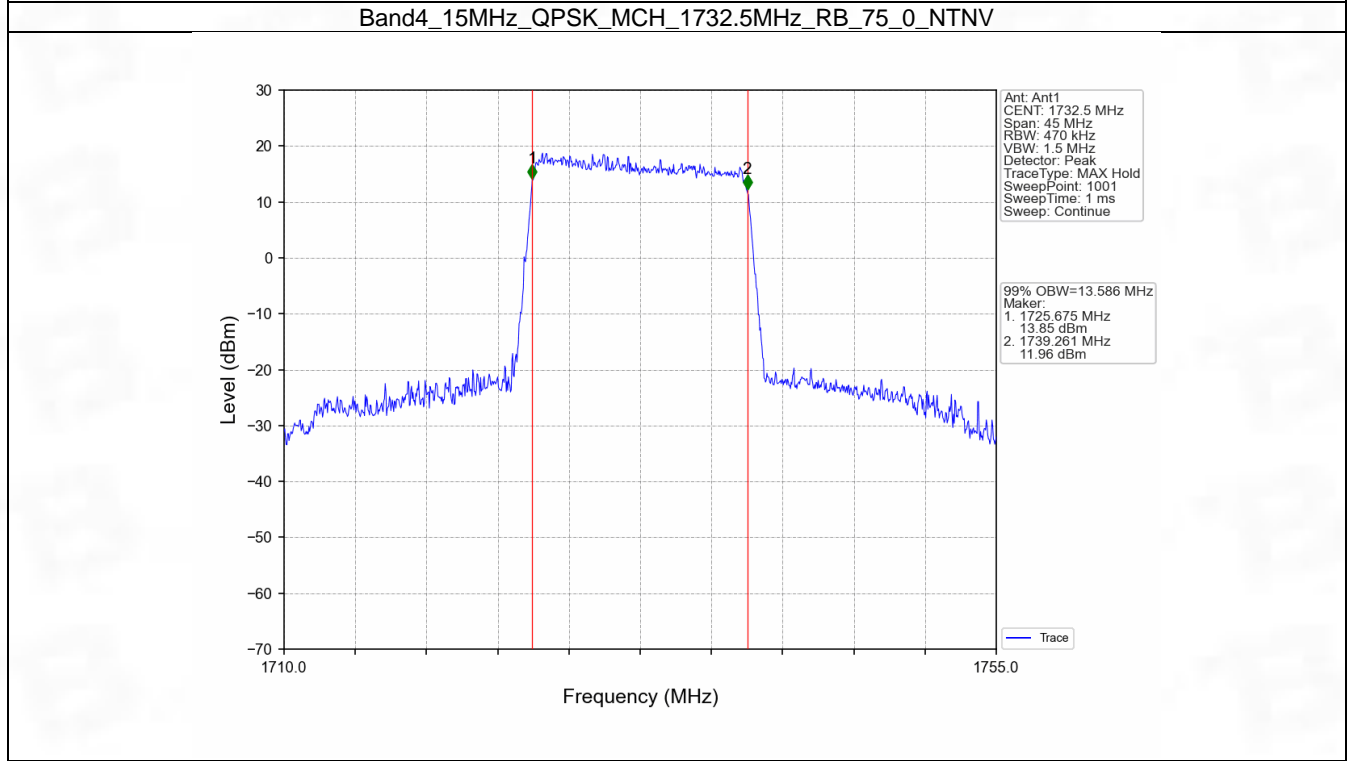
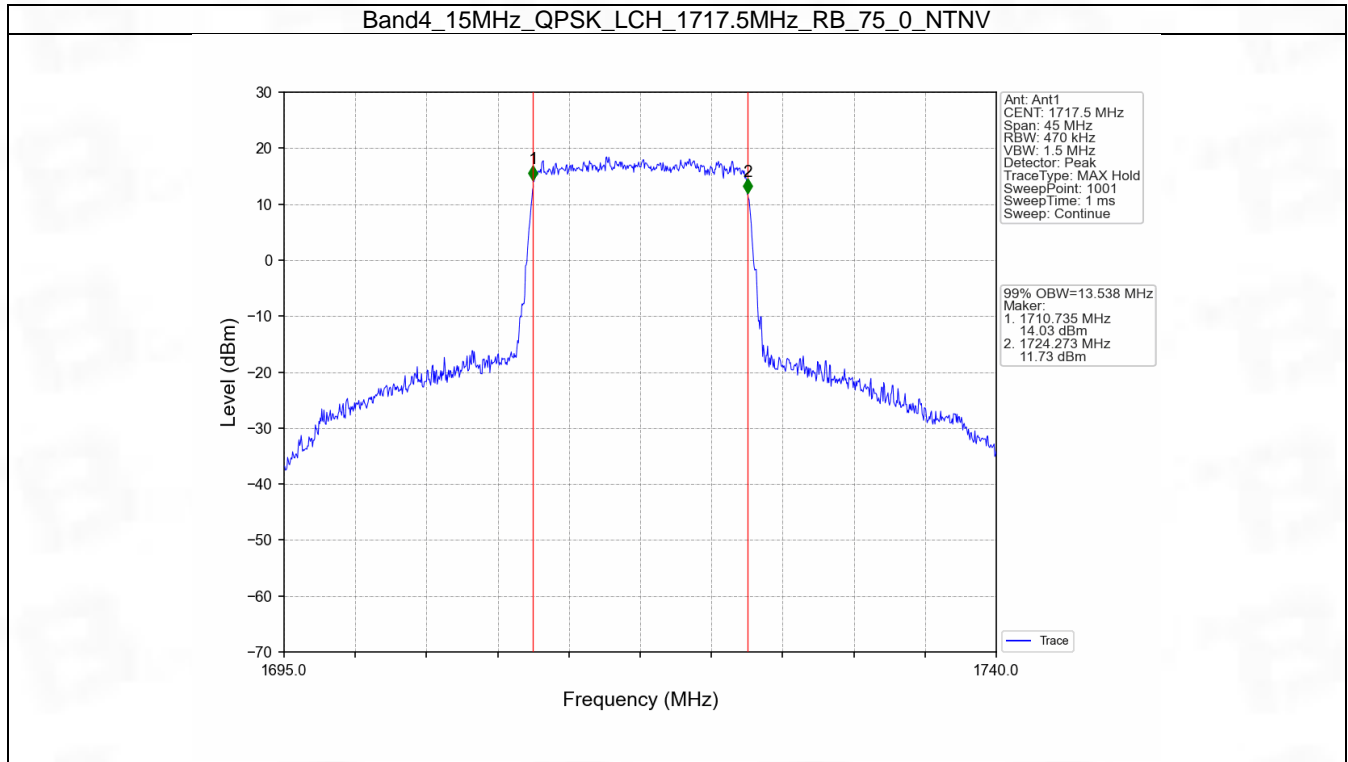
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_50\_0\_NTNV



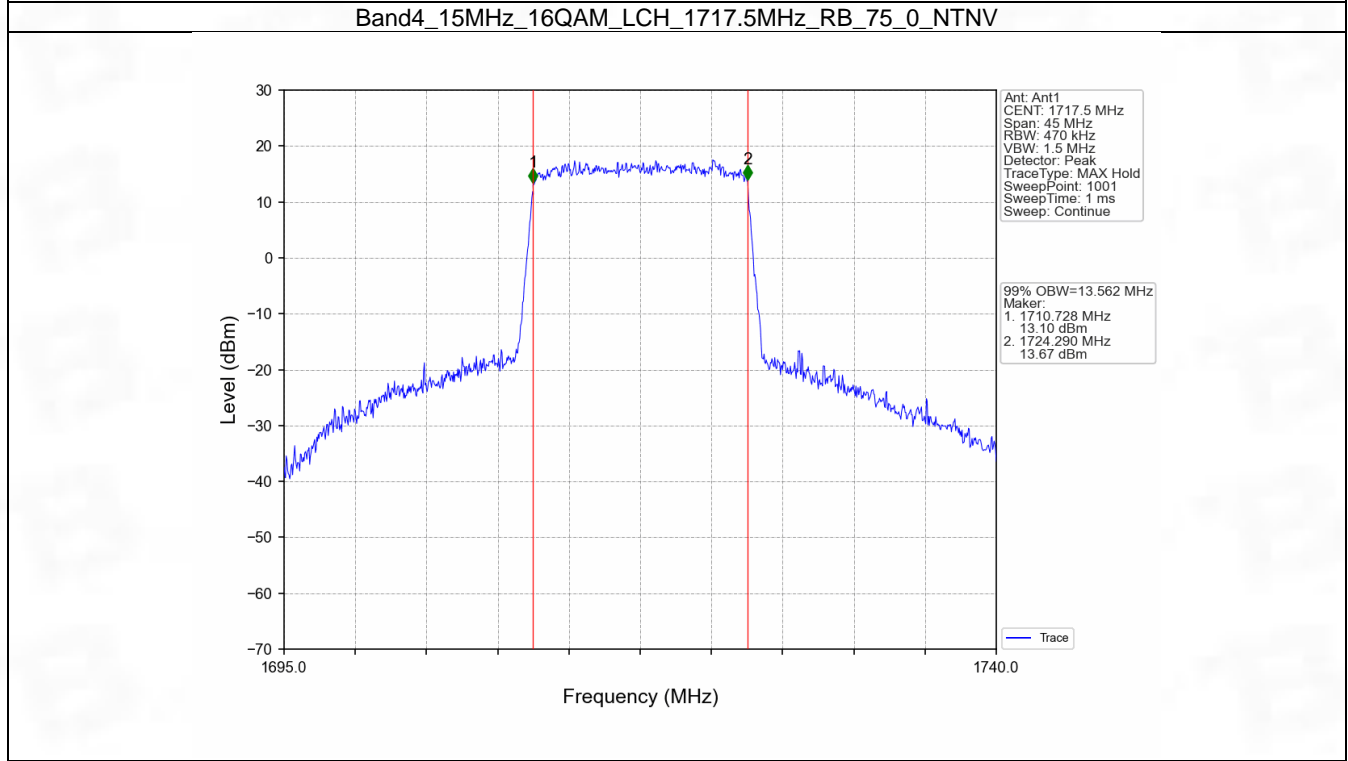
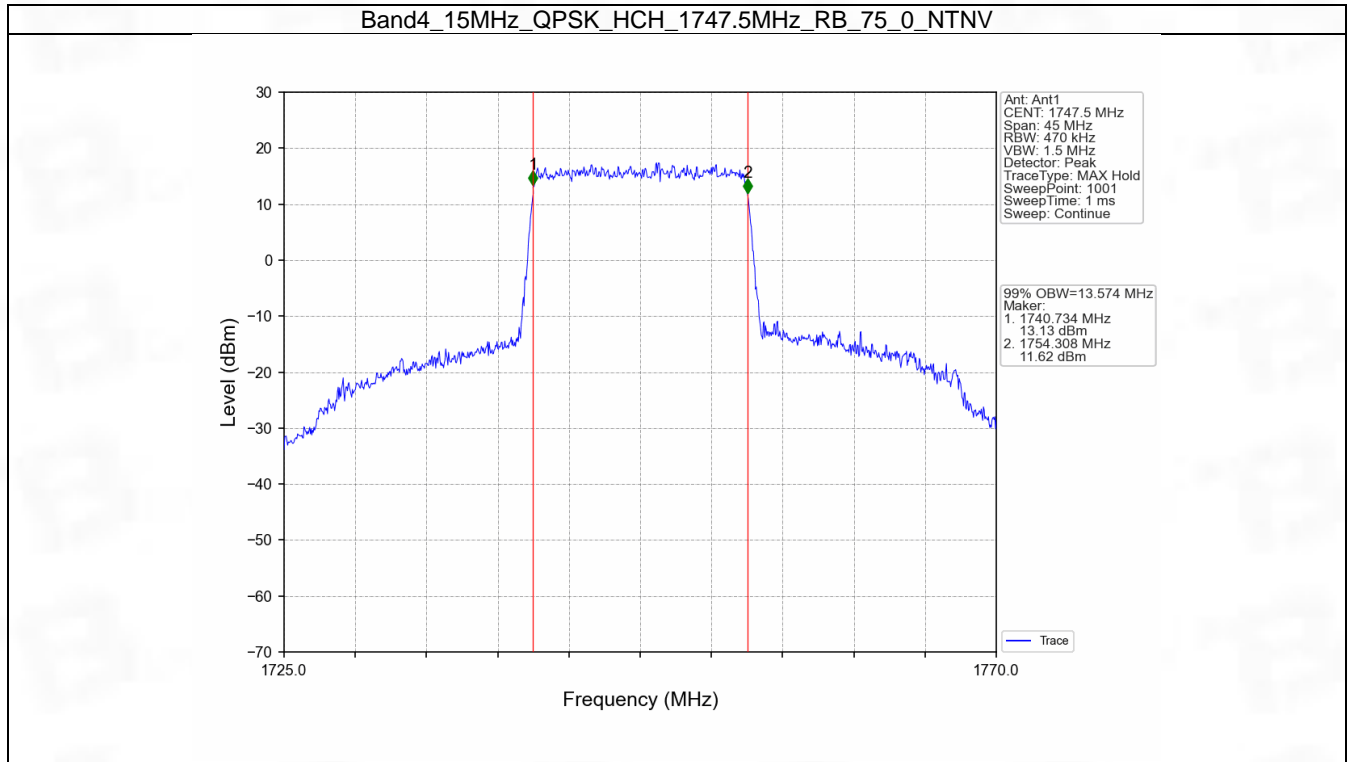
Band4\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_50\_0\_NTNV



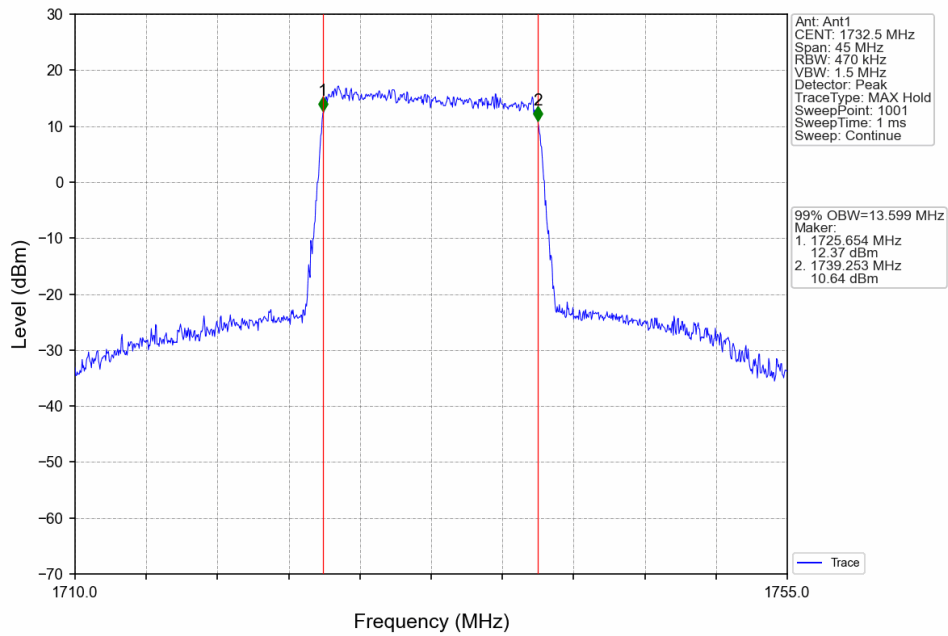




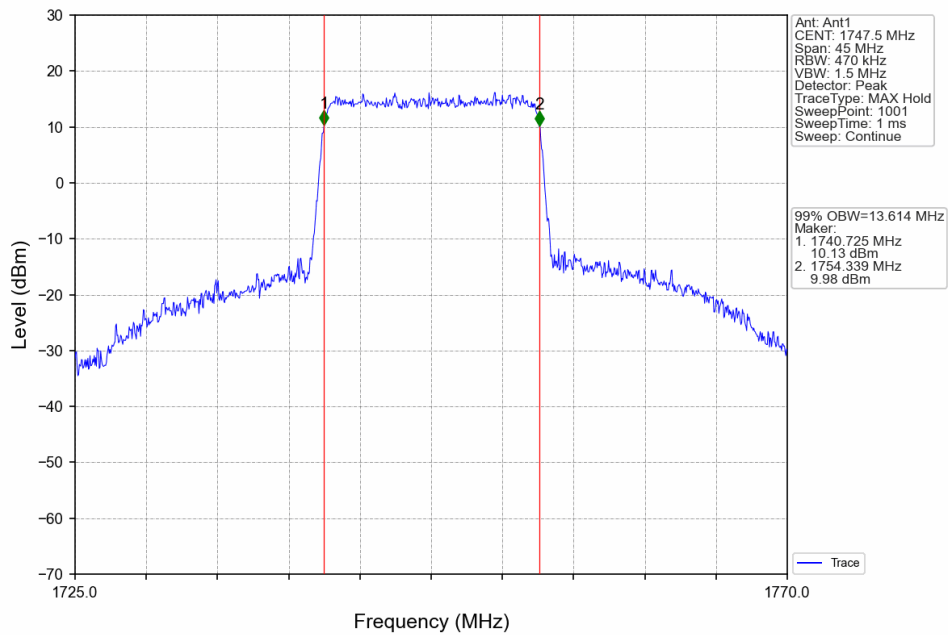




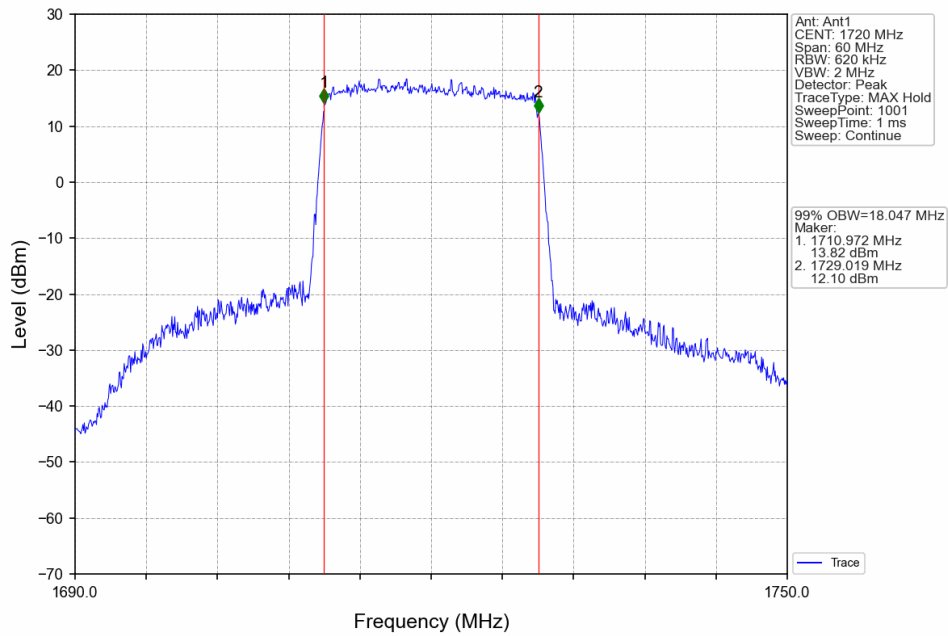
Band4\_15MHz\_16QAM\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



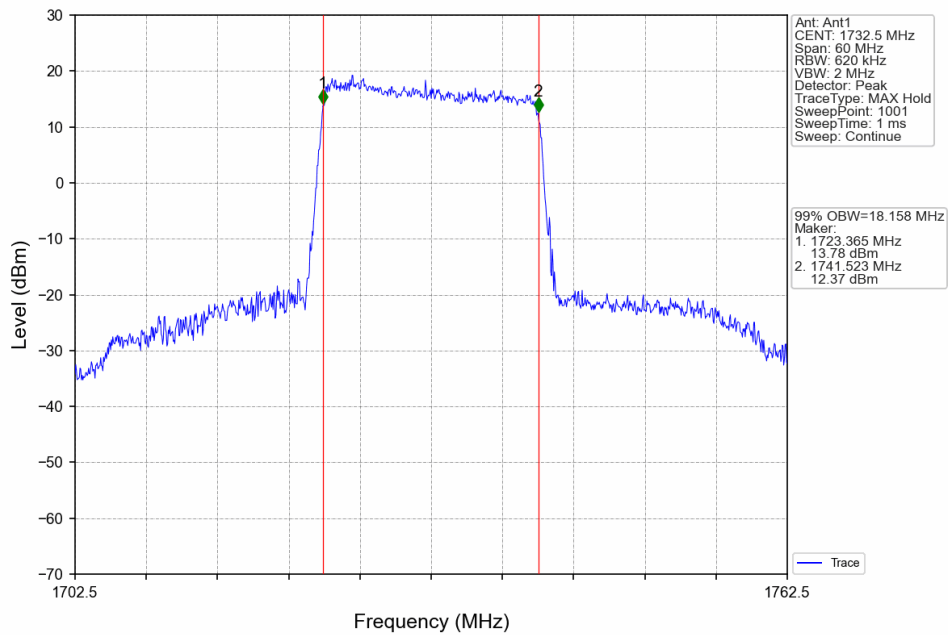
Band4\_15MHz\_16QAM\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV

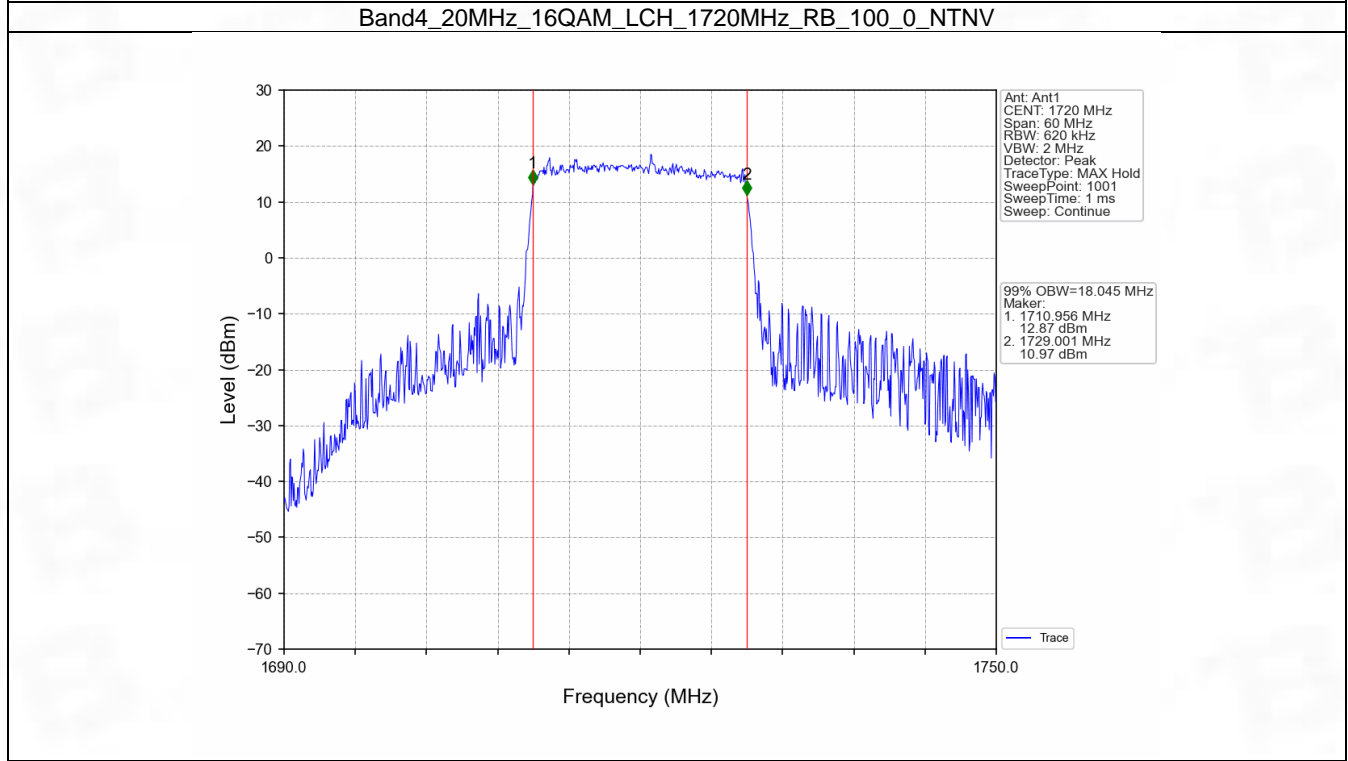
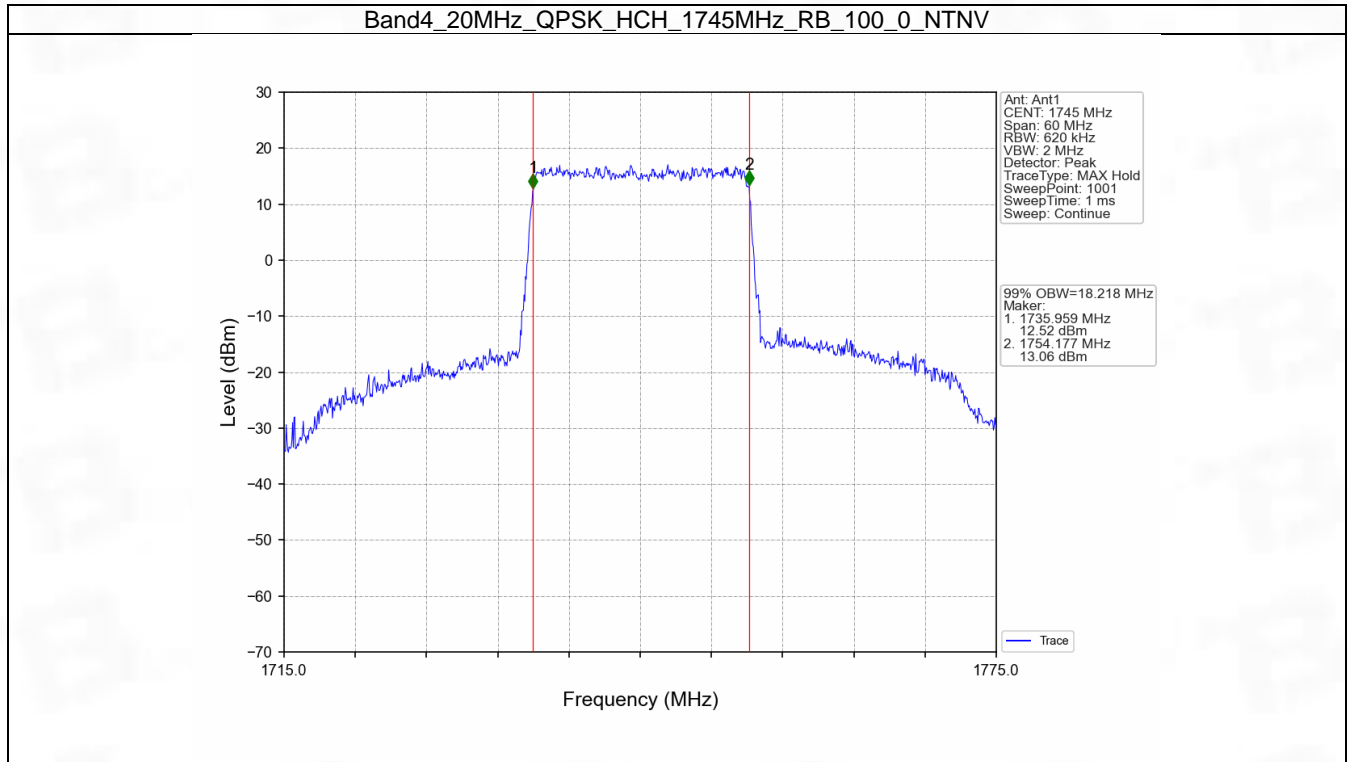


Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_100\_0\_NTNV

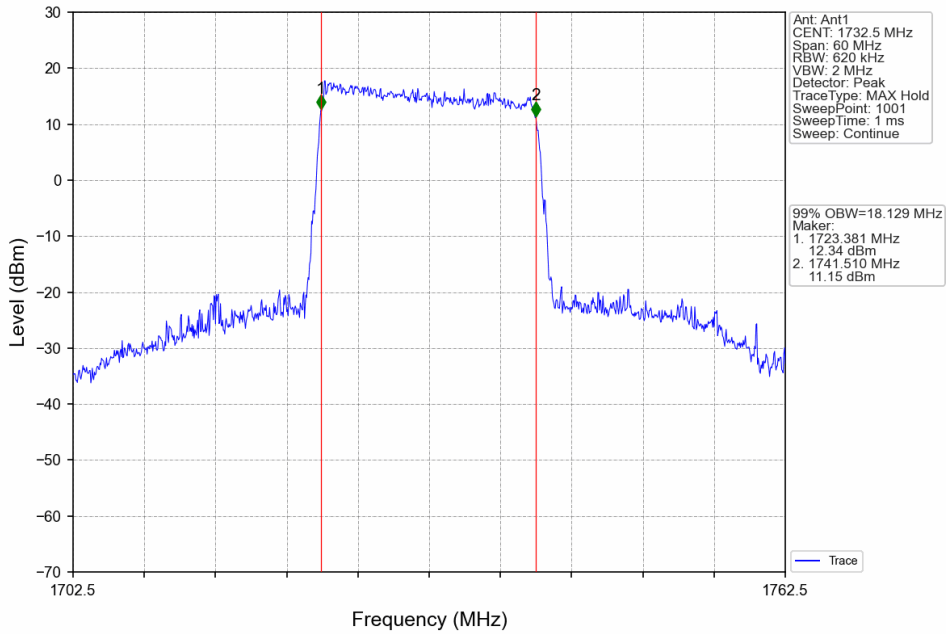


Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV

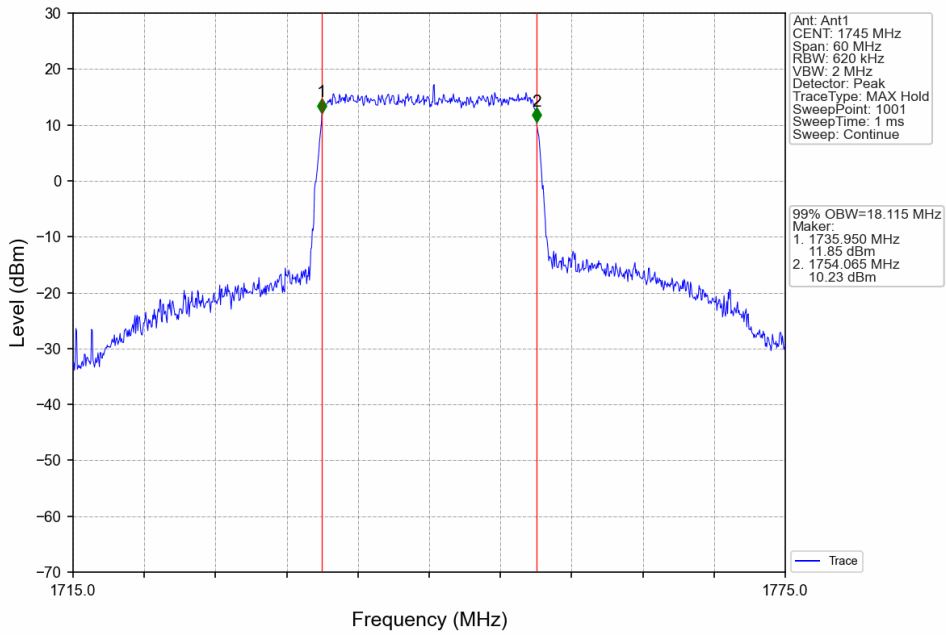




Band4\_20MHz\_16QAM\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



Band4\_20MHz\_16QAM\_HCH\_1745MHz\_RB\_100\_0\_NTNV

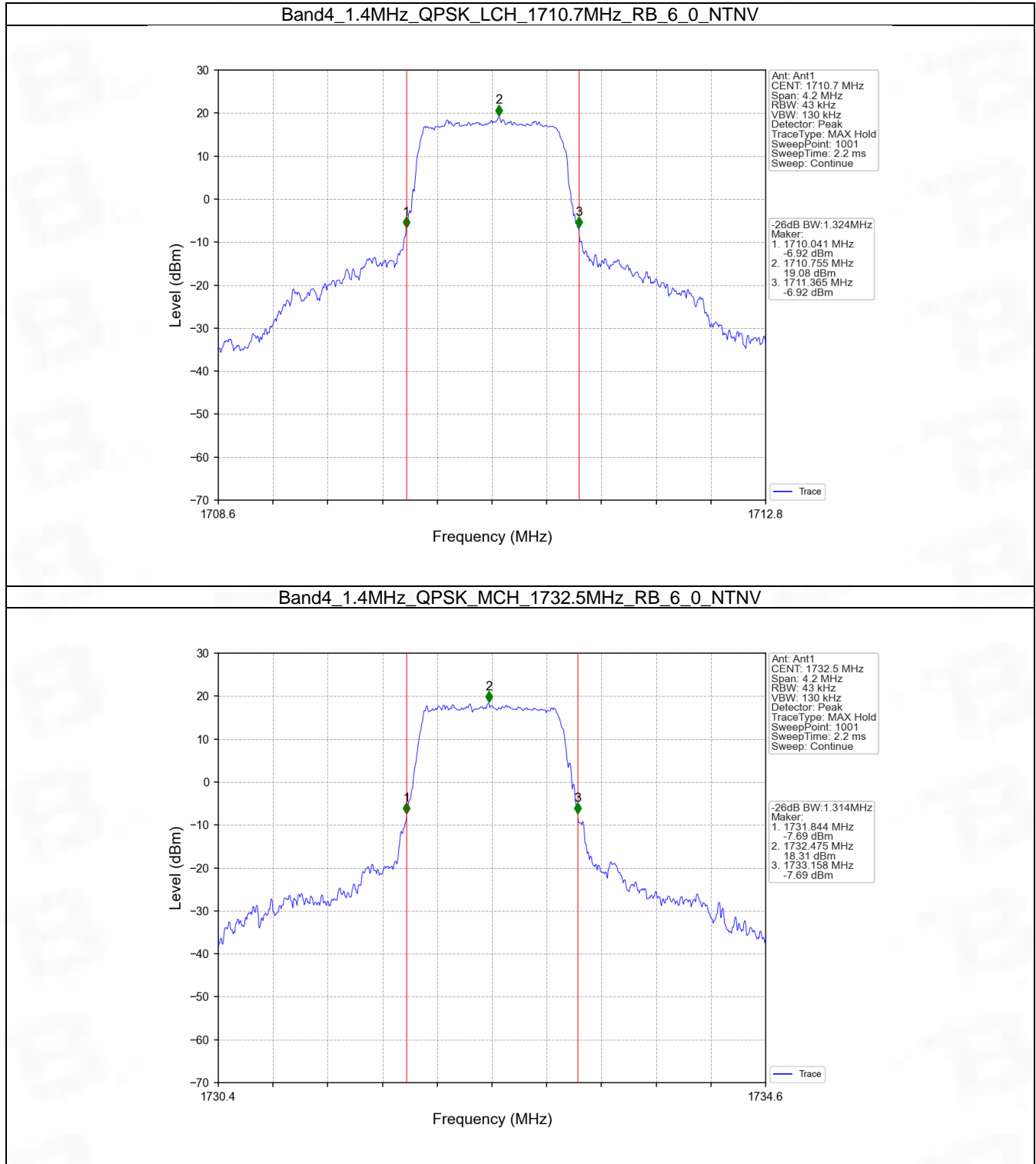


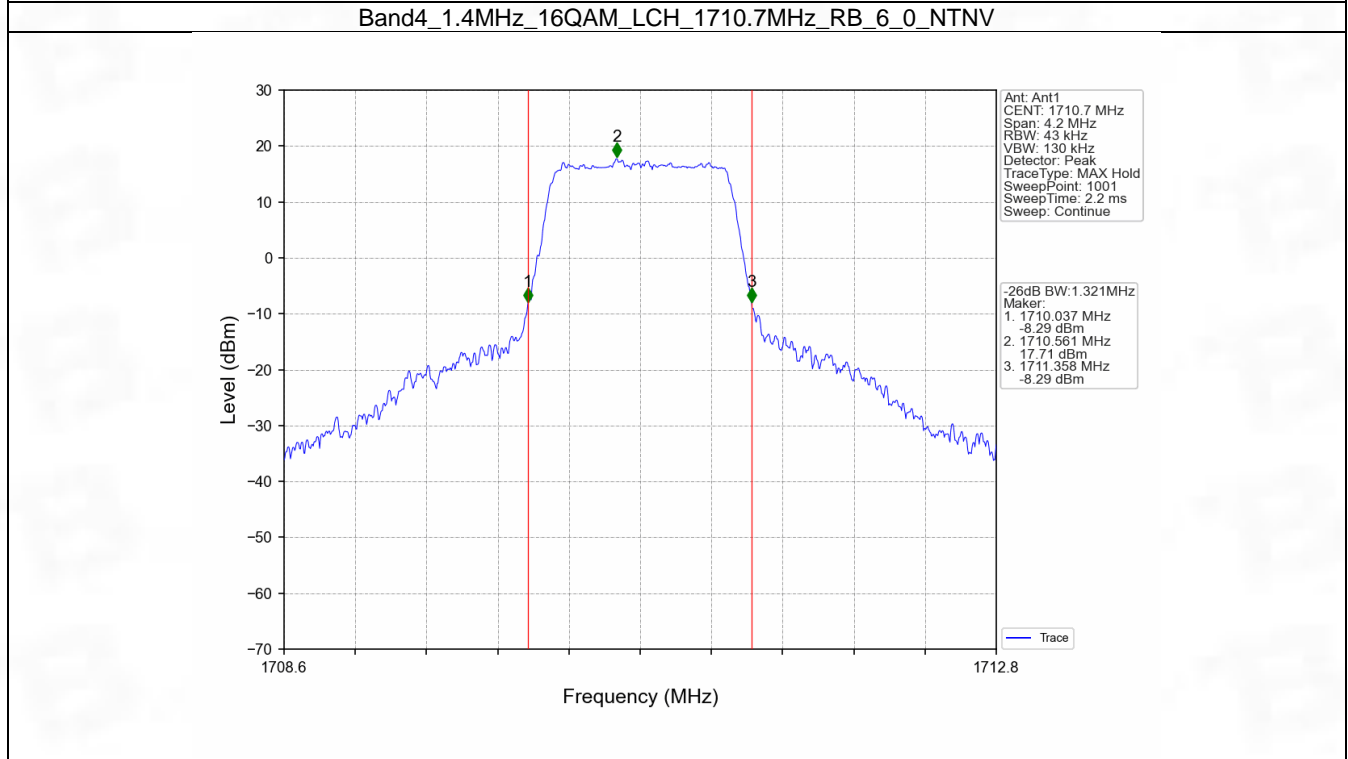
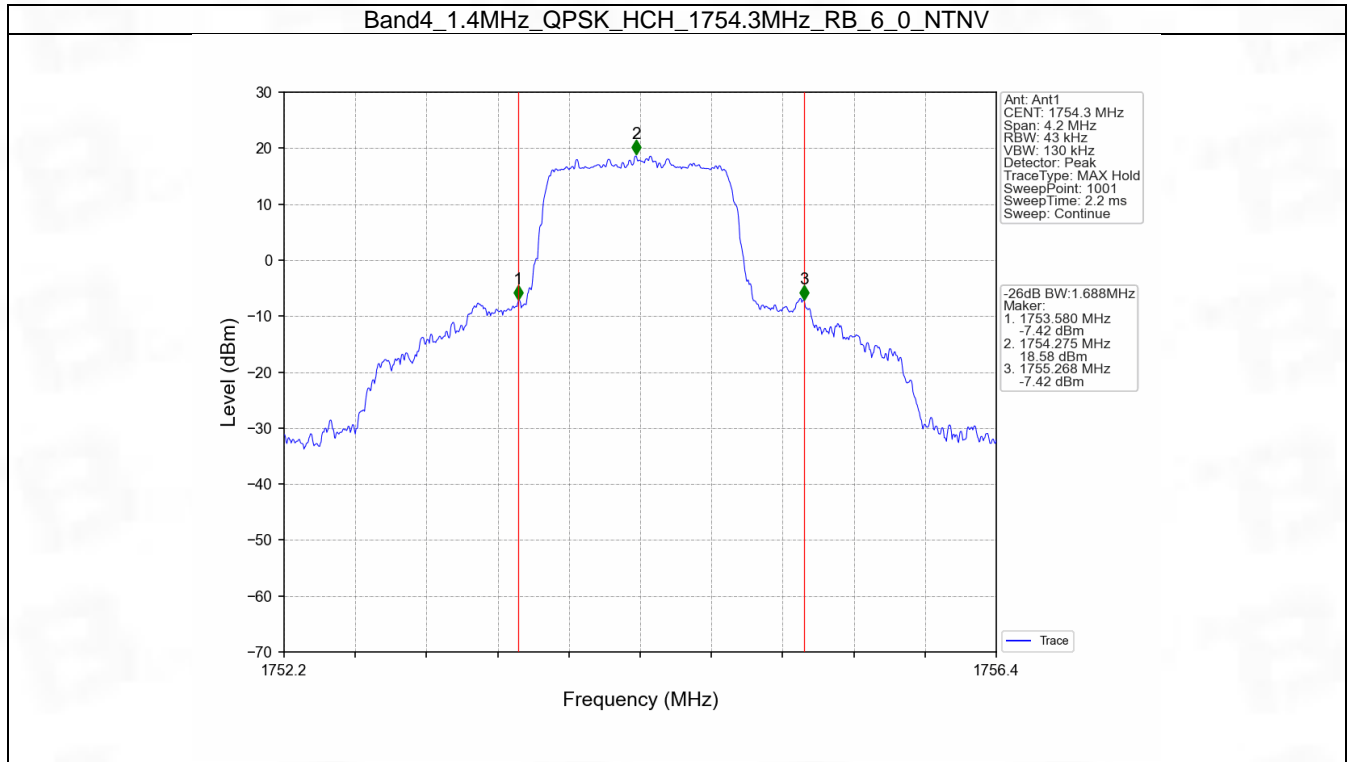
## 4.2 Band4\_XDB

### 4.2.1 Test Result

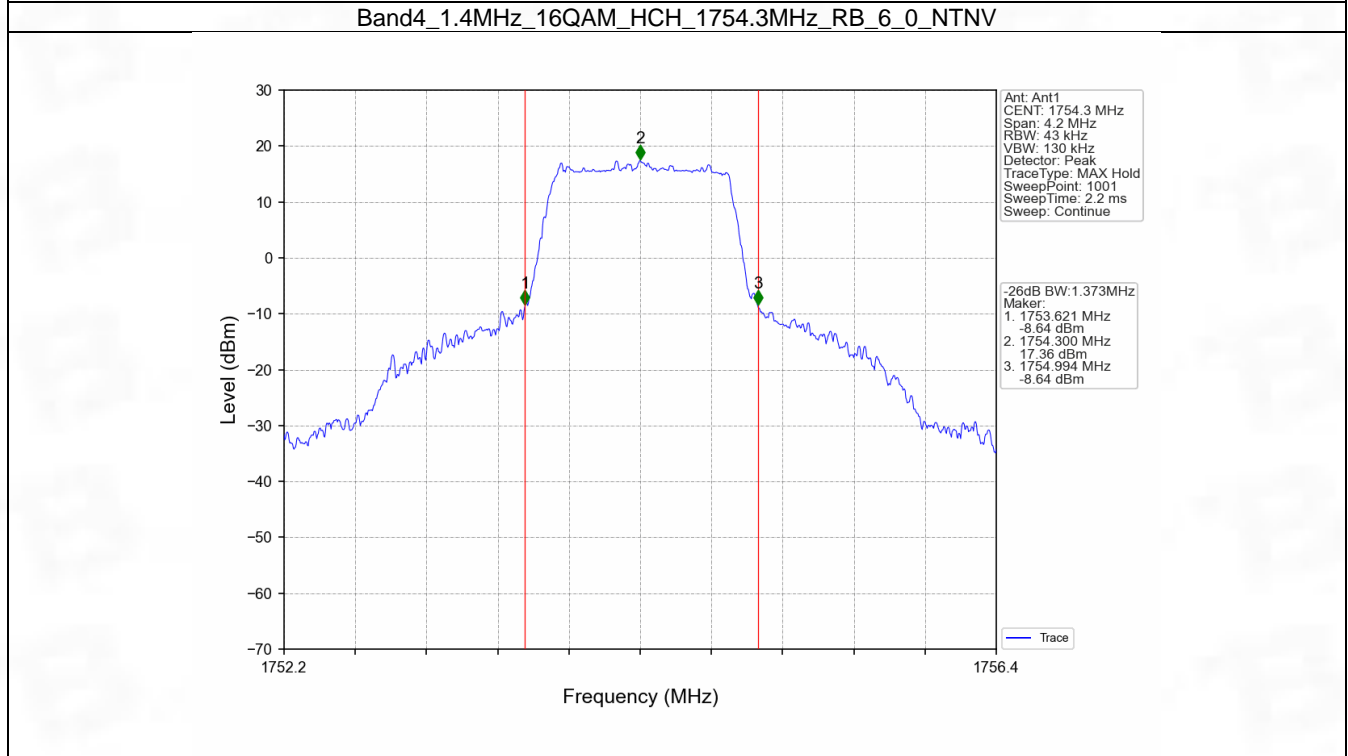
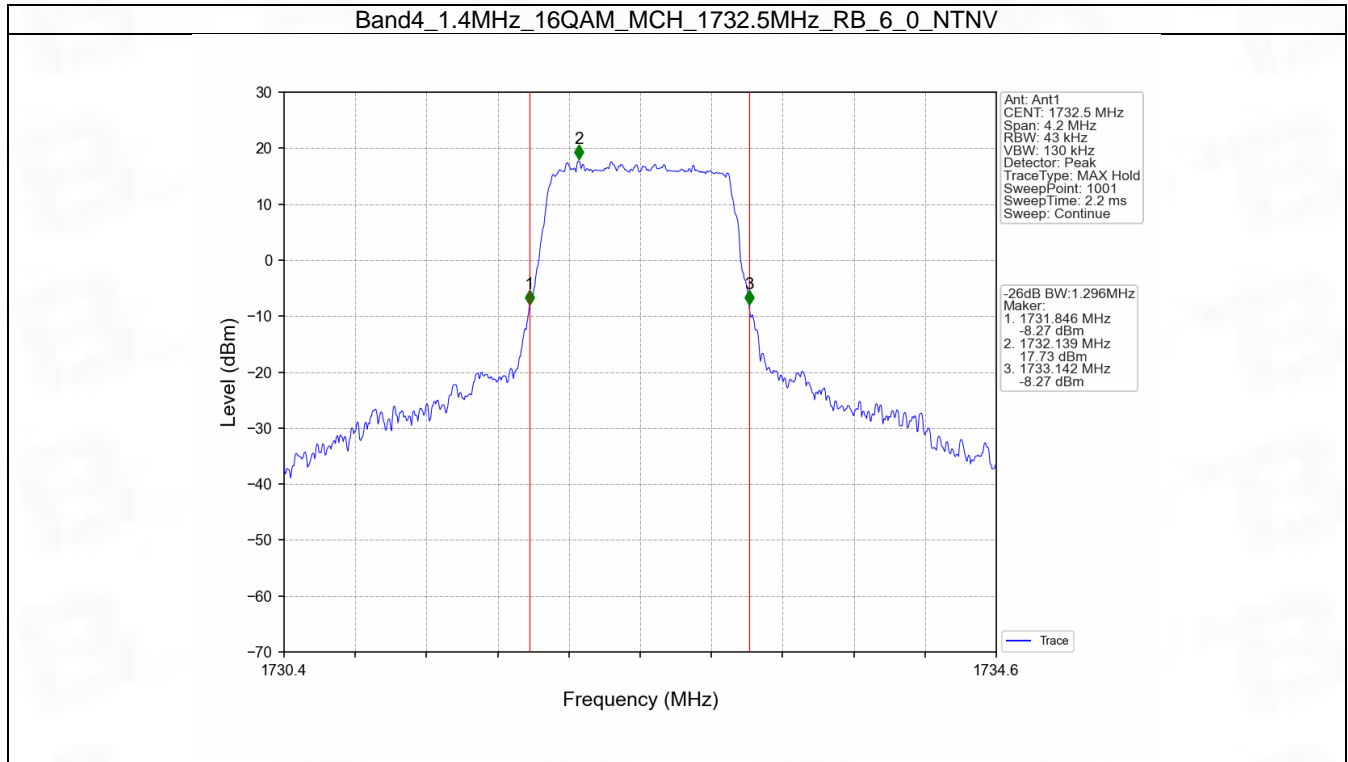
| Band: 4 / NTNV  |            |                 |               |        |                      |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) | Verdict |
|                 |            |                 | Size          | Offset | Result               |         |
| 1.4             | QPSK       | 1710.7          | 6             | 0      | 1.324                | Pass    |
|                 |            | 1732.5          | 6             | 0      | 1.314                | Pass    |
|                 |            | 1754.3          | 6             | 0      | 1.688                | Pass    |
|                 | 16QAM      | 1710.7          | 6             | 0      | 1.321                | Pass    |
|                 |            | 1732.5          | 6             | 0      | 1.296                | Pass    |
|                 |            | 1754.3          | 6             | 0      | 1.373                | Pass    |
| 3               | QPSK       | 1711.5          | 15            | 0      | 2.996                | Pass    |
|                 |            | 1732.5          | 15            | 0      | 2.985                | Pass    |
|                 |            | 1753.5          | 15            | 0      | 3.052                | Pass    |
|                 | 16QAM      | 1711.5          | 15            | 0      | 2.983                | Pass    |
|                 |            | 1732.5          | 15            | 0      | 3.005                | Pass    |
|                 |            | 1753.5          | 15            | 0      | 3.112                | Pass    |
| 5               | QPSK       | 1712.5          | 25            | 0      | 5.020                | Pass    |
|                 |            | 1732.5          | 25            | 0      | 5.020                | Pass    |
|                 |            | 1752.5          | 25            | 0      | 5.039                | Pass    |
|                 | 16QAM      | 1712.5          | 25            | 0      | 5.005                | Pass    |
|                 |            | 1732.5          | 25            | 0      | 5.047                | Pass    |
|                 |            | 1752.5          | 25            | 0      | 5.050                | Pass    |
| 10              | QPSK       | 1715            | 50            | 0      | 9.932                | Pass    |
|                 |            | 1732.5          | 50            | 0      | 9.896                | Pass    |
|                 |            | 1750            | 50            | 0      | 10.040               | Pass    |
|                 | 16QAM      | 1715            | 50            | 0      | 9.896                | Pass    |
|                 |            | 1732.5          | 50            | 0      | 9.892                | Pass    |
|                 |            | 1750            | 50            | 0      | 9.936                | Pass    |
| 15              | QPSK       | 1717.5          | 75            | 0      | 14.746               | Pass    |
|                 |            | 1732.5          | 75            | 0      | 14.863               | Pass    |
|                 |            | 1747.5          | 75            | 0      | 14.938               | Pass    |
|                 | 16QAM      | 1717.5          | 75            | 0      | 14.851               | Pass    |
|                 |            | 1732.5          | 75            | 0      | 14.836               | Pass    |
|                 |            | 1747.5          | 75            | 0      | 14.940               | Pass    |
| 20              | QPSK       | 1720            | 100           | 0      | 19.727               | Pass    |
|                 |            | 1732.5          | 100           | 0      | 19.881               | Pass    |
|                 |            | 1745            | 100           | 0      | 19.852               | Pass    |
|                 | 16QAM      | 1720            | 100           | 0      | 23.727               | Pass    |
|                 |            | 1732.5          | 100           | 0      | 19.820               | Pass    |
|                 |            | 1745            | 100           | 0      | 19.666               | Pass    |

### 4.2.2 Test Graph

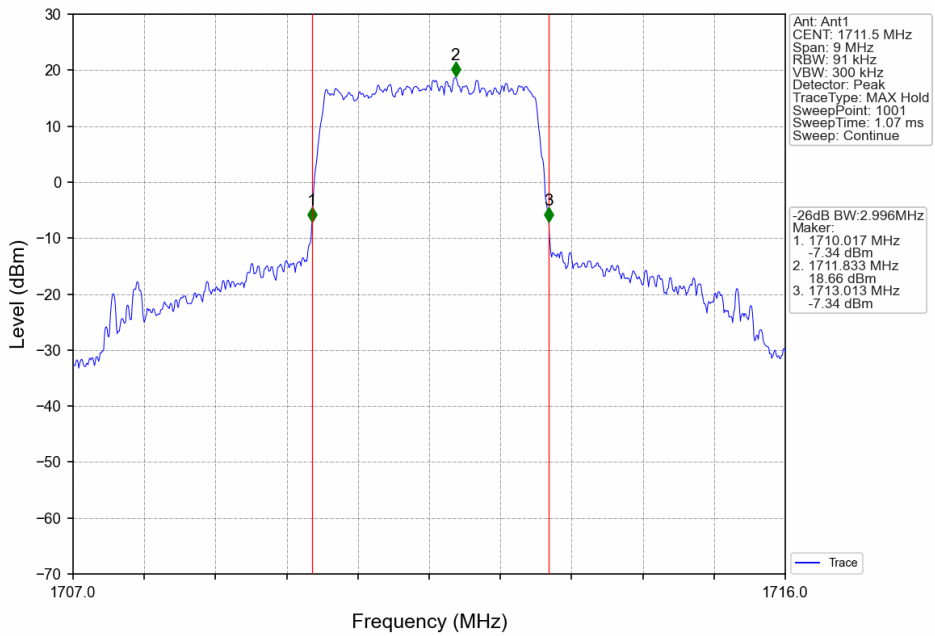




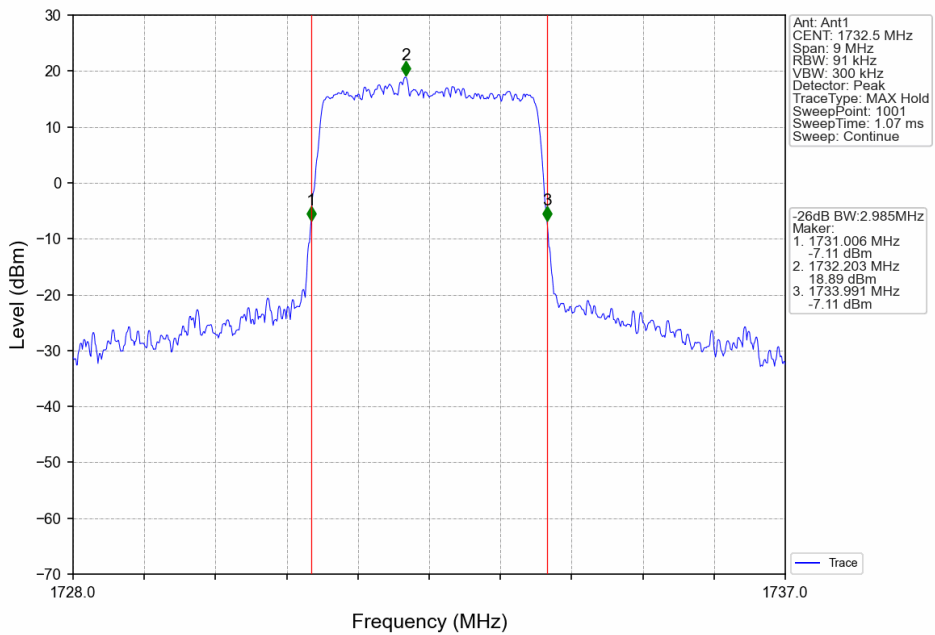




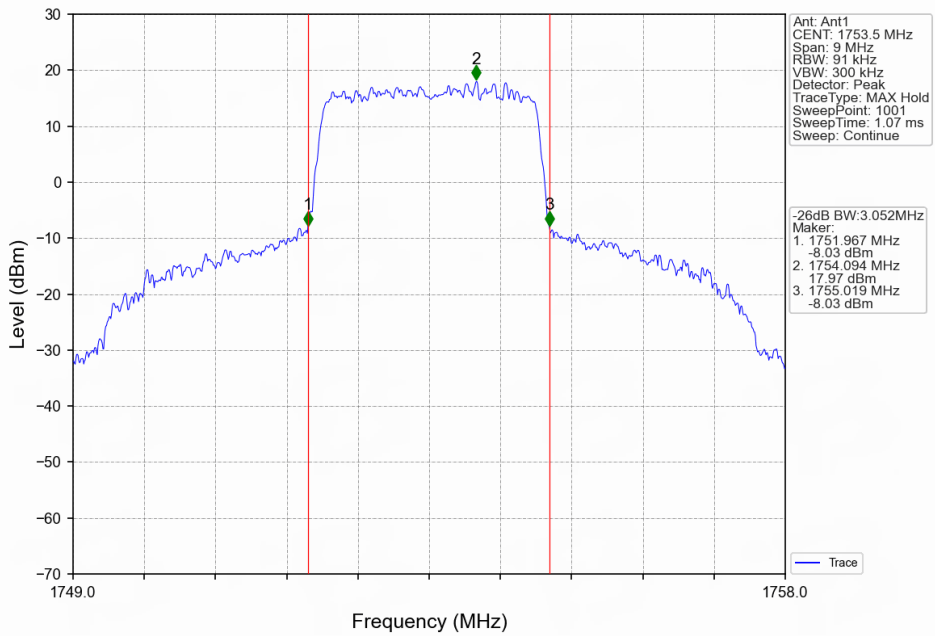
Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



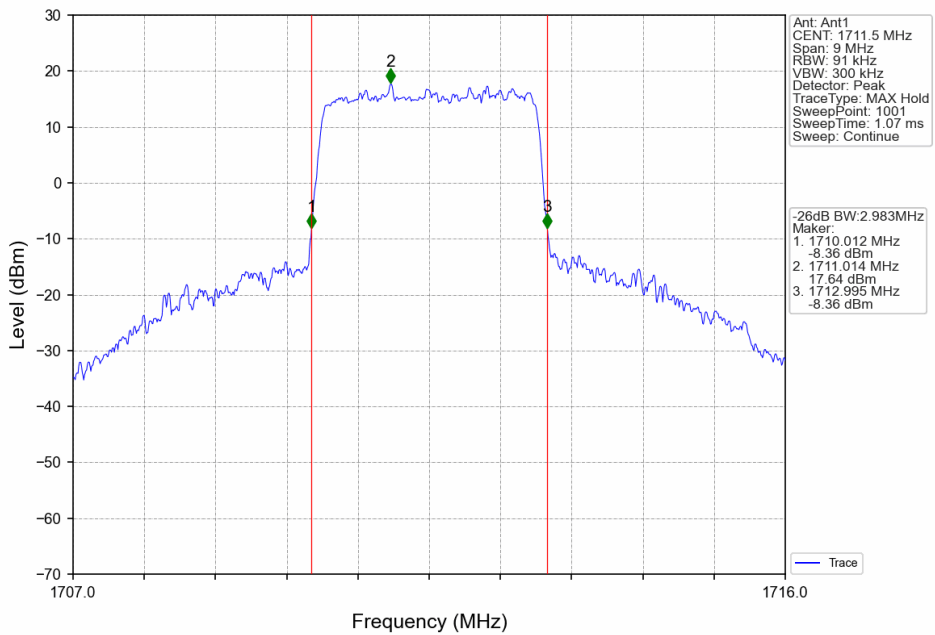
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV

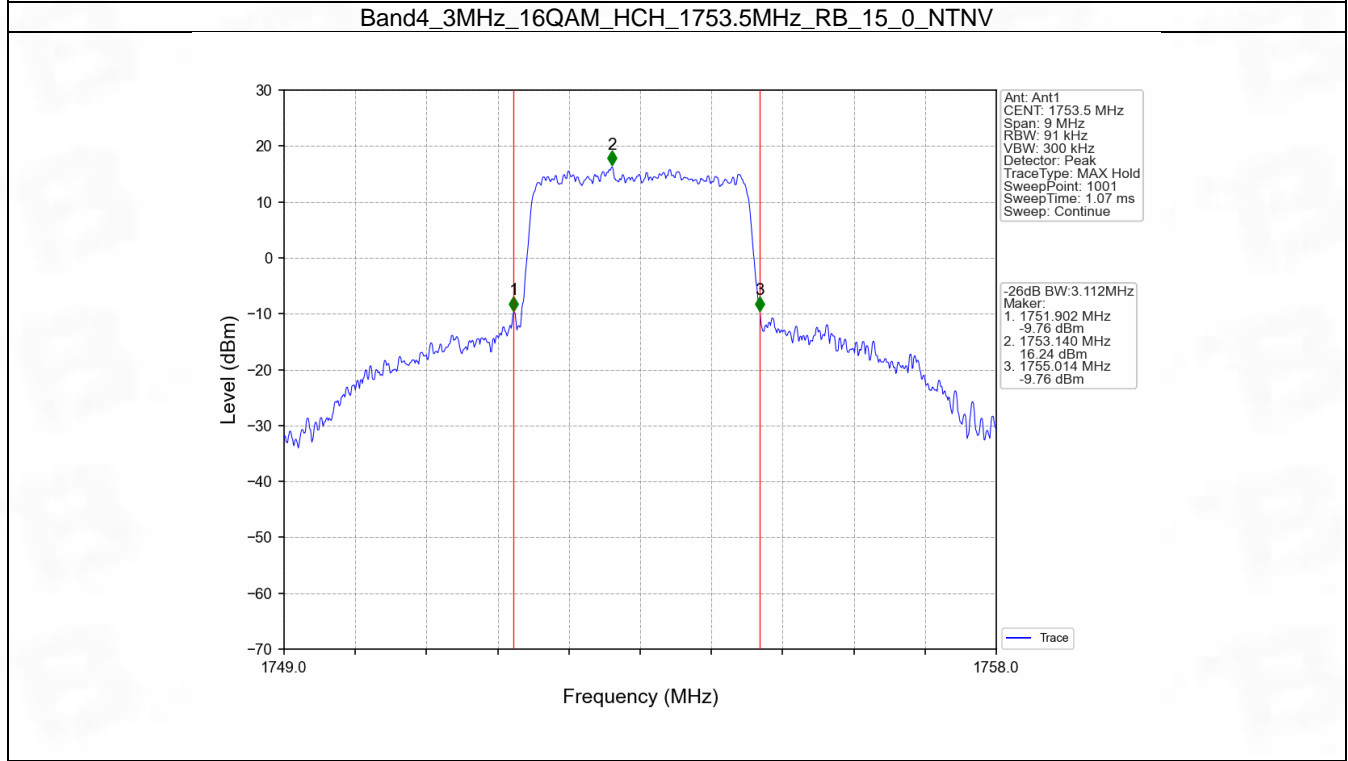
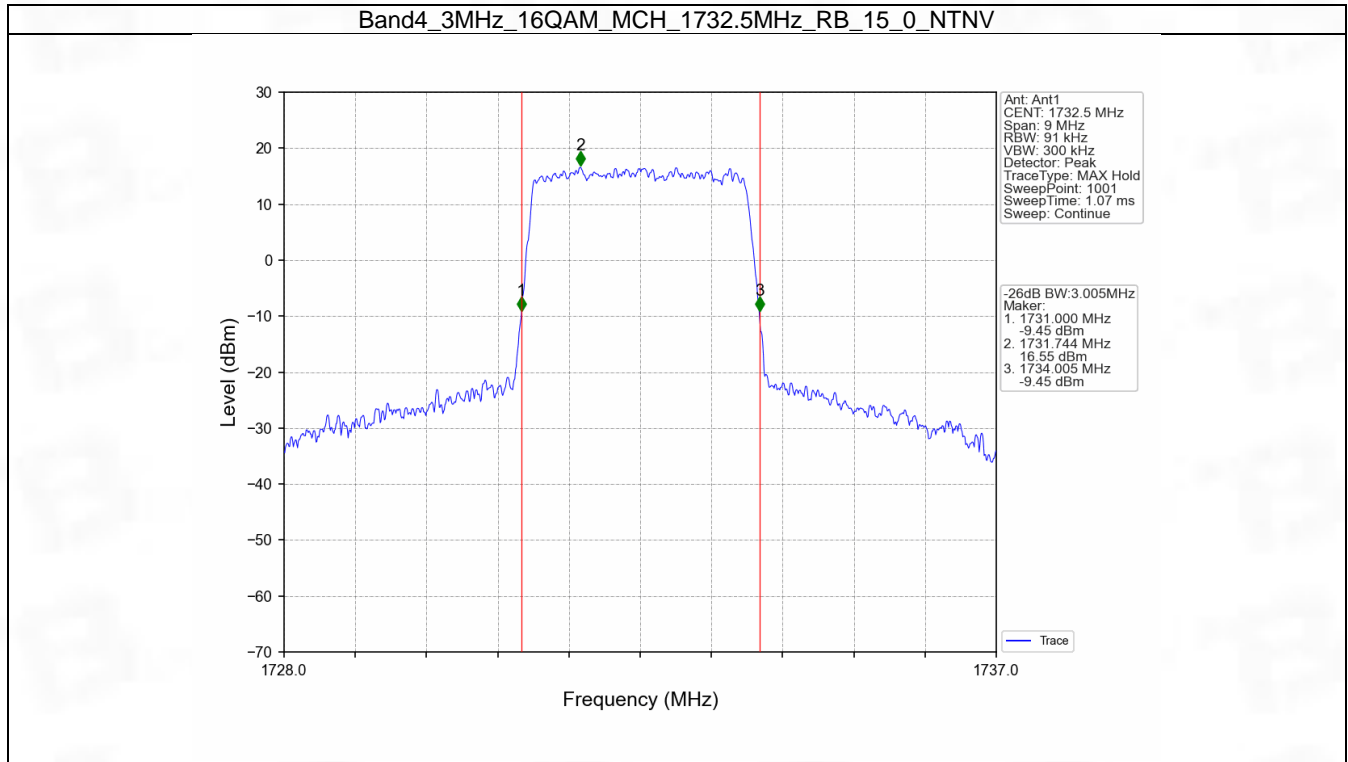


Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV

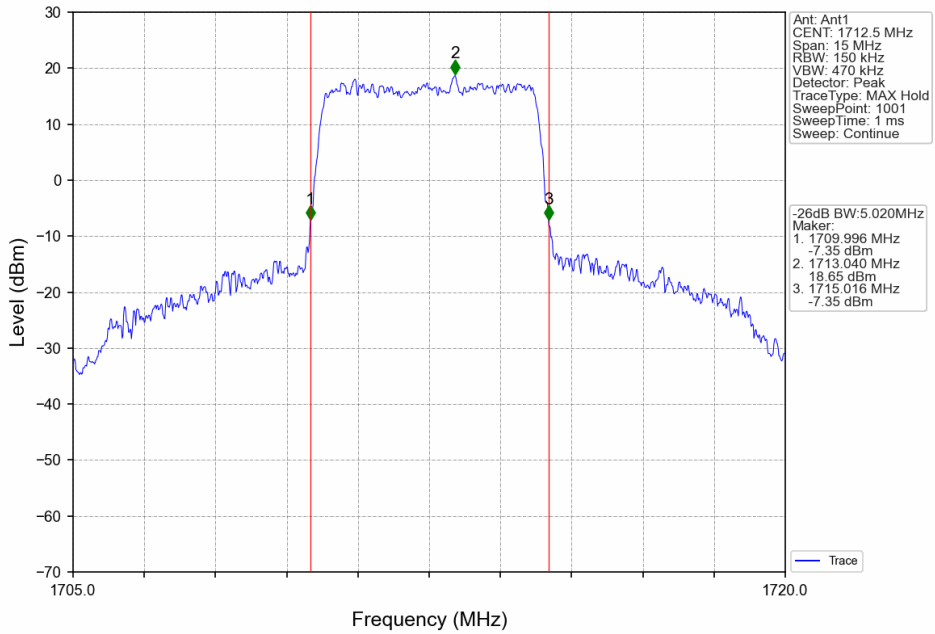


Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV

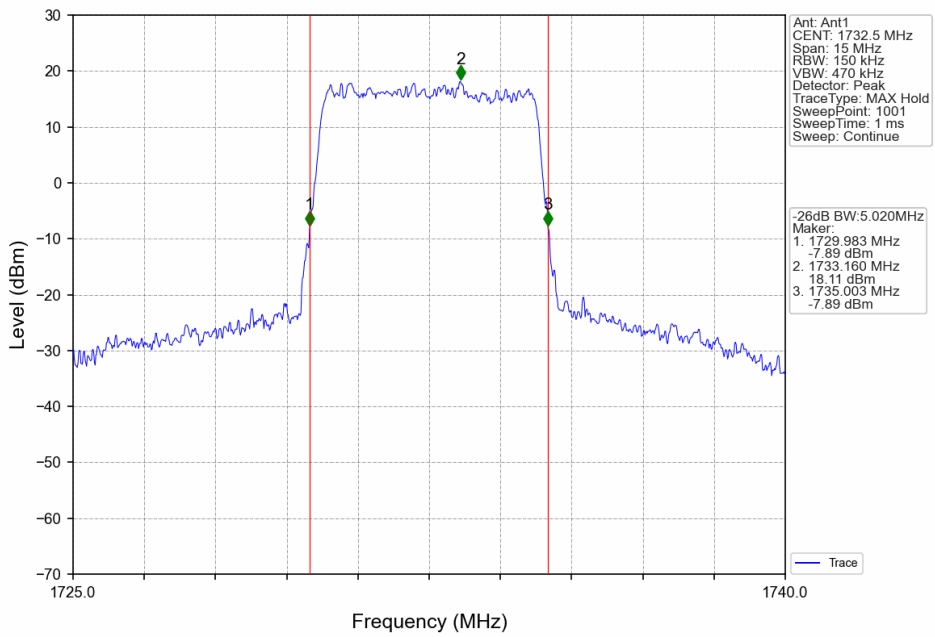




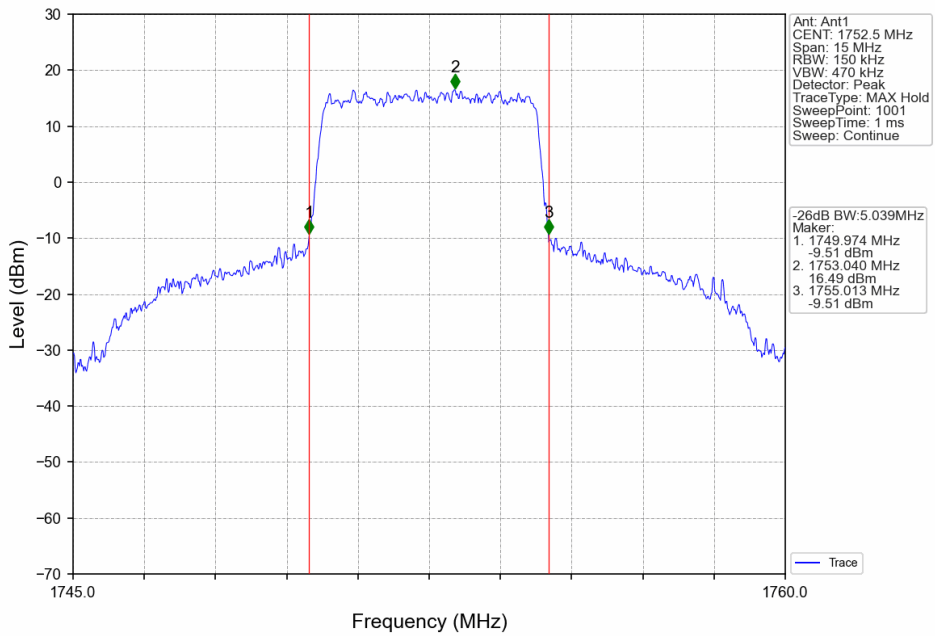
Band4\_5MHz\_QPSK\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



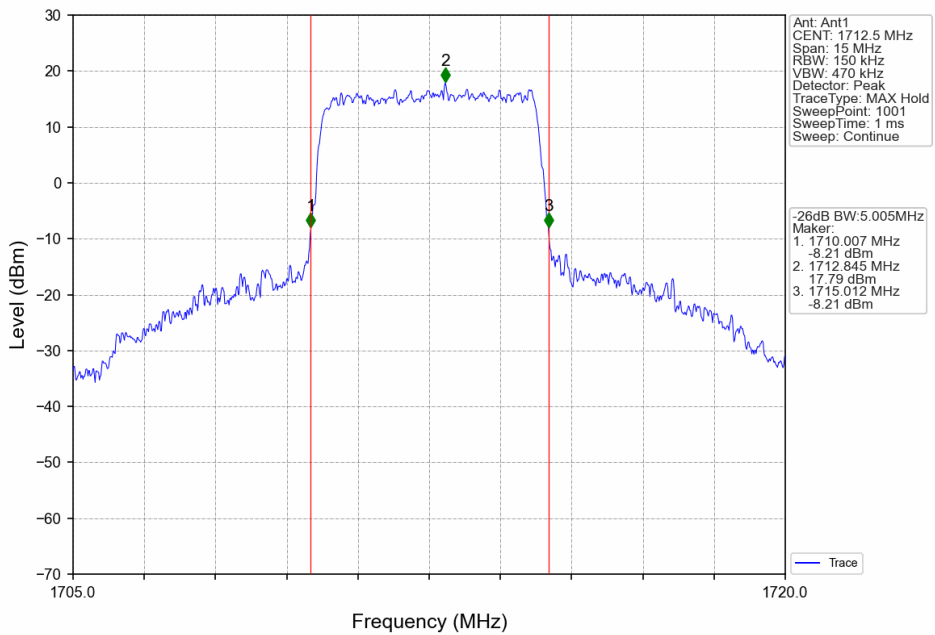
Band4\_5MHz\_QPSK\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV

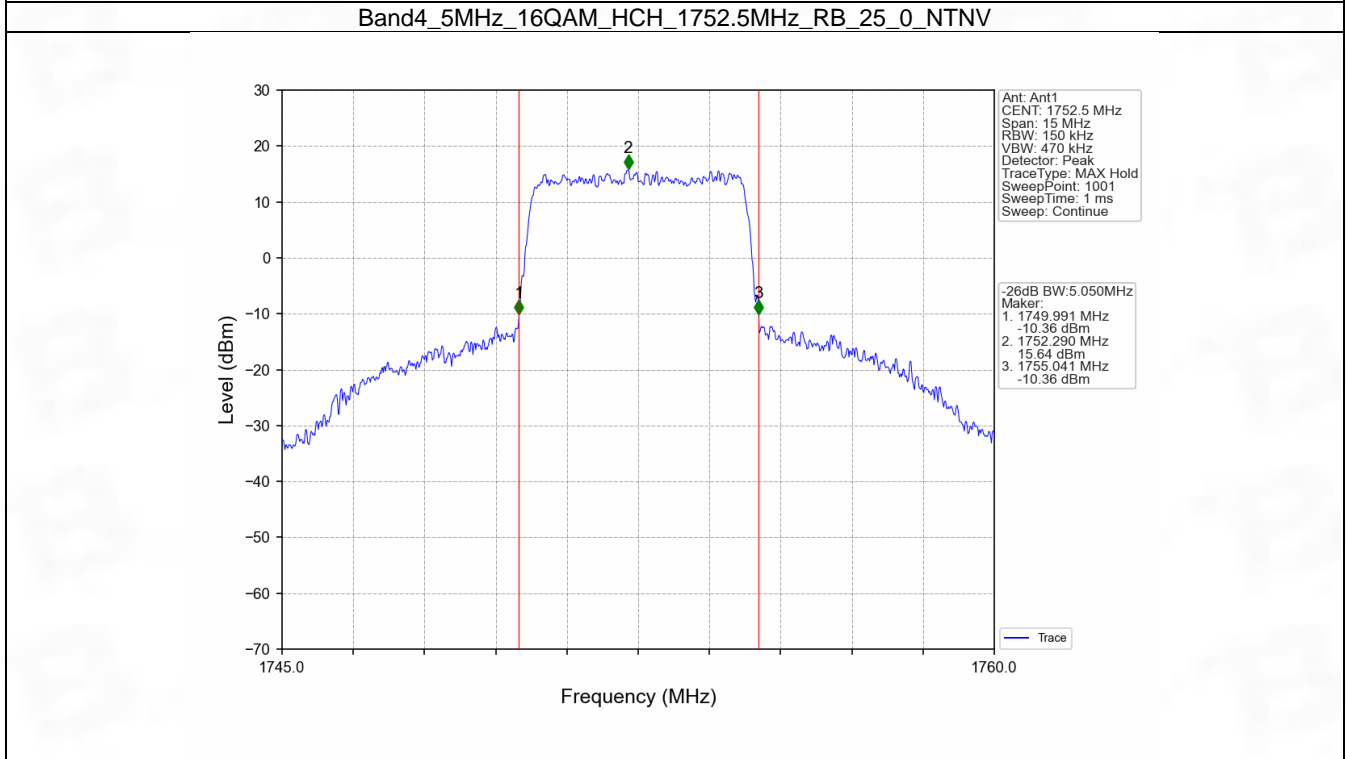
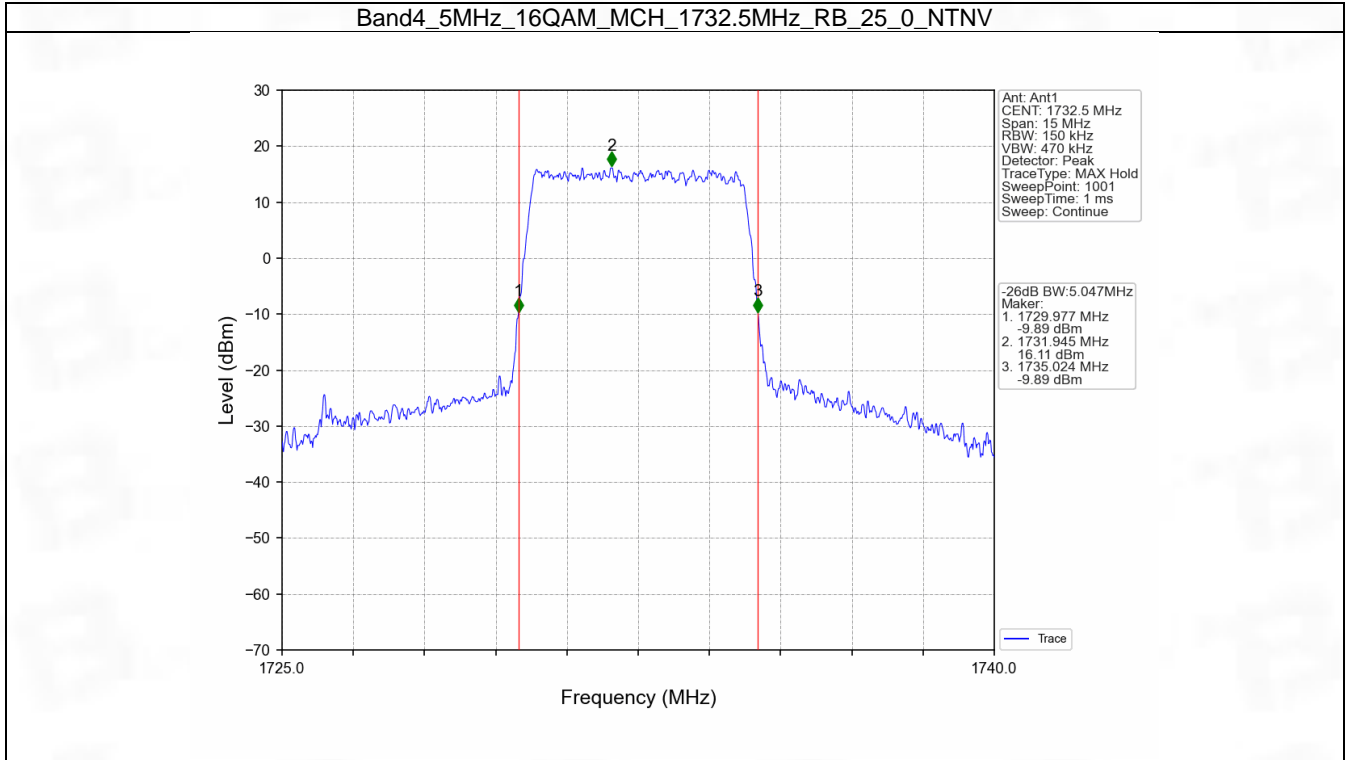


Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV

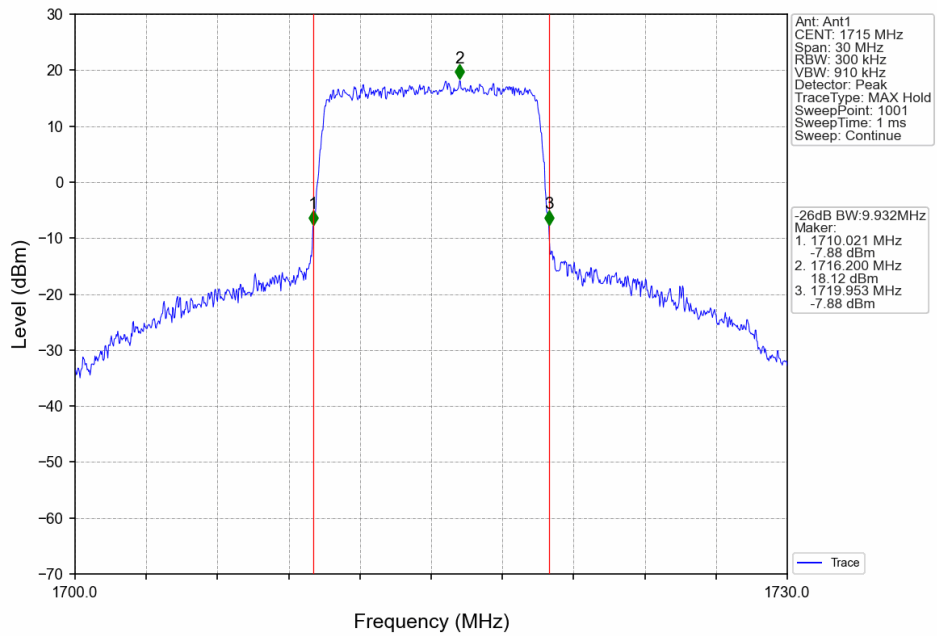


Band4\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV

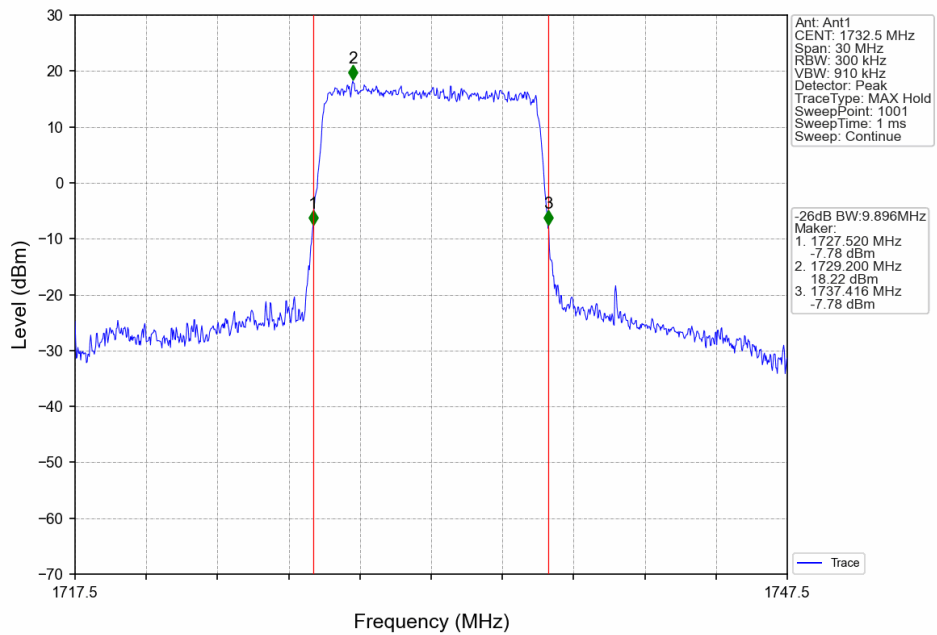




Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_50\_0\_NTNV

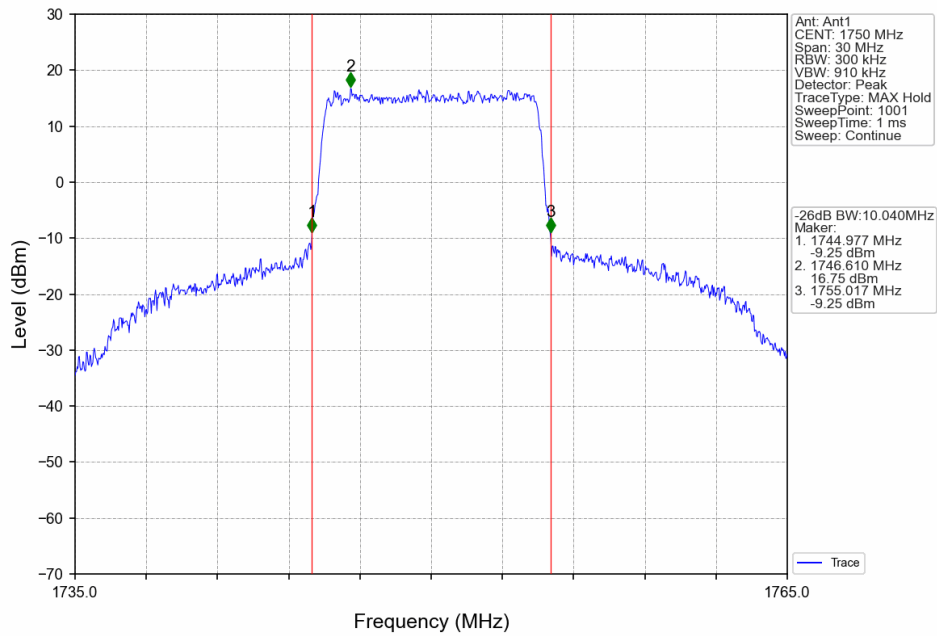


Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV

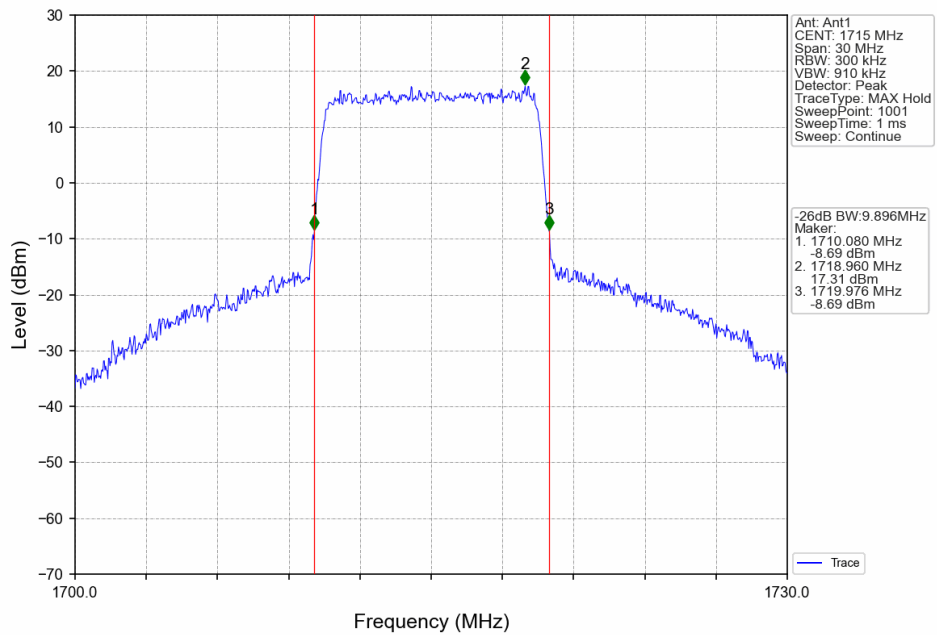




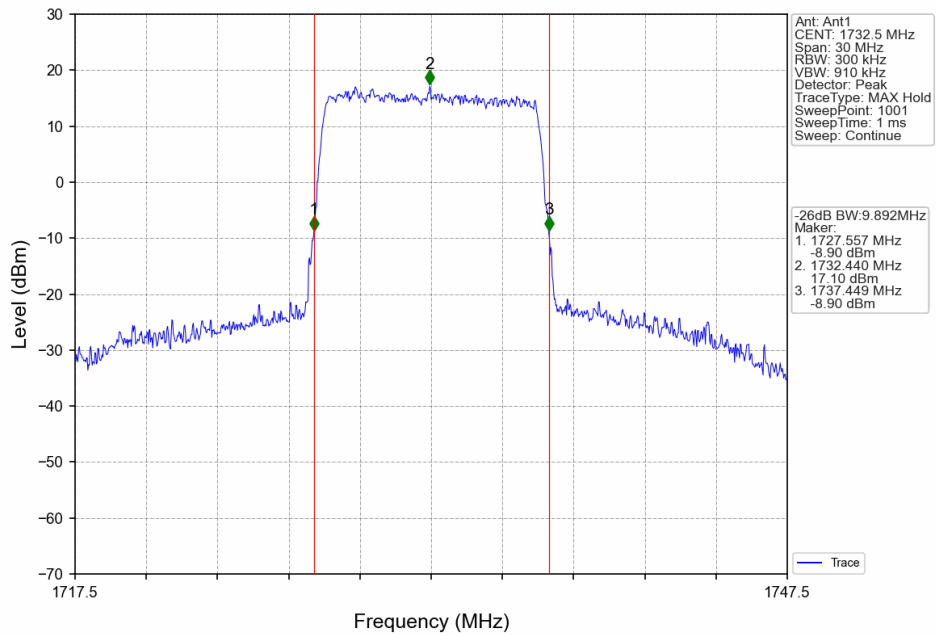
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_50\_0\_NTNV



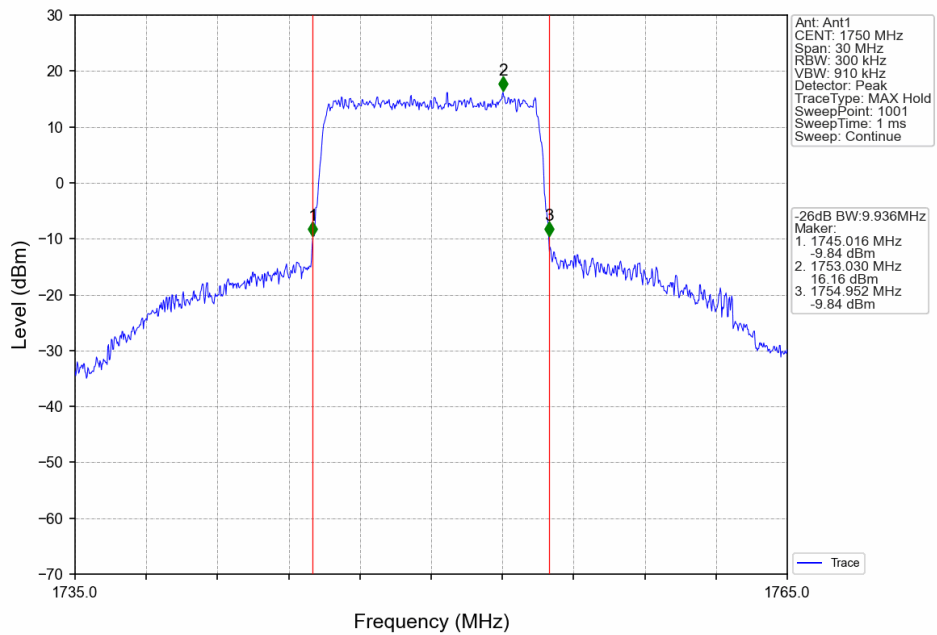
Band4\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_50\_0\_NTNV

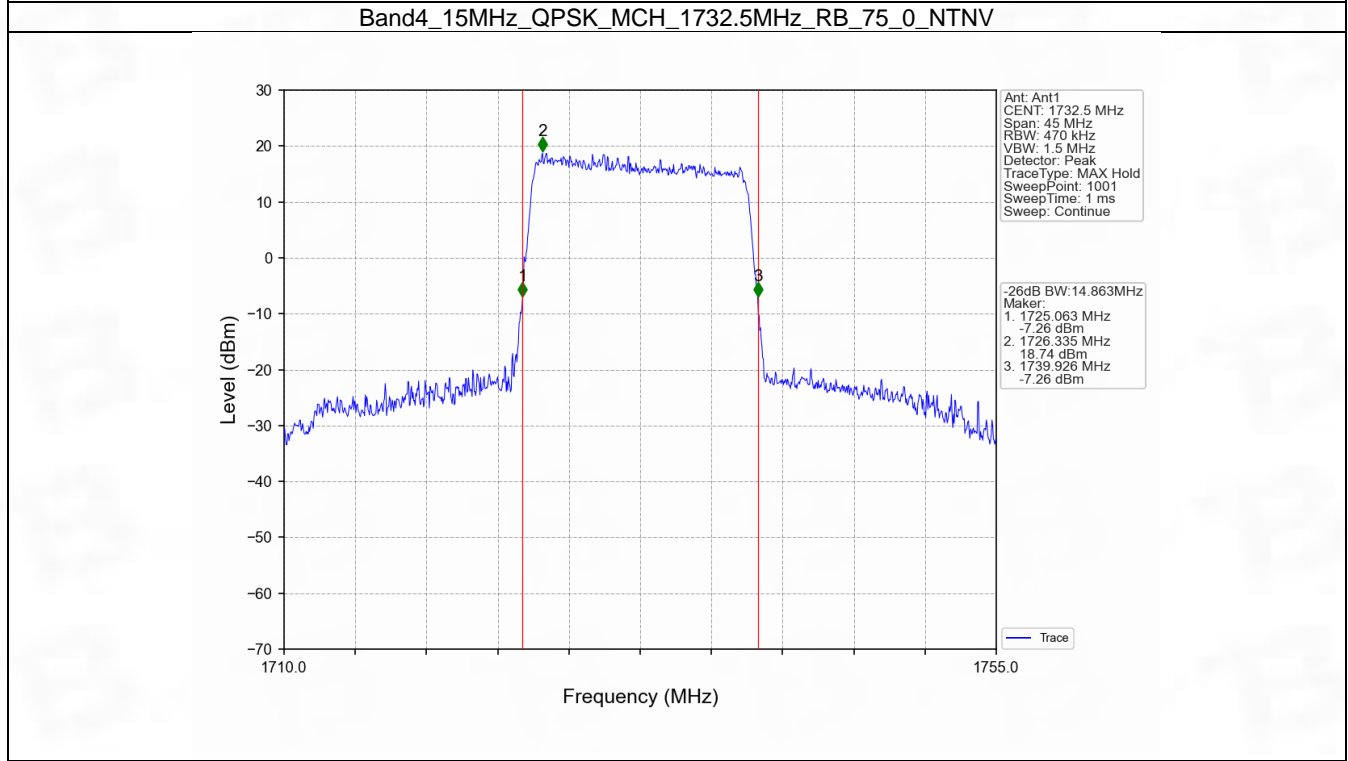
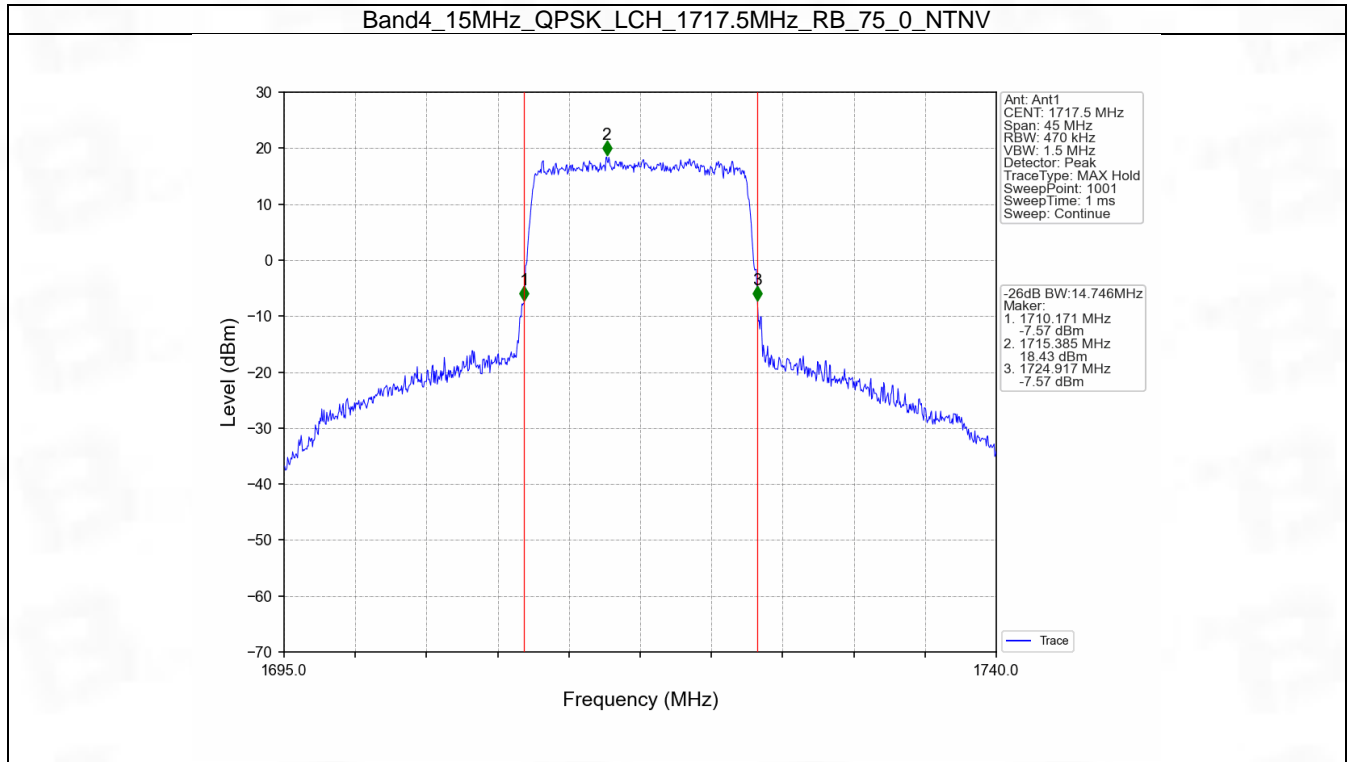


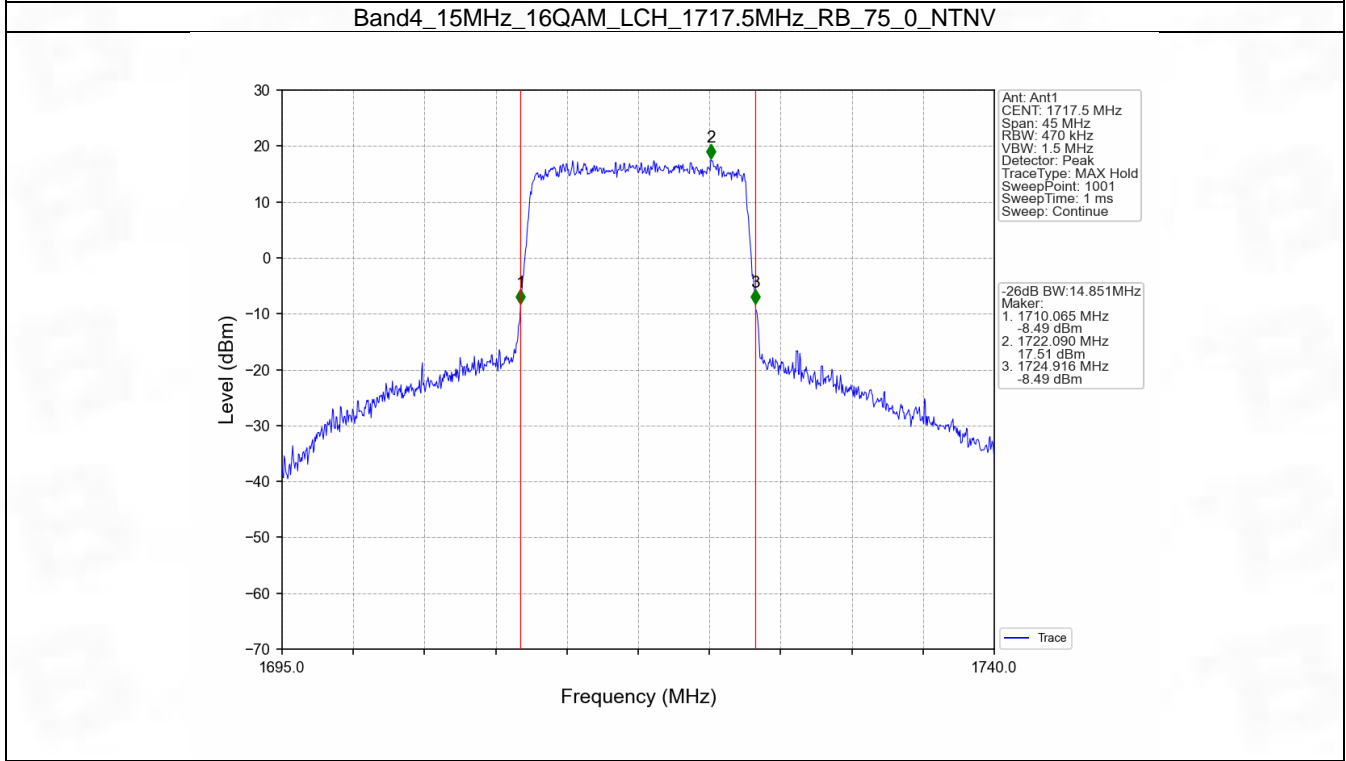
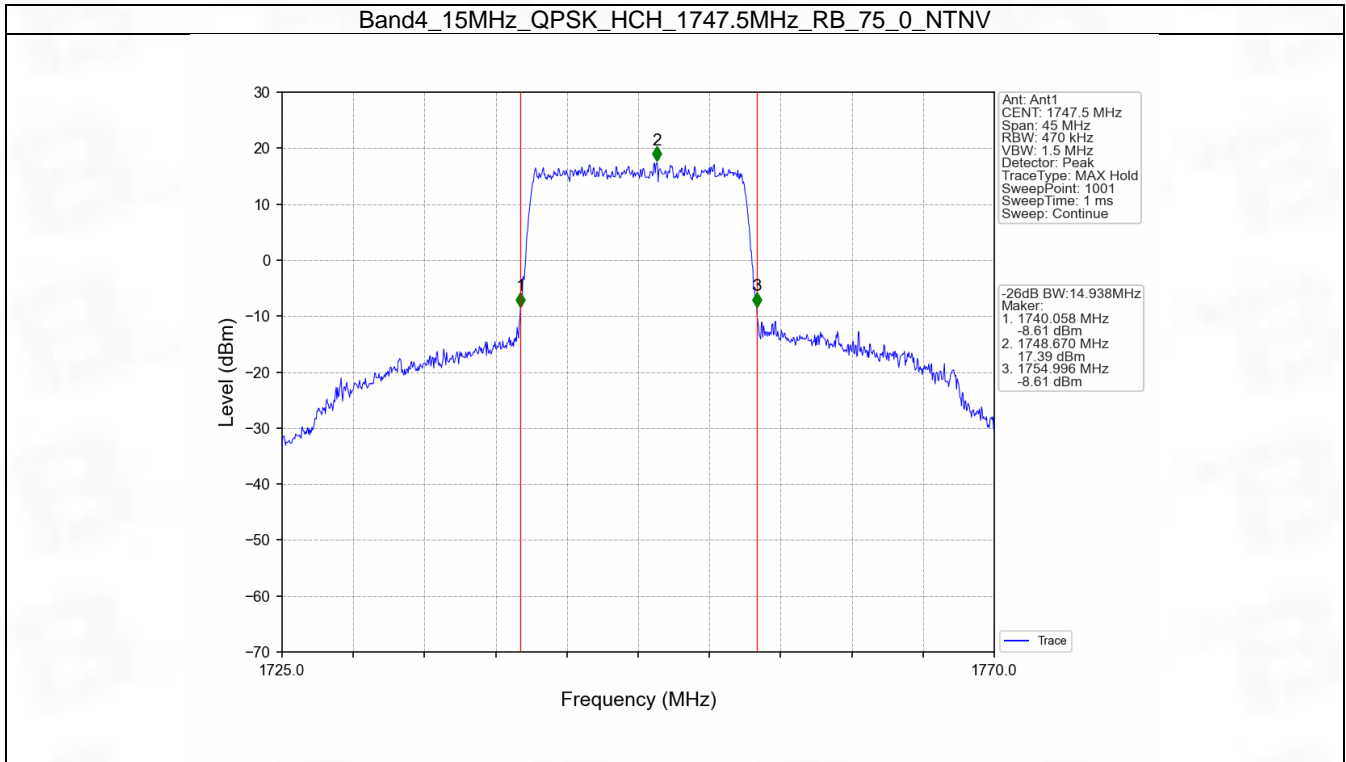
Band4\_10MHz\_16QAM\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



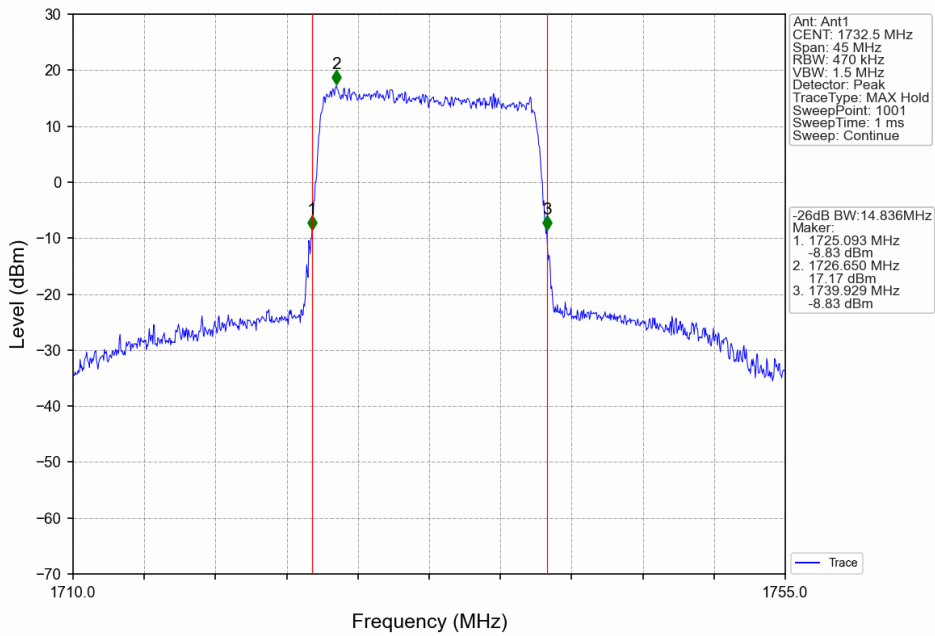
Band4\_10MHz\_16QAM\_HCH\_1750MHz\_RB\_50\_0\_NTNV



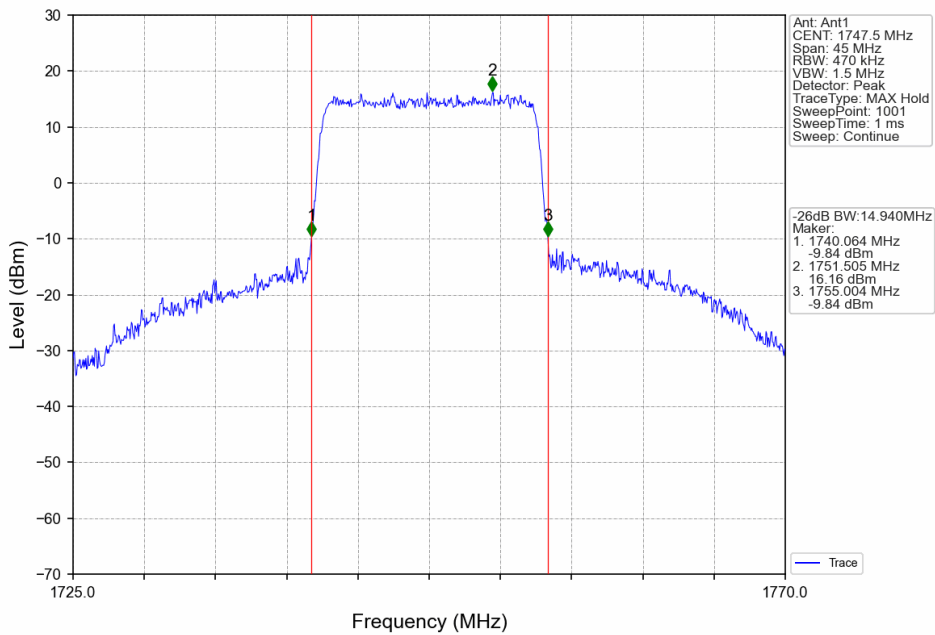




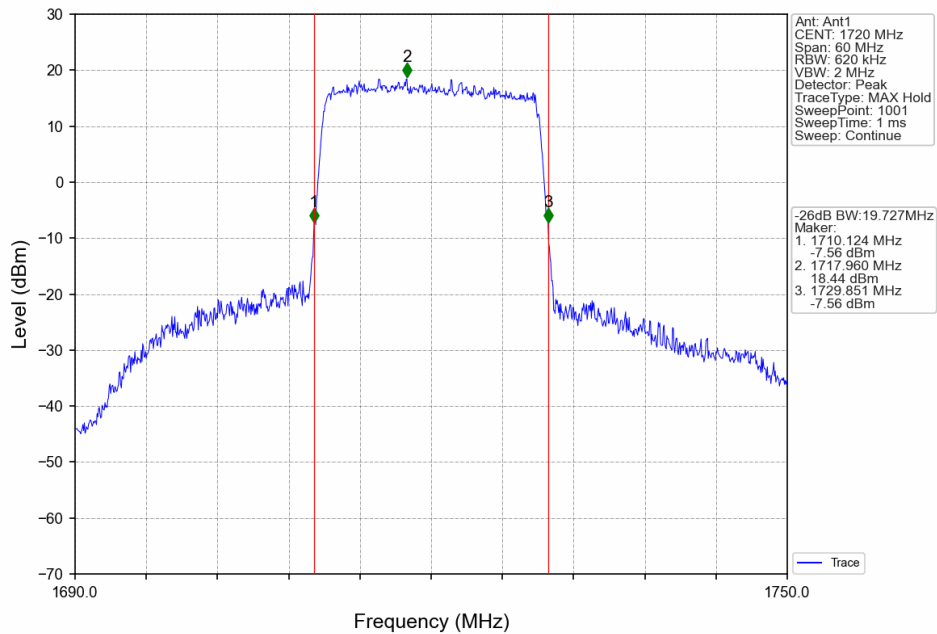
Band4\_15MHz\_16QAM\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



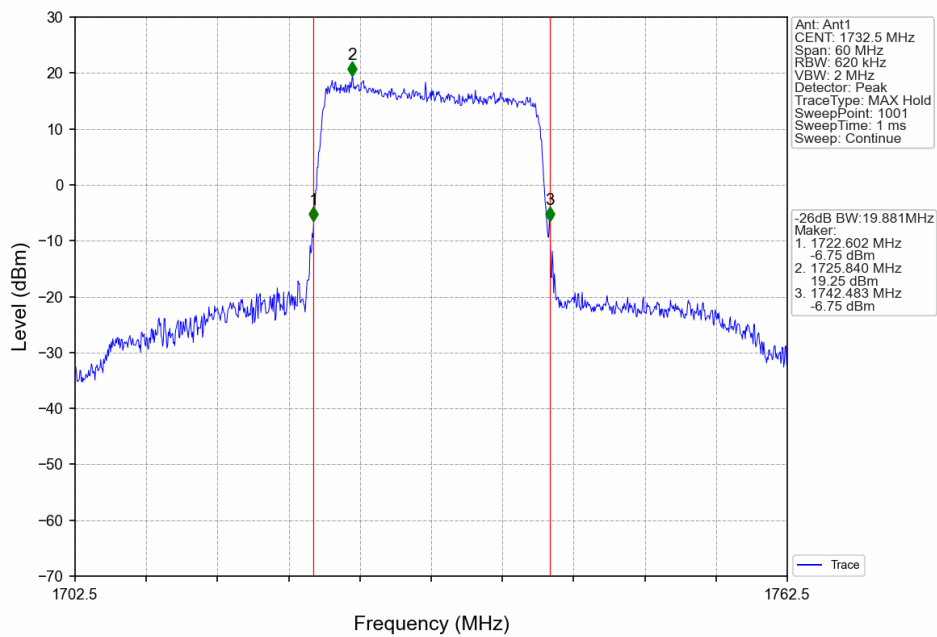
Band4\_15MHz\_16QAM\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV

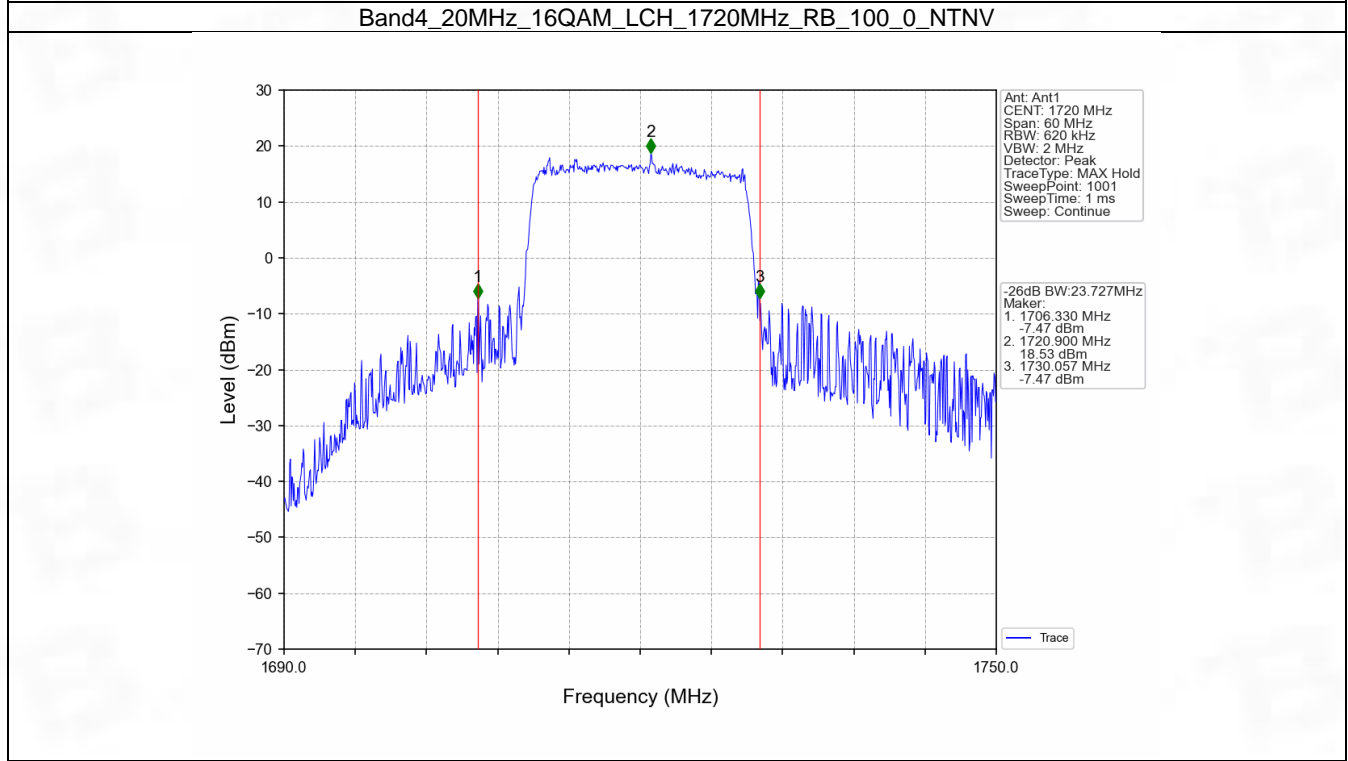
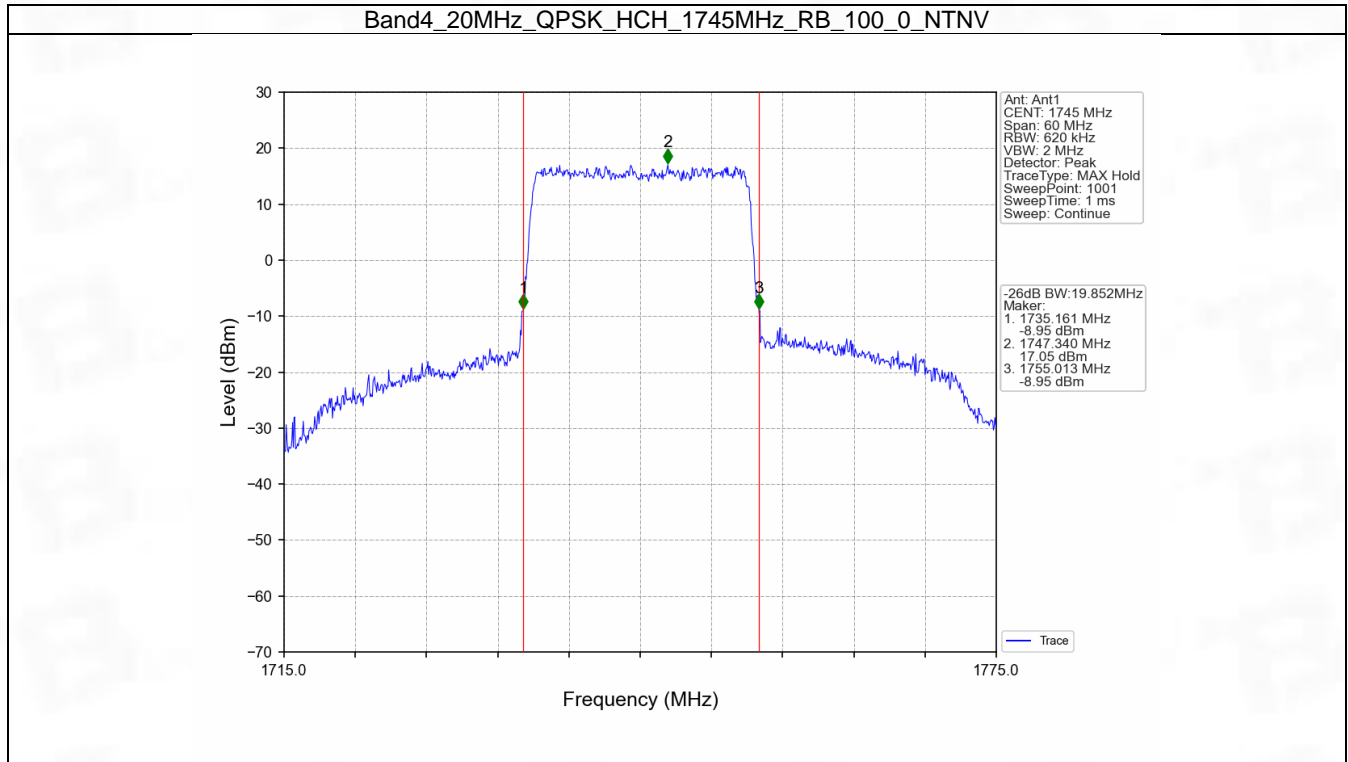


Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_100\_0\_NTNV

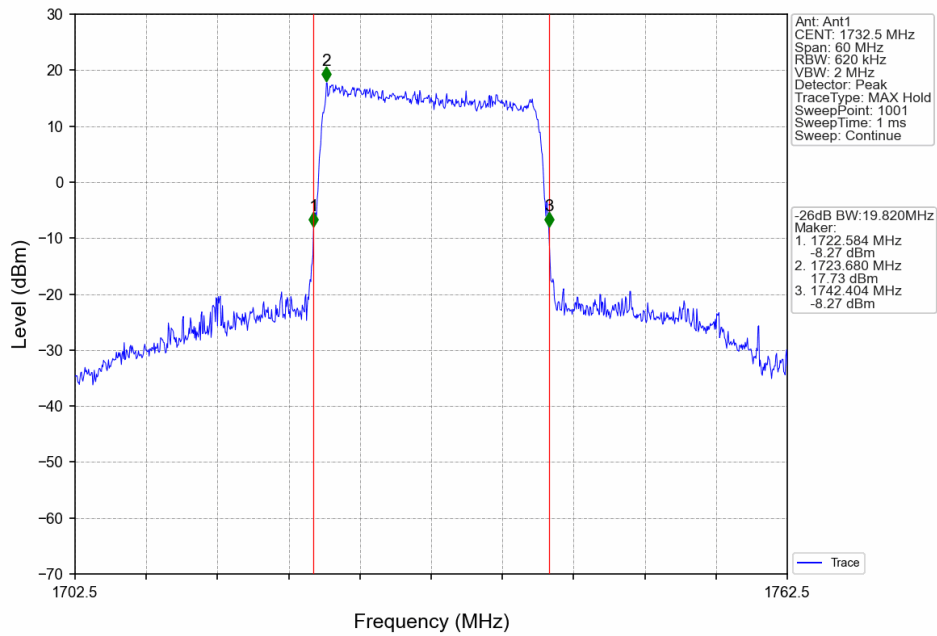


Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV

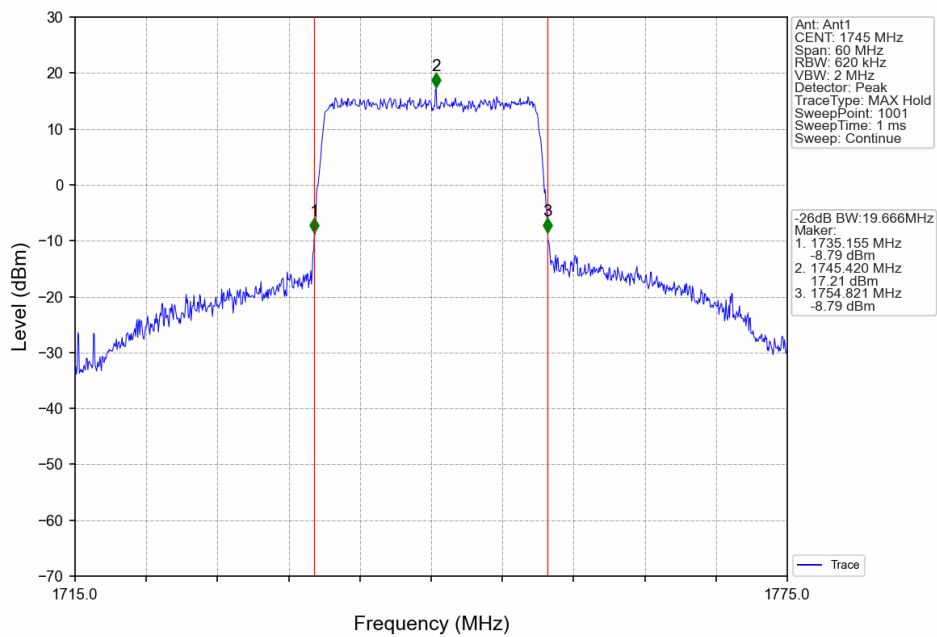




Band4\_20MHz\_16QAM\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



Band4\_20MHz\_16QAM\_HCH\_1745MHz\_RB\_100\_0\_NTNV







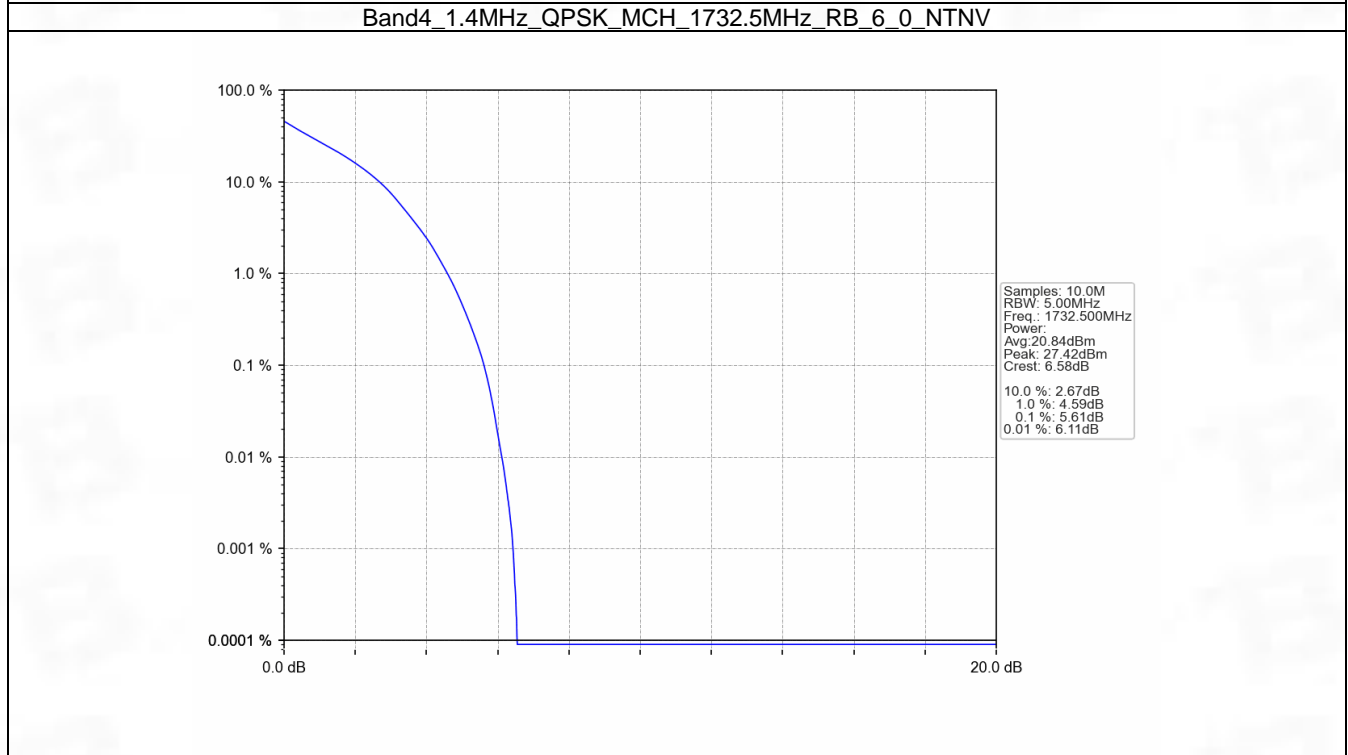
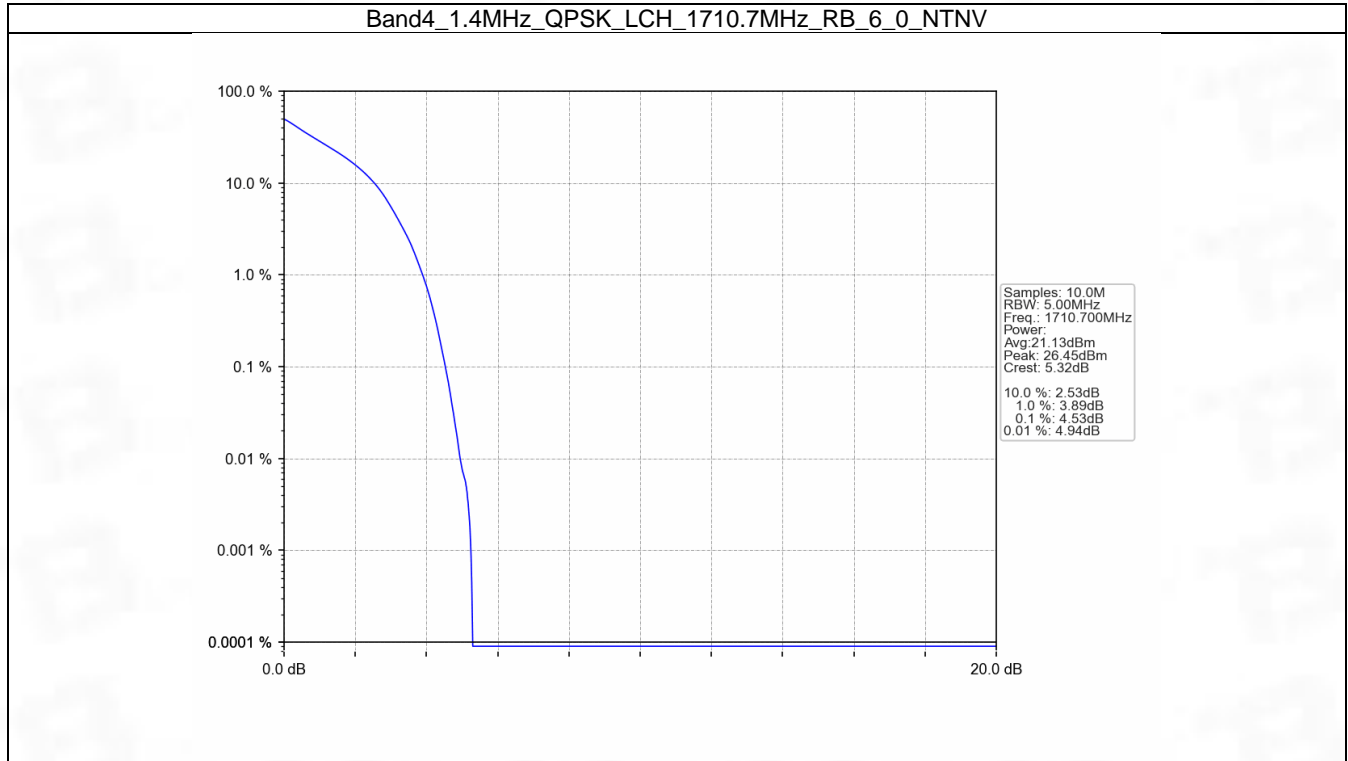
## 5. Peak-Average Ratio

### 5.1 B4\_1.4MHz

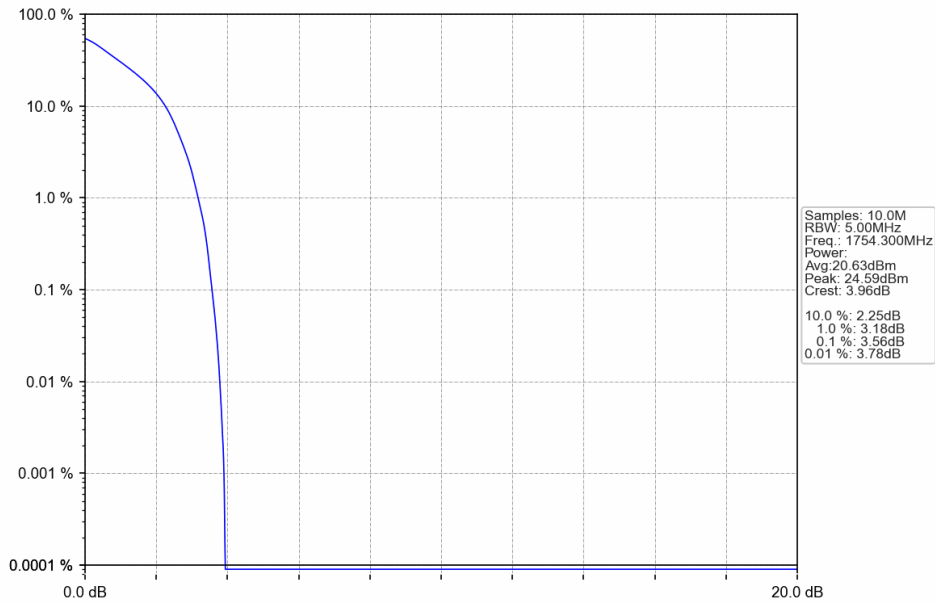
#### 5.1.1 Test Result

| Band: 4 / Bandwidth: 1.4MHz / NTV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 1710.7          | 6             | 0      | 4.53                    | <=13  | Pass    |
|                                   | 1732.5          | 6             | 0      | 5.61                    | <=13  | Pass    |
|                                   | 1754.3          | 6             | 0      | 3.56                    | <=13  | Pass    |
| 16QAM                             | 1710.7          | 6             | 0      | 5.38                    | <=13  | Pass    |
|                                   | 1732.5          | 6             | 0      | 6.41                    | <=13  | Pass    |
|                                   | 1754.3          | 6             | 0      | 4.60                    | <=13  | Pass    |

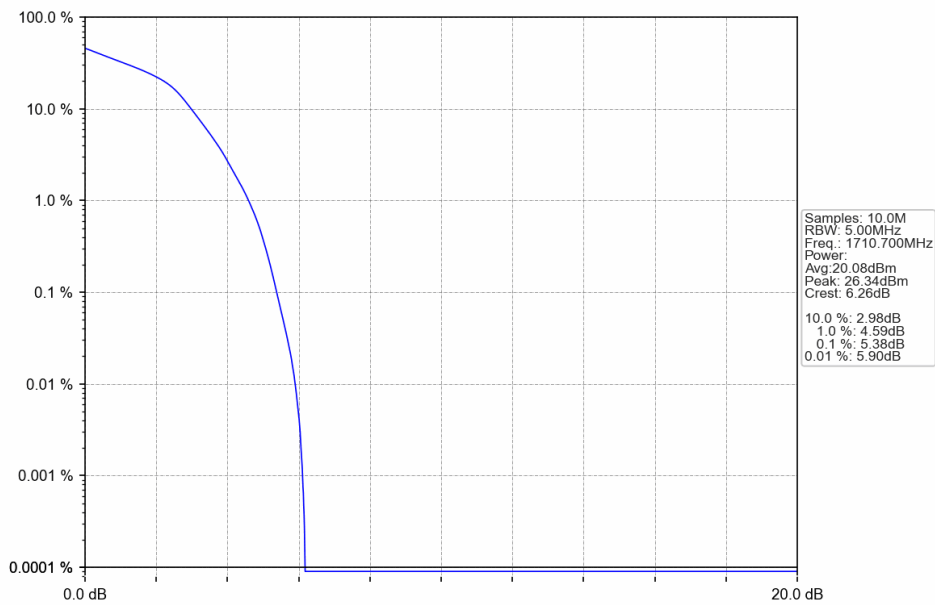
### 5.1.2 Test Graph



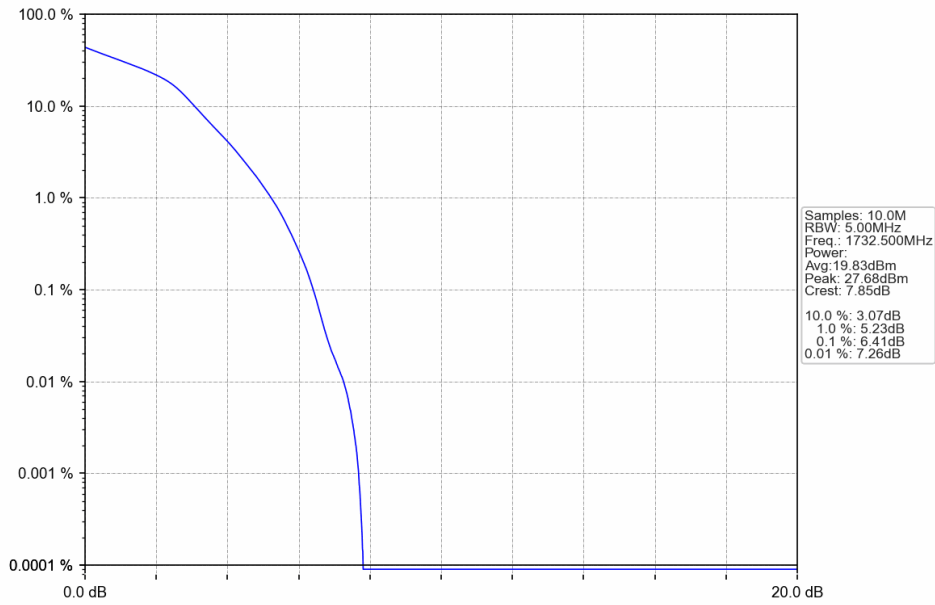
Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



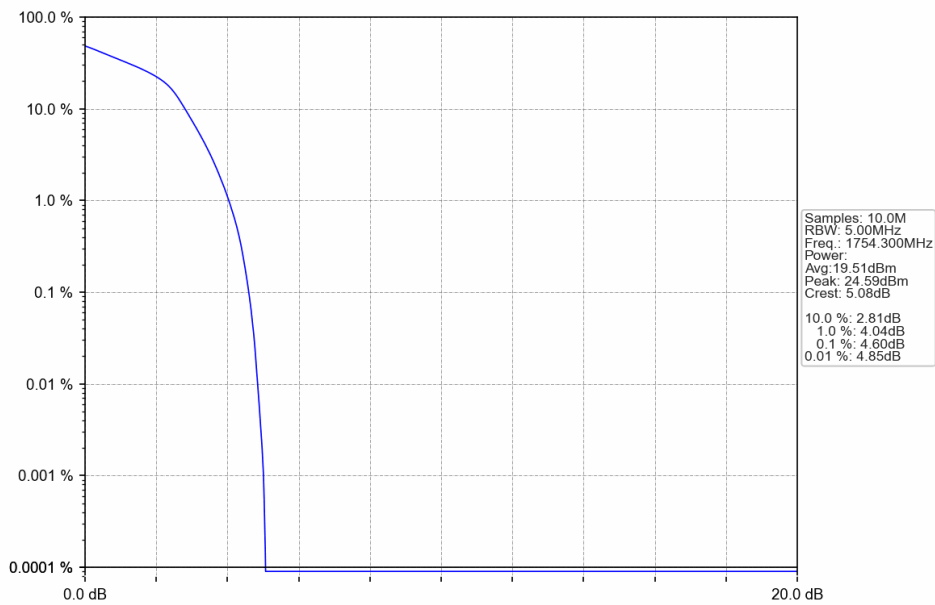
Band4\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV



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



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



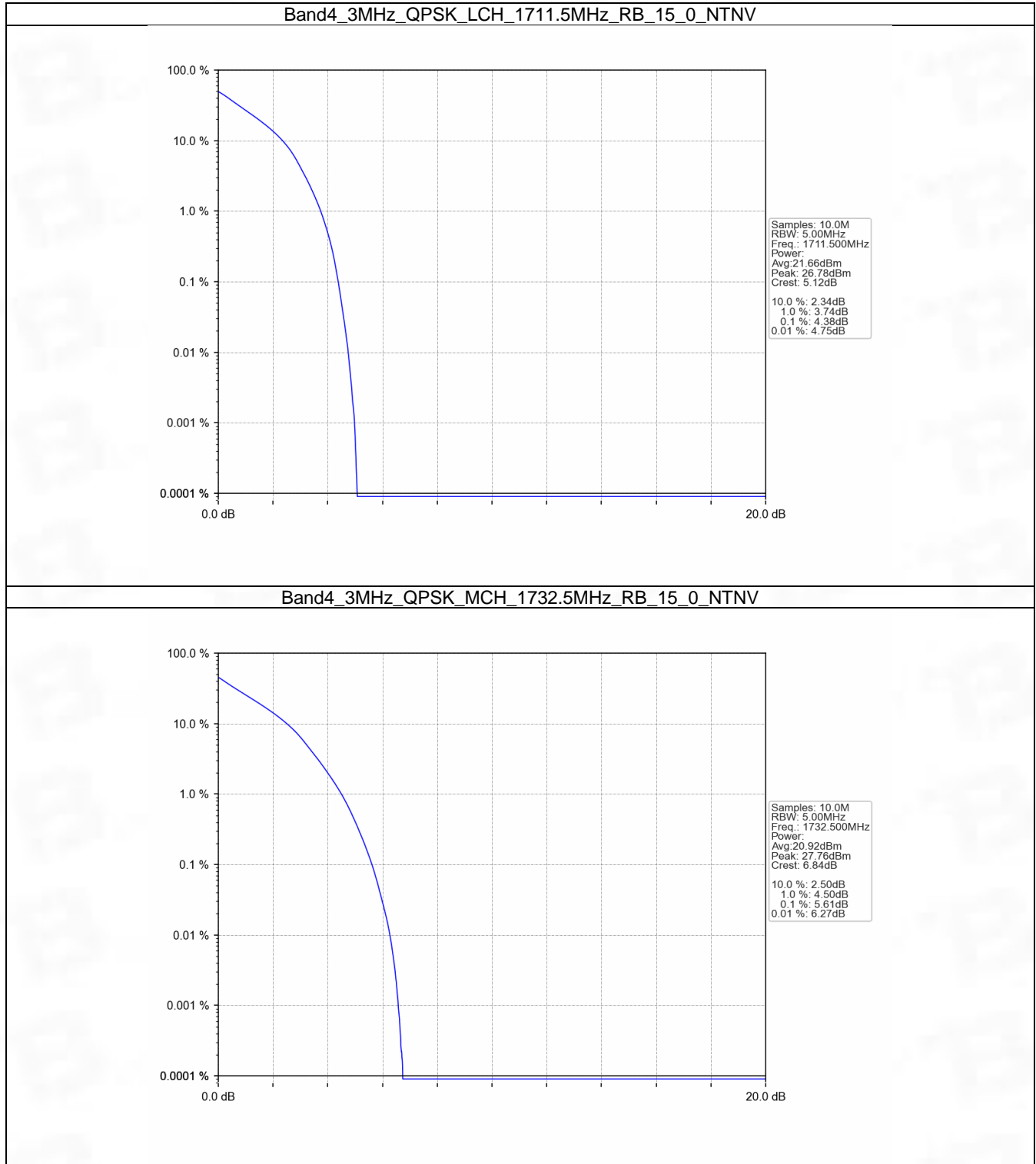


5.2 B4\_3MHz

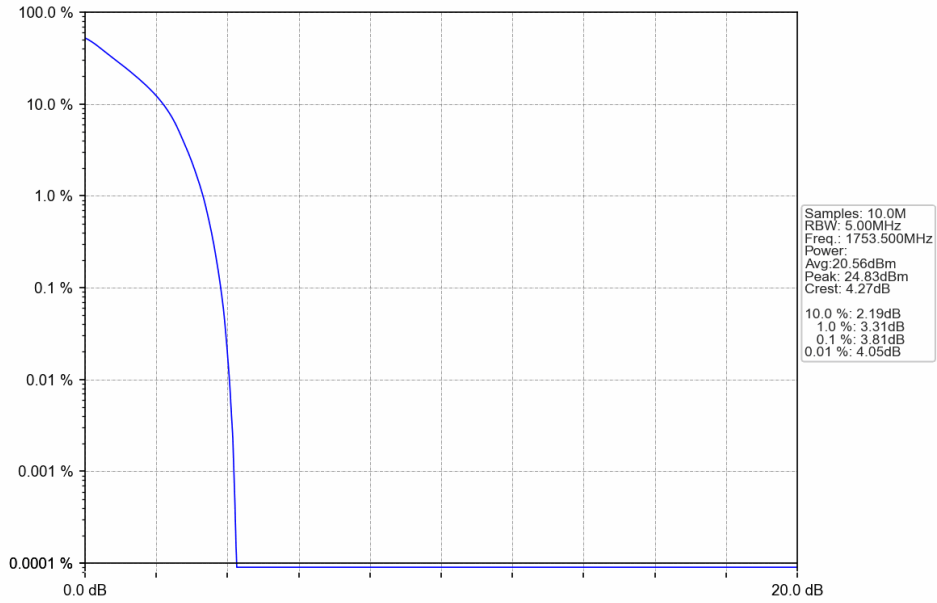
5.2.1 Test Result

| Band: 4 / Bandwidth: 3MHz / NTN |                 |               |        |                         |       |         |
|---------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                 |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                            | 1711.5          | 15            | 0      | 4.38                    | <=13  | Pass    |
|                                 | 1732.5          | 15            | 0      | 5.61                    | <=13  | Pass    |
|                                 | 1753.5          | 15            | 0      | 3.81                    | <=13  | Pass    |
| 16QAM                           | 1711.5          | 15            | 0      | 5.41                    | <=13  | Pass    |
|                                 | 1732.5          | 15            | 0      | 6.47                    | <=13  | Pass    |
|                                 | 1753.5          | 15            | 0      | 4.75                    | <=13  | Pass    |

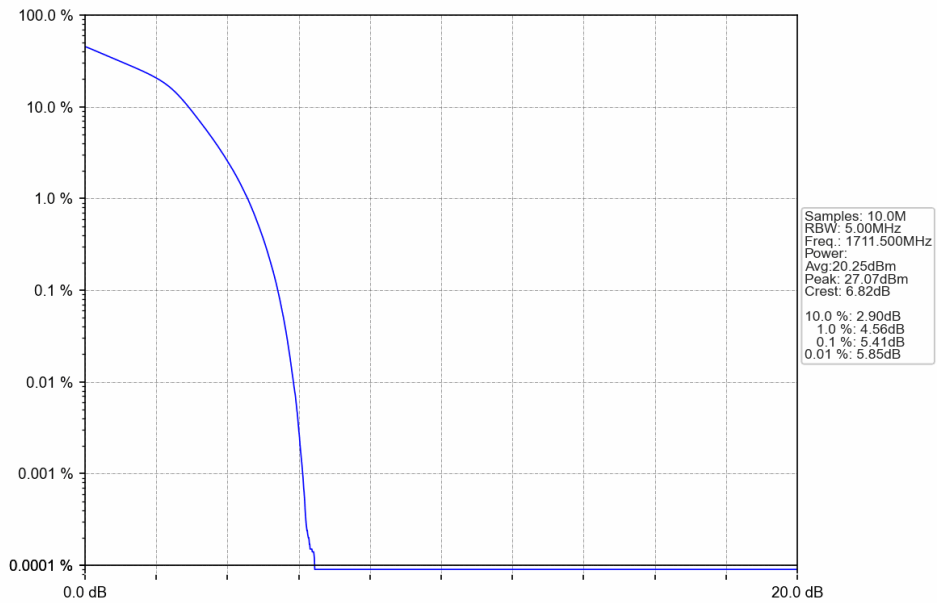
### 5.2.2 Test Graph

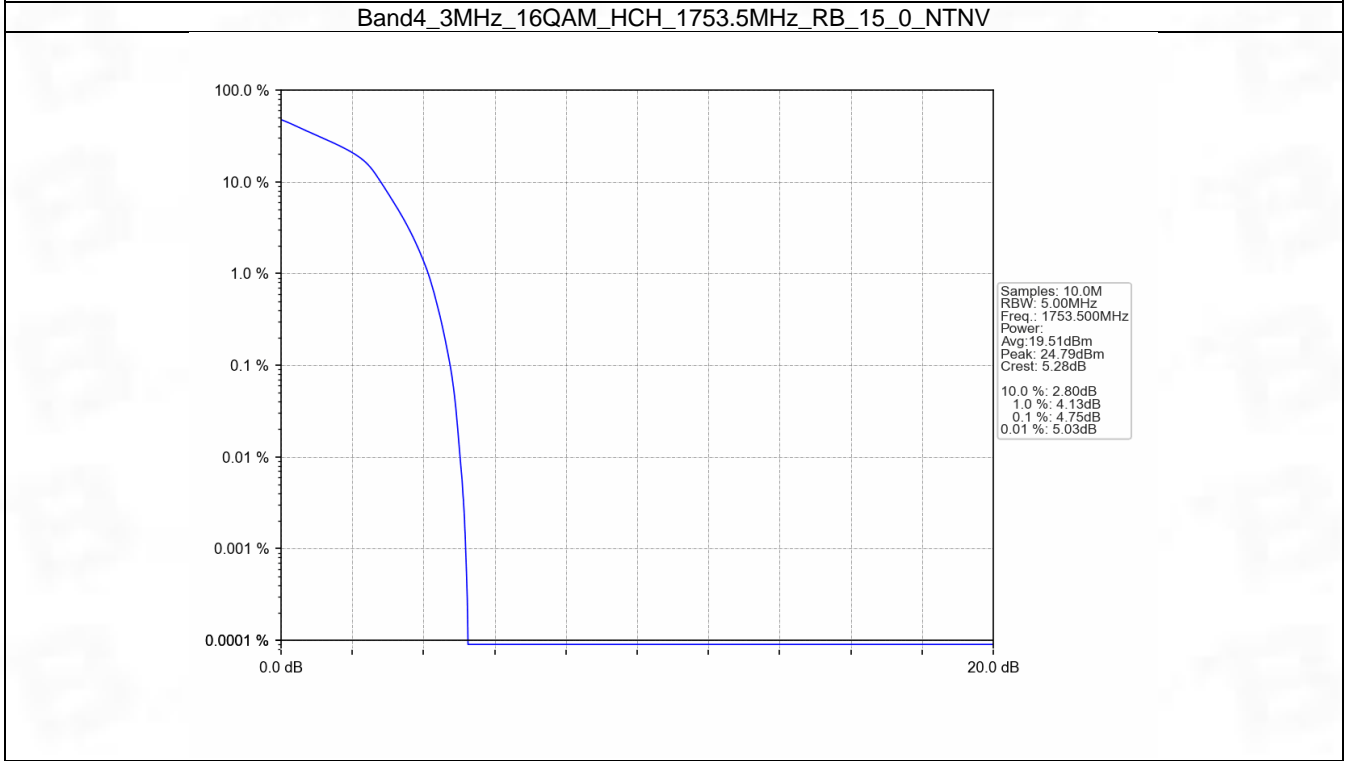
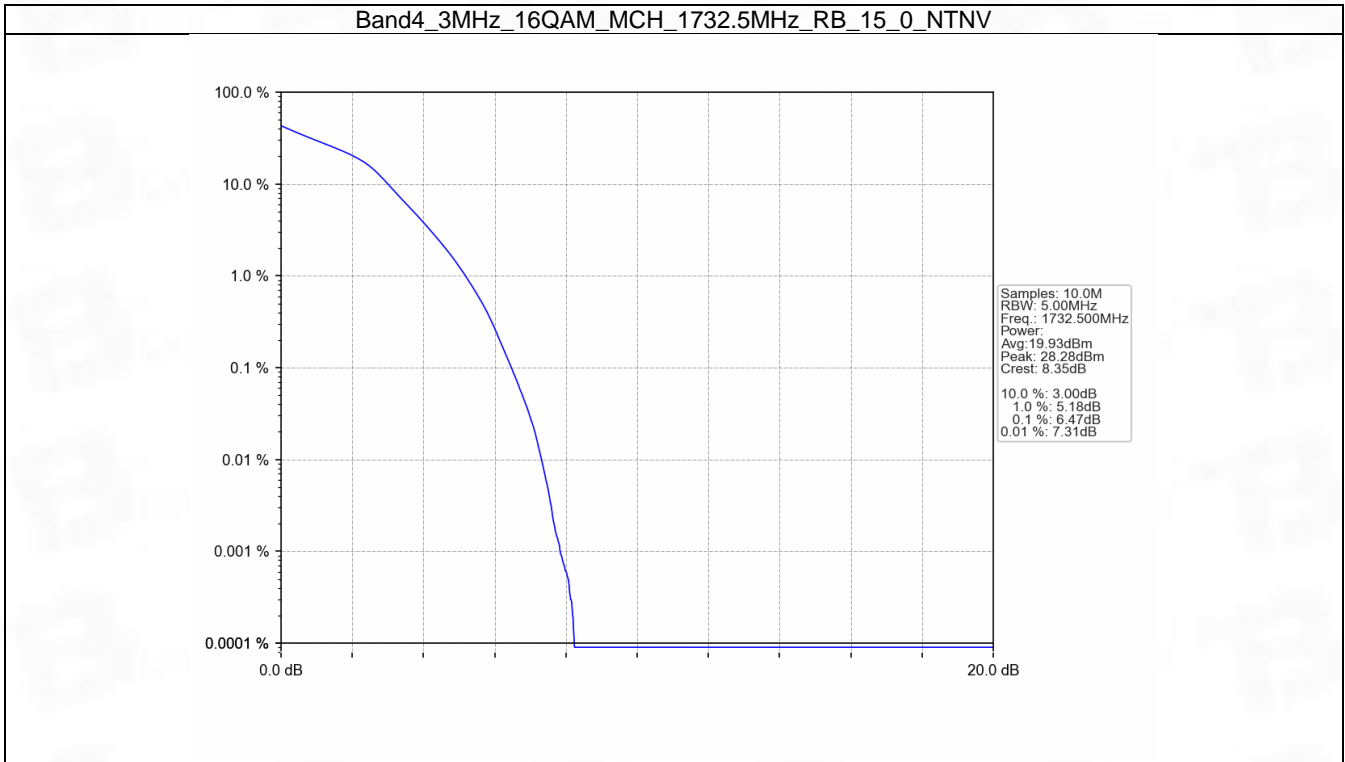


Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV









### 5.3 B4\_5MHz

#### 5.3.1 Test Result

| Band: 4 / Bandwidth: 5MHz / NTN |                 |               |        |                         |       |         |
|---------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                 |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                            | 1712.5          | 25            | 0      | 4.85                    | <=13  | Pass    |
|                                 | 1732.5          | 25            | 0      | 5.77                    | <=13  | Pass    |
|                                 | 1752.5          | 25            | 0      | 4.49                    | <=13  | Pass    |
| 16QAM                           | 1712.5          | 25            | 0      | 5.70                    | <=13  | Pass    |
|                                 | 1732.5          | 25            | 0      | 6.48                    | <=13  | Pass    |
|                                 | 1752.5          | 25            | 0      | 5.23                    | <=13  | Pass    |