

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 B38\_5MHz\_EIRP

| Band: 38 / Bandwidth: 5MHz / NTNV |                 |               |        |                       |            |            |         |         |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|                                   |                 | Size          | Offset |                       |            | Result     | Limit   |         |
| QPSK                              | 2572.5          | 1             | 0      | 23.28                 | 0.66       | 23.94      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 23.35                 | 0.66       | 24.01      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 23.18                 | 0.66       | 23.84      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 22.24                 | 0.66       | 22.90      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 22.32                 | 0.66       | 22.98      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 22.32                 | 0.66       | 22.98      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 22.22                 | 0.66       | 22.88      | <=33.01 | Pass    |
|                                   | 2595            | 1             | 0      | 23.31                 | 0.66       | 23.97      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 23.33                 | 0.66       | 23.99      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 23.19                 | 0.66       | 23.85      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 22.33                 | 0.66       | 22.99      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 22.44                 | 0.66       | 23.10      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 22.38                 | 0.66       | 23.04      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 22.30                 | 0.66       | 22.96      | <=33.01 | Pass    |
|                                   | 2617.5          | 1             | 0      | 23.13                 | 0.66       | 23.79      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 23.28                 | 0.66       | 23.94      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 23.12                 | 0.66       | 23.78      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 22.18                 | 0.66       | 22.84      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 22.12                 | 0.66       | 22.78      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 22.19                 | 0.66       | 22.85      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 22.19                 | 0.66       | 22.85      | <=33.01 | Pass    |
| 16QAM                             | 2572.5          | 1             | 0      | 22.21                 | 0.66       | 22.87      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 22.23                 | 0.66       | 22.89      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 22.21                 | 0.66       | 22.87      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 21.19                 | 0.66       | 21.85      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 21.28                 | 0.66       | 21.94      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 21.36                 | 0.66       | 22.02      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 21.26                 | 0.66       | 21.92      | <=33.01 | Pass    |
|                                   | 2595            | 1             | 0      | 22.31                 | 0.66       | 22.97      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 22.45                 | 0.66       | 23.11      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 22.30                 | 0.66       | 22.96      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 21.36                 | 0.66       | 22.02      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 21.44                 | 0.66       | 22.10      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 21.38                 | 0.66       | 22.04      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 21.34                 | 0.66       | 22.00      | <=33.01 | Pass    |
|                                   | 2617.5          | 1             | 0      | 22.24                 | 0.66       | 22.90      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 22.20                 | 0.66       | 22.86      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 22.22                 | 0.66       | 22.88      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 21.17                 | 0.66       | 21.83      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 21.17                 | 0.66       | 21.83      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 21.25                 | 0.66       | 21.91      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 21.16                 | 0.66       | 21.82      | <=33.01 | Pass    |
| 64QAM                             | 2572.5          | 1             | 0      | 21.08                 | 0.66       | 21.74      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 21.30                 | 0.66       | 21.96      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 21.12                 | 0.66       | 21.78      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 20.22                 | 0.66       | 20.88      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 20.35                 | 0.66       | 21.01      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 20.26                 | 0.66       | 20.92      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 20.29                 | 0.66       | 20.95      | <=33.01 | Pass    |

|  |                                          |    |    |       |      |       |         |      |
|--|------------------------------------------|----|----|-------|------|-------|---------|------|
|  | 2595                                     | 1  | 0  | 21.33 | 0.66 | 21.99 | <=33.01 | Pass |
|  |                                          |    | 13 | 21.39 | 0.66 | 22.05 | <=33.01 | Pass |
|  |                                          |    | 24 | 21.37 | 0.66 | 22.03 | <=33.01 | Pass |
|  |                                          | 12 | 0  | 20.39 | 0.66 | 21.05 | <=33.01 | Pass |
|  |                                          |    | 6  | 20.43 | 0.66 | 21.09 | <=33.01 | Pass |
|  |                                          |    | 13 | 20.38 | 0.66 | 21.04 | <=33.01 | Pass |
|  |                                          | 25 | 0  | 20.36 | 0.66 | 21.02 | <=33.01 | Pass |
|  | 2617.5                                   | 1  | 0  | 21.27 | 0.66 | 21.93 | <=33.01 | Pass |
|  |                                          |    | 13 | 21.29 | 0.66 | 21.95 | <=33.01 | Pass |
|  |                                          |    | 24 | 21.18 | 0.66 | 21.84 | <=33.01 | Pass |
|  |                                          | 12 | 0  | 20.19 | 0.66 | 20.85 | <=33.01 | Pass |
|  |                                          |    | 6  | 20.16 | 0.66 | 20.82 | <=33.01 | Pass |
|  |                                          |    | 13 | 20.22 | 0.66 | 20.88 | <=33.01 | Pass |
|  |                                          | 25 | 0  | 20.18 | 0.66 | 20.84 | <=33.01 | Pass |
|  | Note1: EIRP=Conducted Power+Antenna Gain |    |    |       |      |       |         |      |

### 1.1.2 B38\_10MHz\_EIRP

| Band: 38 / Bandwidth: 10MHz / NTNV |                 |               |        |                       |            |            |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result     | Limit   |         |
| QPSK                               | 2575            | 1             | 0      | 23.21                 | 0.66       | 23.87      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 23.25                 | 0.66       | 23.91      | <=33.01 | Pass    |
|                                    |                 |               | 49     | 23.20                 | 0.66       | 23.86      | <=33.01 | Pass    |
|                                    |                 | 25            | 0      | 22.32                 | 0.66       | 22.98      | <=33.01 | Pass    |
|                                    |                 |               | 13     | 22.34                 | 0.66       | 23.00      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.26                 | 0.66       | 22.92      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 22.35                 | 0.66       | 23.01      | <=33.01 | Pass    |
|                                    | 2595            | 1             | 0      | 23.32                 | 0.66       | 23.98      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 23.39                 | 0.66       | 24.05      | <=33.01 | Pass    |
|                                    |                 |               | 49     | 23.32                 | 0.66       | 23.98      | <=33.01 | Pass    |
|                                    |                 | 25            | 0      | 22.33                 | 0.66       | 22.99      | <=33.01 | Pass    |
|                                    |                 |               | 13     | 22.37                 | 0.66       | 23.03      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.30                 | 0.66       | 22.96      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 22.39                 | 0.66       | 23.05      | <=33.01 | Pass    |
|                                    | 2615            | 1             | 0      | 23.24                 | 0.66       | 23.90      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 23.21                 | 0.66       | 23.87      | <=33.01 | Pass    |
|                                    |                 |               | 49     | 23.17                 | 0.66       | 23.83      | <=33.01 | Pass    |
|                                    |                 | 25            | 0      | 22.20                 | 0.66       | 22.86      | <=33.01 | Pass    |
|                                    |                 |               | 13     | 22.23                 | 0.66       | 22.89      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.15                 | 0.66       | 22.81      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 22.19                 | 0.66       | 22.85      | <=33.01 | Pass    |
| 16QAM                              | 2575            | 1             | 0      | 22.23                 | 0.66       | 22.89      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.36                 | 0.66       | 23.02      | <=33.01 | Pass    |
|                                    |                 |               | 49     | 22.28                 | 0.66       | 22.94      | <=33.01 | Pass    |
|                                    |                 | 25            | 0      | 21.26                 | 0.66       | 21.92      | <=33.01 | Pass    |
|                                    |                 |               | 13     | 21.31                 | 0.66       | 21.97      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 21.32                 | 0.66       | 21.98      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 21.32                 | 0.66       | 21.98      | <=33.01 | Pass    |
|                                    | 2595            | 1             | 0      | 22.28                 | 0.66       | 22.94      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.38                 | 0.66       | 23.04      | <=33.01 | Pass    |
|                                    |                 |               | 49     | 22.28                 | 0.66       | 22.94      | <=33.01 | Pass    |
|                                    |                 | 25            | 0      | 21.28                 | 0.66       | 21.94      | <=33.01 | Pass    |
|                                    |                 |               | 13     | 21.41                 | 0.66       | 22.07      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 21.35                 | 0.66       | 22.01      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 21.38                 | 0.66       | 22.04      | <=33.01 | Pass    |
|                                    | 2615            | 1             | 0      | 22.31                 | 0.66       | 22.97      | <=33.01 | Pass    |

|       |      |                                          |    |       |       |       |         |         |      |  |
|-------|------|------------------------------------------|----|-------|-------|-------|---------|---------|------|--|
|       |      |                                          | 25 | 22.34 | 0.66  | 23.00 | <=33.01 | Pass    |      |  |
|       |      |                                          | 49 | 22.21 | 0.66  | 22.87 | <=33.01 | Pass    |      |  |
|       |      | 25                                       | 0  | 21.15 | 0.66  | 21.81 | <=33.01 | Pass    |      |  |
|       |      |                                          | 13 | 21.28 | 0.66  | 21.94 | <=33.01 | Pass    |      |  |
|       |      |                                          | 25 | 21.21 | 0.66  | 21.87 | <=33.01 | Pass    |      |  |
|       |      | 50                                       | 0  | 21.11 | 0.66  | 21.77 | <=33.01 | Pass    |      |  |
| 64QAM | 2575 | 1                                        | 0  | 21.19 | 0.66  | 21.85 | <=33.01 | Pass    |      |  |
|       |      |                                          | 25 | 21.33 | 0.66  | 21.99 | <=33.01 | Pass    |      |  |
|       |      |                                          | 49 | 21.29 | 0.66  | 21.95 | <=33.01 | Pass    |      |  |
|       |      | 25                                       | 0  | 20.26 | 0.66  | 20.92 | <=33.01 | Pass    |      |  |
|       |      |                                          | 13 | 20.34 | 0.66  | 21.00 | <=33.01 | Pass    |      |  |
|       |      |                                          | 25 | 20.32 | 0.66  | 20.98 | <=33.01 | Pass    |      |  |
|       |      | 50                                       | 0  | 20.30 | 0.66  | 20.96 | <=33.01 | Pass    |      |  |
|       |      | 2595                                     | 1  | 0     | 21.37 | 0.66  | 22.03   | <=33.01 | Pass |  |
|       |      |                                          |    | 25    | 21.31 | 0.66  | 21.97   | <=33.01 | Pass |  |
|       | 49   |                                          |    | 21.24 | 0.66  | 21.90 | <=33.01 | Pass    |      |  |
|       | 25   |                                          | 0  | 20.28 | 0.66  | 20.94 | <=33.01 | Pass    |      |  |
|       |      |                                          | 13 | 20.43 | 0.66  | 21.09 | <=33.01 | Pass    |      |  |
|       |      |                                          | 25 | 20.36 | 0.66  | 21.02 | <=33.01 | Pass    |      |  |
|       | 50   |                                          | 0  | 20.39 | 0.66  | 21.05 | <=33.01 | Pass    |      |  |
|       | 2615 |                                          | 1  | 0     | 21.25 | 0.66  | 21.91   | <=33.01 | Pass |  |
|       |      |                                          |    | 25    | 21.23 | 0.66  | 21.89   | <=33.01 | Pass |  |
|       |      | 49                                       |    | 21.21 | 0.66  | 21.87 | <=33.01 | Pass    |      |  |
|       |      | 25                                       | 0  | 20.14 | 0.66  | 20.80 | <=33.01 | Pass    |      |  |
|       |      |                                          | 13 | 20.28 | 0.66  | 20.94 | <=33.01 | Pass    |      |  |
|       |      |                                          | 25 | 20.27 | 0.66  | 20.93 | <=33.01 | Pass    |      |  |
|       |      | 50                                       | 0  | 20.18 | 0.66  | 20.84 | <=33.01 | Pass    |      |  |
|       |      | Note1: EIRP=Conducted Power+Antenna Gain |    |       |       |       |         |         |      |  |

### 1.1.3 B38\_15MHz\_EIRP

| Band: 38 / Bandwidth: 15MHz / NTNV |                 |               |        |                       |            |            |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result     | Limit   |         |
| QPSK                               | 2577.5          | 1             | 0      | 23.08                 | 0.66       | 23.74      | <=33.01 | Pass    |
|                                    |                 |               | 38     | 23.16                 | 0.66       | 23.82      | <=33.01 | Pass    |
|                                    |                 |               | 74     | 23.08                 | 0.66       | 23.74      | <=33.01 | Pass    |
|                                    |                 | 36            | 0      | 22.06                 | 0.66       | 22.72      | <=33.01 | Pass    |
|                                    |                 |               | 18     | 22.18                 | 0.66       | 22.84      | <=33.01 | Pass    |
|                                    |                 |               | 39     | 22.23                 | 0.66       | 22.89      | <=33.01 | Pass    |
|                                    |                 | 75            | 0      | 22.17                 | 0.66       | 22.83      | <=33.01 | Pass    |
|                                    | 2595            | 1             | 0      | 23.15                 | 0.66       | 23.81      | <=33.01 | Pass    |
|                                    |                 |               | 38     | 23.15                 | 0.66       | 23.81      | <=33.01 | Pass    |
|                                    |                 |               | 74     | 23.07                 | 0.66       | 23.73      | <=33.01 | Pass    |
|                                    |                 | 36            | 0      | 22.18                 | 0.66       | 22.84      | <=33.01 | Pass    |
|                                    |                 |               | 18     | 22.18                 | 0.66       | 22.84      | <=33.01 | Pass    |
|                                    |                 |               | 39     | 22.12                 | 0.66       | 22.78      | <=33.01 | Pass    |
|                                    |                 | 75            | 0      | 22.15                 | 0.66       | 22.81      | <=33.01 | Pass    |
|                                    | 2612.5          | 1             | 0      | 23.10                 | 0.66       | 23.76      | <=33.01 | Pass    |
|                                    |                 |               | 38     | 22.97                 | 0.66       | 23.63      | <=33.01 | Pass    |
|                                    |                 |               | 74     | 22.84                 | 0.66       | 23.50      | <=33.01 | Pass    |
|                                    |                 | 36            | 0      | 22.02                 | 0.66       | 22.68      | <=33.01 | Pass    |
|                                    |                 |               | 18     | 22.05                 | 0.66       | 22.71      | <=33.01 | Pass    |
|                                    |                 |               | 39     | 22.06                 | 0.66       | 22.72      | <=33.01 | Pass    |
|                                    |                 | 75            | 0      | 21.98                 | 0.66       | 22.64      | <=33.01 | Pass    |
| 16QAM                              | 2577.5          | 1             | 0      | 22.18                 | 0.66       | 22.84      | <=33.01 | Pass    |
|                                    |                 |               | 38     | 22.25                 | 0.66       | 22.91      | <=33.01 | Pass    |

|                                          |        |       |        |       |         |         |         |         |         |
|------------------------------------------|--------|-------|--------|-------|---------|---------|---------|---------|---------|
|                                          |        |       | 74     | 22.25 | 0.66    | 22.91   | <=33.01 | Pass    |         |
|                                          |        |       | 36     | 0     | 21.10   | 0.66    | 21.76   | <=33.01 | Pass    |
|                                          |        |       |        | 18    | 21.23   | 0.66    | 21.89   | <=33.01 | Pass    |
|                                          |        |       |        | 39    | 21.24   | 0.66    | 21.90   | <=33.01 | Pass    |
|                                          |        | 75    | 0      | 21.17 | 0.66    | 21.83   | <=33.01 | Pass    |         |
|                                          |        | 2595  | 1      | 0     | 22.14   | 0.66    | 22.80   | <=33.01 | Pass    |
|                                          |        |       |        | 38    | 22.13   | 0.66    | 22.79   | <=33.01 | Pass    |
|                                          |        |       |        | 74    | 22.08   | 0.66    | 22.74   | <=33.01 | Pass    |
|                                          |        |       | 36     | 0     | 21.18   | 0.66    | 21.84   | <=33.01 | Pass    |
|                                          |        |       |        | 18    | 21.19   | 0.66    | 21.85   | <=33.01 | Pass    |
|                                          | 39     |       |        | 21.21 | 0.66    | 21.87   | <=33.01 | Pass    |         |
|                                          | 75     | 0     | 21.23  | 0.66  | 21.89   | <=33.01 | Pass    |         |         |
|                                          | 2612.5 | 1     | 0      | 22.00 | 0.66    | 22.66   | <=33.01 | Pass    |         |
|                                          |        |       | 38     | 21.95 | 0.66    | 22.61   | <=33.01 | Pass    |         |
|                                          |        |       | 74     | 21.92 | 0.66    | 22.58   | <=33.01 | Pass    |         |
|                                          |        | 36    | 0      | 21.07 | 0.66    | 21.73   | <=33.01 | Pass    |         |
|                                          |        |       | 18     | 21.06 | 0.66    | 21.72   | <=33.01 | Pass    |         |
|                                          |        |       | 39     | 21.06 | 0.66    | 21.72   | <=33.01 | Pass    |         |
|                                          |        | 75    | 0      | 21.06 | 0.66    | 21.72   | <=33.01 | Pass    |         |
|                                          |        | 64QAM | 2577.5 | 1     | 0       | 21.15   | 0.66    | 21.81   | <=33.01 |
|                                          | 38     |       |        |       | 21.19   | 0.66    | 21.85   | <=33.01 | Pass    |
|                                          | 74     |       |        |       | 21.06   | 0.66    | 21.72   | <=33.01 | Pass    |
|                                          | 36     |       |        | 0     | 20.17   | 0.66    | 20.83   | <=33.01 | Pass    |
|                                          |        |       |        | 18    | 20.20   | 0.66    | 20.86   | <=33.01 | Pass    |
|                                          |        |       |        | 39    | 20.25   | 0.66    | 20.91   | <=33.01 | Pass    |
|                                          | 75     |       |        | 0     | 20.19   | 0.66    | 20.85   | <=33.01 | Pass    |
|                                          | 2595   |       | 1      | 0     | 21.23   | 0.66    | 21.89   | <=33.01 | Pass    |
|                                          |        |       |        | 38    | 21.20   | 0.66    | 21.86   | <=33.01 | Pass    |
|                                          |        |       |        | 74    | 20.93   | 0.66    | 21.59   | <=33.01 | Pass    |
|                                          |        |       | 36     | 0     | 20.18   | 0.66    | 20.84   | <=33.01 | Pass    |
| 18                                       |        |       |        | 20.22 | 0.66    | 20.88   | <=33.01 | Pass    |         |
| 39                                       |        | 20.17 |        | 0.66  | 20.83   | <=33.01 | Pass    |         |         |
| 75                                       | 0      | 20.25 | 0.66   | 20.91 | <=33.01 | Pass    |         |         |         |
| 2612.5                                   | 1      | 0     | 21.09  | 0.66  | 21.75   | <=33.01 | Pass    |         |         |
|                                          |        | 38    | 20.90  | 0.66  | 21.56   | <=33.01 | Pass    |         |         |
|                                          |        | 74    | 21.02  | 0.66  | 21.68   | <=33.01 | Pass    |         |         |
|                                          | 36     | 0     | 20.05  | 0.66  | 20.71   | <=33.01 | Pass    |         |         |
|                                          |        | 18    | 20.03  | 0.66  | 20.69   | <=33.01 | Pass    |         |         |
|                                          |        | 39    | 20.10  | 0.66  | 20.76   | <=33.01 | Pass    |         |         |
|                                          | 75     | 0     | 20.01  | 0.66  | 20.67   | <=33.01 | Pass    |         |         |
| Note1: EIRP=Conducted Power+Antenna Gain |        |       |        |       |         |         |         |         |         |

#### 1.1.4 B38\_20MHz\_EIRP

| Band: 38 / Bandwidth: 20MHz / NTNV |                 |               |        |                       |            |            |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result     | Limit   |         |
| QPSK                               | 2580            | 1             | 0      | 23.13                 | 0.66       | 23.79      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 23.14                 | 0.66       | 23.80      | <=33.01 | Pass    |
|                                    |                 |               | 99     | 23.12                 | 0.66       | 23.78      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 22.24                 | 0.66       | 22.90      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.21                 | 0.66       | 22.87      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 22.25                 | 0.66       | 22.91      | <=33.01 | Pass    |
|                                    |                 | 100           | 0      | 22.24                 | 0.66       | 22.90      | <=33.01 | Pass    |
|                                    | 2595            | 1             | 0      | 23.17                 | 0.66       | 23.83      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 23.09                 | 0.66       | 23.75      | <=33.01 | Pass    |
|                                    |                 |               | 99     | 22.94                 | 0.66       | 23.60      | <=33.01 | Pass    |

|       |                                          |      |       |       |       |         |         |         |         |      |
|-------|------------------------------------------|------|-------|-------|-------|---------|---------|---------|---------|------|
|       |                                          | 50   | 0     | 22.15 | 0.66  | 22.81   | <=33.01 | Pass    |         |      |
|       |                                          |      | 25    | 22.30 | 0.66  | 22.96   | <=33.01 | Pass    |         |      |
|       |                                          |      | 50    | 22.22 | 0.66  | 22.88   | <=33.01 | Pass    |         |      |
|       |                                          | 100  | 0     | 22.21 | 0.66  | 22.87   | <=33.01 | Pass    |         |      |
|       |                                          |      | 50    | 23.00 | 0.66  | 23.66   | <=33.01 | Pass    |         |      |
|       |                                          |      | 99    | 22.93 | 0.66  | 23.59   | <=33.01 | Pass    |         |      |
|       | 50                                       | 0    | 22.12 | 0.66  | 22.78 | <=33.01 | Pass    |         |         |      |
|       |                                          | 25   | 22.02 | 0.66  | 22.68 | <=33.01 | Pass    |         |         |      |
|       |                                          | 50   | 22.02 | 0.66  | 22.68 | <=33.01 | Pass    |         |         |      |
|       | 100                                      | 0    | 22.08 | 0.66  | 22.74 | <=33.01 | Pass    |         |         |      |
|       | 16QAM                                    | 2580 | 1     | 0     | 22.22 | 0.66    | 22.88   | <=33.01 | Pass    |      |
|       |                                          |      |       | 50    | 22.11 | 0.66    | 22.77   | <=33.01 | Pass    |      |
| 99    |                                          |      |       | 22.10 | 0.66  | 22.76   | <=33.01 | Pass    |         |      |
| 50    |                                          |      | 0     | 21.25 | 0.66  | 21.91   | <=33.01 | Pass    |         |      |
|       |                                          |      | 25    | 21.23 | 0.66  | 21.89   | <=33.01 | Pass    |         |      |
|       |                                          |      | 50    | 21.25 | 0.66  | 21.91   | <=33.01 | Pass    |         |      |
| 100   |                                          |      | 0     | 21.20 | 0.66  | 21.86   | <=33.01 | Pass    |         |      |
| 2595  |                                          |      | 1     | 0     | 22.02 | 0.66    | 22.68   | <=33.01 | Pass    |      |
|       |                                          |      |       | 50    | 22.10 | 0.66    | 22.76   | <=33.01 | Pass    |      |
|       |                                          | 99   |       | 21.98 | 0.66  | 22.64   | <=33.01 | Pass    |         |      |
|       |                                          | 50   | 0     | 21.16 | 0.66  | 21.82   | <=33.01 | Pass    |         |      |
|       |                                          |      | 25    | 21.29 | 0.66  | 21.95   | <=33.01 | Pass    |         |      |
|       |                                          |      | 50    | 21.19 | 0.66  | 21.85   | <=33.01 | Pass    |         |      |
|       |                                          | 100  | 0     | 21.20 | 0.66  | 21.86   | <=33.01 | Pass    |         |      |
|       |                                          | 2610 | 1     | 0     | 22.23 | 0.66    | 22.89   | <=33.01 | Pass    |      |
|       |                                          |      |       | 50    | 22.26 | 0.66    | 22.92   | <=33.01 | Pass    |      |
| 99    |                                          |      |       | 22.06 | 0.66  | 22.72   | <=33.01 | Pass    |         |      |
| 50    |                                          |      | 0     | 21.13 | 0.66  | 21.79   | <=33.01 | Pass    |         |      |
|       |                                          |      | 25    | 21.06 | 0.66  | 21.72   | <=33.01 | Pass    |         |      |
|       |                                          |      | 50    | 21.07 | 0.66  | 21.73   | <=33.01 | Pass    |         |      |
| 100   |                                          |      | 0     | 21.06 | 0.66  | 21.72   | <=33.01 | Pass    |         |      |
| 64QAM |                                          |      | 2580  | 1     | 0     | 21.12   | 0.66    | 21.78   | <=33.01 | Pass |
|       |                                          |      |       |       | 50    | 21.13   | 0.66    | 21.79   | <=33.01 | Pass |
|       |                                          | 99   |       |       | 21.23 | 0.66    | 21.89   | <=33.01 | Pass    |      |
|       |                                          | 50   |       | 0     | 20.21 | 0.66    | 20.87   | <=33.01 | Pass    |      |
|       |                                          |      |       | 25    | 20.23 | 0.66    | 20.89   | <=33.01 | Pass    |      |
|       |                                          |      |       | 50    | 20.24 | 0.66    | 20.90   | <=33.01 | Pass    |      |
|       | 100                                      | 0    |       | 20.22 | 0.66  | 20.88   | <=33.01 | Pass    |         |      |
|       | 2595                                     | 1    |       | 0     | 21.19 | 0.66    | 21.85   | <=33.01 | Pass    |      |
|       |                                          |      |       | 50    | 21.27 | 0.66    | 21.93   | <=33.01 | Pass    |      |
|       |                                          |      | 99    | 21.07 | 0.66  | 21.73   | <=33.01 | Pass    |         |      |
|       |                                          | 50   | 0     | 20.23 | 0.66  | 20.89   | <=33.01 | Pass    |         |      |
|       |                                          |      | 25    | 20.27 | 0.66  | 20.93   | <=33.01 | Pass    |         |      |
|       |                                          |      | 50    | 20.19 | 0.66  | 20.85   | <=33.01 | Pass    |         |      |
|       |                                          | 100  | 0     | 20.23 | 0.66  | 20.89   | <=33.01 | Pass    |         |      |
|       |                                          | 2610 | 1     | 0     | 21.11 | 0.66    | 21.77   | <=33.01 | Pass    |      |
|       |                                          |      |       | 50    | 21.08 | 0.66    | 21.74   | <=33.01 | Pass    |      |
|       | 99                                       |      |       | 21.00 | 0.66  | 21.66   | <=33.01 | Pass    |         |      |
|       | 50                                       |      | 0     | 20.11 | 0.66  | 20.77   | <=33.01 | Pass    |         |      |
|       |                                          |      | 25    | 20.06 | 0.66  | 20.72   | <=33.01 | Pass    |         |      |
|       |                                          |      | 50    | 20.08 | 0.66  | 20.74   | <=33.01 | Pass    |         |      |
|       | 100                                      |      | 0     | 20.05 | 0.66  | 20.71   | <=33.01 | Pass    |         |      |
|       | Note1: EIRP=Conducted Power+Antenna Gain |      |       |       |       |         |         |         |         |      |

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B38\_5MHz

| Band: 38 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 2572.5          | 25            | 0      | 20         | 3.6           | 6.100            | 0.0024                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.92          | 0.400            | 0.0002                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.53          | 3.600            | 0.0014                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.92          | 3.300            | 0.0013                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.92          | 2.700            | 0.0010                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.92          | 2.600            | 0.0010                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.92          | 2.600            | 0.0010                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.92          | 1.600            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.92          | 2.000            | 0.0008                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.92          | 5.500            | 0.0021                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.92          | -0.900           | -0.0003               | -2.5 to 2.5 | Pass    |
|                            | 2595            | 25            | 0      | 20         | 3.6           | -3.600           | -0.0014               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.92          | -2.000           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.53          | 1.000            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.92          | -2.300           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.92          | 3.900            | 0.0015                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.92          | 0.300            | 0.0001                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.92          | 5.700            | 0.0022                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.92          | -1.300           | -0.0005               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.92          | 1.300            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.92          | -0.100           | 0.0000                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.92          | -0.700           | -0.0003               | -2.5 to 2.5 | Pass    |
|                            | 2617.5          | 25            | 0      | 20         | 3.6           | 0.700            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.92          | -4.500           | -0.0017               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.53          | 6.400            | 0.0024                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.92          | -2.500           | -0.0010               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.92          | 2.000            | 0.0008                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.92          | 1.900            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.92          | -4.700           | -0.0018               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.92          | 0.800            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.92          | 5.000            | 0.0019                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.92          | -1.400           | -0.0005               | -2.5 to 2.5 | Pass    |
| 16QAM                      | 2572.5          | 25            | 0      | 20         | 3.6           | 6.300            | 0.0024                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.92          | 7.300            | 0.0028                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.53          | 5.900            | 0.0023                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.92          | 0.600            | 0.0002                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.92          | 4.300            | 0.0017                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.92          | 0.100            | 0.0000                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.92          | 6.300            | 0.0024                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.92          | -0.600           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.92          | 0.700            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.92          | 1.000            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.92          | 4.200            | 0.0016                | -2.5 to 2.5 | Pass    |
|                            | 2595            | 25            | 0      | 20         | 3.6           | 2.200            | 0.0008                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.92          | -5.900           | -0.0023               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.53          | -3.300           | -0.0013               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.92          | -0.300           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.92          | 1.800            | 0.0007                | -2.5 to 2.5 | Pass    |

|       |        |    |   |     |      |         |         |             |      |
|-------|--------|----|---|-----|------|---------|---------|-------------|------|
|       |        |    |   | -10 | 3.92 | 0.700   | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.92 | -1.400  | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.92 | -3.200  | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.92 | -0.100  | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.92 | 1.500   | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.92 | -1.600  | -0.0006 | -2.5 to 2.5 | Pass |
|       | 2617.5 | 25 | 0 | 20  | 3.6  | -0.400  | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.92 | 6.300   | 0.0024  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.53 | -2.400  | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.92 | 3.000   | 0.0011  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.92 | 2.700   | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.92 | -0.900  | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.92 | -0.300  | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.92 | -1.100  | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.92 | -0.900  | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.92 | 3.900   | 0.0015  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.92 | -1.800  | -0.0007 | -2.5 to 2.5 | Pass |
| 64QAM | 2572.5 | 25 | 0 | 20  | 3.6  | 6.500   | 0.0025  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.92 | -10.700 | -0.0042 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.53 | -14.000 | -0.0054 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.92 | 10.300  | 0.0040  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.92 | -11.200 | -0.0044 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.92 | 33.100  | 0.0129  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.92 | 19.200  | 0.0075  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.92 | 25.600  | 0.0100  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.92 | -34.500 | -0.0134 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.92 | -31.100 | -0.0121 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.92 | -8.000  | -0.0031 | -2.5 to 2.5 | Pass |
|       | 2595   | 25 | 0 | 20  | 3.6  | 31.100  | 0.0120  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.92 | 22.700  | 0.0087  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.53 | 17.400  | 0.0067  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.92 | 14.000  | 0.0054  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.92 | -29.100 | -0.0112 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.92 | -9.000  | -0.0035 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.92 | -32.300 | -0.0124 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.92 | -22.200 | -0.0086 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.92 | 20.400  | 0.0079  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.92 | 22.200  | 0.0086  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.92 | -34.000 | -0.0131 | -2.5 to 2.5 | Pass |
|       | 2617.5 | 25 | 0 | 20  | 3.6  | 13.500  | 0.0052  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.92 | -12.100 | -0.0046 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.53 | -1.300  | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.92 | -14.800 | -0.0057 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.92 | 16.000  | 0.0061  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.92 | 15.100  | 0.0058  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.92 | 1.400   | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.92 | -2.300  | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.92 | -2.800  | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.92 | 17.700  | 0.0068  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.92 | 15.800  | 0.0060  | -2.5 to 2.5 | Pass |

## 2.1.2 B38\_10MHz

| Band: 38 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 2575            | 50            | 0      | 20         | 3.6           | -3.400           | -0.0013               | -2.5 to 2.5 | Pass    |

|       |      |    |   |     |      |        |         |             |      |
|-------|------|----|---|-----|------|--------|---------|-------------|------|
|       |      |    |   |     | 3.92 | 1.700  | 0.0007  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.53 | -2.400 | -0.0009 | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.92 | 1.100  | 0.0004  | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.92 | 2.800  | 0.0011  | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.92 | 1.400  | 0.0005  | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.92 | -1.200 | -0.0005 | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.92 | -0.700 | -0.0003 | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.92 | 3.400  | 0.0013  | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.92 | -2.600 | -0.0010 | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.92 | 1.100  | 0.0004  | -2.5 to 2.5 | Pass |
|       | 2595 | 50 | 0 | 20  | 3.6  | 0.200  | 0.0001  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.92 | 0.800  | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.53 | 1.000  | 0.0004  | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.92 | -1.500 | -0.0006 | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.92 | -0.700 | -0.0003 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.92 | 3.700  | 0.0014  | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.92 | 7.400  | 0.0029  | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.92 | -0.900 | -0.0003 | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.92 | 2.700  | 0.0010  | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.92 | 2.100  | 0.0008  | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.92 | 4.000  | 0.0015  | -2.5 to 2.5 | Pass |
|       | 2615 | 50 | 0 | 20  | 3.6  | -1.900 | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.92 | 3.800  | 0.0015  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.53 | -0.100 | 0.0000  | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.92 | -4.900 | -0.0019 | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.92 | -1.600 | -0.0006 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.92 | 2.500  | 0.0010  | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.92 | 4.700  | 0.0018  | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.92 | 0.700  | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.92 | -1.900 | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.92 | -0.300 | -0.0001 | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.92 | -1.700 | -0.0007 | -2.5 to 2.5 | Pass |
| 16QAM | 2575 | 50 | 0 | 20  | 3.6  | -4.300 | -0.0017 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.92 | -0.500 | -0.0002 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.53 | -1.800 | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.92 | 0.300  | 0.0001  | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.92 | -2.800 | -0.0011 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.92 | 0.600  | 0.0002  | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.92 | -4.600 | -0.0018 | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.92 | -1.200 | -0.0005 | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.92 | -2.100 | -0.0008 | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.92 | -1.400 | -0.0005 | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.92 | -2.000 | -0.0008 | -2.5 to 2.5 | Pass |
|       | 2595 | 50 | 0 | 20  | 3.6  | 0.800  | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.92 | 1.100  | 0.0004  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.53 | -3.400 | -0.0013 | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.92 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.92 | -0.200 | -0.0001 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.92 | -5.800 | -0.0022 | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.92 | 2.200  | 0.0008  | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.92 | 5.200  | 0.0020  | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.92 | 2.500  | 0.0010  | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.92 | -1.800 | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.92 | 6.500  | 0.0025  | -2.5 to 2.5 | Pass |
|       | 2615 | 50 | 0 | 20  | 3.6  | 3.400  | 0.0013  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.92 | -2.700 | -0.0010 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.53 | 6.200  | 0.0024  | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.92 | 4.100  | 0.0016  | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.92 | -1.200 | -0.0005 | -2.5 to 2.5 | Pass |

|       |      |    |   |     |      |         |         |             |      |
|-------|------|----|---|-----|------|---------|---------|-------------|------|
| 64QAM |      |    |   | -10 | 3.92 | -1.800  | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.92 | 0.700   | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.92 | 3.000   | 0.0011  | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.92 | 0.700   | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.92 | -0.600  | -0.0002 | -2.5 to 2.5 | Pass |
|       | 2575 | 50 | 0 | 50  | 3.92 | -2.600  | -0.0010 | -2.5 to 2.5 | Pass |
|       |      |    |   | 20  | 3.6  | -7.400  | -0.0029 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.92 | 2.200   | 0.0009  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.53 | -2.000  | -0.0008 | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.92 | 9.700   | 0.0038  | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.92 | 7.400   | 0.0029  | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.92 | -1.700  | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.92 | -0.200  | -0.0001 | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.92 | 13.600  | 0.0053  | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.92 | 5.100   | 0.0020  | -2.5 to 2.5 | Pass |
|       | 2595 | 50 | 0 | 40  | 3.92 | 4.400   | 0.0017  | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.92 | 11.200  | 0.0043  | -2.5 to 2.5 | Pass |
|       |      |    |   | 20  | 3.6  | -1.000  | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.92 | 2.800   | 0.0011  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.53 | 11.300  | 0.0044  | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.92 | 13.500  | 0.0052  | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.92 | -11.900 | -0.0046 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.92 | 2.000   | 0.0008  | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.92 | 6.200   | 0.0024  | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.92 | 22.300  | 0.0086  | -2.5 to 2.5 | Pass |
|       | 2615 | 50 | 0 | 30  | 3.92 | 18.400  | 0.0071  | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.92 | 13.400  | 0.0052  | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.92 | 14.600  | 0.0056  | -2.5 to 2.5 | Pass |
|       |      |    |   | 20  | 3.6  | -3.400  | -0.0013 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.92 | 13.200  | 0.0050  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.53 | 18.800  | 0.0072  | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.92 | 5.900   | 0.0023  | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.92 | 4.100   | 0.0016  | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.92 | 9.000   | 0.0034  | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.92 | 7.400   | 0.0028  | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.92 | 20.100  | 0.0077  | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.92 | -5.400  | -0.0021 | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.92 | -15.000 | -0.0057 | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.92 | -17.300 | -0.0066 | -2.5 to 2.5 | Pass |

### 2.1.3 B38\_15MHz

| Band: 38 / Bandwidth: 15MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 2577.5          | 75            | 0      | 20         | 3.6           | -1.500           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.92          | -6.200           | -0.0024               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.53          | 2.500            | 0.0010                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.92          | 0.500            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.92          | 3.600            | 0.0014                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.92          | 0.700            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.92          | 1.900            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.92          | -4.300           | -0.0017               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.92          | 3.700            | 0.0014                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.92          | 3.600            | 0.0014                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.92          | 0.800            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             | 2595            | 75            | 0      | 20         | 3.6           | 2.900            | 0.0011                | -2.5 to 2.5 | Pass    |

|       |        |    |   |     |      |         |         |             |      |
|-------|--------|----|---|-----|------|---------|---------|-------------|------|
|       |        |    |   |     | 3.92 | 1.300   | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.53 | 1.500   | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.92 | 3.100   | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.92 | 0.800   | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.92 | 4.000   | 0.0015  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.92 | 0.700   | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.92 | 0.000   | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.92 | 1.700   | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.92 | 1.700   | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.92 | -1.700  | -0.0007 | -2.5 to 2.5 | Pass |
|       | 2612.5 | 75 | 0 | 20  | 3.6  | -2.800  | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.92 | 0.700   | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.53 | -2.800  | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.92 | -3.400  | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.92 | -1.400  | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.92 | 0.400   | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.92 | 2.200   | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.92 | -1.300  | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.92 | -1.100  | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.92 | 4.000   | 0.0015  | -2.5 to 2.5 | Pass |
| 16QAM | 2577.5 | 75 | 0 | 20  | 3.6  | 0.300   | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.92 | -2.300  | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.53 | -1.000  | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.92 | 3.500   | 0.0014  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.92 | 3.200   | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.92 | 4.200   | 0.0016  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.92 | -0.500  | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.92 | 1.900   | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.92 | -1.700  | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.92 | -0.900  | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.92 | -3.300  | -0.0013 | -2.5 to 2.5 | Pass |
|       | 2595   | 75 | 0 | 20  | 3.6  | 2.900   | 0.0011  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.92 | 4.900   | 0.0019  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.53 | -2.100  | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.92 | 0.800   | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.92 | -1.400  | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.92 | 1.100   | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.92 | 0.000   | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.92 | 0.000   | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.92 | 0.900   | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.92 | 2.000   | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.92 | 1.800   | 0.0007  | -2.5 to 2.5 | Pass |
|       | 2612.5 | 75 | 0 | 20  | 3.6  | -0.700  | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.92 | -4.200  | -0.0016 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.53 | 2.100   | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.92 | 1.600   | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.92 | 1.400   | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.92 | 0.800   | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.92 | 1.900   | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.92 | 0.000   | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.92 | -4.200  | -0.0016 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.92 | -1.300  | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.92 | -0.600  | -0.0002 | -2.5 to 2.5 | Pass |
| 64QAM | 2577.5 | 75 | 0 | 20  | 3.6  | -1.700  | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.92 | 1.600   | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.53 | -7.900  | -0.0031 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.92 | -18.600 | -0.0072 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.92 | -3.200  | -0.0012 | -2.5 to 2.5 | Pass |

|  |        |    |   |     |      |         |         |             |      |
|--|--------|----|---|-----|------|---------|---------|-------------|------|
|  |        |    |   | -10 | 3.92 | -8.400  | -0.0033 | -2.5 to 2.5 | Pass |
|  |        |    |   | 0   | 3.92 | -1.200  | -0.0005 | -2.5 to 2.5 | Pass |
|  |        |    |   | 10  | 3.92 | -10.200 | -0.0040 | -2.5 to 2.5 | Pass |
|  |        |    |   | 30  | 3.92 | 6.200   | 0.0024  | -2.5 to 2.5 | Pass |
|  |        |    |   | 40  | 3.92 | 11.600  | 0.0045  | -2.5 to 2.5 | Pass |
|  |        |    |   | 50  | 3.92 | -10.700 | -0.0042 | -2.5 to 2.5 | Pass |
|  | 2595   | 75 | 0 | 20  | 3.6  | 4.300   | 0.0017  | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 3.92 | -3.800  | -0.0015 | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 4.53 | -1.200  | -0.0005 | -2.5 to 2.5 | Pass |
|  |        |    |   | -30 | 3.92 | -2.700  | -0.0010 | -2.5 to 2.5 | Pass |
|  |        |    |   | -20 | 3.92 | -0.900  | -0.0003 | -2.5 to 2.5 | Pass |
|  |        |    |   | -10 | 3.92 | -5.000  | -0.0019 | -2.5 to 2.5 | Pass |
|  |        |    |   | 0   | 3.92 | -15.700 | -0.0061 | -2.5 to 2.5 | Pass |
|  |        |    |   | 10  | 3.92 | -5.400  | -0.0021 | -2.5 to 2.5 | Pass |
|  |        |    |   | 30  | 3.92 | -3.300  | -0.0013 | -2.5 to 2.5 | Pass |
|  |        |    |   | 40  | 3.92 | -3.100  | -0.0012 | -2.5 to 2.5 | Pass |
|  |        |    |   | 50  | 3.92 | 14.000  | 0.0054  | -2.5 to 2.5 | Pass |
|  | 2612.5 | 75 | 0 | 20  | 3.6  | 2.900   | 0.0011  | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 3.92 | -9.900  | -0.0038 | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 4.53 | -6.900  | -0.0026 | -2.5 to 2.5 | Pass |
|  |        |    |   | -30 | 3.92 | 3.700   | 0.0014  | -2.5 to 2.5 | Pass |
|  |        |    |   | -20 | 3.92 | 10.000  | 0.0038  | -2.5 to 2.5 | Pass |
|  |        |    |   | -10 | 3.92 | 4.600   | 0.0018  | -2.5 to 2.5 | Pass |
|  |        |    |   | 0   | 3.92 | 15.300  | 0.0059  | -2.5 to 2.5 | Pass |
|  |        |    |   | 10  | 3.92 | -8.600  | -0.0033 | -2.5 to 2.5 | Pass |
|  |        |    |   | 30  | 3.92 | 0.500   | 0.0002  | -2.5 to 2.5 | Pass |
|  |        |    |   | 40  | 3.92 | -0.800  | -0.0003 | -2.5 to 2.5 | Pass |
|  |        |    |   | 50  | 3.92 | 2.200   | 0.0008  | -2.5 to 2.5 | Pass |

## 2.1.4 B38\_20MHz

| Band: 38 / Bandwidth: 20MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 2580            | 100           | 0      | 20         | 3.6           | 3.200            | 0.0012                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.92          | -1.100           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.53          | -1.000           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.92          | -0.700           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.92          | -4.200           | -0.0016               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.92          | -1.400           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.92          | -1.100           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.92          | 0.400            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.92          | -3.000           | -0.0012               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.92          | -1.800           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.92          | -0.500           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             | 2595            | 100           | 0      | 20         | 3.6           | 1.800            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.92          | -1.000           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.53          | 0.400            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.92          | -2.000           | -0.0008               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.92          | -0.900           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.92          | -3.500           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.92          | 0.700            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.92          | 4.200            | 0.0016                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.92          | 0.600            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.92          | -0.500           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.92          | 0.000            | 0.0000                | -2.5 to 2.5 | Pass    |
|                             | 2610            | 100           | 0      | 20         | 3.6           | -2.100           | -0.0008               | -2.5 to 2.5 | Pass    |

|       |      |     |   |     |      |         |         |             |      |
|-------|------|-----|---|-----|------|---------|---------|-------------|------|
|       |      |     |   |     | 3.92 | 0.200   | 0.0001  | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.53 | -0.600  | -0.0002 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 3.92 | 3.700   | 0.0014  | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 3.92 | 2.300   | 0.0009  | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 3.92 | 4.700   | 0.0018  | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 3.92 | 1.300   | 0.0005  | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 3.92 | 0.700   | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 3.92 | 4.600   | 0.0018  | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 3.92 | -2.300  | -0.0009 | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 3.92 | -1.100  | -0.0004 | -2.5 to 2.5 | Pass |
| 16QAM | 2580 | 100 | 0 | 20  | 3.6  | -3.400  | -0.0013 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 3.92 | -1.300  | -0.0005 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.53 | -5.500  | -0.0021 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 3.92 | -0.100  | 0.0000  | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 3.92 | -1.800  | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 3.92 | 0.300   | 0.0001  | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 3.92 | -2.800  | -0.0011 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 3.92 | -0.100  | 0.0000  | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 3.92 | -0.400  | -0.0002 | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 3.92 | -7.500  | -0.0029 | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 3.92 | -2.200  | -0.0009 | -2.5 to 2.5 | Pass |
|       | 2595 | 100 | 0 | 20  | 3.6  | 4.200   | 0.0016  | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 3.92 | -1.400  | -0.0005 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.53 | 0.800   | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 3.92 | 2.100   | 0.0008  | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 3.92 | -0.600  | -0.0002 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 3.92 | 0.000   | 0.0000  | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 3.92 | -3.300  | -0.0013 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 3.92 | -4.500  | -0.0017 | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 3.92 | -0.800  | -0.0003 | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 3.92 | 1.400   | 0.0005  | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 3.92 | 2.300   | 0.0009  | -2.5 to 2.5 | Pass |
|       | 2610 | 100 | 0 | 20  | 3.6  | -4.200  | -0.0016 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 3.92 | 32.700  | 0.0125  | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.53 | -0.700  | -0.0003 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 3.92 | -0.100  | 0.0000  | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 3.92 | 1.600   | 0.0006  | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 3.92 | -3.900  | -0.0015 | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 3.92 | -3.400  | -0.0013 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 3.92 | 1.900   | 0.0007  | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 3.92 | 1.700   | 0.0007  | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 3.92 | 3.500   | 0.0013  | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 3.92 | 0.100   | 0.0000  | -2.5 to 2.5 | Pass |
| 64QAM | 2580 | 100 | 0 | 20  | 3.6  | 12.900  | 0.0050  | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 3.92 | 1.700   | 0.0007  | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.53 | -3.700  | -0.0014 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 3.92 | -7.800  | -0.0030 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 3.92 | -1.900  | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 3.92 | 8.500   | 0.0033  | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 3.92 | -11.100 | -0.0043 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 3.92 | -12.300 | -0.0048 | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 3.92 | 3.500   | 0.0014  | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 3.92 | -12.100 | -0.0047 | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 3.92 | -15.100 | -0.0059 | -2.5 to 2.5 | Pass |
|       | 2595 | 100 | 0 | 20  | 3.6  | -3.500  | -0.0013 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 3.92 | 4.700   | 0.0018  | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.53 | -7.400  | -0.0029 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 3.92 | -11.000 | -0.0042 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 3.92 | -6.800  | -0.0026 | -2.5 to 2.5 | Pass |

|  |      |     |   |     |      |        |         |             |      |
|--|------|-----|---|-----|------|--------|---------|-------------|------|
|  |      |     |   | -10 | 3.92 | -5.100 | -0.0020 | -2.5 to 2.5 | Pass |
|  |      |     |   | 0   | 3.92 | -0.600 | -0.0002 | -2.5 to 2.5 | Pass |
|  |      |     |   | 10  | 3.92 | -2.800 | -0.0011 | -2.5 to 2.5 | Pass |
|  |      |     |   | 30  | 3.92 | -8.400 | -0.0032 | -2.5 to 2.5 | Pass |
|  |      |     |   | 40  | 3.92 | 2.100  | 0.0008  | -2.5 to 2.5 | Pass |
|  |      |     |   | 50  | 3.92 | 12.900 | 0.0050  | -2.5 to 2.5 | Pass |
|  | 2610 | 100 | 0 | 20  | 3.6  | 4.400  | 0.0017  | -2.5 to 2.5 | Pass |
|  |      |     |   |     | 3.92 | -3.800 | -0.0015 | -2.5 to 2.5 | Pass |
|  |      |     |   |     | 4.53 | 2.700  | 0.0010  | -2.5 to 2.5 | Pass |
|  |      |     |   | -30 | 3.92 | 0.800  | 0.0003  | -2.5 to 2.5 | Pass |
|  |      |     |   | -20 | 3.92 | -3.300 | -0.0013 | -2.5 to 2.5 | Pass |
|  |      |     |   | -10 | 3.92 | -7.300 | -0.0028 | -2.5 to 2.5 | Pass |
|  |      |     |   | 0   | 3.92 | 0.300  | 0.0001  | -2.5 to 2.5 | Pass |
|  |      |     |   | 10  | 3.92 | 11.100 | 0.0043  | -2.5 to 2.5 | Pass |
|  |      |     |   | 30  | 3.92 | 1.500  | 0.0006  | -2.5 to 2.5 | Pass |
|  |      |     |   | 40  | 3.92 | -1.400 | -0.0005 | -2.5 to 2.5 | Pass |
|  |      |     |   | 50  | 3.92 | -3.900 | -0.0015 | -2.5 to 2.5 | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band38\_OBW

| Band: 38 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 5               | QPSK       | 2572.5          | 25            | 0      | 4.562                        | /     | Pass    |
|                 |            | 2595            | 25            | 0      | 4.540                        | /     | Pass    |
|                 |            | 2617.5          | 25            | 0      | 4.557                        | /     | Pass    |
|                 | 16QAM      | 2572.5          | 25            | 0      | 4.554                        | /     | Pass    |
|                 |            | 2595            | 25            | 0      | 4.567                        | /     | Pass    |
|                 |            | 2617.5          | 25            | 0      | 4.563                        | /     | Pass    |
|                 | 64QAM      | 2572.5          | 25            | 0      | 4.560                        | /     | Pass    |
|                 |            | 2595            | 25            | 0      | 4.542                        | /     | Pass    |
|                 |            | 2617.5          | 25            | 0      | 4.562                        | /     | Pass    |
| 10              | QPSK       | 2575            | 50            | 0      | 9.086                        | /     | Pass    |
|                 |            | 2595            | 50            | 0      | 9.087                        | /     | Pass    |
|                 |            | 2615            | 50            | 0      | 9.080                        | /     | Pass    |
|                 | 16QAM      | 2575            | 50            | 0      | 9.070                        | /     | Pass    |
|                 |            | 2595            | 50            | 0      | 9.077                        | /     | Pass    |
|                 |            | 2615            | 50            | 0      | 9.067                        | /     | Pass    |
|                 | 64QAM      | 2575            | 50            | 0      | 9.090                        | /     | Pass    |
|                 |            | 2595            | 50            | 0      | 9.072                        | /     | Pass    |
|                 |            | 2615            | 50            | 0      | 9.068                        | /     | Pass    |
| 15              | QPSK       | 2577.5          | 75            | 0      | 13.628                       | /     | Pass    |
|                 |            | 2595            | 75            | 0      | 13.628                       | /     | Pass    |
|                 |            | 2612.5          | 75            | 0      | 13.633                       | /     | Pass    |
|                 | 16QAM      | 2577.5          | 75            | 0      | 13.614                       | /     | Pass    |
|                 |            | 2595            | 75            | 0      | 13.609                       | /     | Pass    |
|                 |            | 2612.5          | 75            | 0      | 13.627                       | /     | Pass    |
|                 | 64QAM      | 2577.5          | 75            | 0      | 13.628                       | /     | Pass    |
|                 |            | 2595            | 75            | 0      | 13.593                       | /     | Pass    |
|                 |            | 2612.5          | 75            | 0      | 13.623                       | /     | Pass    |
| 20              | QPSK       | 2580            | 100           | 0      | 18.158                       | /     | Pass    |
|                 |            | 2595            | 100           | 0      | 18.085                       | /     | Pass    |
|                 |            | 2610            | 100           | 0      | 18.162                       | /     | Pass    |
|                 | 16QAM      | 2580            | 100           | 0      | 18.100                       | /     | Pass    |
|                 |            | 2595            | 100           | 0      | 18.135                       | /     | Pass    |
|                 |            | 2610            | 100           | 0      | 18.117                       | /     | Pass    |
|                 | 64QAM      | 2580            | 100           | 0      | 18.156                       | /     | Pass    |
|                 |            | 2595            | 100           | 0      | 18.076                       | /     | Pass    |
|                 |            | 2610            | 100           | 0      | 18.165                       | /     | Pass    |

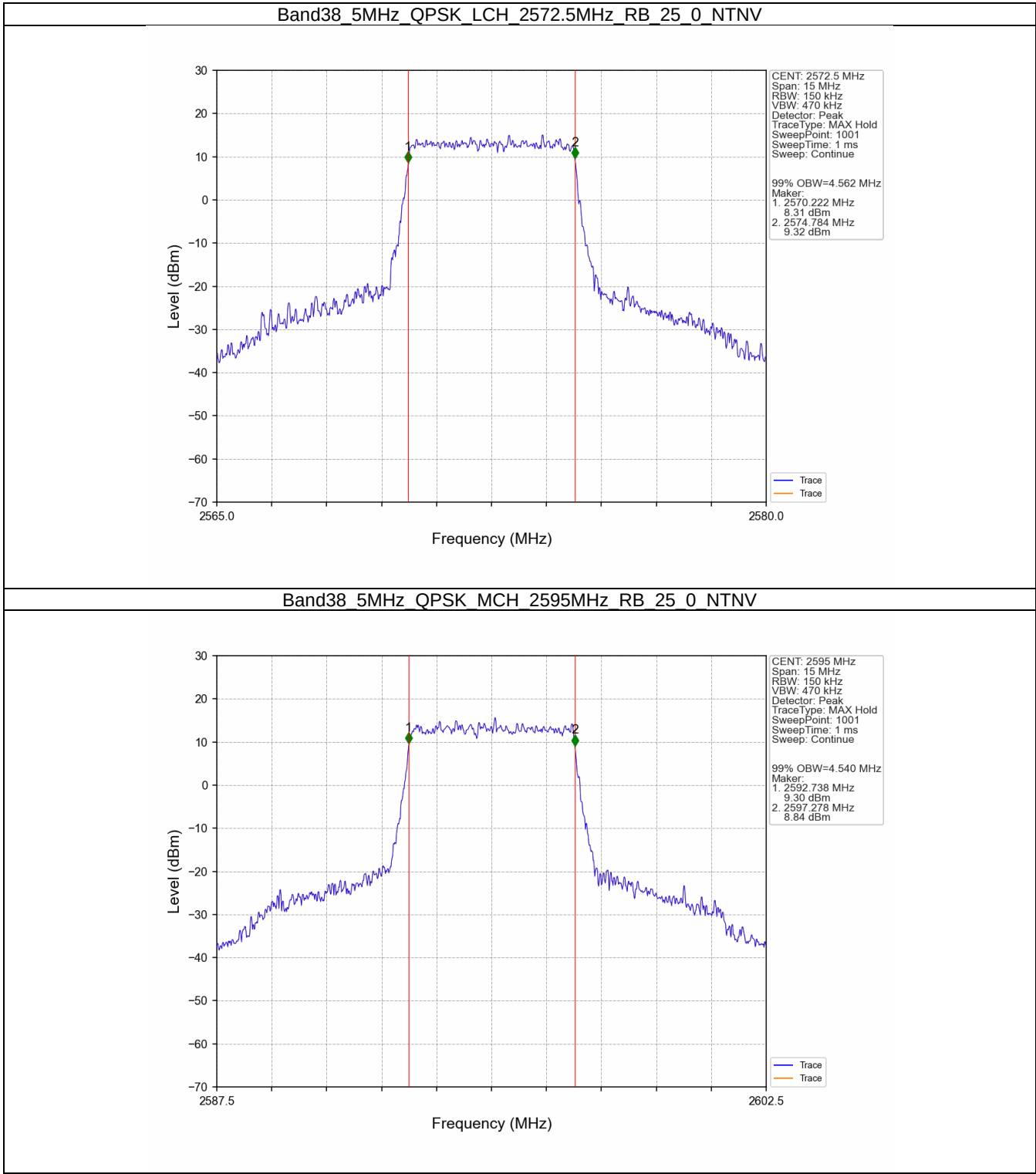
##### 3.1.2 Band38\_XDB

| Band: 38 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 5               | QPSK       | 2572.5          | 25            | 0      | 5.223                | /     | Pass    |
|                 |            | 2595            | 25            | 0      | 5.196                | /     | Pass    |
|                 |            | 2617.5          | 25            | 0      | 5.201                | /     | Pass    |

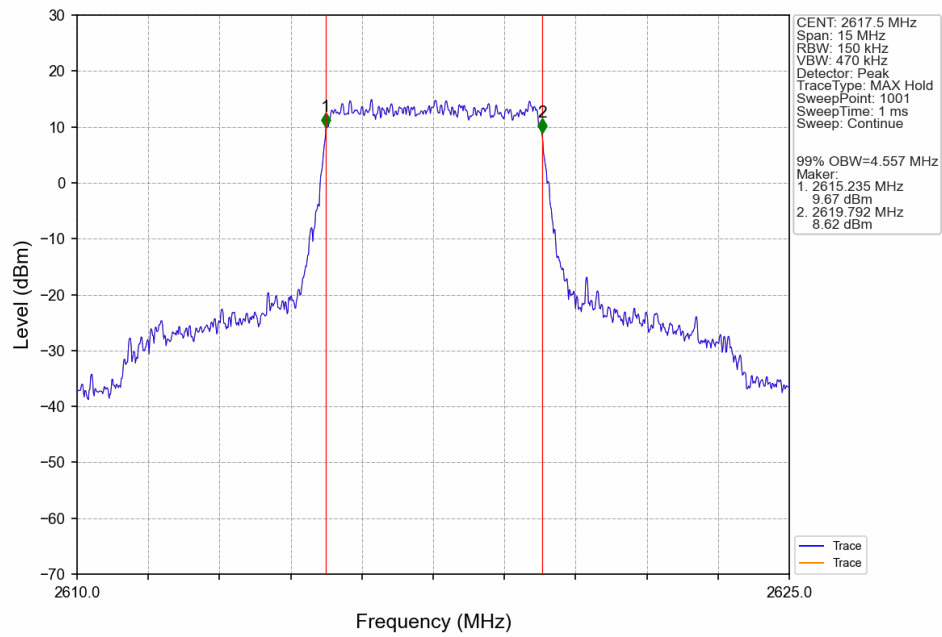
|    |       |        |     |   |        |   |      |
|----|-------|--------|-----|---|--------|---|------|
|    | 16QAM | 2572.5 | 25  | 0 | 5.253  | / | Pass |
|    |       | 2595   | 25  | 0 | 5.201  | / | Pass |
|    |       | 2617.5 | 25  | 0 | 5.208  | / | Pass |
|    | 64QAM | 2572.5 | 25  | 0 | 5.196  | / | Pass |
|    |       | 2595   | 25  | 0 | 5.174  | / | Pass |
|    |       | 2617.5 | 25  | 0 | 5.254  | / | Pass |
| 10 | QPSK  | 2575   | 50  | 0 | 10.128 | / | Pass |
|    |       | 2595   | 50  | 0 | 10.429 | / | Pass |
|    |       | 2615   | 50  | 0 | 10.271 | / | Pass |
|    | 16QAM | 2575   | 50  | 0 | 10.145 | / | Pass |
|    |       | 2595   | 50  | 0 | 10.169 | / | Pass |
|    |       | 2615   | 50  | 0 | 10.230 | / | Pass |
|    | 64QAM | 2575   | 50  | 0 | 10.112 | / | Pass |
|    |       | 2595   | 50  | 0 | 10.411 | / | Pass |
|    |       | 2615   | 50  | 0 | 10.207 | / | Pass |
| 15 | QPSK  | 2577.5 | 75  | 0 | 15.210 | / | Pass |
|    |       | 2595   | 75  | 0 | 14.992 | / | Pass |
|    |       | 2612.5 | 75  | 0 | 15.051 | / | Pass |
|    | 16QAM | 2577.5 | 75  | 0 | 15.191 | / | Pass |
|    |       | 2595   | 75  | 0 | 15.202 | / | Pass |
|    |       | 2612.5 | 75  | 0 | 15.151 | / | Pass |
|    | 64QAM | 2577.5 | 75  | 0 | 15.240 | / | Pass |
|    |       | 2595   | 75  | 0 | 15.076 | / | Pass |
|    |       | 2612.5 | 75  | 0 | 15.052 | / | Pass |
| 20 | QPSK  | 2580   | 100 | 0 | 20.163 | / | Pass |
|    |       | 2595   | 100 | 0 | 20.023 | / | Pass |
|    |       | 2610   | 100 | 0 | 20.062 | / | Pass |
|    | 16QAM | 2580   | 100 | 0 | 20.155 | / | Pass |
|    |       | 2595   | 100 | 0 | 20.037 | / | Pass |
|    |       | 2610   | 100 | 0 | 19.978 | / | Pass |
|    | 64QAM | 2580   | 100 | 0 | 20.102 | / | Pass |
|    |       | 2595   | 100 | 0 | 20.026 | / | Pass |
|    |       | 2610   | 100 | 0 | 20.096 | / | Pass |

3.2 Test Graph

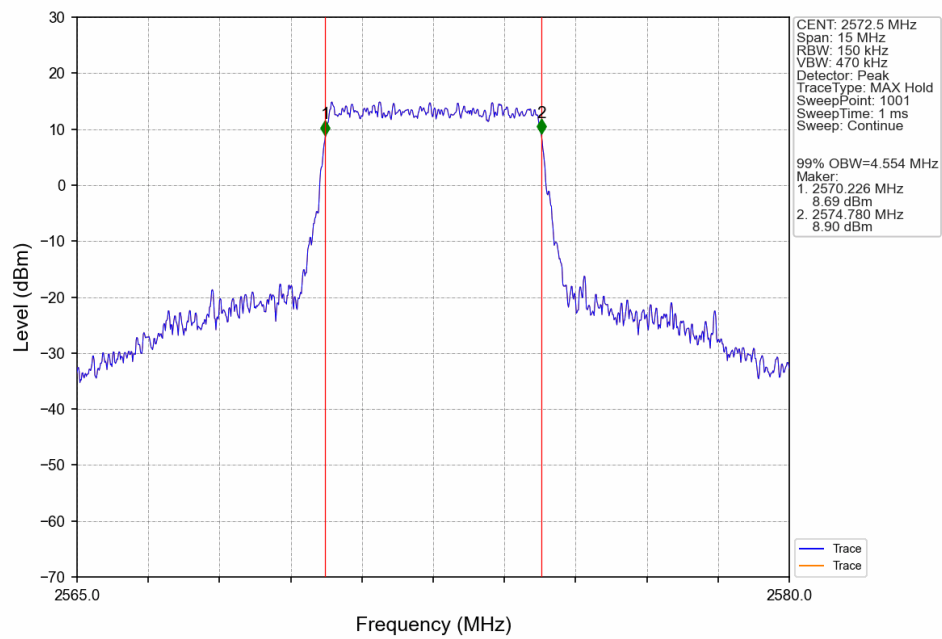
3.2.1 Band38\_OBW



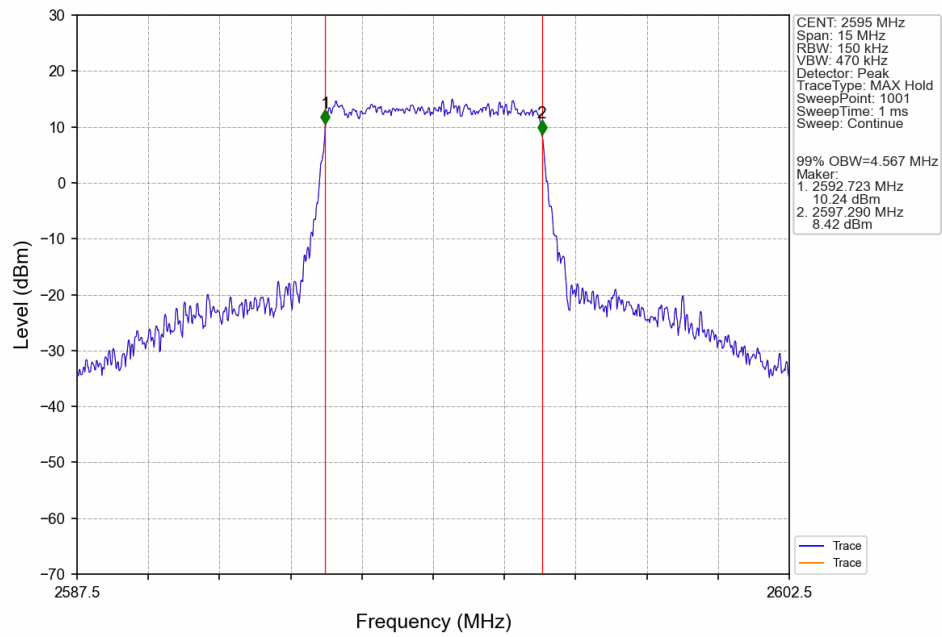
Band38 5MHz QPSK HCH 2617.5MHz RB 25 0 NTNV



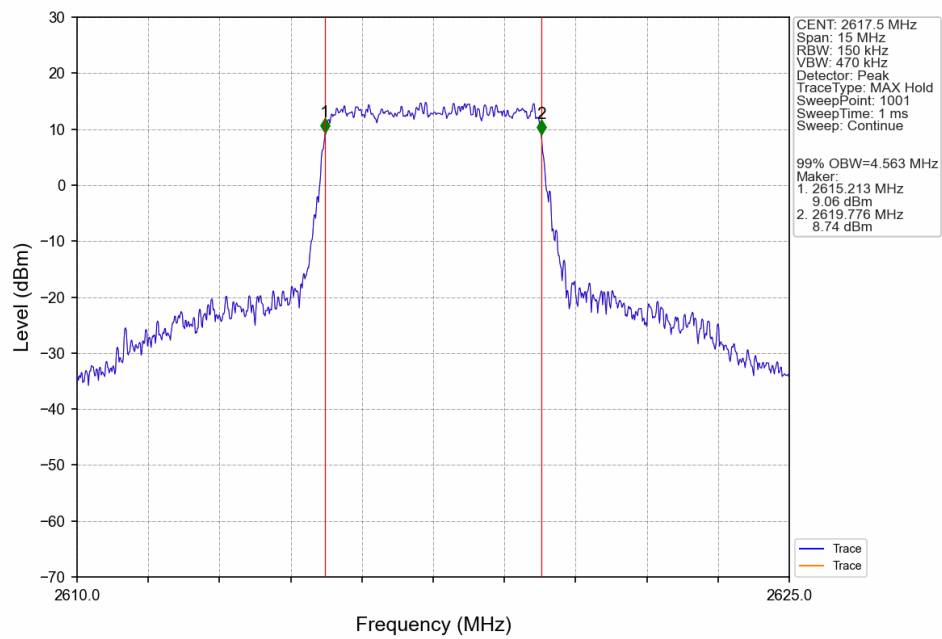
Band38 5MHz 16QAM LCH 2572.5MHz RB 25 0 NTNV



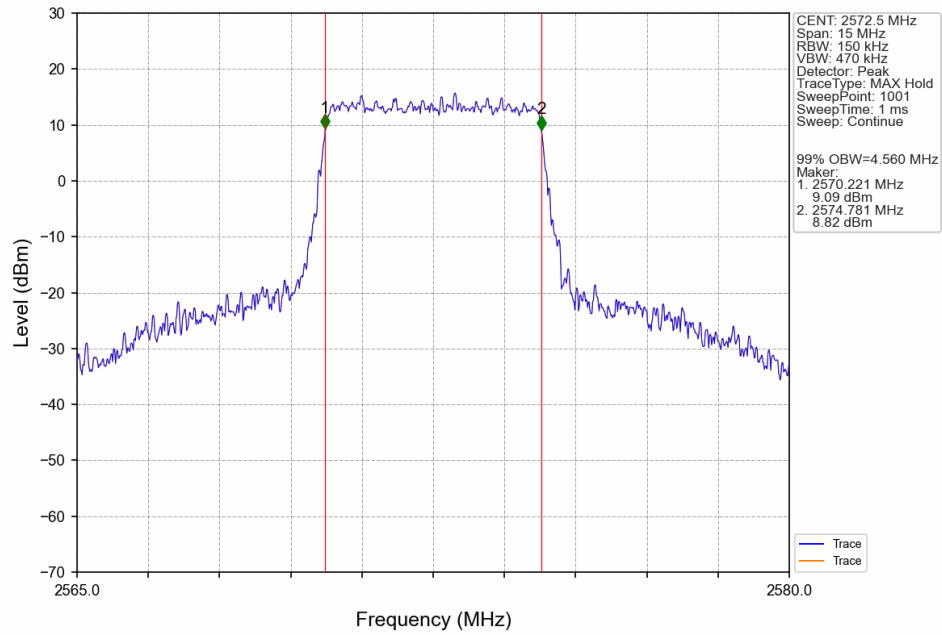
Band38\_5MHz\_16QAM\_MCH\_2595MHz\_RB\_25\_0\_NTNV



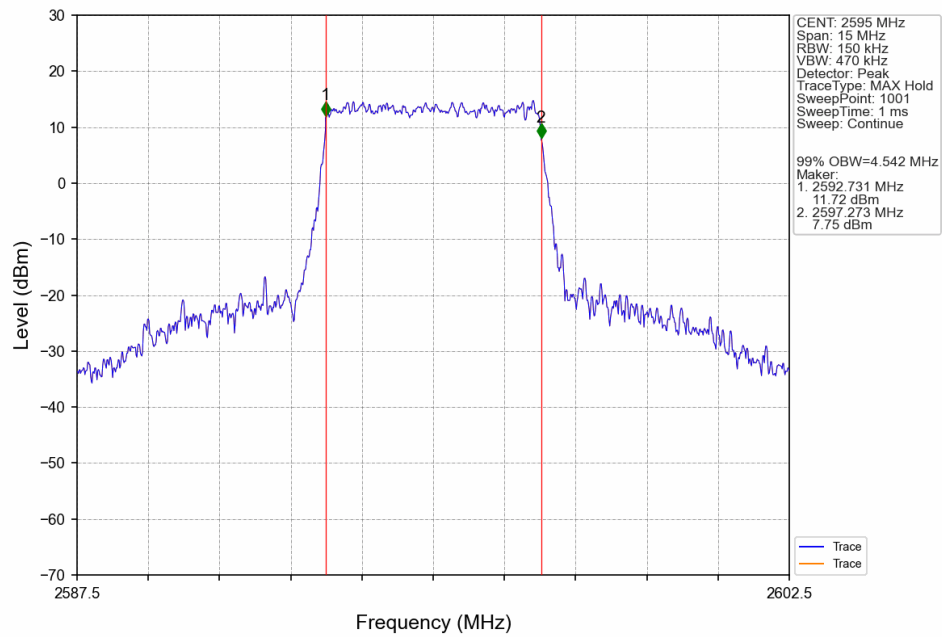
Band38\_5MHz\_16QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



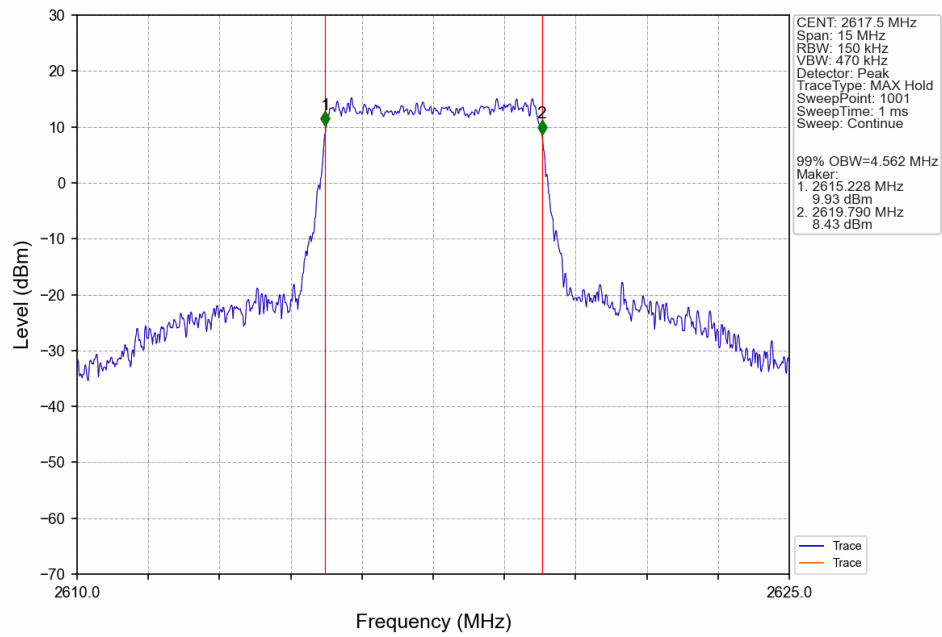
Band38 5MHz 64QAM LCH 2572.5MHz RB 25 0 NTNV



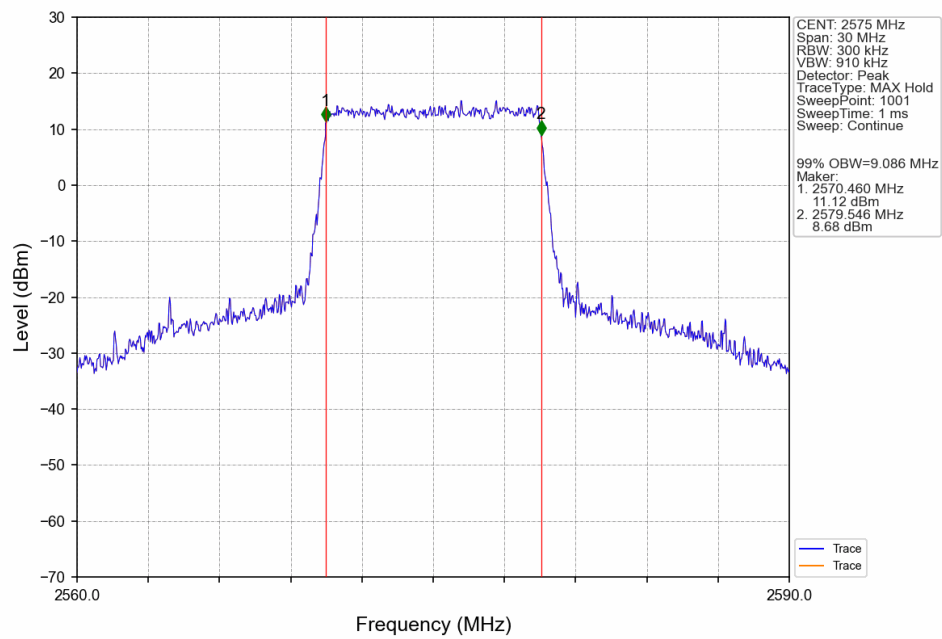
Band38\_5MHz\_64QAM\_MCH\_2595MHz\_RB\_25\_0\_NTNV



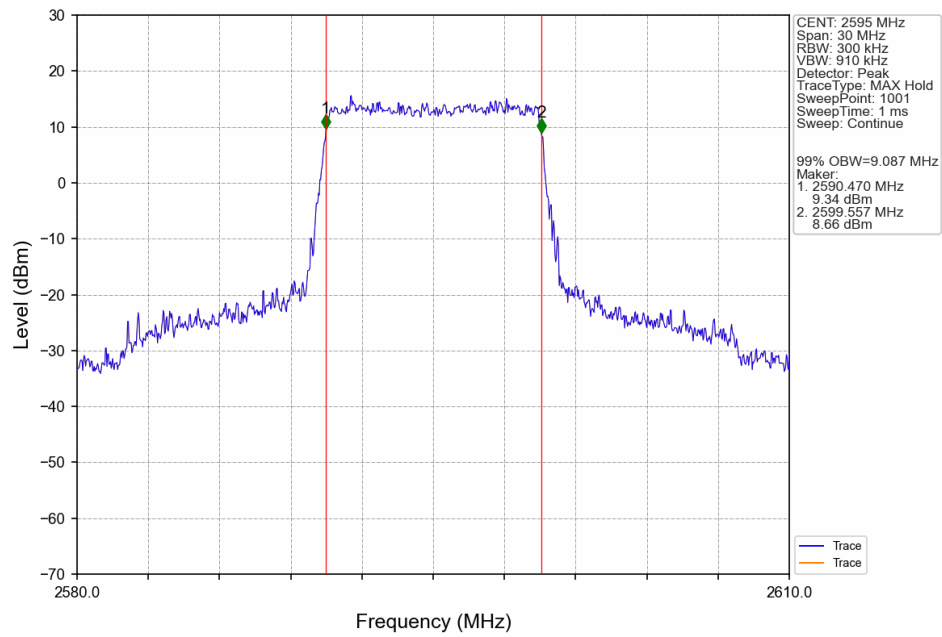
Band38 5MHz 64QAM HCH 2617.5MHz RB 25 0 NTN



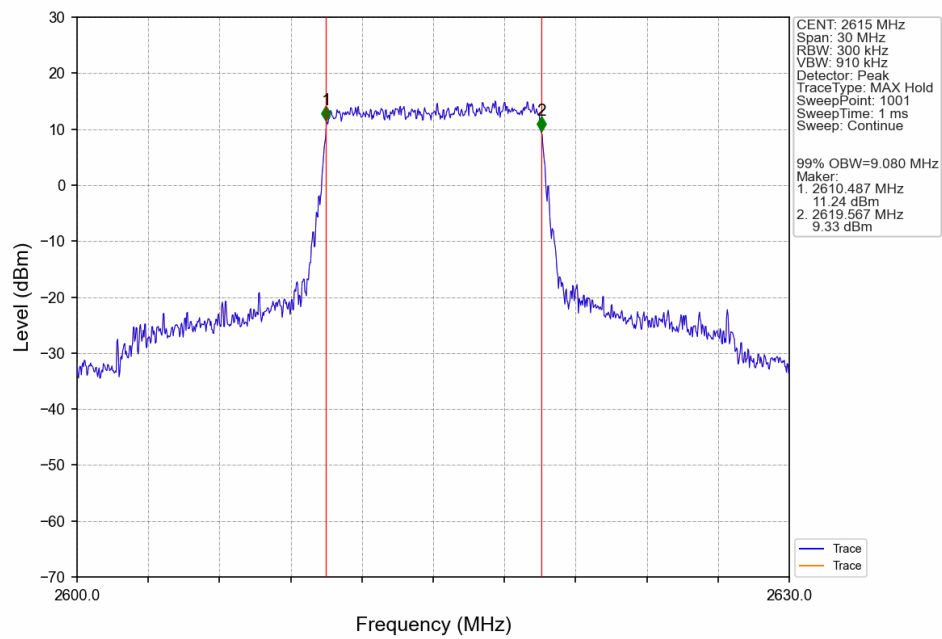
Band38\_10MHz\_QPSK\_LCH 2575MHz RB 50 0 NTN



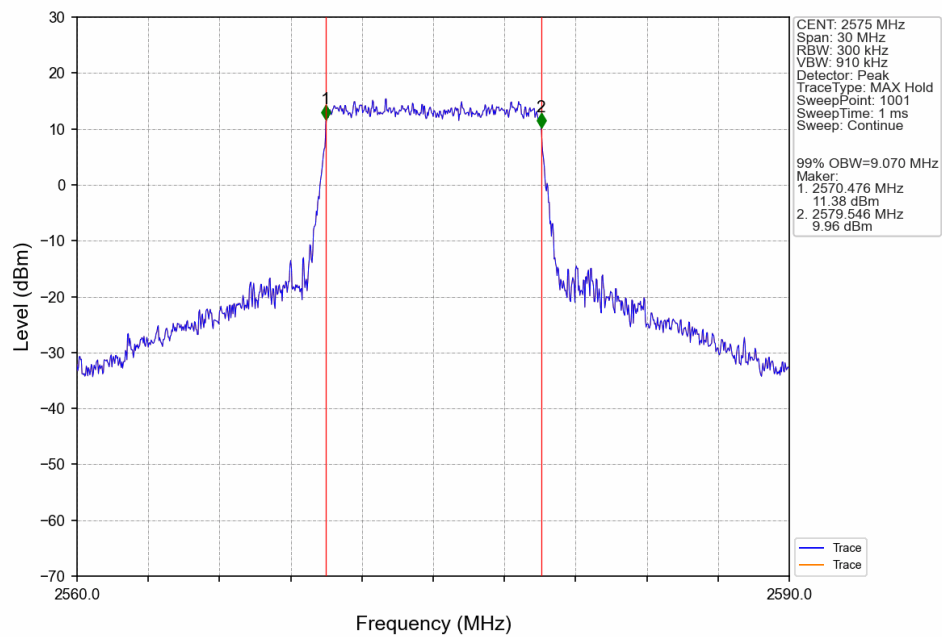
# Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_50\_0\_NTNV



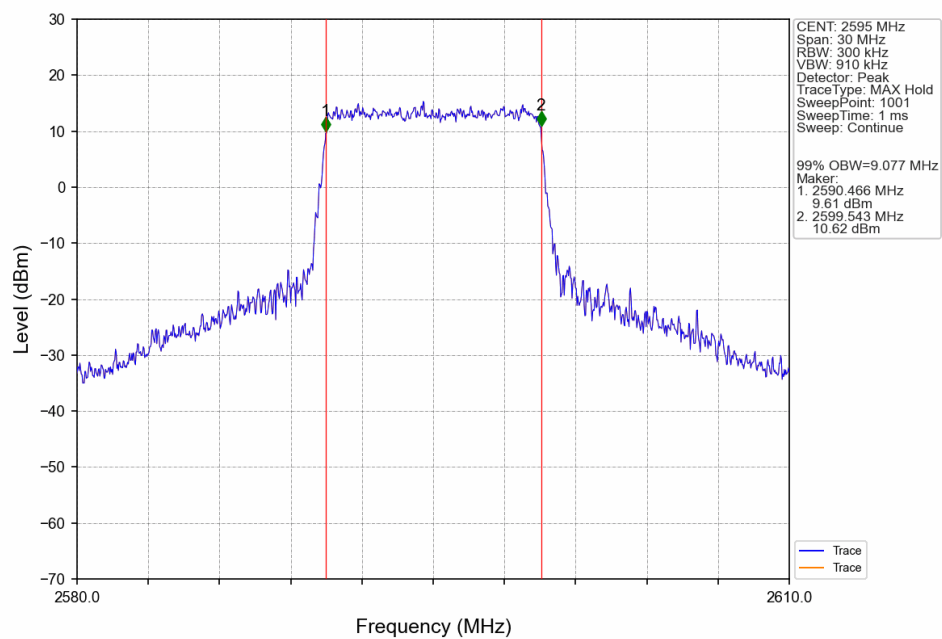
# Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_50\_0\_NTNV



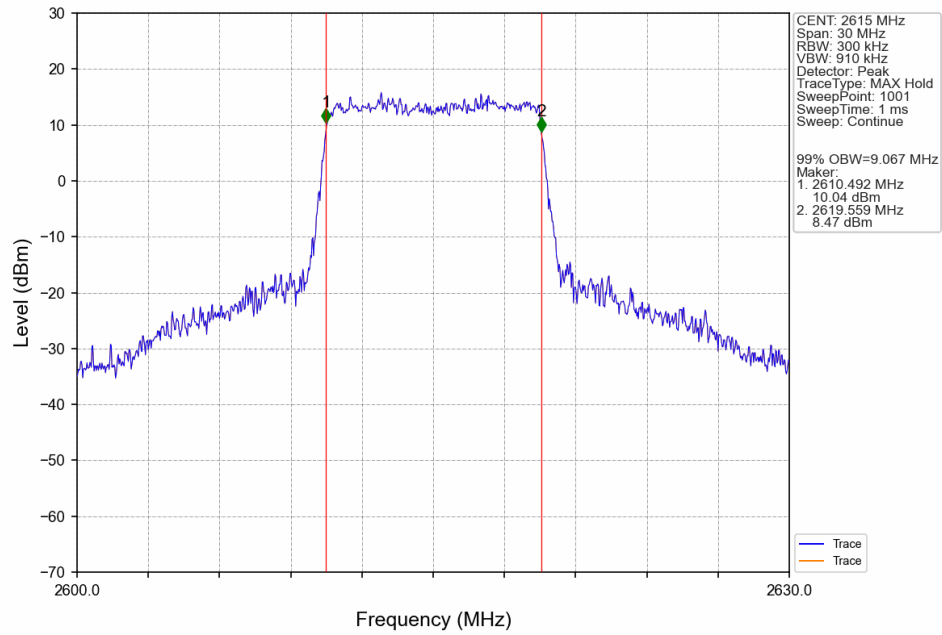
Band38 10MHz 16QAM LCH 2575MHz RB 50 0 NTNV



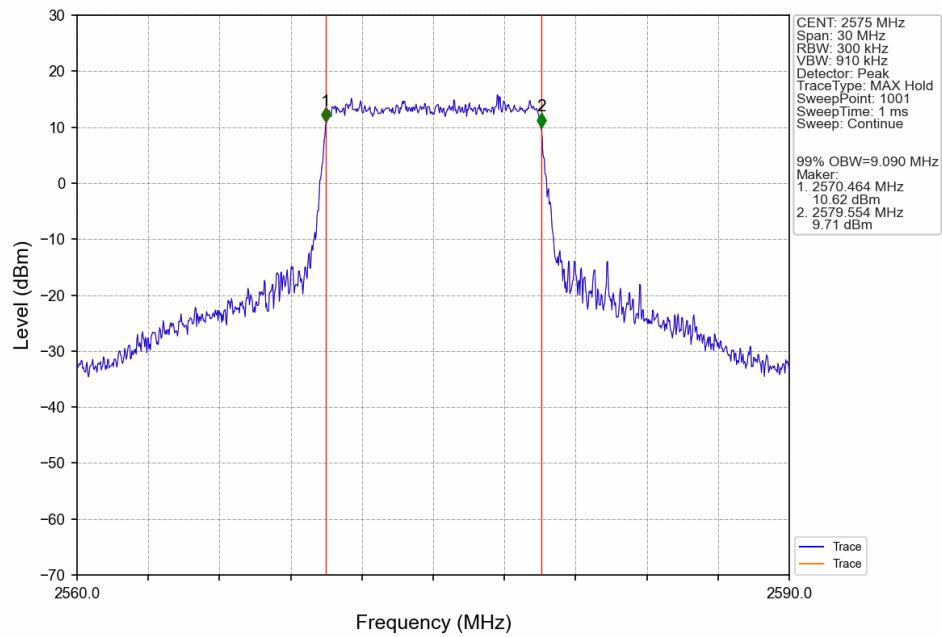
Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTNV



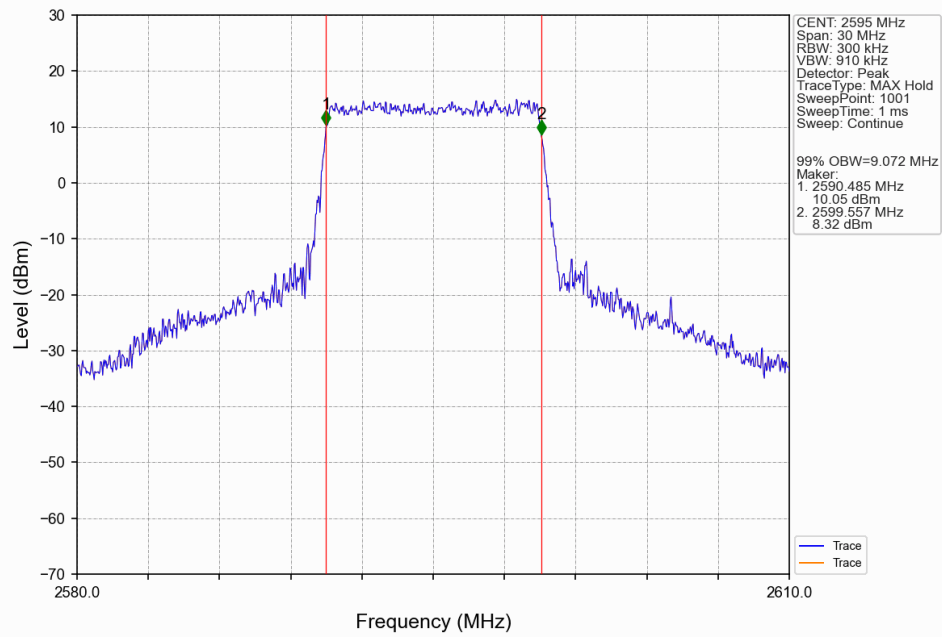
Band38 10MHz 16QAM HCH 2615MHz RB 50 0 NTNV



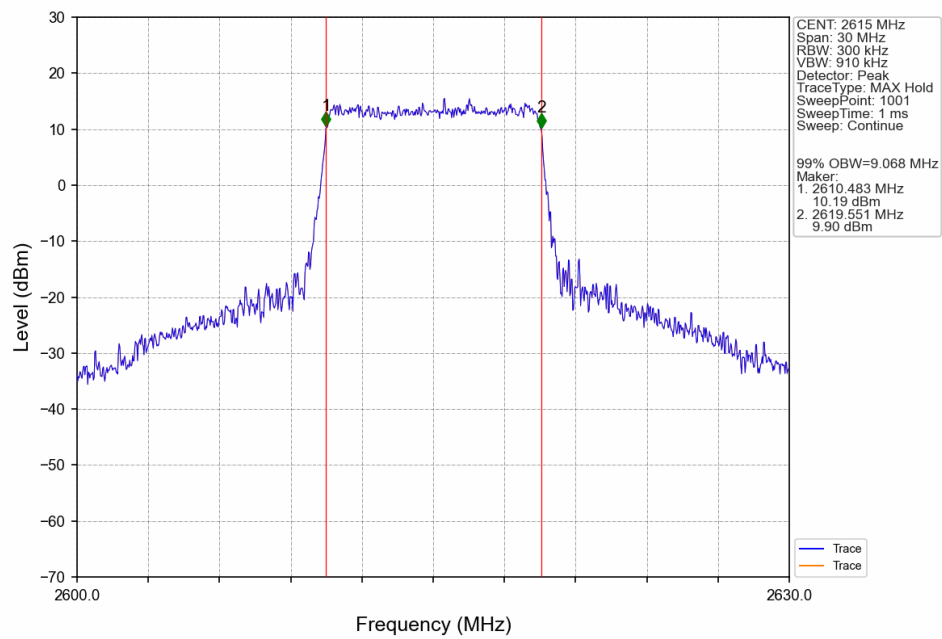
Band38 10MHz 64QAM LCH 2575MHz RB 50 0 NTNV



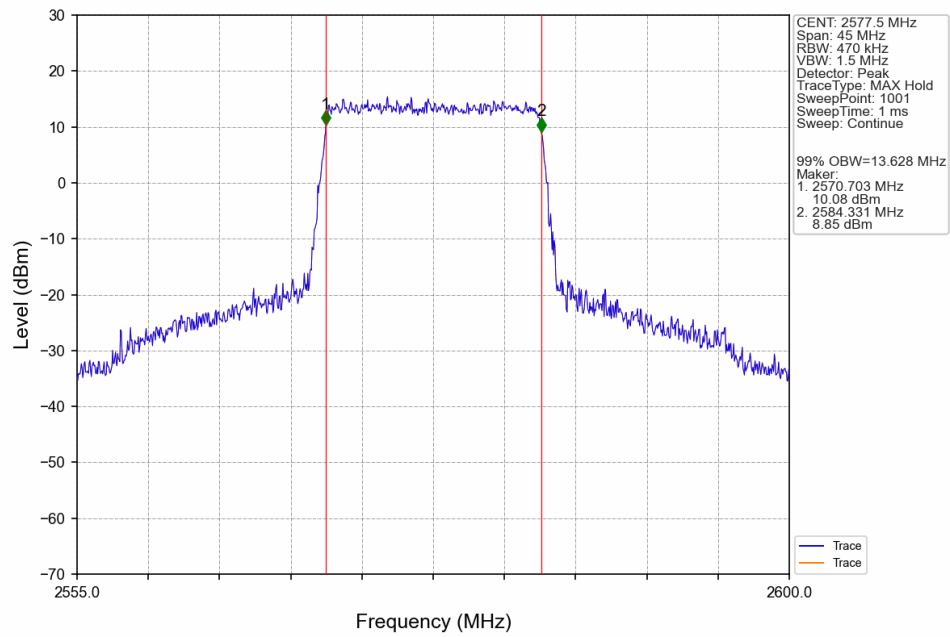
Band38 10MHz 64QAM MCH 2595MHz RB 50 0 NTNV



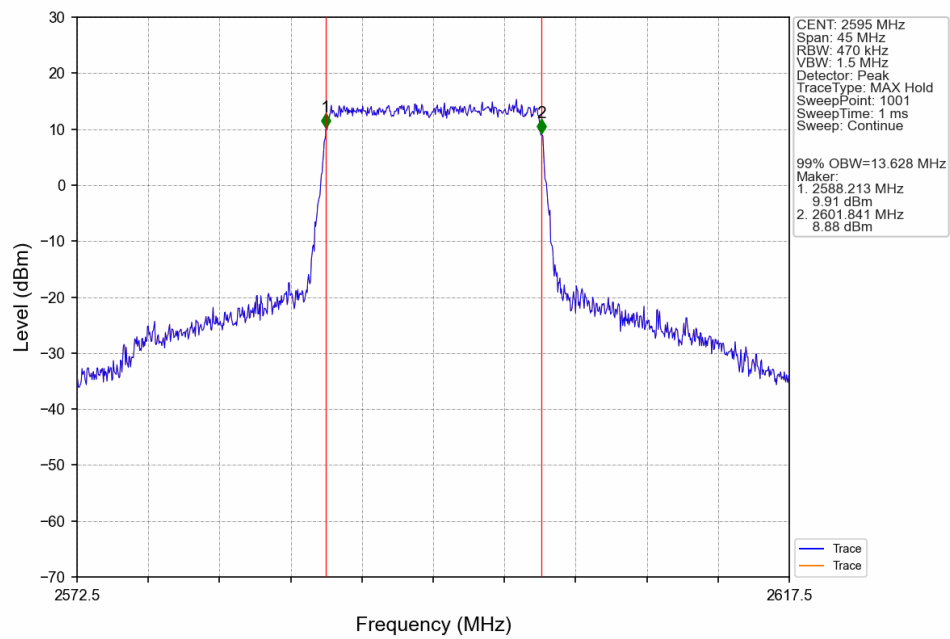
Band38 10MHz 64QAM HCH 2615MHz RB 50 0 NTNV



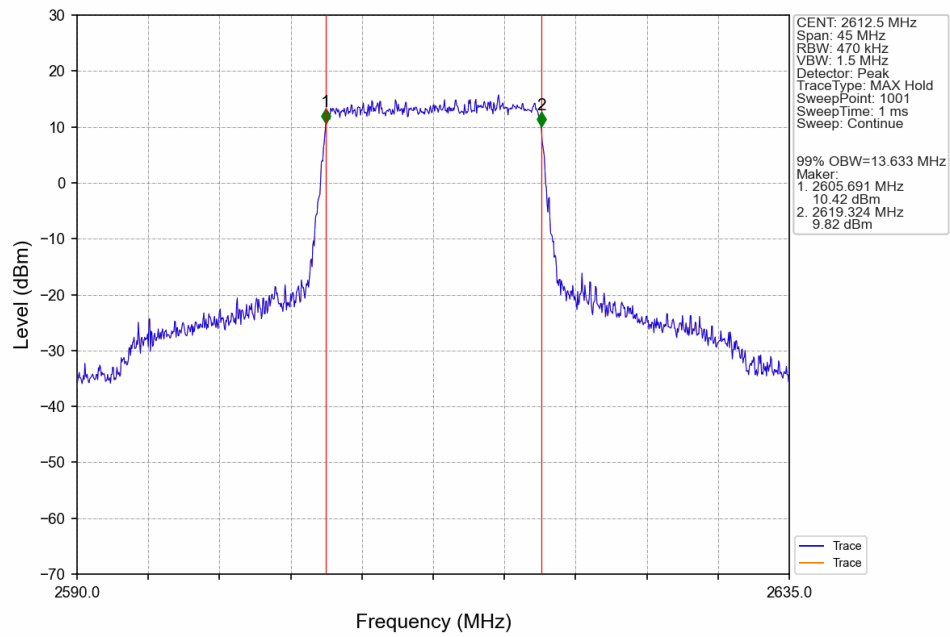
# Band38 15MHz QPSK LCH 2577.5MHz RB 75 0 NTNV



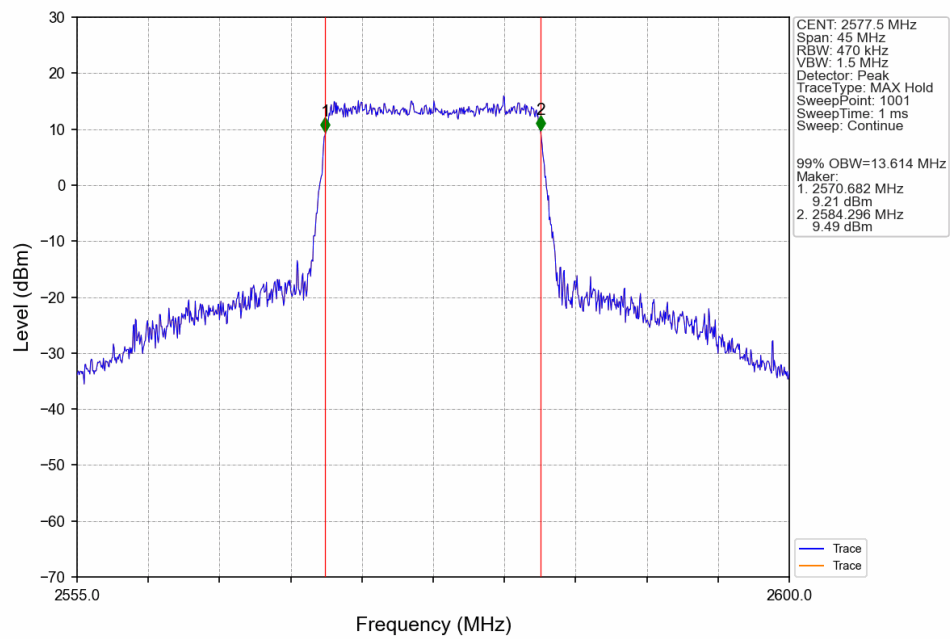
# Band38 15MHz QPSK MCH 2595MHz RB 75 0 NTNV



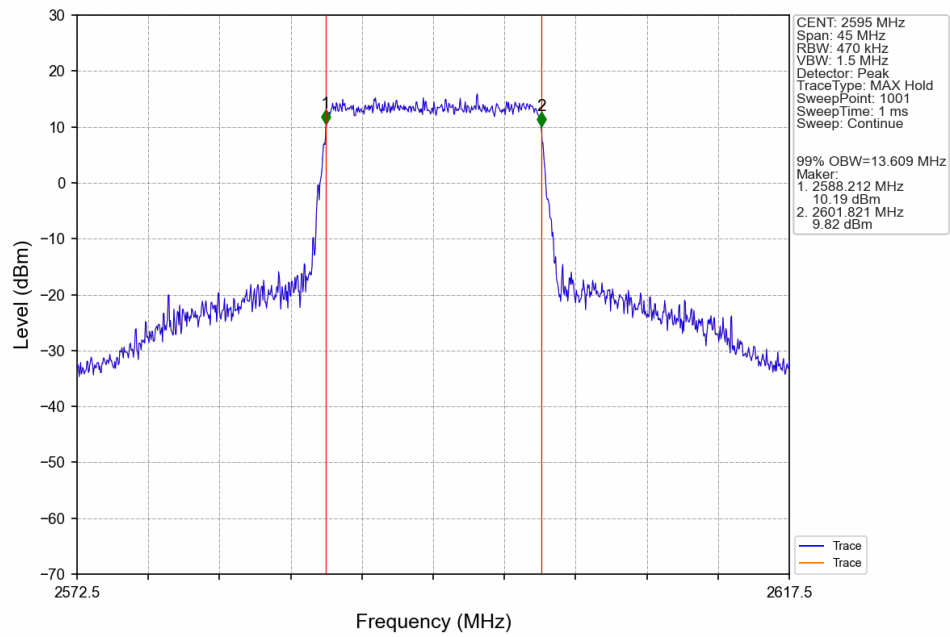
Band38 15MHz QPSK HCH 2612.5MHz RB 75 0 NTNV



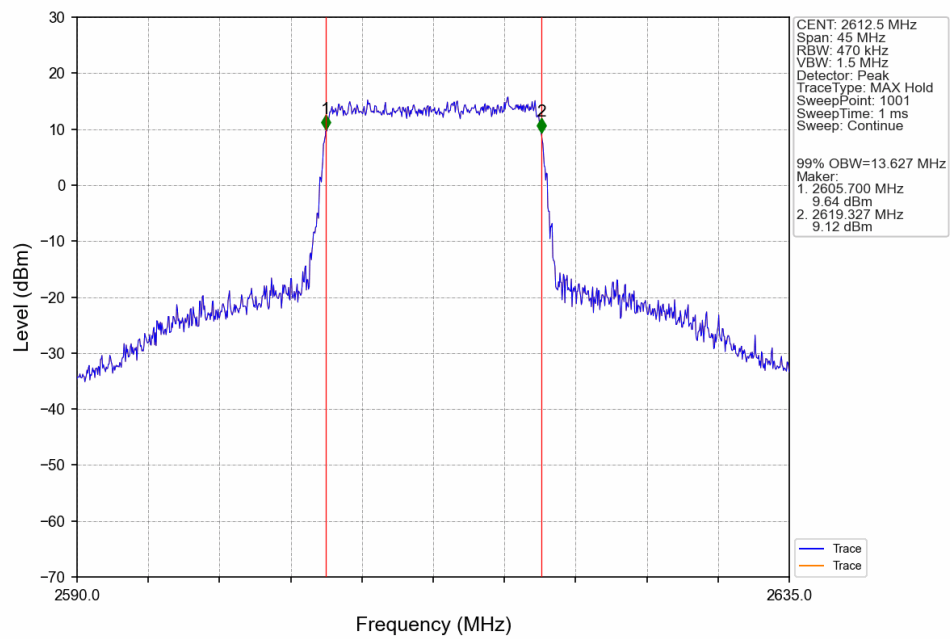
Band38 15MHz 16QAM LCH 2577.5MHz RB 75 0 NTNV



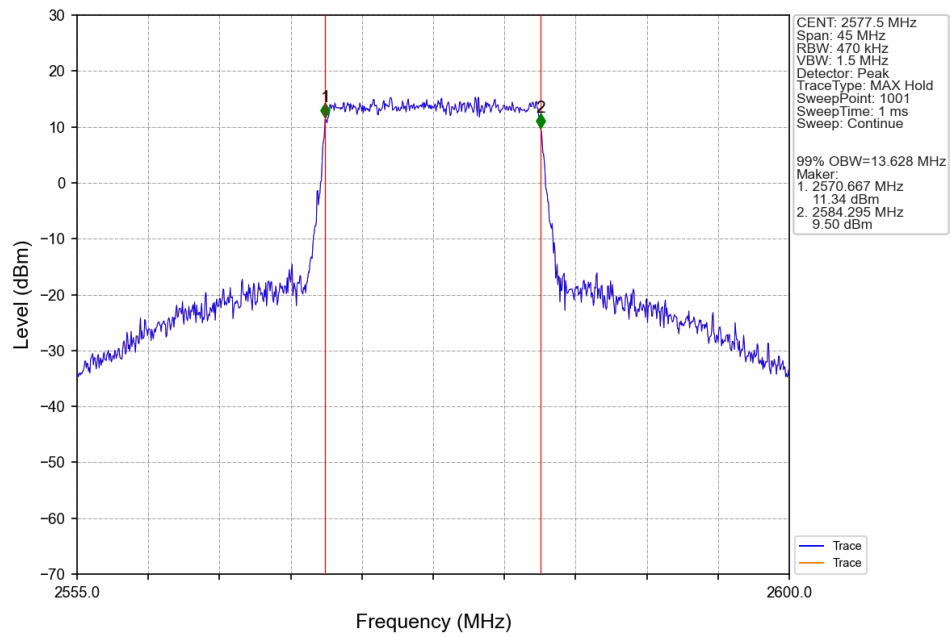
Band38 15MHz 16QAM MCH 2595MHz RB 75 0 NTNV



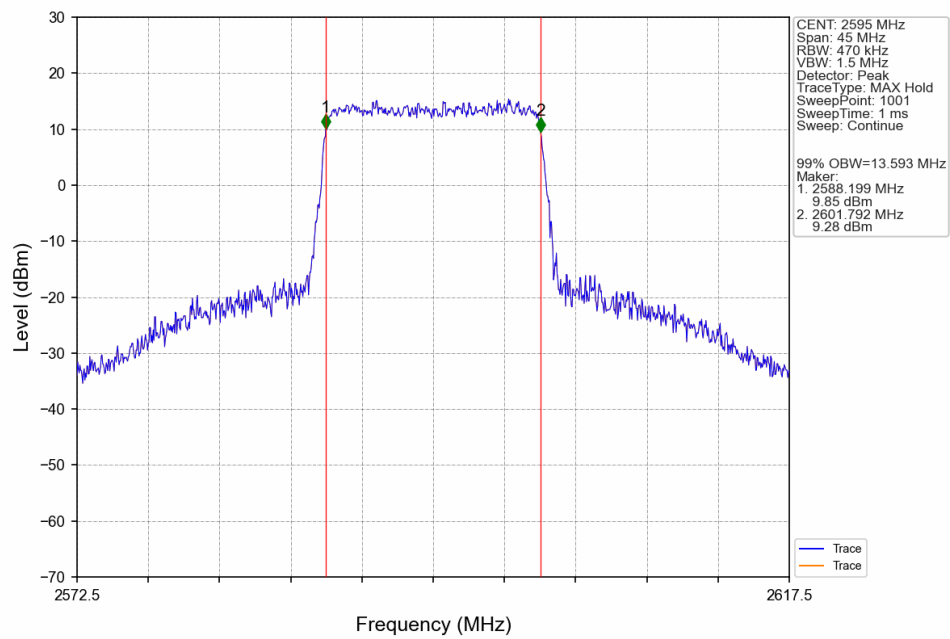
Band38 15MHz 16QAM HCH 2612.5MHz RB 75 0 NTNV



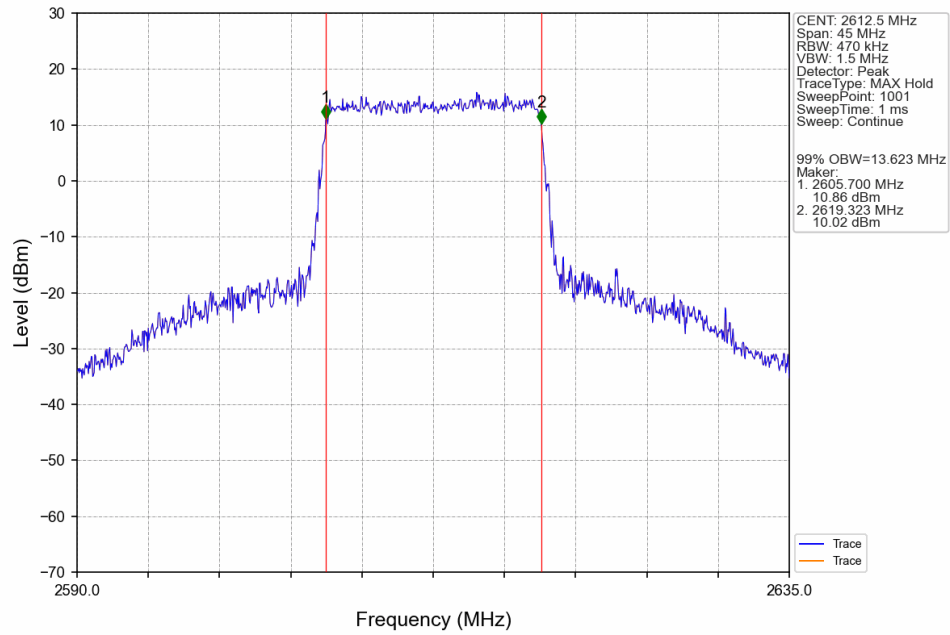
Band38\_15MHz\_64QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



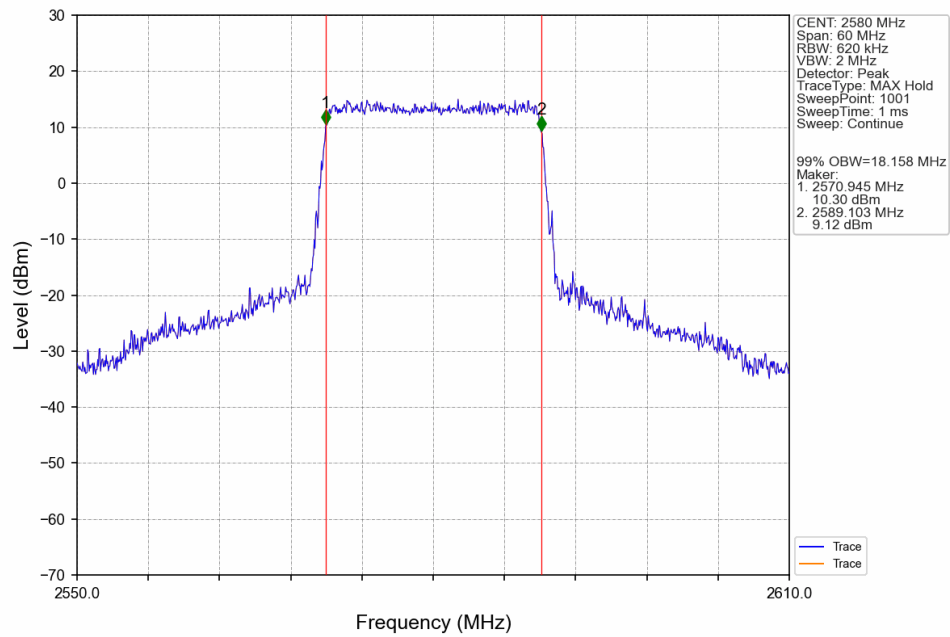
Band38\_15MHz\_64QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV



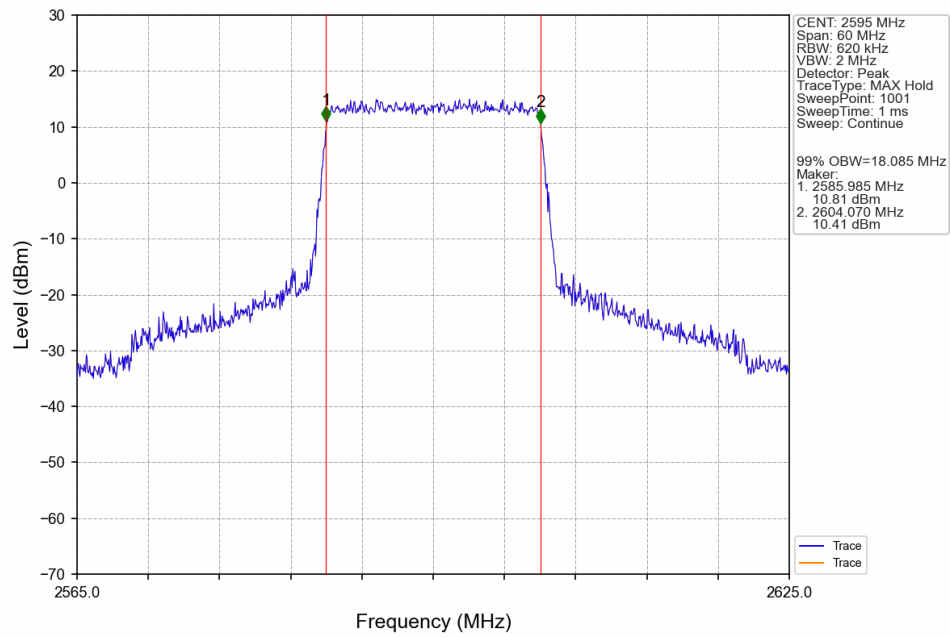
Band38\_15MHz\_64QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



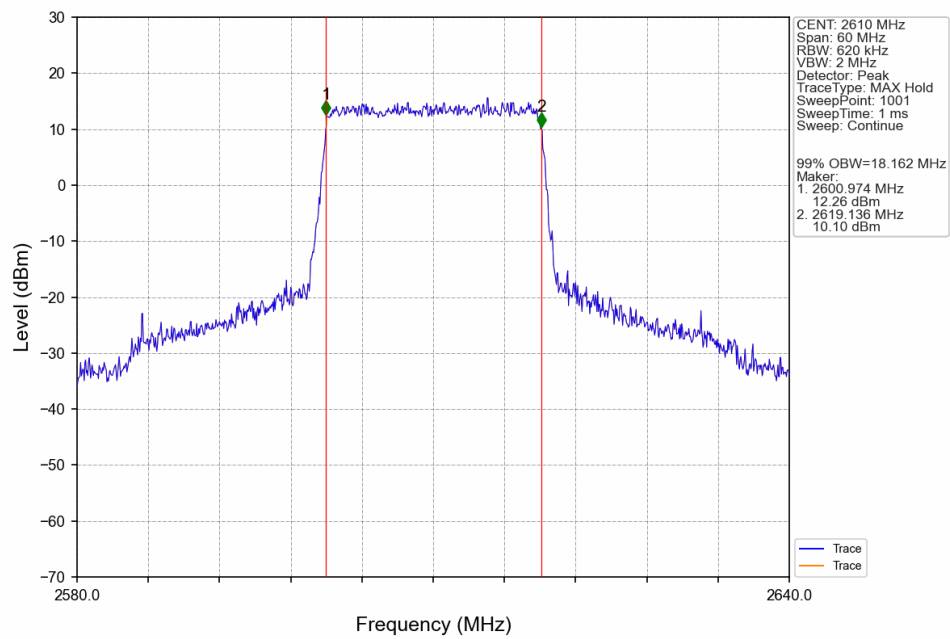
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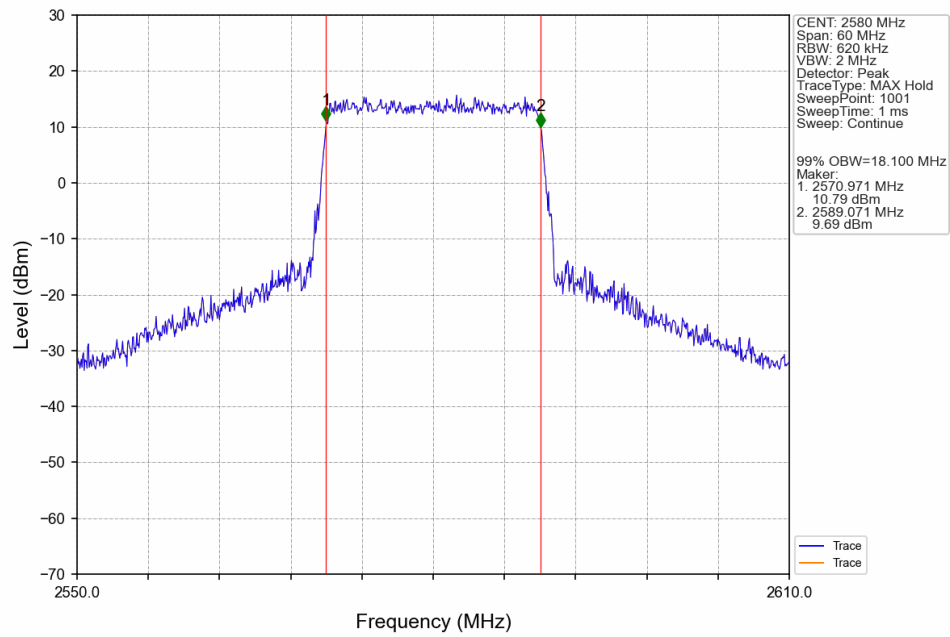
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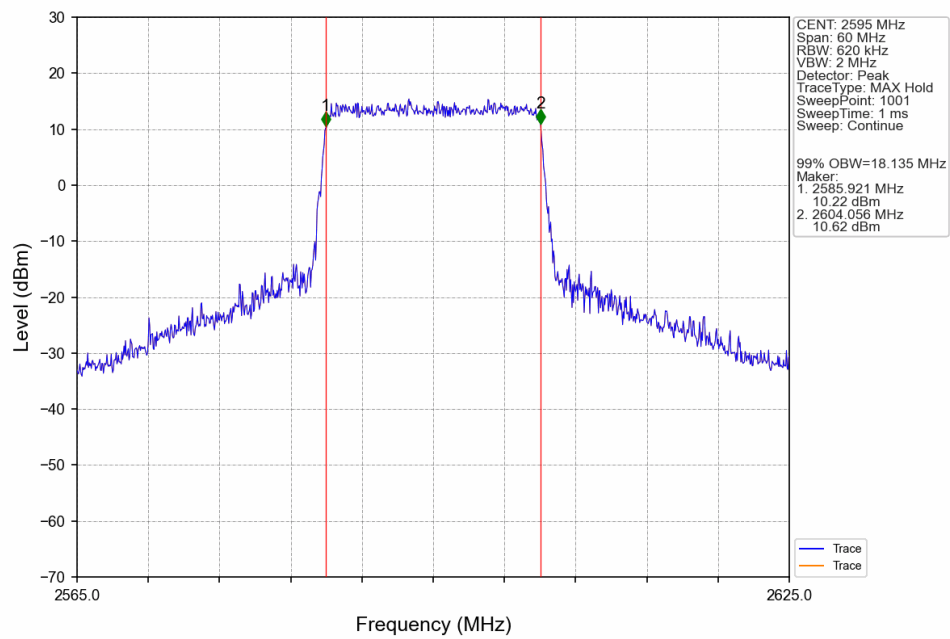
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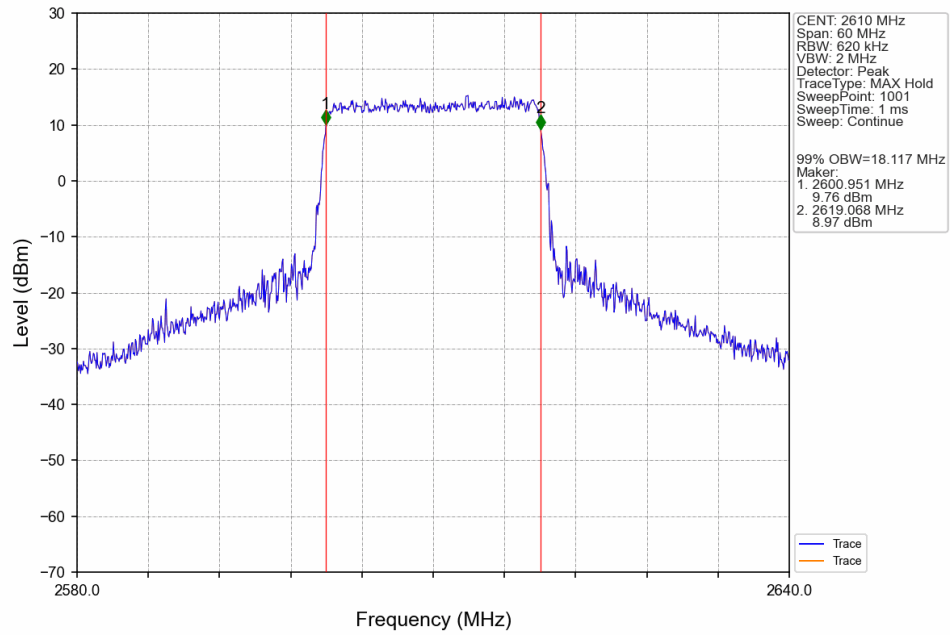
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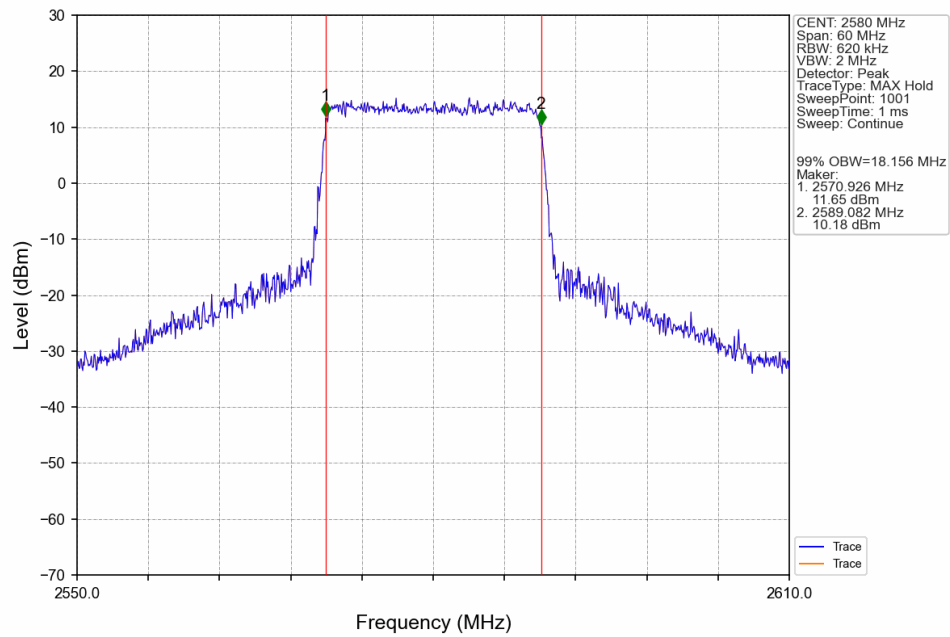
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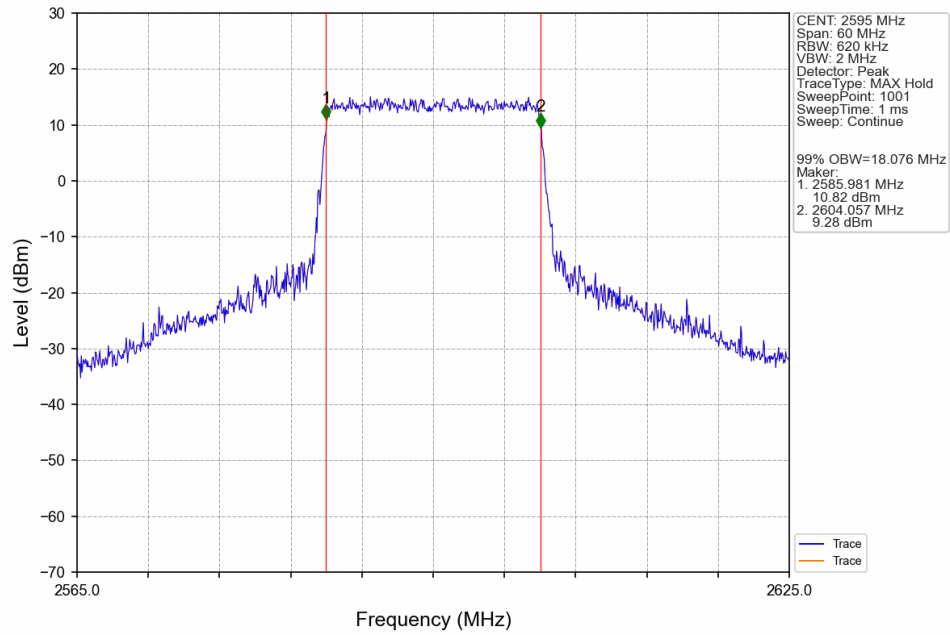
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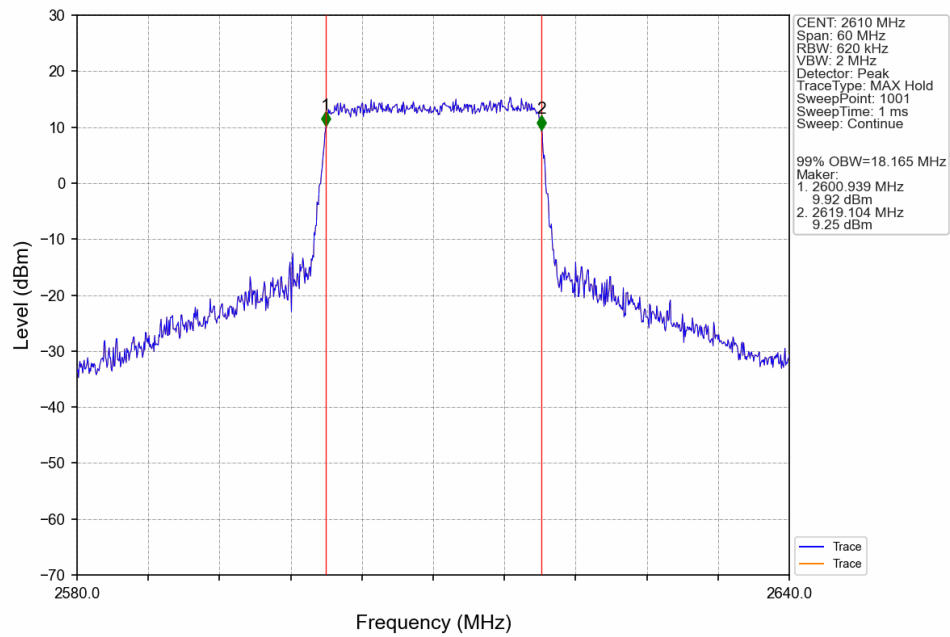
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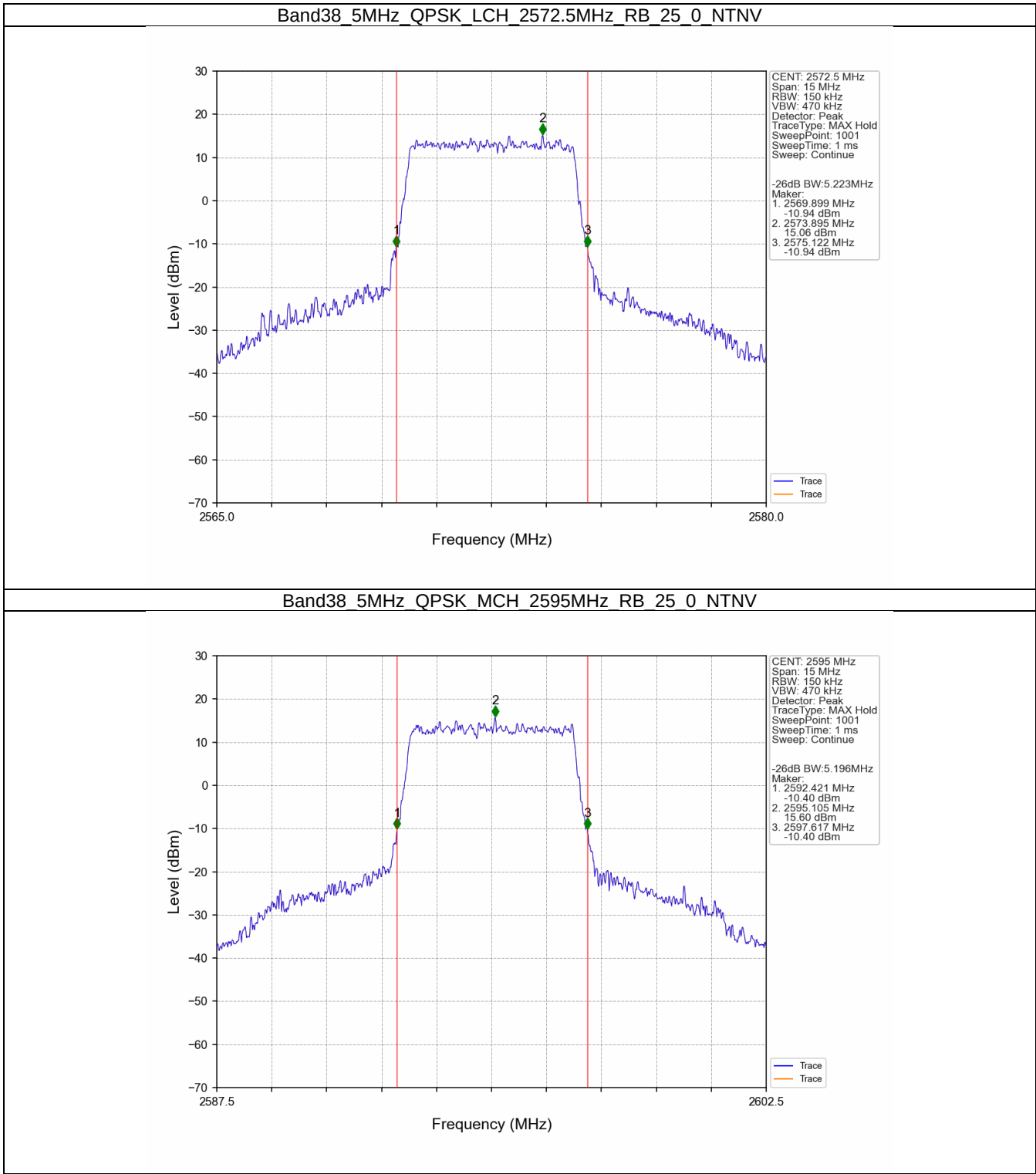
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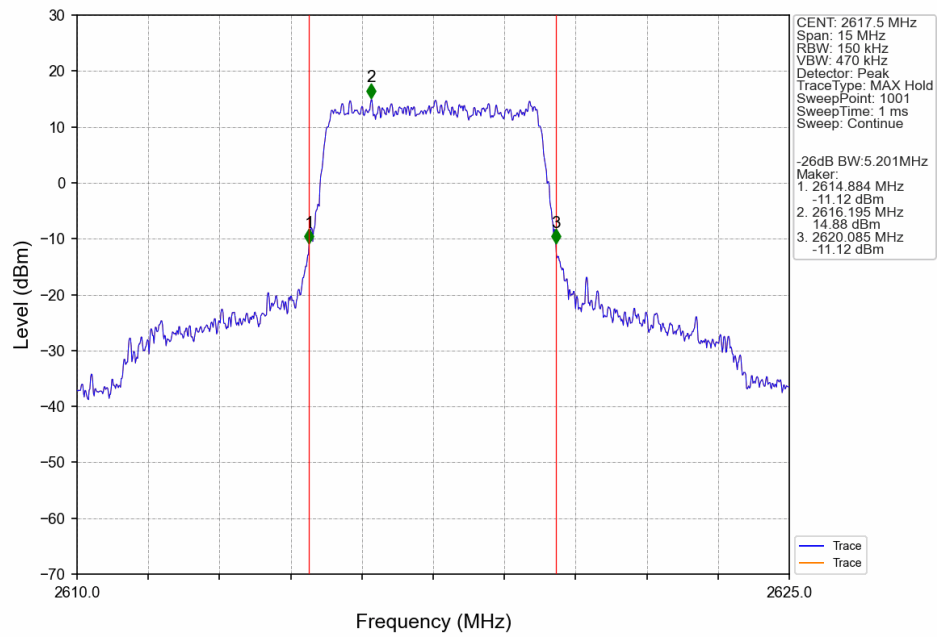
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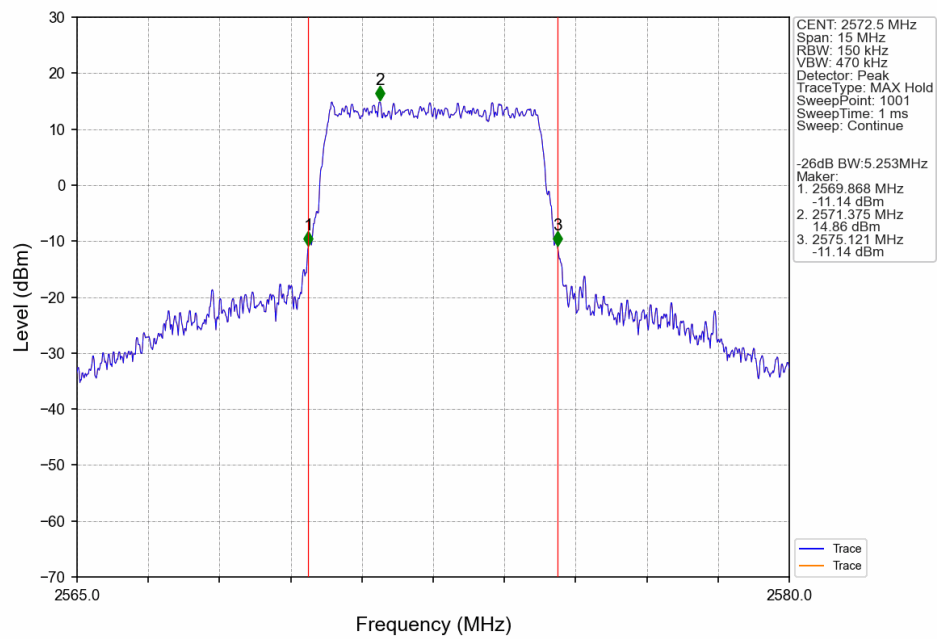
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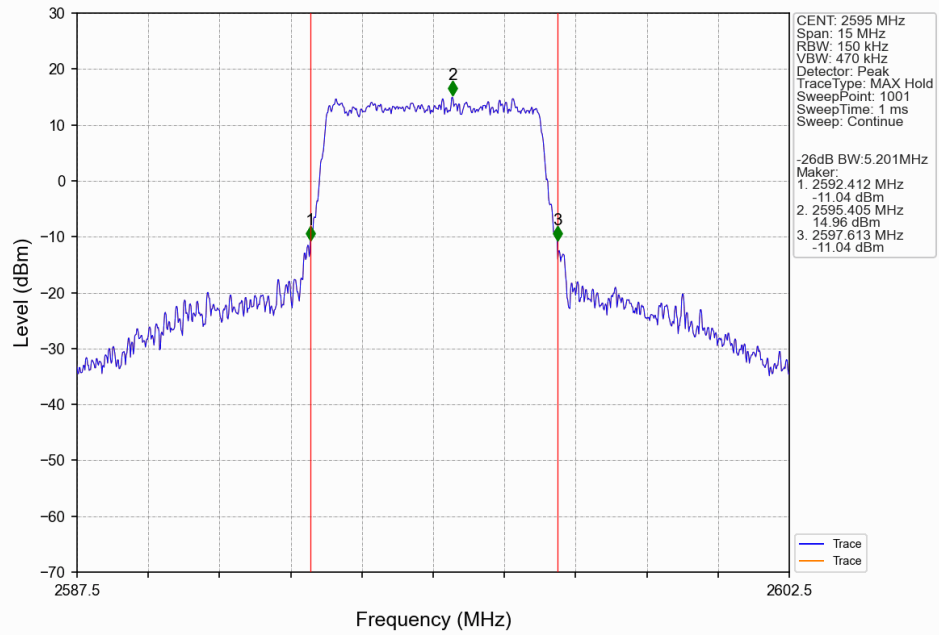
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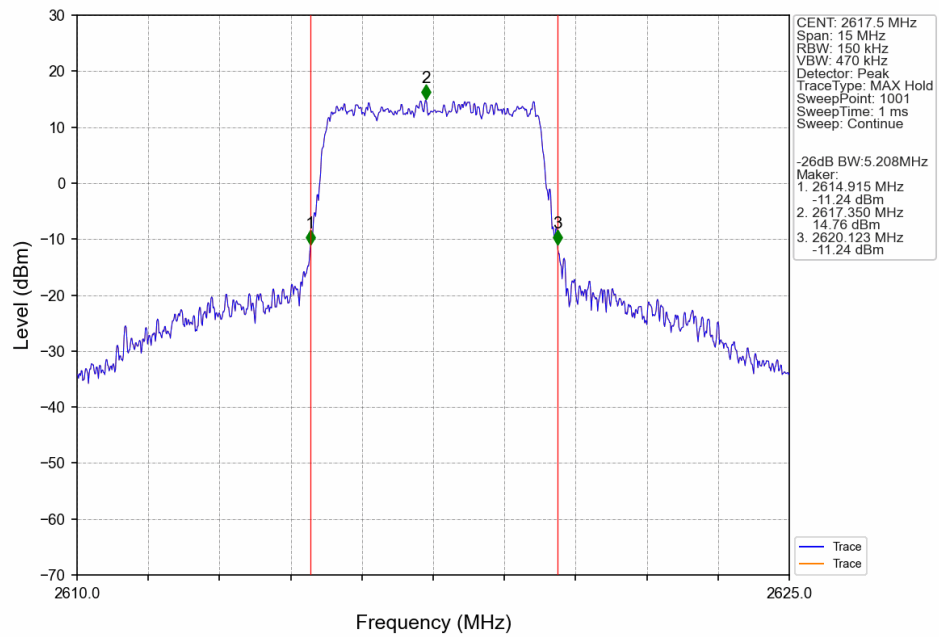
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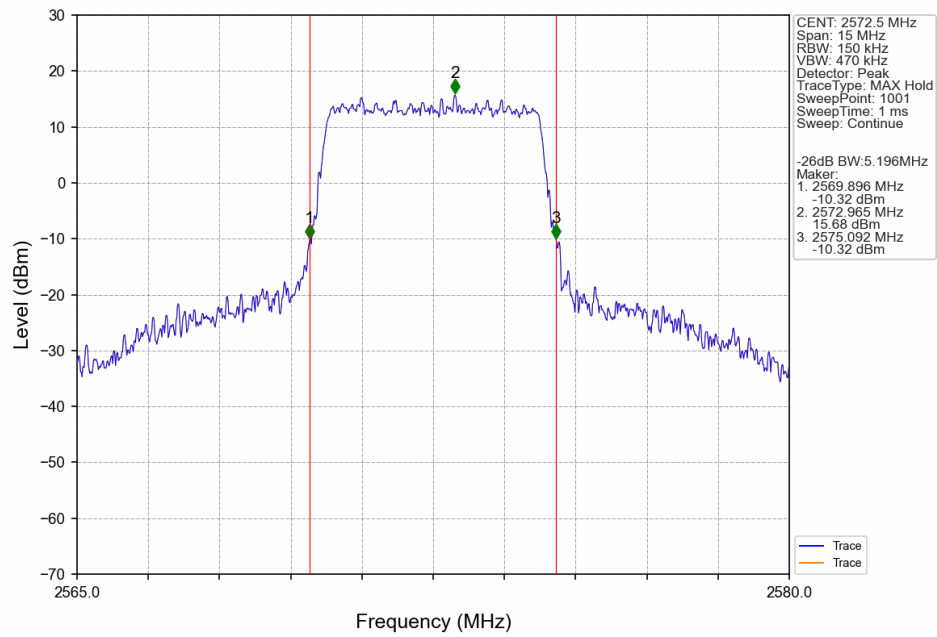
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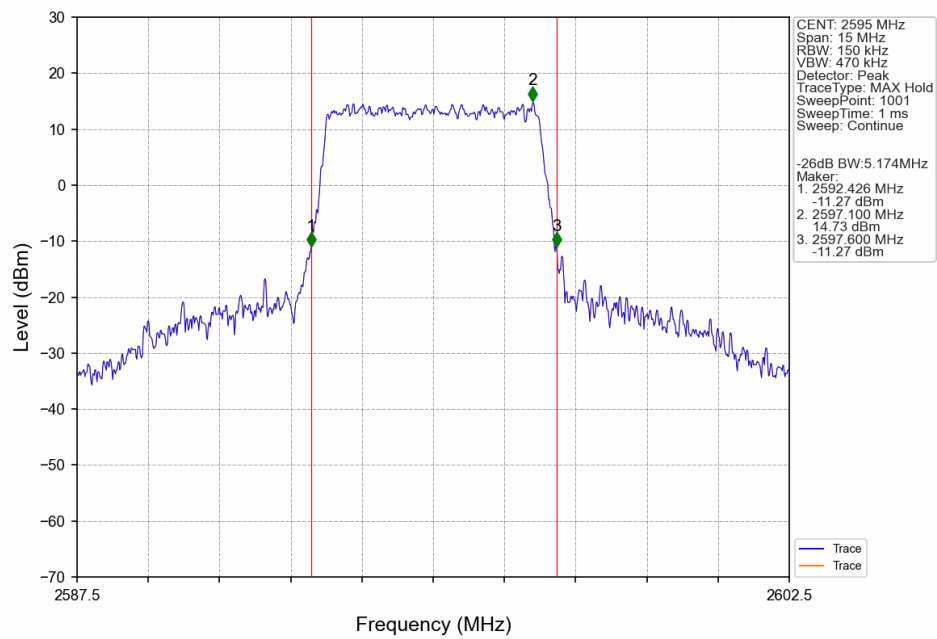
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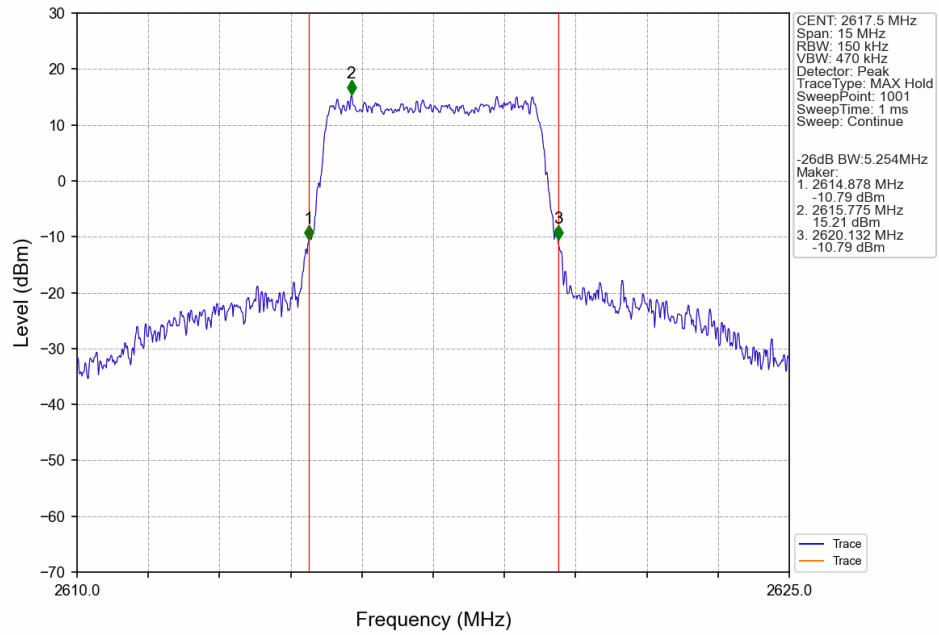
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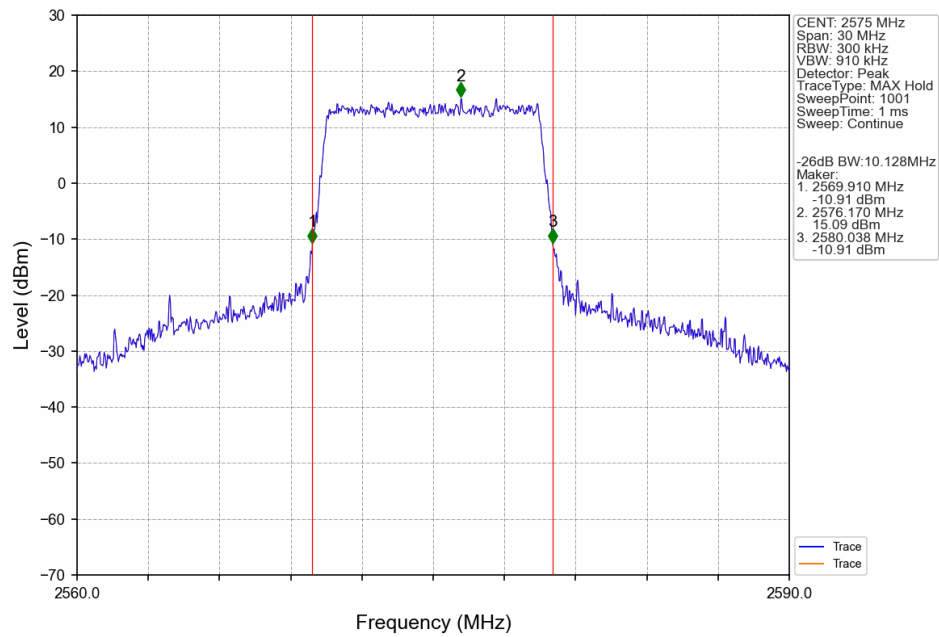
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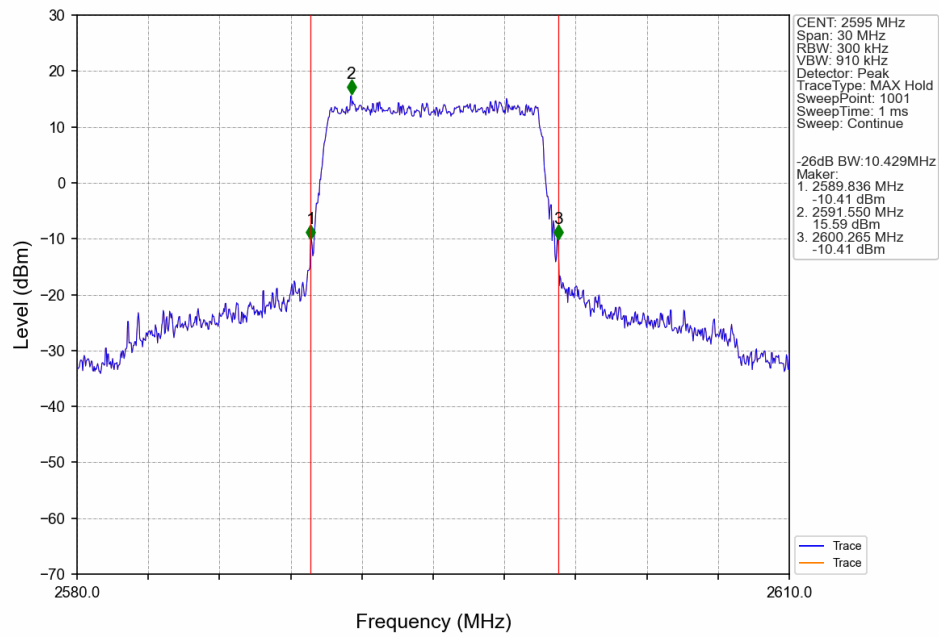
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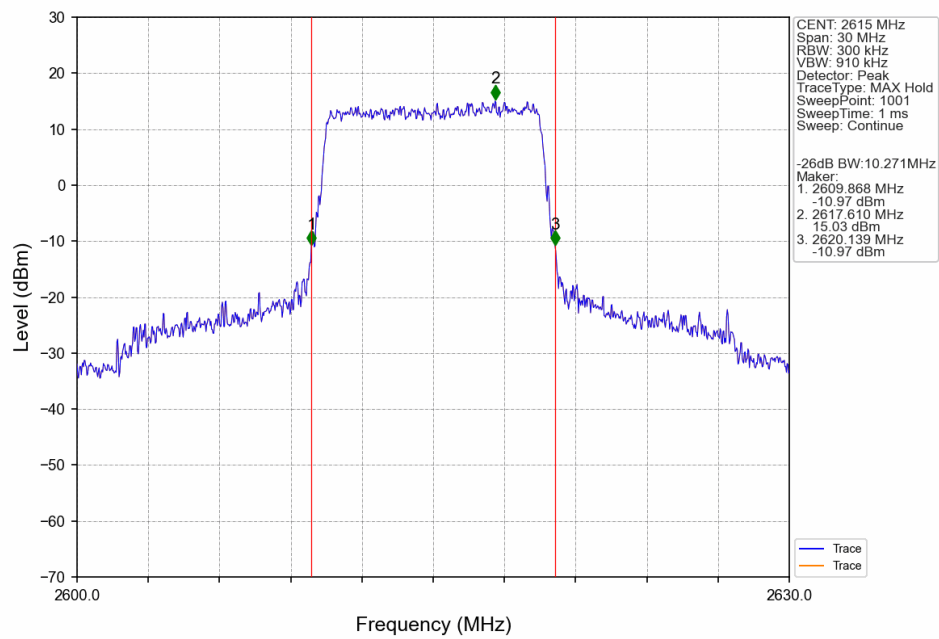
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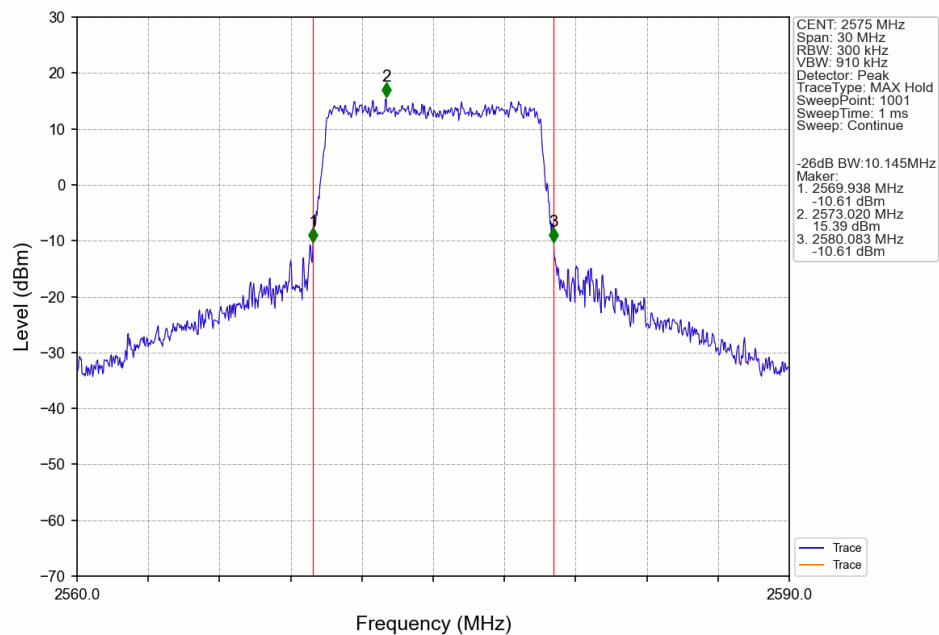
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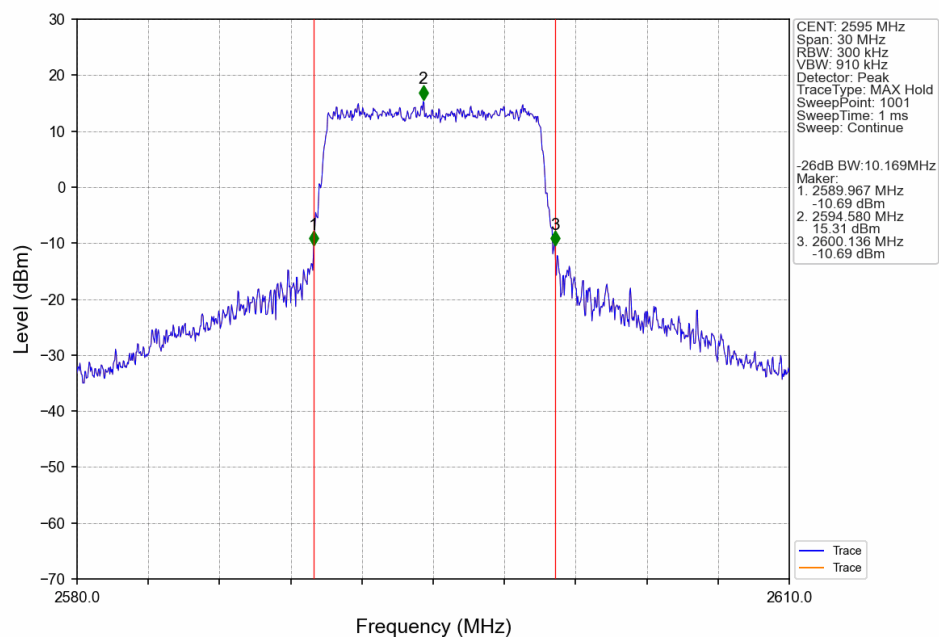
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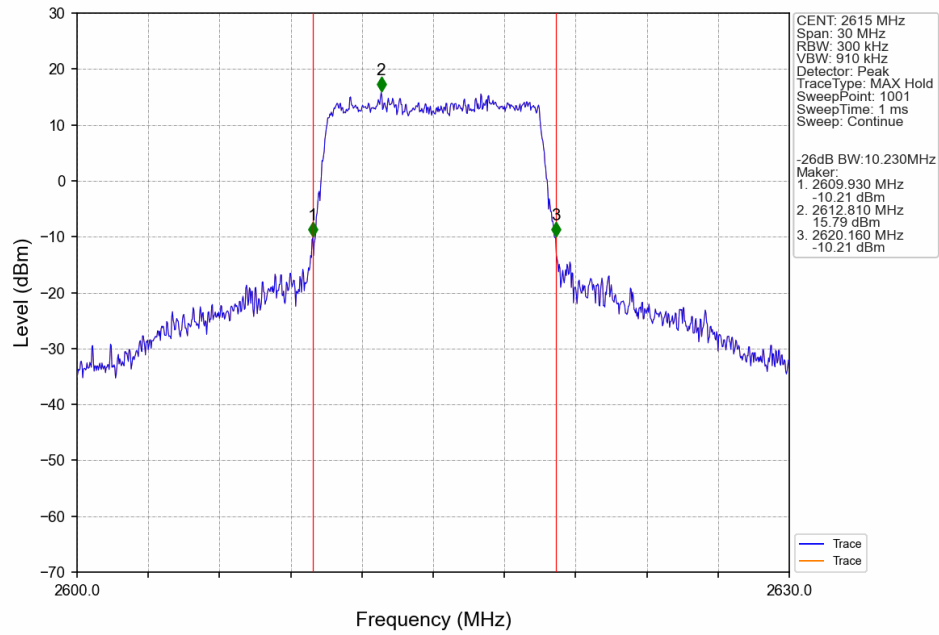
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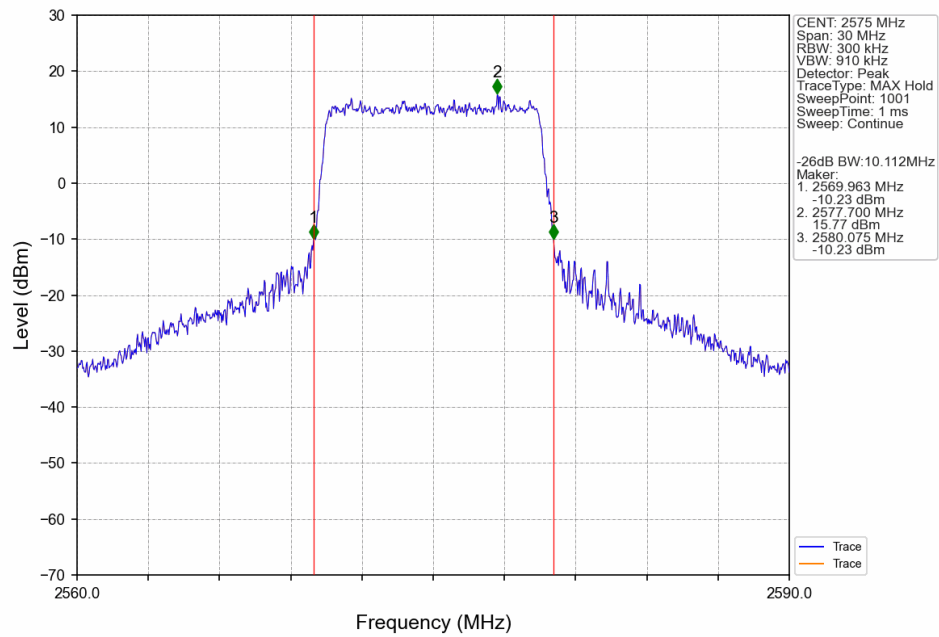
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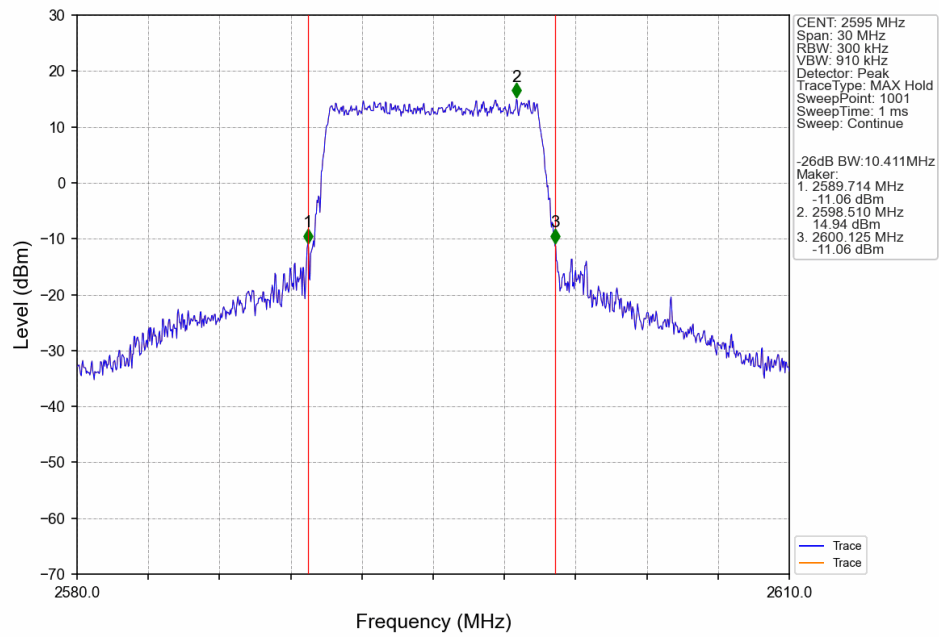
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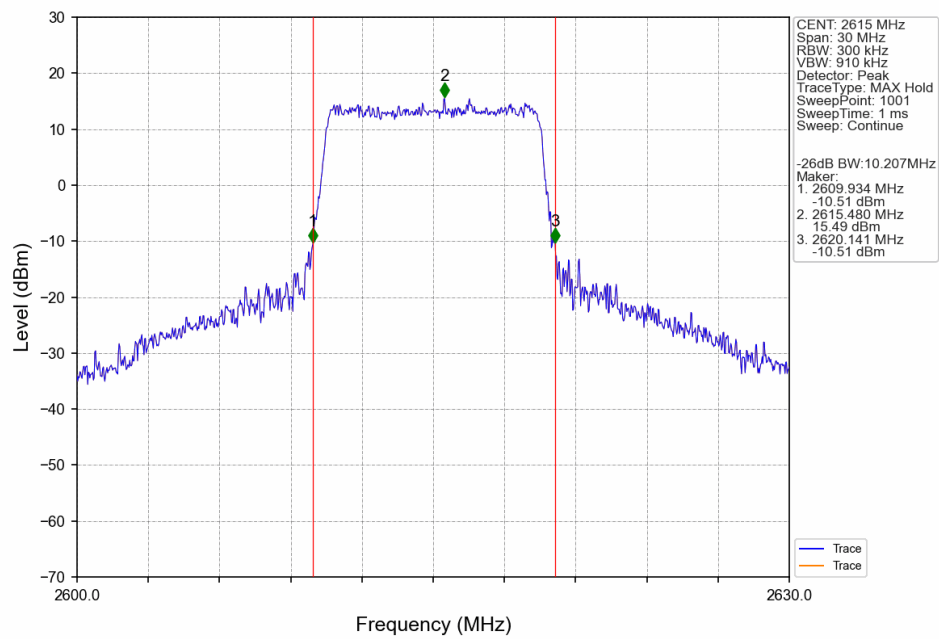
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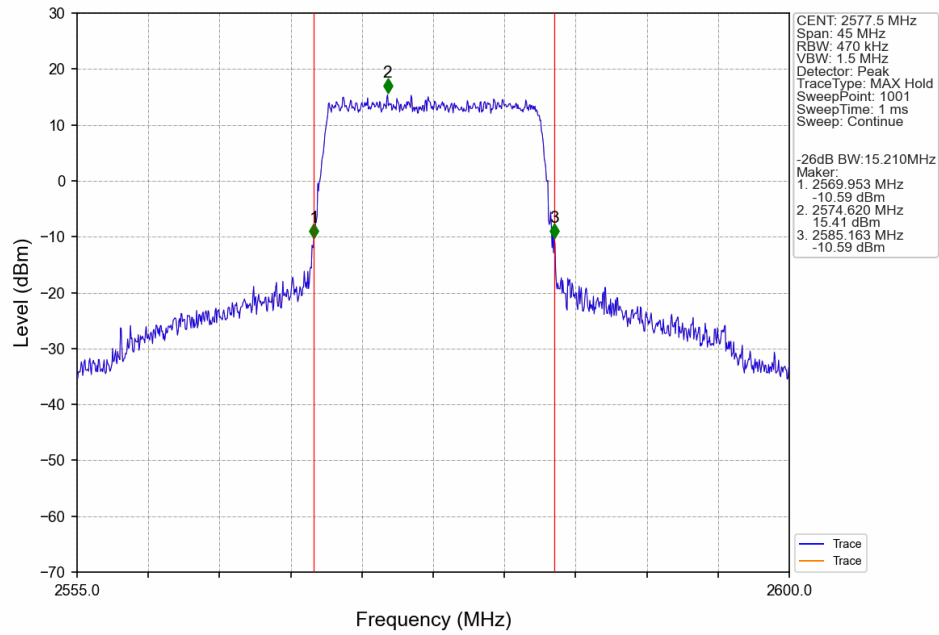
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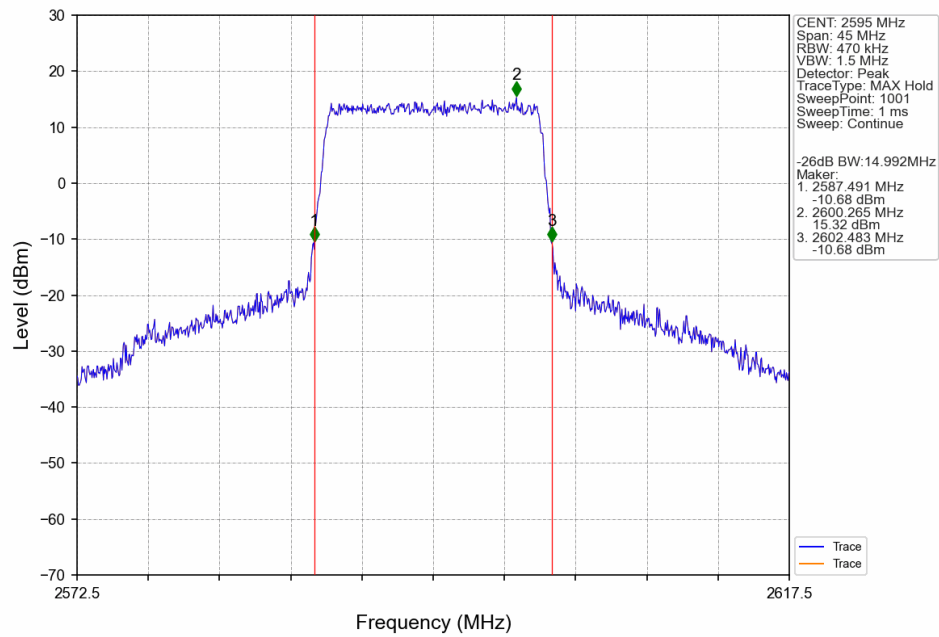
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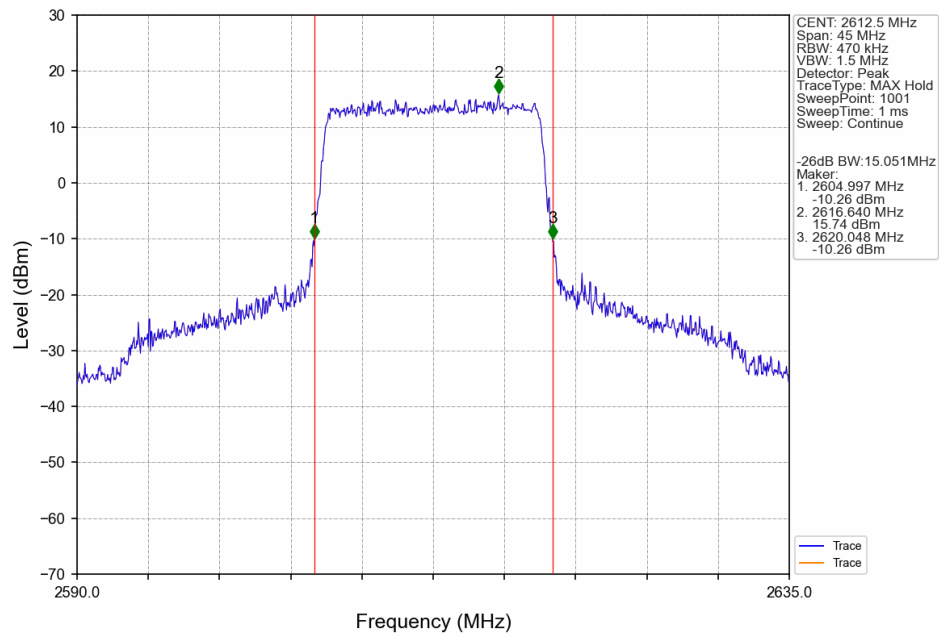
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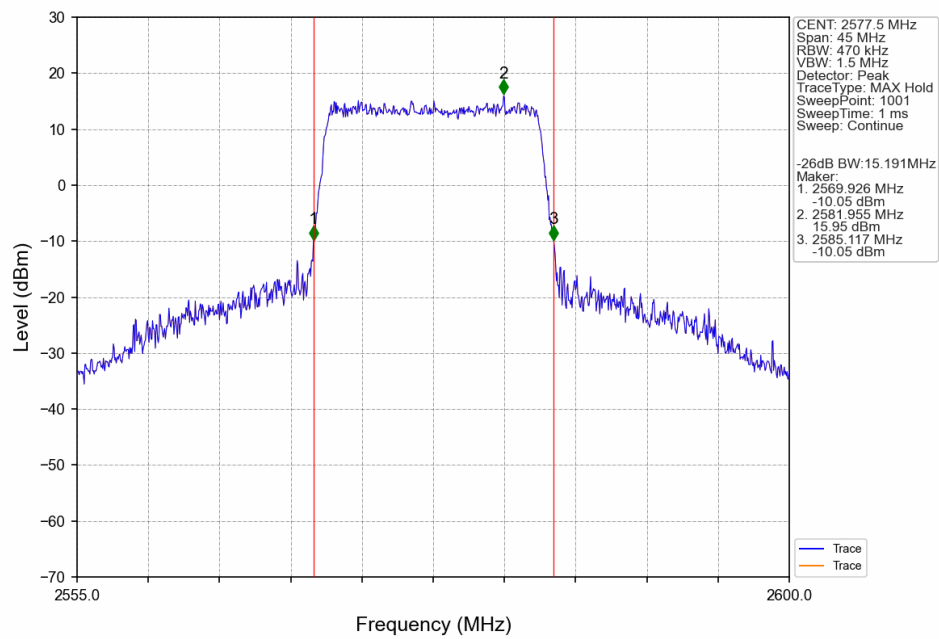
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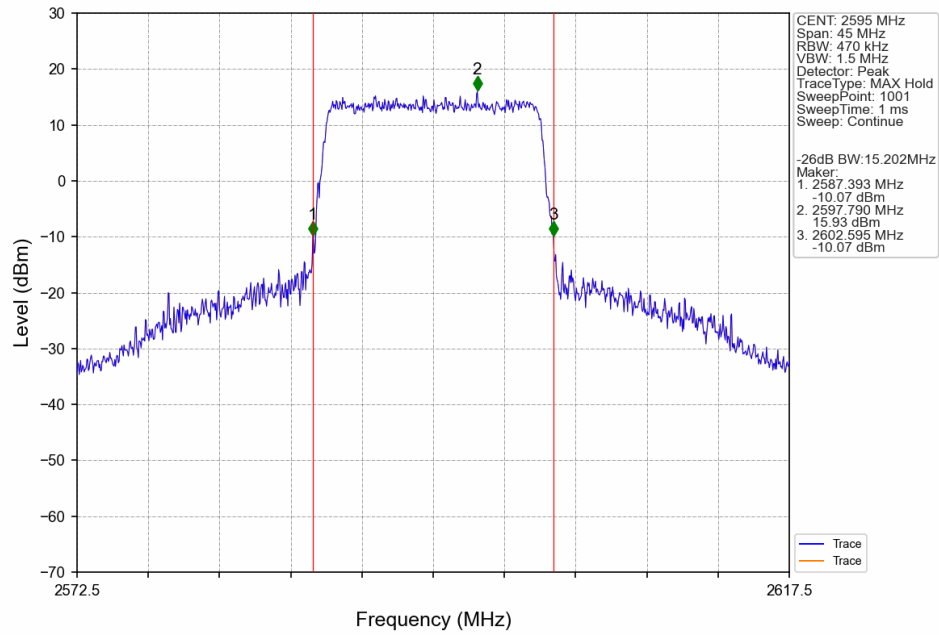
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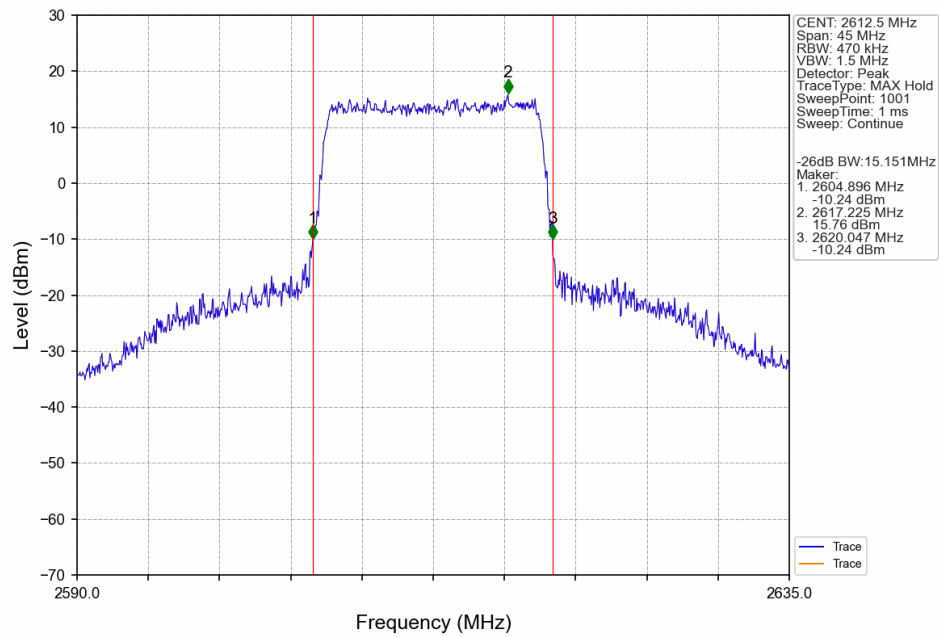
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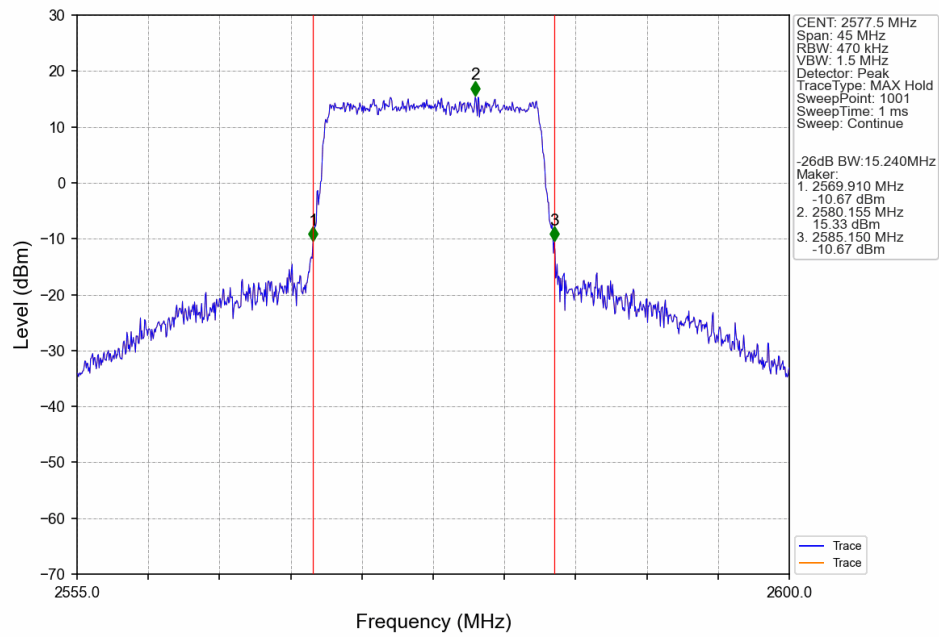
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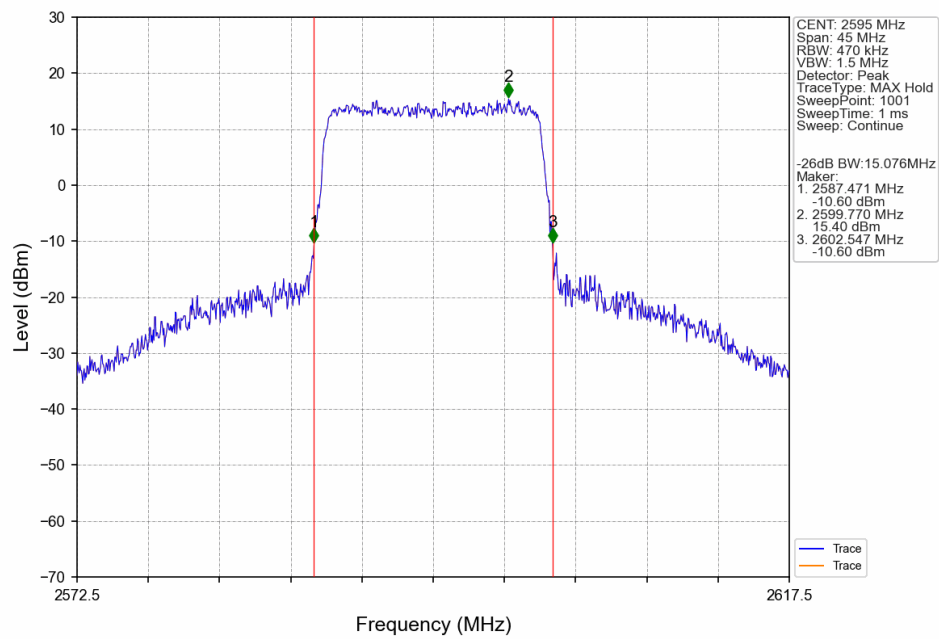
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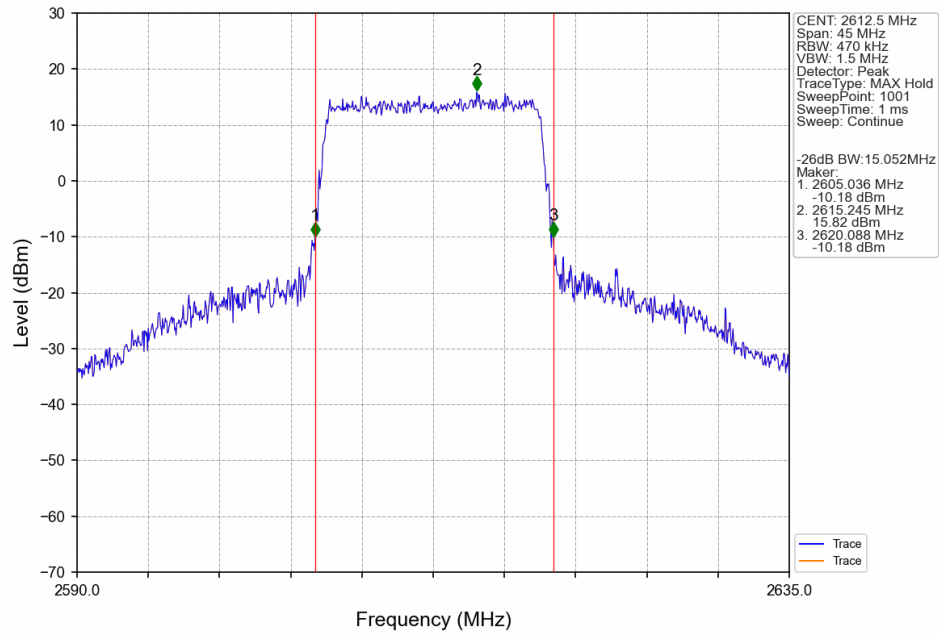
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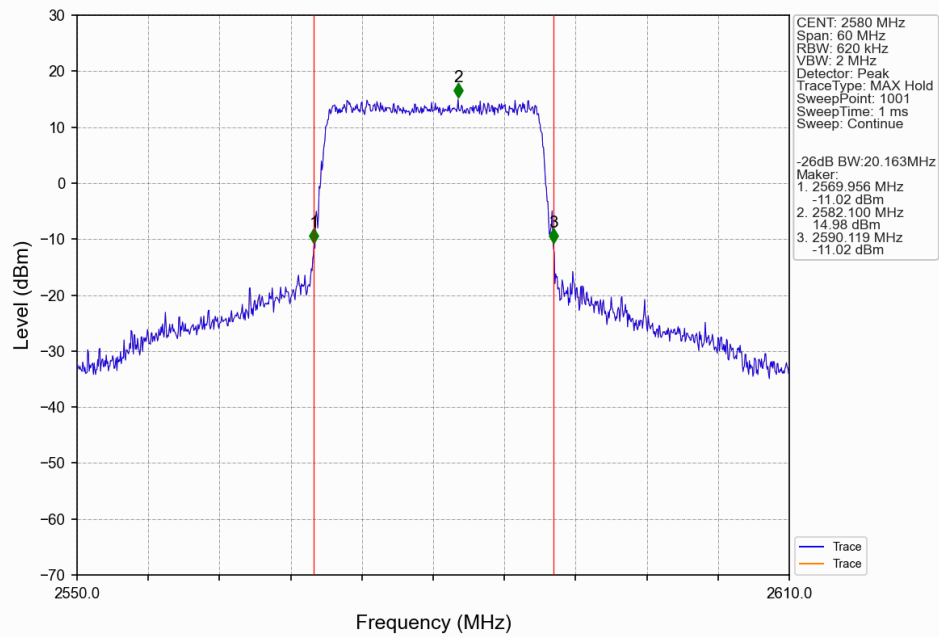
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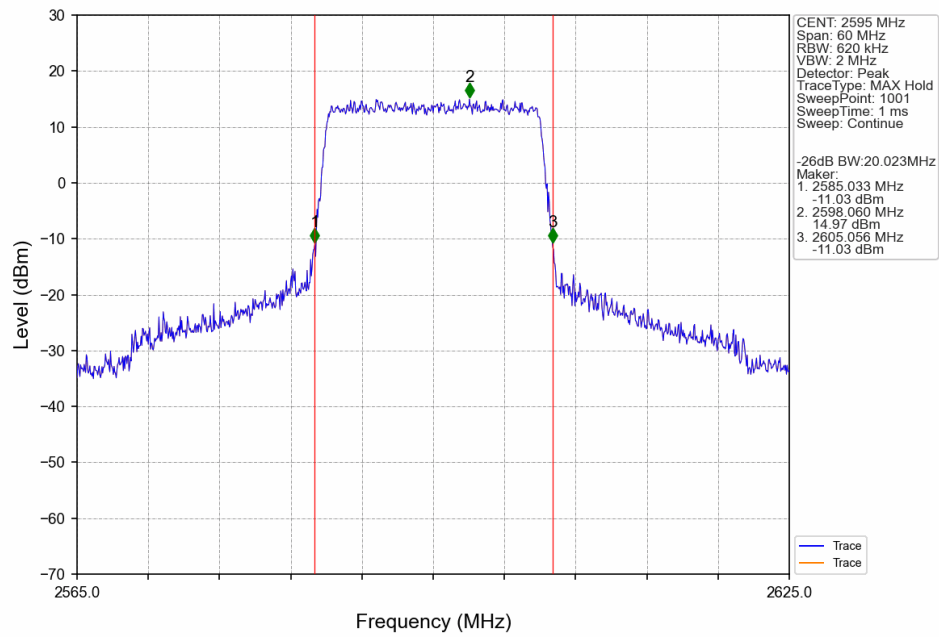
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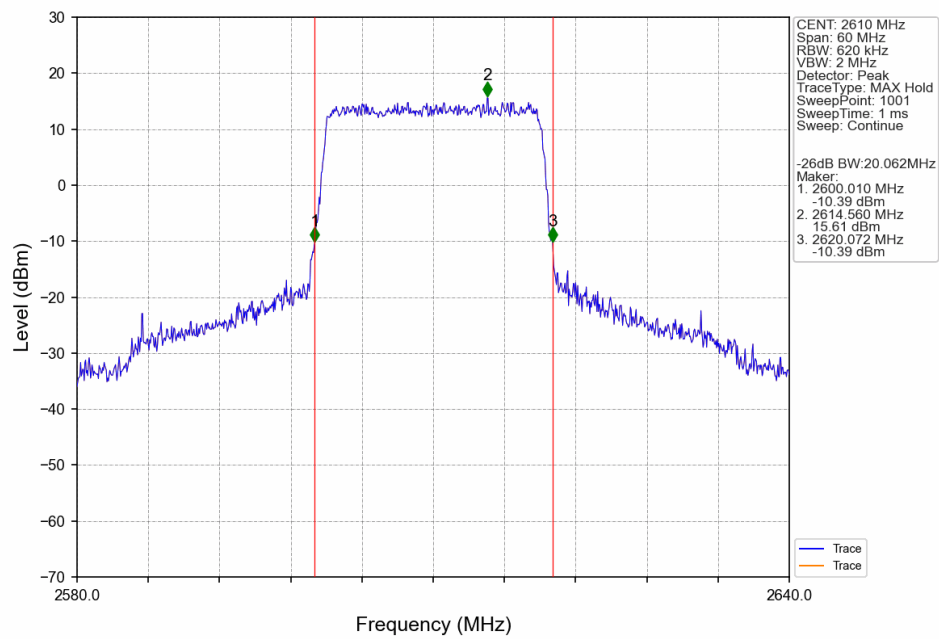
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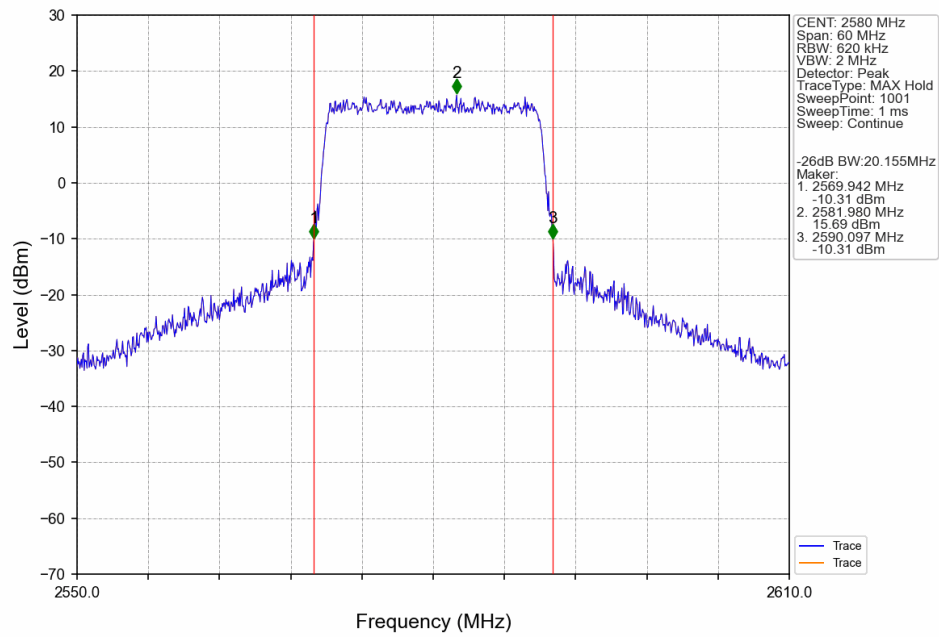
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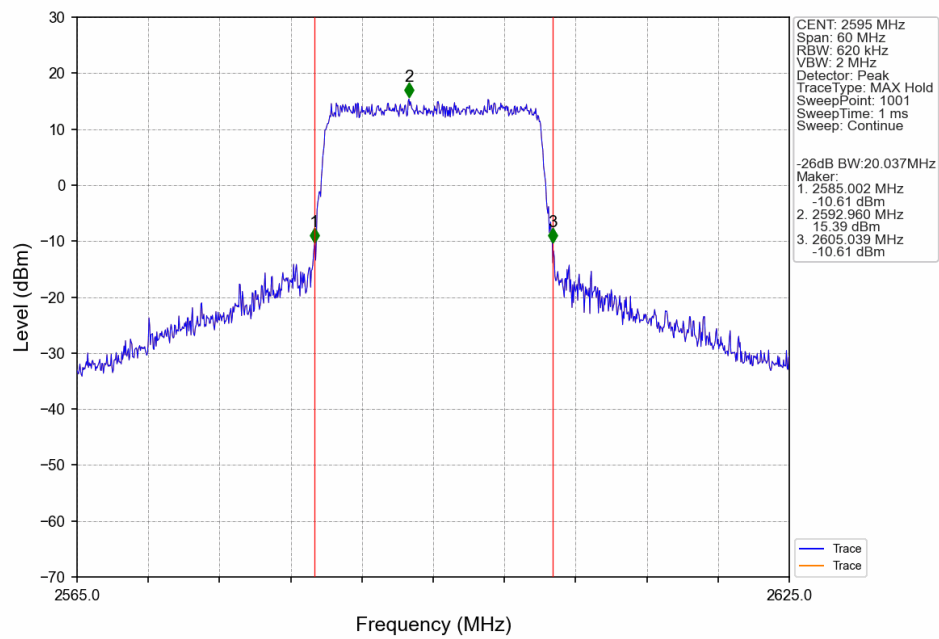
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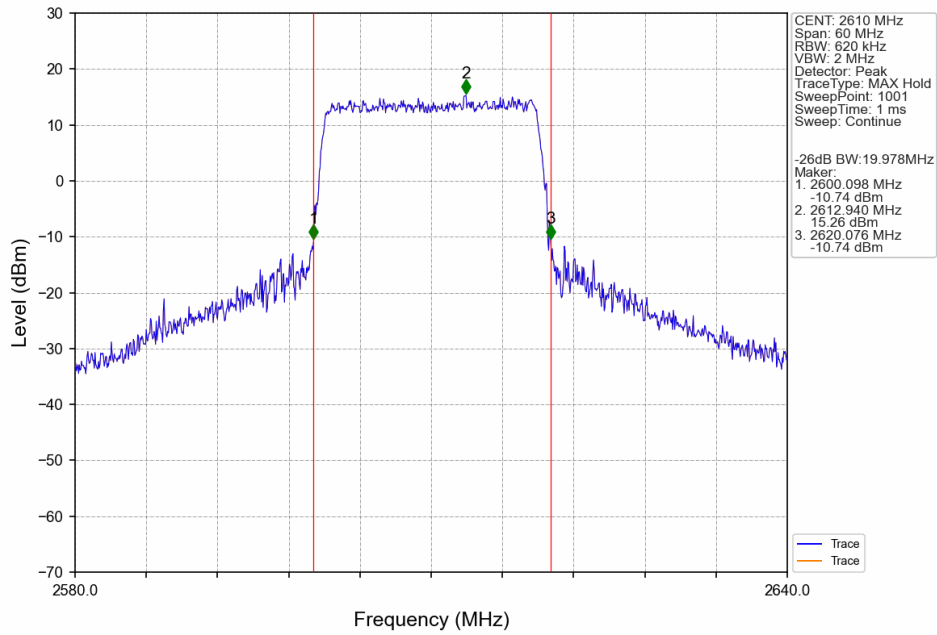
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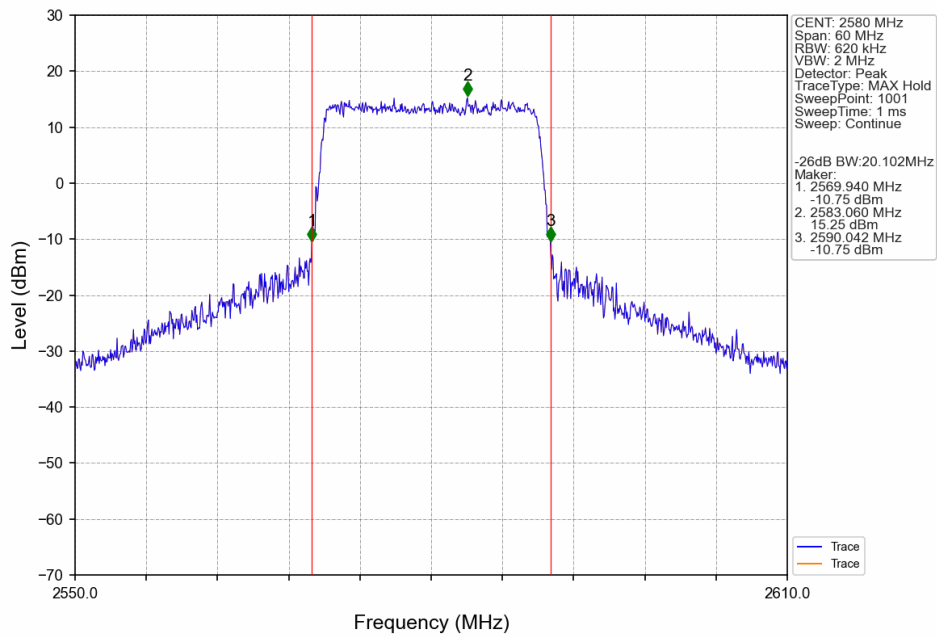
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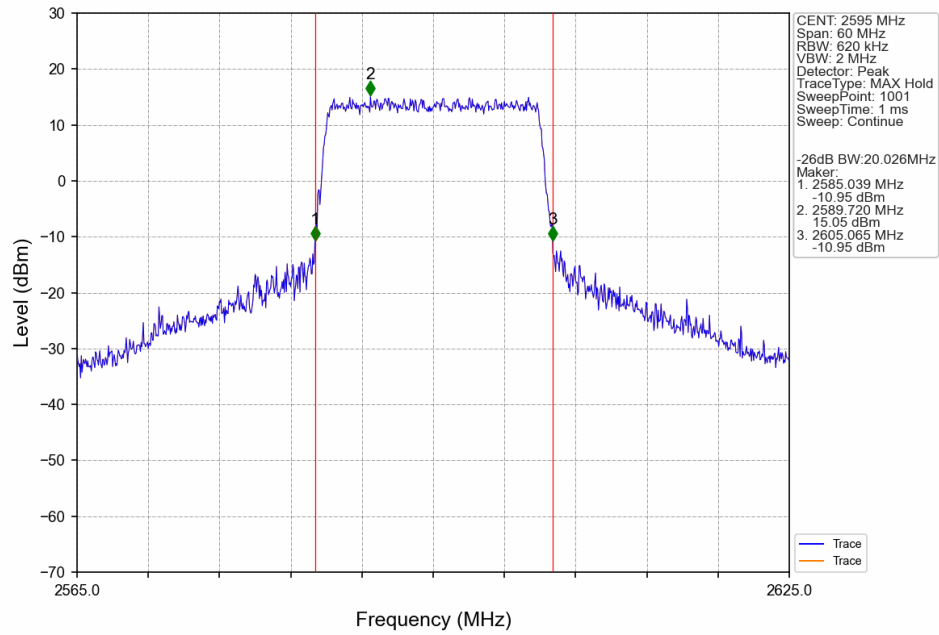
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Band38 20MHz 64QAM LCH 2580MHz RB 100 0 NTN



Band38\_20MHz\_64QAM\_MCH\_2595MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_64QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV

