



**SGS-CSTC Standards Technical Services Co., Ltd.**  
**Shenzhen Branch**

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# Appendix B.4

## LTE Band 7



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

### 1.1 B7\_5MHz\_EIRP

#### 1.1.1 Test Result

| Band: 7 / Bandwidth: 5MHz / NTNV |                 |               |        |                       |            |            |         |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result     | Limit   |         |
| QPSK                             | 2502.5          | 1             | 0      | 23.10                 | 2.21       | 25.31      | <=33.01 | Pass    |
|                                  |                 |               | 13     | 23.18                 | 2.21       | 25.39      | <=33.01 | Pass    |
|                                  |                 |               | 24     | 23.12                 | 2.21       | 25.33      | <=33.01 | Pass    |
|                                  |                 | 12            | 0      | 22.07                 | 2.21       | 24.28      | <=33.01 | Pass    |
|                                  |                 |               | 6      | 22.10                 | 2.21       | 24.31      | <=33.01 | Pass    |
|                                  |                 |               | 13     | 22.12                 | 2.21       | 24.33      | <=33.01 | Pass    |
|                                  |                 | 25            | 0      | 22.10                 | 2.21       | 24.31      | <=33.01 | Pass    |
|                                  | 2535            | 1             | 0      | 23.10                 | 2.21       | 25.31      | <=33.01 | Pass    |
|                                  |                 |               | 13     | 23.22                 | 2.21       | 25.43      | <=33.01 | Pass    |
|                                  |                 |               | 24     | 23.14                 | 2.21       | 25.35      | <=33.01 | Pass    |
|                                  |                 | 12            | 0      | 22.08                 | 2.21       | 24.29      | <=33.01 | Pass    |
|                                  |                 |               | 6      | 22.12                 | 2.21       | 24.33      | <=33.01 | Pass    |
|                                  |                 |               | 13     | 22.08                 | 2.21       | 24.29      | <=33.01 | Pass    |
|                                  |                 | 25            | 0      | 22.02                 | 2.21       | 24.23      | <=33.01 | Pass    |
|                                  | 2567.5          | 1             | 0      | 23.04                 | 2.21       | 25.25      | <=33.01 | Pass    |
|                                  |                 |               | 13     | 23.14                 | 2.21       | 25.35      | <=33.01 | Pass    |
|                                  |                 |               | 24     | 23.02                 | 2.21       | 25.23      | <=33.01 | Pass    |
|                                  |                 | 12            | 0      | 22.01                 | 2.21       | 24.22      | <=33.01 | Pass    |
|                                  |                 |               | 6      | 22.05                 | 2.21       | 24.26      | <=33.01 | Pass    |
|                                  |                 |               | 13     | 22.10                 | 2.21       | 24.31      | <=33.01 | Pass    |
|                                  |                 | 25            | 0      | 22.02                 | 2.21       | 24.23      | <=33.01 | Pass    |
| 16QAM                            | 2502.5          | 1             | 0      | 22.07                 | 2.21       | 24.28      | <=33.01 | Pass    |
|                                  |                 |               | 13     | 22.26                 | 2.21       | 24.47      | <=33.01 | Pass    |
|                                  |                 |               | 24     | 22.14                 | 2.21       | 24.35      | <=33.01 | Pass    |
|                                  |                 | 12            | 0      | 21.05                 | 2.21       | 23.26      | <=33.01 | Pass    |
|                                  |                 |               | 6      | 21.10                 | 2.21       | 23.31      | <=33.01 | Pass    |
|                                  |                 |               | 13     | 21.13                 | 2.21       | 23.34      | <=33.01 | Pass    |
|                                  |                 | 25            | 0      | 21.07                 | 2.21       | 23.28      | <=33.01 | Pass    |
|                                  | 2535            | 1             | 0      | 22.15                 | 2.21       | 24.36      | <=33.01 | Pass    |
|                                  |                 |               | 13     | 22.21                 | 2.21       | 24.42      | <=33.01 | Pass    |
|                                  |                 |               | 24     | 22.18                 | 2.21       | 24.39      | <=33.01 | Pass    |
|                                  |                 | 12            | 0      | 21.08                 | 2.21       | 23.29      | <=33.01 | Pass    |
|                                  |                 |               | 6      | 21.10                 | 2.21       | 23.31      | <=33.01 | Pass    |
|                                  |                 |               | 13     | 21.07                 | 2.21       | 23.28      | <=33.01 | Pass    |
|                                  |                 | 25            | 0      | 21.02                 | 2.21       | 23.23      | <=33.01 | Pass    |
|                                  | 2567.5          | 1             | 0      | 22.15                 | 2.21       | 24.36      | <=33.01 | Pass    |
|                                  |                 |               | 13     | 22.22                 | 2.21       | 24.43      | <=33.01 | Pass    |



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|-------|------------------------------------------|------|-------|-------|-------|---------|---------|---------|------|
|       |                                          |      | 24    | 22.19 | 2.21  | 24.40   | <=33.01 | Pass    |      |
|       |                                          | 12   | 0     | 21.03 | 2.21  | 23.24   | <=33.01 | Pass    |      |
|       |                                          |      | 6     | 21.05 | 2.21  | 23.26   | <=33.01 | Pass    |      |
|       |                                          |      | 13    | 21.09 | 2.21  | 23.30   | <=33.01 | Pass    |      |
|       | 25                                       | 0    | 21.05 | 2.21  | 23.26 | <=33.01 | Pass    |         |      |
| 64QAM | 2502.5                                   | 1    | 0     | 21.35 | 2.21  | 23.56   | <=33.01 | Pass    |      |
|       |                                          |      | 13    | 21.32 | 2.21  | 23.53   | <=33.01 | Pass    |      |
|       |                                          |      | 24    | 21.20 | 2.21  | 23.41   | <=33.01 | Pass    |      |
|       |                                          | 12   | 0     | 20.12 | 2.21  | 22.33   | <=33.01 | Pass    |      |
|       |                                          |      | 6     | 20.13 | 2.21  | 22.34   | <=33.01 | Pass    |      |
|       |                                          |      | 13    | 20.17 | 2.21  | 22.38   | <=33.01 | Pass    |      |
|       |                                          | 25   | 0     | 20.07 | 2.21  | 22.28   | <=33.01 | Pass    |      |
|       |                                          | 2535 | 1     | 0     | 21.18 | 2.21    | 23.39   | <=33.01 | Pass |
|       |                                          |      |       | 13    | 21.24 | 2.21    | 23.45   | <=33.01 | Pass |
|       |                                          |      |       | 24    | 21.16 | 2.21    | 23.37   | <=33.01 | Pass |
|       | 12                                       |      | 0     | 20.05 | 2.21  | 22.26   | <=33.01 | Pass    |      |
|       |                                          |      | 6     | 20.10 | 2.21  | 22.31   | <=33.01 | Pass    |      |
|       |                                          |      | 13    | 20.09 | 2.21  | 22.30   | <=33.01 | Pass    |      |
|       | 25                                       |      | 0     | 19.92 | 2.21  | 22.13   | <=33.01 | Pass    |      |
|       | 2567.5                                   | 1    | 0     | 20.99 | 2.21  | 23.20   | <=33.01 | Pass    |      |
|       |                                          |      | 13    | 21.16 | 2.21  | 23.37   | <=33.01 | Pass    |      |
|       |                                          |      | 24    | 21.10 | 2.21  | 23.31   | <=33.01 | Pass    |      |
|       |                                          | 12   | 0     | 19.99 | 2.21  | 22.20   | <=33.01 | Pass    |      |
|       |                                          |      | 6     | 20.01 | 2.21  | 22.22   | <=33.01 | Pass    |      |
|       |                                          |      | 13    | 20.12 | 2.21  | 22.33   | <=33.01 | Pass    |      |
|       |                                          | 25   | 0     | 20.07 | 2.21  | 22.28   | <=33.01 | Pass    |      |
|       | Note1: EIRP=Conducted Power+Antenna Gain |      |       |       |       |         |         |         |      |

Note1: EIRP=Conducted Power+Antenna Gain

## 1.2 B7\_10MHz\_EIRP

### 1.2.1 Test Result

| Band: 7 / Bandwidth: 10MHz / NTNV |                 |               |        |                       |            |            |         |         |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|                                   |                 | Size          | Offset |                       |            | Result     | Limit   |         |
| QPSK                              | 2505            | 1             | 0      | 22.90                 | 2.21       | 25.11      | <=33.01 | Pass    |
|                                   |                 |               | 25     | 22.91                 | 2.21       | 25.12      | <=33.01 | Pass    |
|                                   |                 |               | 49     | 22.82                 | 2.21       | 25.03      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 21.97                 | 2.21       | 24.18      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 21.97                 | 2.21       | 24.18      | <=33.01 | Pass    |
|                                   |                 |               | 25     | 21.92                 | 2.21       | 24.13      | <=33.01 | Pass    |
|                                   | 2535            | 50            | 0      | 22.11                 | 2.21       | 24.32      | <=33.01 | Pass    |
|                                   |                 | 1             | 0      | 22.98                 | 2.21       | 25.19      | <=33.01 | Pass    |
|                                   |                 |               | 25     | 23.00                 | 2.21       | 25.21      | <=33.01 | Pass    |
|                                   |                 |               | 49     | 22.89                 | 2.21       | 25.10      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 21.99                 | 2.21       | 24.20      | <=33.01 | Pass    |



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|-------|-------|------|-------|-------|-------|---------|---------|---------|------|
|       | 2565  | 50   | 13    | 21.95 | 2.21  | 24.16   | <=33.01 | Pass    |      |
|       |       |      | 25    | 21.89 | 2.21  | 24.10   | <=33.01 | Pass    |      |
|       |       |      | 0     | 22.05 | 2.21  | 24.26   | <=33.01 | Pass    |      |
|       |       | 1    | 0     | 22.87 | 2.21  | 25.08   | <=33.01 | Pass    |      |
|       |       |      | 25    | 23.00 | 2.21  | 25.21   | <=33.01 | Pass    |      |
|       |       |      | 49    | 22.91 | 2.21  | 25.12   | <=33.01 | Pass    |      |
|       |       |      | 25    | 0     | 21.97 | 2.21    | 24.18   | <=33.01 | Pass |
|       |       |      |       | 13    | 22.01 | 2.21    | 24.22   | <=33.01 | Pass |
|       |       |      |       | 25    | 21.90 | 2.21    | 24.11   | <=33.01 | Pass |
|       | 50    | 0    | 22.12 | 2.21  | 24.33 | <=33.01 | Pass    |         |      |
|       | 16QAM | 2505 | 1     | 0     | 22.02 | 2.21    | 24.23   | <=33.01 | Pass |
|       |       |      |       | 25    | 22.03 | 2.21    | 24.24   | <=33.01 | Pass |
| 49    |       |      |       | 22.04 | 2.21  | 24.25   | <=33.01 | Pass    |      |
| 25    |       |      | 0     | 20.99 | 2.21  | 23.20   | <=33.01 | Pass    |      |
|       |       |      | 13    | 20.99 | 2.21  | 23.20   | <=33.01 | Pass    |      |
|       |       |      | 25    | 20.94 | 2.21  | 23.15   | <=33.01 | Pass    |      |
| 50    |       |      | 0     | 21.09 | 2.21  | 23.30   | <=33.01 | Pass    |      |
| 2535  |       |      | 1     | 0     | 22.03 | 2.21    | 24.24   | <=33.01 | Pass |
|       |       |      |       | 25    | 22.13 | 2.21    | 24.34   | <=33.01 | Pass |
|       |       | 49   |       | 22.09 | 2.21  | 24.30   | <=33.01 | Pass    |      |
|       |       | 25   | 0     | 20.99 | 2.21  | 23.20   | <=33.01 | Pass    |      |
|       |       |      | 13    | 20.92 | 2.21  | 23.13   | <=33.01 | Pass    |      |
|       |       |      | 25    | 20.84 | 2.21  | 23.05   | <=33.01 | Pass    |      |
|       |       | 50   | 0     | 21.08 | 2.21  | 23.29   | <=33.01 | Pass    |      |
|       |       | 2565 | 1     | 0     | 21.95 | 2.21    | 24.16   | <=33.01 | Pass |
|       |       |      |       | 25    | 22.10 | 2.21    | 24.31   | <=33.01 | Pass |
| 49    |       |      |       | 22.06 | 2.21  | 24.27   | <=33.01 | Pass    |      |
| 25    |       |      | 0     | 21.00 | 2.21  | 23.21   | <=33.01 | Pass    |      |
|       |       |      | 13    | 21.04 | 2.21  | 23.25   | <=33.01 | Pass    |      |
|       |       |      | 25    | 20.92 | 2.21  | 23.13   | <=33.01 | Pass    |      |
| 50    |       | 0    | 21.14 | 2.21  | 23.35 | <=33.01 | Pass    |         |      |
| 64QAM |       | 2505 | 1     | 0     | 21.04 | 2.21    | 23.25   | <=33.01 | Pass |
|       |       |      |       | 25    | 21.11 | 2.21    | 23.32   | <=33.01 | Pass |
|       |       |      |       | 49    | 21.01 | 2.21    | 23.22   | <=33.01 | Pass |
|       | 25    |      | 0     | 20.02 | 2.21  | 22.23   | <=33.01 | Pass    |      |
|       |       |      | 13    | 20.00 | 2.21  | 22.21   | <=33.01 | Pass    |      |
|       |       |      | 25    | 19.91 | 2.21  | 22.12   | <=33.01 | Pass    |      |
|       | 50    |      | 0     | 20.13 | 2.21  | 22.34   | <=33.01 | Pass    |      |
|       | 2535  |      | 1     | 0     | 21.20 | 2.21    | 23.41   | <=33.01 | Pass |
|       |       |      |       | 25    | 21.17 | 2.21    | 23.38   | <=33.01 | Pass |
|       |       | 49   |       | 21.08 | 2.21  | 23.29   | <=33.01 | Pass    |      |
|       |       | 25   | 0     | 20.01 | 2.21  | 22.22   | <=33.01 | Pass    |      |
|       |       |      | 13    | 19.92 | 2.21  | 22.13   | <=33.01 | Pass    |      |
|       |       |      | 25    | 19.92 | 2.21  | 22.13   | <=33.01 | Pass    |      |
|       |       | 50   | 0     | 20.04 | 2.21  | 22.25   | <=33.01 | Pass    |      |
|       |       | 2565 | 1     | 0     | 21.03 | 2.21    | 23.24   | <=33.01 | Pass |
|       |       |      |       | 25    | 21.10 | 2.21    | 23.31   | <=33.01 | Pass |
|       | 49    |      |       | 21.03 | 2.21  | 23.24   | <=33.01 | Pass    |      |



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|--|--|----|----|-------|------|-------|---------|------|
|  |  | 25 | 0  | 19.97 | 2.21 | 22.18 | <=33.01 | Pass |
|  |  |    | 13 | 20.03 | 2.21 | 22.24 | <=33.01 | Pass |
|  |  |    | 25 | 19.94 | 2.21 | 22.15 | <=33.01 | Pass |
|  |  | 50 | 0  | 20.11 | 2.21 | 22.32 | <=33.01 | Pass |

Note1: EIRP=Conducted Power+Antenna Gain

## 1.3 B7\_15MHz\_EIRP

### 1.3.1 Test Result

| Band: 7 / Bandwidth: 15MHz / NTV |                 |               |        |                       |            |            |         |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result     | Limit   |         |
| QPSK                             | 2507.5          | 1             | 0      | 22.74                 | 2.21       | 24.95      | <=33.01 | Pass    |
|                                  |                 |               | 38     | 22.73                 | 2.21       | 24.94      | <=33.01 | Pass    |
|                                  |                 |               | 74     | 22.62                 | 2.21       | 24.83      | <=33.01 | Pass    |
|                                  |                 | 36            | 0      | 21.90                 | 2.21       | 24.11      | <=33.01 | Pass    |
|                                  |                 |               | 18     | 21.88                 | 2.21       | 24.09      | <=33.01 | Pass    |
|                                  |                 |               | 39     | 21.81                 | 2.21       | 24.02      | <=33.01 | Pass    |
|                                  |                 | 75            | 0      | 21.96                 | 2.21       | 24.17      | <=33.01 | Pass    |
|                                  | 2535            | 1             | 0      | 22.70                 | 2.21       | 24.91      | <=33.01 | Pass    |
|                                  |                 |               | 38     | 22.87                 | 2.21       | 25.08      | <=33.01 | Pass    |
|                                  |                 |               | 74     | 22.74                 | 2.21       | 24.95      | <=33.01 | Pass    |
|                                  |                 | 36            | 0      | 21.85                 | 2.21       | 24.06      | <=33.01 | Pass    |
|                                  |                 |               | 18     | 21.88                 | 2.21       | 24.09      | <=33.01 | Pass    |
|                                  |                 |               | 39     | 21.82                 | 2.21       | 24.03      | <=33.01 | Pass    |
|                                  |                 | 75            | 0      | 21.92                 | 2.21       | 24.13      | <=33.01 | Pass    |
|                                  | 2562.5          | 1             | 0      | 22.79                 | 2.21       | 25.00      | <=33.01 | Pass    |
|                                  |                 |               | 38     | 22.84                 | 2.21       | 25.05      | <=33.01 | Pass    |
|                                  |                 |               | 74     | 22.77                 | 2.21       | 24.98      | <=33.01 | Pass    |
|                                  |                 | 36            | 0      | 21.90                 | 2.21       | 24.11      | <=33.01 | Pass    |
|                                  |                 |               | 18     | 21.91                 | 2.21       | 24.12      | <=33.01 | Pass    |
|                                  |                 |               | 39     | 21.84                 | 2.21       | 24.05      | <=33.01 | Pass    |
|                                  |                 | 75            | 0      | 21.97                 | 2.21       | 24.18      | <=33.01 | Pass    |
| 16QAM                            | 2507.5          | 1             | 0      | 21.90                 | 2.21       | 24.11      | <=33.01 | Pass    |
|                                  |                 |               | 38     | 21.89                 | 2.21       | 24.10      | <=33.01 | Pass    |
|                                  |                 |               | 74     | 21.84                 | 2.21       | 24.05      | <=33.01 | Pass    |
|                                  |                 | 36            | 0      | 20.88                 | 2.21       | 23.09      | <=33.01 | Pass    |
|                                  |                 |               | 18     | 20.88                 | 2.21       | 23.09      | <=33.01 | Pass    |
|                                  |                 |               | 39     | 20.79                 | 2.21       | 23.00      | <=33.01 | Pass    |
|                                  |                 | 75            | 0      | 20.96                 | 2.21       | 23.17      | <=33.01 | Pass    |
|                                  | 2535            | 1             | 0      | 21.91                 | 2.21       | 24.12      | <=33.01 | Pass    |
|                                  |                 |               | 38     | 22.12                 | 2.21       | 24.33      | <=33.01 | Pass    |
|                                  |                 |               | 74     | 21.93                 | 2.21       | 24.14      | <=33.01 | Pass    |
|                                  |                 | 36            | 0      | 20.85                 | 2.21       | 23.06      | <=33.01 | Pass    |
|                                  |                 |               | 18     | 20.84                 | 2.21       | 23.05      | <=33.01 | Pass    |



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|------------------------------------------|--------|--------|-------|-------|-------|---------|---------|---------|
|                                          |        |        | 39    | 20.83 | 2.21  | 23.04   | <=33.01 | Pass    |
|                                          |        | 75     | 0     | 20.92 | 2.21  | 23.13   | <=33.01 | Pass    |
|                                          | 2562.5 | 1      | 0     | 21.89 | 2.21  | 24.10   | <=33.01 | Pass    |
|                                          |        |        | 38    | 21.99 | 2.21  | 24.20   | <=33.01 | Pass    |
|                                          |        |        | 74    | 21.91 | 2.21  | 24.12   | <=33.01 | Pass    |
|                                          |        | 36     | 0     | 20.88 | 2.21  | 23.09   | <=33.01 | Pass    |
|                                          |        |        | 18    | 20.92 | 2.21  | 23.13   | <=33.01 | Pass    |
|                                          |        |        | 39    | 20.85 | 2.21  | 23.06   | <=33.01 | Pass    |
|                                          |        | 75     | 0     | 20.97 | 2.21  | 23.18   | <=33.01 | Pass    |
|                                          | 64QAM  | 2507.5 | 1     | 0     | 21.00 | 2.21    | 23.21   | <=33.01 |
| 38                                       |        |        |       | 20.93 | 2.21  | 23.14   | <=33.01 | Pass    |
| 74                                       |        |        |       | 20.76 | 2.21  | 22.97   | <=33.01 | Pass    |
| 36                                       |        |        | 0     | 19.93 | 2.21  | 22.14   | <=33.01 | Pass    |
|                                          |        |        | 18    | 19.85 | 2.21  | 22.06   | <=33.01 | Pass    |
|                                          |        |        | 39    | 19.83 | 2.21  | 22.04   | <=33.01 | Pass    |
|                                          |        |        | 75    | 0     | 19.98 | 2.21    | 22.19   | <=33.01 |
| 2535                                     |        | 1      | 0     | 21.01 | 2.21  | 23.22   | <=33.01 | Pass    |
|                                          |        |        | 38    | 21.06 | 2.21  | 23.27   | <=33.01 | Pass    |
|                                          |        |        | 74    | 21.00 | 2.21  | 23.21   | <=33.01 | Pass    |
|                                          |        | 36     | 0     | 19.84 | 2.21  | 22.05   | <=33.01 | Pass    |
|                                          |        |        | 18    | 19.88 | 2.21  | 22.09   | <=33.01 | Pass    |
|                                          |        |        | 39    | 19.83 | 2.21  | 22.04   | <=33.01 | Pass    |
| 75                                       |        | 0      | 19.96 | 2.21  | 22.17 | <=33.01 | Pass    |         |
| 2562.5                                   |        | 1      | 0     | 21.02 | 2.21  | 23.23   | <=33.01 | Pass    |
|                                          |        |        | 38    | 20.94 | 2.21  | 23.15   | <=33.01 | Pass    |
|                                          |        |        | 74    | 20.99 | 2.21  | 23.20   | <=33.01 | Pass    |
|                                          |        | 36     | 0     | 19.88 | 2.21  | 22.09   | <=33.01 | Pass    |
|                                          |        |        | 18    | 19.90 | 2.21  | 22.11   | <=33.01 | Pass    |
|                                          |        |        | 39    | 19.87 | 2.21  | 22.08   | <=33.01 | Pass    |
|                                          | 75     | 0      | 19.98 | 2.21  | 22.19 | <=33.01 | Pass    |         |
| Note1: EIRP=Conducted Power+Antenna Gain |        |        |       |       |       |         |         |         |

Note1: EIRP=Conducted Power+Antenna Gain

## 1.4 B7\_20MHz\_EIRP

### 1.4.1 Test Result

| Band: 7 / Bandwidth: 20MHz / NTN |                 |               |        |                       |            |            |         |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result     | Limit   |         |
| QPSK                             | 2510            | 1             | 0      | 22.91                 | 2.21       | 25.12      | <=33.01 | Pass    |
|                                  |                 |               | 50     | 22.70                 | 2.21       | 24.91      | <=33.01 | Pass    |
|                                  |                 |               | 99     | 22.78                 | 2.21       | 24.99      | <=33.01 | Pass    |
|                                  |                 | 50            | 0      | 21.91                 | 2.21       | 24.12      | <=33.01 | Pass    |
|                                  |                 |               | 25     | 21.91                 | 2.21       | 24.12      | <=33.01 | Pass    |
|                                  |                 |               | 50     | 21.84                 | 2.21       | 24.05      | <=33.01 | Pass    |
|                                  |                 | 100           | 0      | 22.01                 | 2.21       | 24.22      | <=33.01 | Pass    |



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|-------|------|-----|----|-------|------|-------|---------|------|
| 16QAM | 2535 | 1   | 0  | 22.80 | 2.21 | 25.01 | <=33.01 | Pass |
|       |      |     | 50 | 22.73 | 2.21 | 24.94 | <=33.01 | Pass |
|       |      |     | 99 | 22.63 | 2.21 | 24.84 | <=33.01 | Pass |
|       |      | 50  | 0  | 21.89 | 2.21 | 24.10 | <=33.01 | Pass |
|       |      |     | 25 | 21.89 | 2.21 | 24.10 | <=33.01 | Pass |
|       |      |     | 50 | 21.85 | 2.21 | 24.06 | <=33.01 | Pass |
|       |      | 100 | 0  | 22.01 | 2.21 | 24.22 | <=33.01 | Pass |
|       | 2560 | 1   | 0  | 22.62 | 2.21 | 24.83 | <=33.01 | Pass |
|       |      |     | 50 | 22.75 | 2.21 | 24.96 | <=33.01 | Pass |
|       |      |     | 99 | 22.78 | 2.21 | 24.99 | <=33.01 | Pass |
|       |      | 50  | 0  | 21.91 | 2.21 | 24.12 | <=33.01 | Pass |
|       |      |     | 25 | 21.95 | 2.21 | 24.16 | <=33.01 | Pass |
|       |      |     | 50 | 21.84 | 2.21 | 24.05 | <=33.01 | Pass |
|       |      | 100 | 0  | 22.06 | 2.21 | 24.27 | <=33.01 | Pass |
| 64QAM | 2510 | 1   | 0  | 21.84 | 2.21 | 24.05 | <=33.01 | Pass |
|       |      |     | 50 | 22.02 | 2.21 | 24.23 | <=33.01 | Pass |
|       |      |     | 99 | 21.85 | 2.21 | 24.06 | <=33.01 | Pass |
|       |      | 50  | 0  | 20.92 | 2.21 | 23.13 | <=33.01 | Pass |
|       |      |     | 25 | 20.85 | 2.21 | 23.06 | <=33.01 | Pass |
|       |      |     | 50 | 20.82 | 2.21 | 23.03 | <=33.01 | Pass |
|       |      | 100 | 0  | 21.01 | 2.21 | 23.22 | <=33.01 | Pass |
|       | 2535 | 1   | 0  | 21.84 | 2.21 | 24.05 | <=33.01 | Pass |
|       |      |     | 50 | 21.90 | 2.21 | 24.11 | <=33.01 | Pass |
|       |      |     | 99 | 21.75 | 2.21 | 23.96 | <=33.01 | Pass |
|       |      | 50  | 0  | 20.90 | 2.21 | 23.11 | <=33.01 | Pass |
|       |      |     | 25 | 20.89 | 2.21 | 23.10 | <=33.01 | Pass |
|       |      |     | 50 | 20.83 | 2.21 | 23.04 | <=33.01 | Pass |
|       |      | 100 | 0  | 21.02 | 2.21 | 23.23 | <=33.01 | Pass |
|       | 2560 | 1   | 0  | 21.87 | 2.21 | 24.08 | <=33.01 | Pass |
|       |      |     | 50 | 22.00 | 2.21 | 24.21 | <=33.01 | Pass |
|       |      |     | 99 | 22.03 | 2.21 | 24.24 | <=33.01 | Pass |
|       |      | 50  | 0  | 20.92 | 2.21 | 23.13 | <=33.01 | Pass |
|       |      |     | 25 | 20.96 | 2.21 | 23.17 | <=33.01 | Pass |
|       |      |     | 50 | 20.82 | 2.21 | 23.03 | <=33.01 | Pass |
|       |      | 100 | 0  | 21.03 | 2.21 | 23.24 | <=33.01 | Pass |
| 64QAM | 2510 | 1   | 0  | 20.89 | 2.21 | 23.10 | <=33.01 | Pass |
|       |      |     | 50 | 20.93 | 2.21 | 23.14 | <=33.01 | Pass |
|       |      |     | 99 | 20.84 | 2.21 | 23.05 | <=33.01 | Pass |
|       |      | 50  | 0  | 19.90 | 2.21 | 22.11 | <=33.01 | Pass |
|       |      |     | 25 | 19.87 | 2.21 | 22.08 | <=33.01 | Pass |
|       |      |     | 50 | 19.81 | 2.21 | 22.02 | <=33.01 | Pass |
|       |      | 100 | 0  | 20.03 | 2.21 | 22.24 | <=33.01 | Pass |
|       | 2535 | 1   | 0  | 21.04 | 2.21 | 23.25 | <=33.01 | Pass |
|       |      |     | 50 | 21.12 | 2.21 | 23.33 | <=33.01 | Pass |
|       |      |     | 99 | 20.97 | 2.21 | 23.18 | <=33.01 | Pass |
|       |      | 50  | 0  | 19.86 | 2.21 | 22.07 | <=33.01 | Pass |
|       |      |     | 25 | 19.90 | 2.21 | 22.11 | <=33.01 | Pass |
|       |      |     | 50 | 19.90 | 2.21 | 22.11 | <=33.01 | Pass |



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|  |      |                                          |    |       |      |       |         |      |
|--|------|------------------------------------------|----|-------|------|-------|---------|------|
|  | 2560 | 100                                      | 0  | 20.01 | 2.21 | 22.22 | <=33.01 | Pass |
|  |      | 1                                        | 0  | 20.94 | 2.21 | 23.15 | <=33.01 | Pass |
|  |      |                                          | 50 | 20.96 | 2.21 | 23.17 | <=33.01 | Pass |
|  |      |                                          | 99 | 20.98 | 2.21 | 23.19 | <=33.01 | Pass |
|  |      | 50                                       | 0  | 19.88 | 2.21 | 22.09 | <=33.01 | Pass |
|  |      |                                          | 25 | 19.95 | 2.21 | 22.16 | <=33.01 | Pass |
|  |      |                                          | 50 | 19.85 | 2.21 | 22.06 | <=33.01 | Pass |
|  |      | 100                                      | 0  | 20.06 | 2.21 | 22.27 | <=33.01 | Pass |
|  |      | Note1: EIRP=Conducted Power+Antenna Gain |    |       |      |       |         |      |



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## 2. Frequency Stability

### 2.1 B7\_5MHz

#### 2.1.1 Test Result

| Band: 7 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |       |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |       | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit |         |
| QPSK                      | 2502.5          | 25            | 0      | 20         | 3.3           | 0.140            | 0.0001                | /     | Pass    |
|                           |                 |               |        |            | 3.8           | -0.035           | 0.0000                | /     | Pass    |
|                           |                 |               |        |            | 4.3           | 0.322            | 0.0001                | /     | Pass    |
|                           |                 |               |        | -30        | 3.8           | -0.355           | -0.0001               | /     | Pass    |
|                           |                 |               |        | -20        | 3.8           | -0.792           | -0.0003               | /     | Pass    |
|                           |                 |               |        | -10        | 3.8           | -1.141           | -0.0005               | /     | Pass    |
|                           |                 |               |        | 0          | 3.8           | 0.527            | 0.0002                | /     | Pass    |
|                           |                 |               |        | 10         | 3.8           | -0.423           | -0.0002               | /     | Pass    |
|                           |                 |               |        | 30         | 3.8           | -1.042           | -0.0004               | /     | Pass    |
|                           |                 |               |        | 40         | 3.8           | -1.123           | -0.0004               | /     | Pass    |
|                           |                 |               |        | 50         | 3.8           | -0.086           | 0.0000                | /     | Pass    |
|                           | 2535            | 25            | 0      | 20         | 3.3           | 0.065            | 0.0000                | /     | Pass    |
|                           |                 |               |        |            | 3.8           | 1.394            | 0.0005                | /     | Pass    |
|                           |                 |               |        |            | 4.3           | 1.686            | 0.0007                | /     | Pass    |
|                           |                 |               |        | -30        | 3.8           | 1.035            | 0.0004                | /     | Pass    |
|                           |                 |               |        | -20        | 3.8           | 0.990            | 0.0004                | /     | Pass    |
|                           |                 |               |        | -10        | 3.8           | 0.212            | 0.0001                | /     | Pass    |
|                           |                 |               |        | 0          | 3.8           | -0.670           | -0.0003               | /     | Pass    |
|                           |                 |               |        | 10         | 3.8           | 0.658            | 0.0003                | /     | Pass    |
|                           |                 |               |        | 30         | 3.8           | 0.387            | 0.0002                | /     | Pass    |
|                           |                 |               |        | 40         | 3.8           | -0.017           | 0.0000                | /     | Pass    |
|                           |                 |               |        | 50         | 3.8           | 0.735            | 0.0003                | /     | Pass    |
|                           | 2567.5          | 25            | 0      | 20         | 3.3           | -2.465           | -0.0010               | /     | Pass    |
|                           |                 |               |        |            | 3.8           | -1.733           | -0.0007               | /     | Pass    |
|                           |                 |               |        |            | 4.3           | -2.753           | -0.0011               | /     | Pass    |
|                           |                 |               |        | -30        | 3.8           | -1.909           | -0.0007               | /     | Pass    |
|                           |                 |               |        | -20        | 3.8           | -1.402           | -0.0005               | /     | Pass    |
|                           |                 |               |        | -10        | 3.8           | -1.965           | -0.0008               | /     | Pass    |
|                           |                 |               |        | 0          | 3.8           | -1.754           | -0.0007               | /     | Pass    |
|                           |                 |               |        | 10         | 3.8           | -2.316           | -0.0009               | /     | Pass    |
|                           |                 |               |        | 30         | 3.8           | -1.651           | -0.0006               | /     | Pass    |
|                           |                 |               |        | 40         | 3.8           | -2.101           | -0.0008               | /     | Pass    |
|                           |                 |               |        | 50         | 3.8           | -1.464           | -0.0006               | /     | Pass    |
| 16QAM                     | 2502.5          | 25            | 0      | 20         | 3.3           | -1.214           | -0.0005               | /     | Pass    |
|                           |                 |               |        |            | 3.8           | -1.377           | -0.0006               | /     | Pass    |
|                           |                 |               |        |            | 4.3           | -0.278           | -0.0001               | /     | Pass    |
|                           |                 |               |        | -30        | 3.8           | -0.945           | -0.0004               | /     | Pass    |



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|       |        |    |   | -20 | 3.8 | -0.985 | -0.0004 | / | Pass |
|       |        |    |   | -10 | 3.8 | -1.037 | -0.0004 | / | Pass |
|       |        |    |   | 0   | 3.8 | -1.605 | -0.0006 | / | Pass |
|       |        |    |   | 10  | 3.8 | -1.039 | -0.0004 | / | Pass |
|       |        |    |   | 30  | 3.8 | -0.716 | -0.0003 | / | Pass |
|       |        |    |   | 40  | 3.8 | 0.135  | 0.0001  | / | Pass |
|       |        |    |   | 50  | 3.8 | 0.380  | 0.0002  | / | Pass |
|       | 2535   | 25 | 0 | 20  | 3.3 | 0.916  | 0.0004  | / | Pass |
|       |        |    |   |     | 3.8 | -0.370 | -0.0001 | / | Pass |
|       |        |    |   |     | 4.3 | 0.450  | 0.0002  | / | Pass |
|       |        |    |   | -30 | 3.8 | 0.873  | 0.0003  | / | Pass |
|       |        |    |   | -20 | 3.8 | 0.977  | 0.0004  | / | Pass |
|       |        |    |   | -10 | 3.8 | 1.142  | 0.0005  | / | Pass |
|       |        |    |   | 0   | 3.8 | 0.597  | 0.0002  | / | Pass |
|       |        |    |   | 10  | 3.8 | 0.361  | 0.0001  | / | Pass |
|       |        |    |   | 30  | 3.8 | 0.161  | 0.0001  | / | Pass |
|       |        |    |   | 40  | 3.8 | 0.914  | 0.0004  | / | Pass |
|       |        |    |   | 50  | 3.8 | 1.134  | 0.0004  | / | Pass |
|       | 2567.5 | 25 | 0 | 20  | 3.3 | -2.507 | -0.0010 | / | Pass |
|       |        |    |   |     | 3.8 | -2.025 | -0.0008 | / | Pass |
|       |        |    |   |     | 4.3 | -1.656 | -0.0006 | / | Pass |
|       |        |    |   | -30 | 3.8 | -2.749 | -0.0011 | / | Pass |
|       |        |    |   | -20 | 3.8 | -1.506 | -0.0006 | / | Pass |
|       |        |    |   | -10 | 3.8 | -1.902 | -0.0007 | / | Pass |
|       |        |    |   | 0   | 3.8 | -1.848 | -0.0007 | / | Pass |
|       |        |    |   | 10  | 3.8 | -2.494 | -0.0010 | / | Pass |
|       |        |    |   | 30  | 3.8 | -1.852 | -0.0007 | / | Pass |
|       |        |    |   | 40  | 3.8 | -1.921 | -0.0007 | / | Pass |
|       |        |    |   | 50  | 3.8 | -2.988 | -0.0012 | / | Pass |
| 64QAM | 2502.5 | 25 | 0 | 20  | 3.3 | -0.418 | -0.0002 | / | Pass |
|       |        |    |   |     | 3.8 | -0.420 | -0.0002 | / | Pass |
|       |        |    |   |     | 4.3 | -0.965 | -0.0004 | / | Pass |
|       |        |    |   | -30 | 3.8 | -0.384 | -0.0002 | / | Pass |
|       |        |    |   | -20 | 3.8 | -1.218 | -0.0005 | / | Pass |
|       |        |    |   | -10 | 3.8 | -0.034 | 0.0000  | / | Pass |
|       |        |    |   | 0   | 3.8 | -0.629 | -0.0003 | / | Pass |
|       |        |    |   | 10  | 3.8 | 0.208  | 0.0001  | / | Pass |
|       |        |    |   | 30  | 3.8 | -0.109 | 0.0000  | / | Pass |
|       |        |    |   | 40  | 3.8 | 0.479  | 0.0002  | / | Pass |
|       |        |    |   | 50  | 3.8 | 0.457  | 0.0002  | / | Pass |
|       | 2535   | 25 | 0 | 20  | 3.3 | 0.137  | 0.0001  | / | Pass |
|       |        |    |   |     | 3.8 | 1.200  | 0.0005  | / | Pass |
|       |        |    |   |     | 4.3 | 1.146  | 0.0005  | / | Pass |
|       |        |    |   | -30 | 3.8 | 0.229  | 0.0001  | / | Pass |
|       |        |    |   | -20 | 3.8 | -0.527 | -0.0002 | / | Pass |
|       |        |    |   | -10 | 3.8 | 1.152  | 0.0005  | / | Pass |
|       |        |    |   | 0   | 3.8 | 0.154  | 0.0001  | / | Pass |
|       |        |    |   | 10  | 3.8 | -0.065 | 0.0000  | / | Pass |



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|  |  |  |  |     |     |        |         |   |      |
|--|--|--|--|-----|-----|--------|---------|---|------|
|  |  |  |  | 30  | 3.8 | 0.965  | 0.0004  | / | Pass |
|  |  |  |  | 40  | 3.8 | -0.527 | -0.0002 | / | Pass |
|  |  |  |  | 50  | 3.8 | -0.078 | 0.0000  | / | Pass |
|  |  |  |  | 20  | 3.3 | -1.721 | -0.0007 | / | Pass |
|  |  |  |  |     | 3.8 | -3.595 | -0.0014 | / | Pass |
|  |  |  |  |     | 4.3 | -1.510 | -0.0006 | / | Pass |
|  |  |  |  | -30 | 3.8 | -2.180 | -0.0008 | / | Pass |
|  |  |  |  | -20 | 3.8 | -2.788 | -0.0011 | / | Pass |
|  |  |  |  | -10 | 3.8 | -3.388 | -0.0013 | / | Pass |
|  |  |  |  | 0   | 3.8 | -1.606 | -0.0006 | / | Pass |
|  |  |  |  | 10  | 3.8 | -1.681 | -0.0007 | / | Pass |
|  |  |  |  | 30  | 3.8 | -2.216 | -0.0009 | / | Pass |
|  |  |  |  | 40  | 3.8 | -1.983 | -0.0008 | / | Pass |
|  |  |  |  | 50  | 3.8 | -2.794 | -0.0011 | / | Pass |

## 2.2 B7\_10MHz

### 2.2.1 Test Result

| Band: 7 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |       |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |       | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit |         |
| QPSK                       | 2505            | 50            | 0      | 20         | 3.3           | -0.390           | -0.0002               | /     | Pass    |
|                            |                 |               |        |            | 3.8           | -0.501           | -0.0002               | /     | Pass    |
|                            |                 |               |        |            | 4.3           | 0.512            | 0.0002                | /     | Pass    |
|                            |                 |               |        | -30        | 3.8           | -0.237           | -0.0001               | /     | Pass    |
|                            |                 |               |        | -20        | 3.8           | -1.295           | -0.0005               | /     | Pass    |
|                            |                 |               |        | -10        | 3.8           | -0.289           | -0.0001               | /     | Pass    |
|                            |                 |               |        | 0          | 3.8           | -0.804           | -0.0003               | /     | Pass    |
|                            |                 |               |        | 10         | 3.8           | -0.273           | -0.0001               | /     | Pass    |
|                            |                 |               |        | 30         | 3.8           | -0.727           | -0.0003               | /     | Pass    |
|                            |                 |               |        | 40         | 3.8           | -0.761           | -0.0003               | /     | Pass    |
|                            |                 |               |        | 50         | 3.8           | -0.993           | -0.0004               | /     | Pass    |
|                            | 2535            | 50            | 0      | 20         | 3.3           | -1.171           | -0.0005               | /     | Pass    |
|                            |                 |               |        |            | 3.8           | -1.432           | -0.0006               | /     | Pass    |
|                            |                 |               |        |            | 4.3           | -1.342           | -0.0005               | /     | Pass    |
|                            |                 |               |        | -30        | 3.8           | -1.810           | -0.0007               | /     | Pass    |
|                            |                 |               |        | -20        | 3.8           | -1.355           | -0.0005               | /     | Pass    |
|                            |                 |               |        | -10        | 3.8           | -1.903           | -0.0008               | /     | Pass    |
|                            |                 |               |        | 0          | 3.8           | -1.397           | -0.0006               | /     | Pass    |
|                            |                 |               |        | 10         | 3.8           | -0.716           | -0.0003               | /     | Pass    |
|                            |                 |               |        | 30         | 3.8           | -2.283           | -0.0009               | /     | Pass    |
|                            |                 |               |        | 40         | 3.8           | -2.347           | -0.0009               | /     | Pass    |
|                            |                 |               |        | 50         | 3.8           | -1.080           | -0.0004               | /     | Pass    |
|                            | 2565            | 50            | 0      | 20         | 3.3           | -1.674           | -0.0007               | /     | Pass    |
|                            |                 |               |        |            | 3.8           | -2.544           | -0.0010               | /     | Pass    |



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|-------|------|----|---|-----|-----|--------|---------|---|------|
|       |      |    |   |     | 4.3 | -2.816 | -0.0011 | / | Pass |
|       |      |    |   | -30 | 3.8 | -1.358 | -0.0005 | / | Pass |
|       |      |    |   | -20 | 3.8 | -2.492 | -0.0010 | / | Pass |
|       |      |    |   | -10 | 3.8 | -2.192 | -0.0009 | / | Pass |
|       |      |    |   | 0   | 3.8 | -2.008 | -0.0008 | / | Pass |
|       |      |    |   | 10  | 3.8 | -1.993 | -0.0008 | / | Pass |
|       |      |    |   | 30  | 3.8 | -1.655 | -0.0006 | / | Pass |
|       |      |    |   | 40  | 3.8 | -1.334 | -0.0005 | / | Pass |
|       |      |    |   | 50  | 3.8 | -1.257 | -0.0005 | / | Pass |
| 16QAM | 2505 | 50 | 0 | 20  | 3.3 | -0.354 | -0.0001 | / | Pass |
|       |      |    |   |     | 3.8 | -0.703 | -0.0003 | / | Pass |
|       |      |    |   |     | 4.3 | 0.341  | 0.0001  | / | Pass |
|       |      |    |   | -30 | 3.8 | -0.352 | -0.0001 | / | Pass |
|       |      |    |   | -20 | 3.8 | -0.702 | -0.0003 | / | Pass |
|       |      |    |   | -10 | 3.8 | -0.166 | -0.0001 | / | Pass |
|       |      |    |   | 0   | 3.8 | -0.755 | -0.0003 | / | Pass |
|       |      |    |   | 10  | 3.8 | -1.679 | -0.0007 | / | Pass |
|       |      |    |   | 30  | 3.8 | -1.196 | -0.0005 | / | Pass |
|       |      |    |   | 40  | 3.8 | -0.666 | -0.0003 | / | Pass |
|       |      |    |   | 50  | 3.8 | -0.746 | -0.0003 | / | Pass |
|       | 2535 | 50 | 0 | 20  | 3.3 | -2.876 | -0.0011 | / | Pass |
|       |      |    |   |     | 3.8 | -1.103 | -0.0004 | / | Pass |
|       |      |    |   |     | 4.3 | -1.225 | -0.0005 | / | Pass |
|       |      |    |   | -30 | 3.8 | -1.680 | -0.0007 | / | Pass |
|       |      |    |   | -20 | 3.8 | -0.849 | -0.0003 | / | Pass |
|       |      |    |   | -10 | 3.8 | -1.198 | -0.0005 | / | Pass |
|       |      |    |   | 0   | 3.8 | -1.433 | -0.0006 | / | Pass |
|       |      |    |   | 10  | 3.8 | -1.514 | -0.0006 | / | Pass |
|       |      |    |   | 30  | 3.8 | -2.003 | -0.0008 | / | Pass |
|       |      |    |   | 40  | 3.8 | -1.192 | -0.0005 | / | Pass |
|       |      |    |   | 50  | 3.8 | -1.716 | -0.0007 | / | Pass |
|       | 2565 | 50 | 0 | 20  | 3.3 | -1.862 | -0.0007 | / | Pass |
|       |      |    |   |     | 3.8 | -2.270 | -0.0009 | / | Pass |
|       |      |    |   |     | 4.3 | -2.228 | -0.0009 | / | Pass |
|       |      |    |   | -30 | 3.8 | -0.785 | -0.0003 | / | Pass |
|       |      |    |   | -20 | 3.8 | -2.420 | -0.0009 | / | Pass |
|       |      |    |   | -10 | 3.8 | -0.745 | -0.0003 | / | Pass |
|       |      |    |   | 0   | 3.8 | -1.830 | -0.0007 | / | Pass |
|       |      |    |   | 10  | 3.8 | -2.453 | -0.0010 | / | Pass |
|       |      |    |   | 30  | 3.8 | -2.857 | -0.0011 | / | Pass |
|       |      |    |   | 40  | 3.8 | -0.658 | -0.0003 | / | Pass |
|       |      |    |   | 50  | 3.8 | -1.583 | -0.0006 | / | Pass |
| 64QAM | 2505 | 50 | 0 | 20  | 3.3 | -2.497 | -0.0010 | / | Pass |
|       |      |    |   |     | 3.8 | -1.573 | -0.0006 | / | Pass |
|       |      |    |   |     | 4.3 | -0.788 | -0.0003 | / | Pass |
|       |      |    |   | -30 | 3.8 | -0.681 | -0.0003 | / | Pass |
|       |      |    |   | -20 | 3.8 | -1.573 | -0.0006 | / | Pass |
|       |      |    |   | -10 | 3.8 | -1.380 | -0.0006 | / | Pass |



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|  |      |    |   | 0   | 3.8 | -0.685 | -0.0003 | / | Pass |
|  |      |    |   | 10  | 3.8 | -1.427 | -0.0006 | / | Pass |
|  |      |    |   | 30  | 3.8 | -0.933 | -0.0004 | / | Pass |
|  |      |    |   | 40  | 3.8 | -1.577 | -0.0006 | / | Pass |
|  |      |    |   | 50  | 3.8 | -0.813 | -0.0003 | / | Pass |
|  | 2535 | 50 | 0 | 20  | 3.3 | -1.136 | -0.0004 | / | Pass |
|  |      |    |   |     | 3.8 | -1.451 | -0.0006 | / | Pass |
|  |      |    |   |     | 4.3 | -1.795 | -0.0007 | / | Pass |
|  |      |    |   | -30 | 3.8 | -1.513 | -0.0006 | / | Pass |
|  |      |    |   | -20 | 3.8 | -1.122 | -0.0004 | / | Pass |
|  |      |    |   | -10 | 3.8 | -1.609 | -0.0006 | / | Pass |
|  |      |    |   | 0   | 3.8 | -1.204 | -0.0005 | / | Pass |
|  |      |    |   | 10  | 3.8 | -2.072 | -0.0008 | / | Pass |
|  |      |    |   | 30  | 3.8 | -1.913 | -0.0008 | / | Pass |
|  |      |    |   | 40  | 3.8 | -1.716 | -0.0007 | / | Pass |
|  |      |    |   | 50  | 3.8 | -1.427 | -0.0006 | / | Pass |
|  | 2565 | 50 | 0 | 20  | 3.3 | -1.634 | -0.0006 | / | Pass |
|  |      |    |   |     | 3.8 | -0.862 | -0.0003 | / | Pass |
|  |      |    |   |     | 4.3 | -1.537 | -0.0006 | / | Pass |
|  |      |    |   | -30 | 3.8 | -1.465 | -0.0006 | / | Pass |
|  |      |    |   | -20 | 3.8 | -2.376 | -0.0009 | / | Pass |
|  |      |    |   | -10 | 3.8 | -1.374 | -0.0005 | / | Pass |
|  |      |    |   | 0   | 3.8 | -1.515 | -0.0006 | / | Pass |
|  |      |    |   | 10  | 3.8 | -1.381 | -0.0005 | / | Pass |
|  |      |    |   | 30  | 3.8 | -0.739 | -0.0003 | / | Pass |
|  |      |    |   | 40  | 3.8 | -1.942 | -0.0008 | / | Pass |
|  |      |    |   | 50  | 3.8 | -1.355 | -0.0005 | / | Pass |

## 2.3 B7\_15MHz

### 2.3.1 Test Result

| Band: 7 / Bandwidth: 15MHz |                 |               |        |            |               |                  |                       |       |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |       | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit |         |
| QPSK                       | 2507.5          | 75            | 0      | 20         | 3.3           | -1.799           | -0.0007               | /     | Pass    |
|                            |                 |               |        |            | 3.8           | -1.564           | -0.0006               | /     | Pass    |
|                            |                 |               |        |            | 4.3           | -2.267           | -0.0009               | /     | Pass    |
|                            |                 |               |        | -30        | 3.8           | -1.378           | -0.0005               | /     | Pass    |
|                            |                 |               |        | -20        | 3.8           | -1.681           | -0.0007               | /     | Pass    |
|                            |                 |               |        | -10        | 3.8           | -1.351           | -0.0005               | /     | Pass    |
|                            |                 |               |        | 0          | 3.8           | -2.091           | -0.0008               | /     | Pass    |
|                            |                 |               |        | 10         | 3.8           | -1.591           | -0.0006               | /     | Pass    |
|                            |                 |               |        | 30         | 3.8           | -2.407           | -0.0010               | /     | Pass    |
|                            |                 |               |        | 40         | 3.8           | -1.635           | -0.0007               | /     | Pass    |
|                            |                 |               |        | 50         | 3.8           | -2.152           | -0.0009               | /     | Pass    |



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| 16QAM | 2535   | 75 | 0 | 20  | 3.3 | -1.658 | -0.0007 | / | Pass |
|       |        |    |   |     | 3.8 | -1.392 | -0.0005 | / | Pass |
|       |        |    |   |     | 4.3 | -1.404 | -0.0006 | / | Pass |
|       |        |    |   | -30 | 3.8 | -2.038 | -0.0008 | / | Pass |
|       |        |    |   | -20 | 3.8 | -1.661 | -0.0007 | / | Pass |
|       |        |    |   | -10 | 3.8 | -1.495 | -0.0006 | / | Pass |
|       |        |    |   | 0   | 3.8 | -1.427 | -0.0006 | / | Pass |
|       |        |    |   | 10  | 3.8 | -1.075 | -0.0004 | / | Pass |
|       |        |    |   | 30  | 3.8 | -0.774 | -0.0003 | / | Pass |
|       |        |    |   | 40  | 3.8 | -1.763 | -0.0007 | / | Pass |
|       |        |    |   | 50  | 3.8 | -1.743 | -0.0007 | / | Pass |
|       | 2562.5 | 75 | 0 | 20  | 3.3 | -0.920 | -0.0004 | / | Pass |
|       |        |    |   |     | 3.8 | -1.171 | -0.0005 | / | Pass |
|       |        |    |   |     | 4.3 | -0.633 | -0.0002 | / | Pass |
|       |        |    |   | -30 | 3.8 | -0.338 | -0.0001 | / | Pass |
|       |        |    |   | -20 | 3.8 | -1.105 | -0.0004 | / | Pass |
|       |        |    |   | -10 | 3.8 | -1.310 | -0.0005 | / | Pass |
|       |        |    |   | 0   | 3.8 | -1.172 | -0.0005 | / | Pass |
|       |        |    |   | 10  | 3.8 | -1.006 | -0.0004 | / | Pass |
|       |        |    |   | 30  | 3.8 | -1.208 | -0.0005 | / | Pass |
|       |        |    |   | 40  | 3.8 | -0.643 | -0.0003 | / | Pass |
|       |        |    |   | 50  | 3.8 | -0.547 | -0.0002 | / | Pass |
|       | 2507.5 | 75 | 0 | 20  | 3.3 | -2.278 | -0.0009 | / | Pass |
|       |        |    |   |     | 3.8 | -1.086 | -0.0004 | / | Pass |
|       |        |    |   |     | 4.3 | -3.069 | -0.0012 | / | Pass |
|       |        |    |   | -30 | 3.8 | -2.289 | -0.0009 | / | Pass |
|       |        |    |   | -20 | 3.8 | -2.451 | -0.0010 | / | Pass |
|       |        |    |   | -10 | 3.8 | -2.501 | -0.0010 | / | Pass |
|       |        |    |   | 0   | 3.8 | -1.658 | -0.0007 | / | Pass |
|       |        |    |   | 10  | 3.8 | -1.724 | -0.0007 | / | Pass |
|       |        |    |   | 30  | 3.8 | -1.968 | -0.0008 | / | Pass |
|       |        |    |   | 40  | 3.8 | -1.880 | -0.0007 | / | Pass |
|       |        |    |   | 50  | 3.8 | -2.428 | -0.0010 | / | Pass |
|       | 2535   | 75 | 0 | 20  | 3.3 | -1.547 | -0.0006 | / | Pass |
|       |        |    |   |     | 3.8 | -2.305 | -0.0009 | / | Pass |
|       |        |    |   |     | 4.3 | -1.646 | -0.0006 | / | Pass |
|       |        |    |   | -30 | 3.8 | -0.960 | -0.0004 | / | Pass |
|       |        |    |   | -20 | 3.8 | -1.723 | -0.0007 | / | Pass |
|       |        |    |   | -10 | 3.8 | -1.546 | -0.0006 | / | Pass |
|       |        |    |   | 0   | 3.8 | -1.243 | -0.0005 | / | Pass |
|       |        |    |   | 10  | 3.8 | -1.980 | -0.0008 | / | Pass |
|       |        |    |   | 30  | 3.8 | -1.427 | -0.0006 | / | Pass |
|       |        |    |   | 40  | 3.8 | -1.292 | -0.0005 | / | Pass |
|       |        |    |   | 50  | 3.8 | -1.255 | -0.0005 | / | Pass |
|       | 2562.5 | 75 | 0 | 20  | 3.3 | -0.338 | -0.0001 | / | Pass |
|       |        |    |   |     | 3.8 | -0.273 | -0.0001 | / | Pass |
|       |        |    |   |     | 4.3 | -0.250 | -0.0001 | / | Pass |
|       |        |    |   | -30 | 3.8 | 0.387  | 0.0002  | / | Pass |



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|       |        |    |   |     |     |        |         |   |      |
|-------|--------|----|---|-----|-----|--------|---------|---|------|
|       |        |    |   | -20 | 3.8 | -1.637 | -0.0006 | / | Pass |
|       |        |    |   | -10 | 3.8 | -1.115 | -0.0004 | / | Pass |
|       |        |    |   | 0   | 3.8 | -0.073 | 0.0000  | / | Pass |
|       |        |    |   | 10  | 3.8 | -0.165 | -0.0001 | / | Pass |
|       |        |    |   | 30  | 3.8 | -0.389 | -0.0002 | / | Pass |
|       |        |    |   | 40  | 3.8 | 0.114  | 0.0000  | / | Pass |
|       |        |    |   | 50  | 3.8 | -1.122 | -0.0004 | / | Pass |
| 64QAM | 2507.5 | 75 | 0 | 20  | 3.3 | -2.274 | -0.0009 | / | Pass |
|       |        |    |   |     | 3.8 | -1.368 | -0.0005 | / | Pass |
|       |        |    |   |     | 4.3 | -1.469 | -0.0006 | / | Pass |
|       |        |    |   | -30 | 3.8 | -1.476 | -0.0006 | / | Pass |
|       |        |    |   | -20 | 3.8 | -1.373 | -0.0005 | / | Pass |
|       |        |    |   | -10 | 3.8 | -1.739 | -0.0007 | / | Pass |
|       |        |    |   | 0   | 3.8 | -1.238 | -0.0005 | / | Pass |
|       |        |    |   | 10  | 3.8 | -1.401 | -0.0006 | / | Pass |
|       |        |    |   | 30  | 3.8 | -2.428 | -0.0010 | / | Pass |
|       |        |    |   | 40  | 3.8 | -1.171 | -0.0005 | / | Pass |
|       |        |    |   | 50  | 3.8 | -0.858 | -0.0003 | / | Pass |
|       | 2535   | 75 | 0 | 20  | 3.3 | -1.815 | -0.0007 | / | Pass |
|       |        |    |   |     | 3.8 | -1.374 | -0.0005 | / | Pass |
|       |        |    |   |     | 4.3 | -0.198 | -0.0001 | / | Pass |
|       |        |    |   | -30 | 3.8 | -1.092 | -0.0004 | / | Pass |
|       |        |    |   | -20 | 3.8 | -1.876 | -0.0007 | / | Pass |
|       |        |    |   | -10 | 3.8 | -0.500 | -0.0002 | / | Pass |
|       |        |    |   | 0   | 3.8 | -1.516 | -0.0006 | / | Pass |
|       |        |    |   | 10  | 3.8 | -1.777 | -0.0007 | / | Pass |
|       |        |    |   | 30  | 3.8 | -1.873 | -0.0007 | / | Pass |
|       |        |    |   | 40  | 3.8 | -0.550 | -0.0002 | / | Pass |
|       |        |    |   | 50  | 3.8 | -1.018 | -0.0004 | / | Pass |
|       | 2562.5 | 75 | 0 | 20  | 3.3 | -0.554 | -0.0002 | / | Pass |
|       |        |    |   |     | 3.8 | -1.284 | -0.0005 | / | Pass |
|       |        |    |   |     | 4.3 | 0.151  | 0.0001  | / | Pass |
|       |        |    |   | -30 | 3.8 | -0.432 | -0.0002 | / | Pass |
|       |        |    |   | -20 | 3.8 | -0.153 | -0.0001 | / | Pass |
|       |        |    |   | -10 | 3.8 | -0.187 | -0.0001 | / | Pass |
|       |        |    |   | 0   | 3.8 | -0.054 | 0.0000  | / | Pass |
|       |        |    |   | 10  | 3.8 | -0.085 | 0.0000  | / | Pass |
|       |        |    |   | 30  | 3.8 | 0.618  | 0.0002  | / | Pass |
|       |        |    |   | 40  | 3.8 | -0.852 | -0.0003 | / | Pass |
|       |        |    |   | 50  | 3.8 | -0.308 | -0.0001 | / | Pass |



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## 2.4 B7\_20MHz

### 2.4.1 Test Result

| Band: 7 / Bandwidth: 20MHz |                 |               |        |            |               |                  |                       |       |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |       | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit |         |
| QPSK                       | 2510            | 100           | 0      | 20         | 3.3           | 0.551            | 0.0002                | /     | Pass    |
|                            |                 |               |        |            | 3.8           | -1.104           | -0.0004               | /     | Pass    |
|                            |                 |               |        |            | 4.3           | -0.106           | 0.0000                | /     | Pass    |
|                            |                 |               |        | -30        | 3.8           | -0.851           | -0.0003               | /     | Pass    |
|                            |                 |               |        | -20        | 3.8           | -0.199           | -0.0001               | /     | Pass    |
|                            |                 |               |        | -10        | 3.8           | -0.876           | -0.0003               | /     | Pass    |
|                            |                 |               |        | 0          | 3.8           | -1.254           | -0.0005               | /     | Pass    |
|                            |                 |               |        | 10         | 3.8           | -1.459           | -0.0006               | /     | Pass    |
|                            |                 |               |        | 30         | 3.8           | -0.465           | -0.0002               | /     | Pass    |
|                            |                 |               |        | 40         | 3.8           | -1.015           | -0.0004               | /     | Pass    |
|                            |                 |               |        | 50         | 3.8           | -0.601           | -0.0002               | /     | Pass    |
|                            | 2535            | 100           | 0      | 20         | 3.3           | -1.181           | -0.0005               | /     | Pass    |
|                            |                 |               |        |            | 3.8           | -1.339           | -0.0005               | /     | Pass    |
|                            |                 |               |        |            | 4.3           | -1.032           | -0.0004               | /     | Pass    |
|                            |                 |               |        | -30        | 3.8           | -2.541           | -0.0010               | /     | Pass    |
|                            |                 |               |        | -20        | 3.8           | -0.970           | -0.0004               | /     | Pass    |
|                            |                 |               |        | -10        | 3.8           | -1.114           | -0.0004               | /     | Pass    |
|                            |                 |               |        | 0          | 3.8           | -0.867           | -0.0003               | /     | Pass    |
|                            |                 |               |        | 10         | 3.8           | -0.953           | -0.0004               | /     | Pass    |
|                            |                 |               |        | 30         | 3.8           | -0.819           | -0.0003               | /     | Pass    |
|                            |                 |               |        | 40         | 3.8           | -1.672           | -0.0007               | /     | Pass    |
|                            |                 |               |        | 50         | 3.8           | -1.865           | -0.0007               | /     | Pass    |
|                            | 2560            | 100           | 0      | 20         | 3.3           | -1.574           | -0.0006               | /     | Pass    |
|                            |                 |               |        |            | 3.8           | -3.271           | -0.0013               | /     | Pass    |
|                            |                 |               |        |            | 4.3           | -2.362           | -0.0009               | /     | Pass    |
|                            |                 |               |        | -30        | 3.8           | -2.689           | -0.0011               | /     | Pass    |
|                            |                 |               |        | -20        | 3.8           | -1.488           | -0.0006               | /     | Pass    |
|                            |                 |               |        | -10        | 3.8           | -1.572           | -0.0006               | /     | Pass    |
|                            |                 |               |        | 0          | 3.8           | -2.117           | -0.0008               | /     | Pass    |
|                            |                 |               |        | 10         | 3.8           | -2.829           | -0.0011               | /     | Pass    |
|                            |                 |               |        | 30         | 3.8           | -2.128           | -0.0008               | /     | Pass    |
|                            |                 |               |        | 40         | 3.8           | -2.046           | -0.0008               | /     | Pass    |
|                            |                 |               |        | 50         | 3.8           | -1.944           | -0.0008               | /     | Pass    |
| 16QAM                      | 2510            | 100           | 0      | 20         | 3.3           | -1.180           | -0.0005               | /     | Pass    |
|                            |                 |               |        |            | 3.8           | -0.757           | -0.0003               | /     | Pass    |
|                            |                 |               |        |            | 4.3           | -0.891           | -0.0004               | /     | Pass    |
|                            |                 |               |        | -30        | 3.8           | -0.239           | -0.0001               | /     | Pass    |
|                            |                 |               |        | -20        | 3.8           | -1.095           | -0.0004               | /     | Pass    |
|                            |                 |               |        | -10        | 3.8           | -0.726           | -0.0003               | /     | Pass    |
|                            |                 |               |        | 0          | 3.8           | 0.451            | 0.0002                | /     | Pass    |



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|-------|------|-----|---|-----|-----|--------|---------|---|------|
| 64QAM |      |     |   | 10  | 3.8 | -0.390 | -0.0002 | / | Pass |
|       |      |     |   | 30  | 3.8 | -0.681 | -0.0003 | / | Pass |
|       |      |     |   | 40  | 3.8 | -0.555 | -0.0002 | / | Pass |
|       |      |     |   | 50  | 3.8 | -0.071 | 0.0000  | / | Pass |
|       | 2535 | 100 | 0 | 20  | 3.3 | -2.308 | -0.0009 | / | Pass |
|       |      |     |   |     | 3.8 | -0.237 | -0.0001 | / | Pass |
|       |      |     |   |     | 4.3 | -2.006 | -0.0008 | / | Pass |
|       |      |     |   | -30 | 3.8 | -0.718 | -0.0003 | / | Pass |
|       |      |     |   | -20 | 3.8 | -0.216 | -0.0001 | / | Pass |
|       |      |     |   | -10 | 3.8 | -0.548 | -0.0002 | / | Pass |
|       |      |     |   | 0   | 3.8 | -1.708 | -0.0007 | / | Pass |
|       |      |     |   | 10  | 3.8 | -1.284 | -0.0005 | / | Pass |
|       |      |     |   | 30  | 3.8 | 0.200  | 0.0001  | / | Pass |
|       |      |     |   | 40  | 3.8 | -1.839 | -0.0007 | / | Pass |
|       |      |     |   | 50  | 3.8 | -0.834 | -0.0003 | / | Pass |
|       |      |     |   | 20  | 3.3 | -2.202 | -0.0009 | / | Pass |
|       |      |     |   |     | 3.8 | -2.402 | -0.0009 | / | Pass |
|       |      |     |   |     | 4.3 | -0.213 | -0.0001 | / | Pass |
|       | 2560 | 100 | 0 | -30 | 3.8 | -2.408 | -0.0009 | / | Pass |
|       |      |     |   | -20 | 3.8 | -2.364 | -0.0009 | / | Pass |
|       |      |     |   | -10 | 3.8 | -2.794 | -0.0011 | / | Pass |
|       |      |     |   | 0   | 3.8 | -1.570 | -0.0006 | / | Pass |
|       |      |     |   | 10  | 3.8 | -2.620 | -0.0010 | / | Pass |
|       |      |     |   | 30  | 3.8 | -2.077 | -0.0008 | / | Pass |
|       |      |     |   | 40  | 3.8 | -1.958 | -0.0008 | / | Pass |
|       |      |     |   | 50  | 3.8 | -2.337 | -0.0009 | / | Pass |
|       | 2510 | 100 | 0 | 20  | 3.3 | -0.898 | -0.0004 | / | Pass |
|       |      |     |   |     | 3.8 | -1.020 | -0.0004 | / | Pass |
|       |      |     |   |     | 4.3 | -0.932 | -0.0004 | / | Pass |
|       |      |     |   | -30 | 3.8 | -0.910 | -0.0004 | / | Pass |
|       |      |     |   | -20 | 3.8 | -0.162 | -0.0001 | / | Pass |
|       |      |     |   | -10 | 3.8 | 0.691  | 0.0003  | / | Pass |
|       |      |     |   | 0   | 3.8 | -0.402 | -0.0002 | / | Pass |
|       |      |     |   | 10  | 3.8 | -0.299 | -0.0001 | / | Pass |
|       |      |     |   | 30  | 3.8 | -0.307 | -0.0001 | / | Pass |
|       |      |     |   | 40  | 3.8 | -0.907 | -0.0004 | / | Pass |
|       |      |     |   | 50  | 3.8 | -0.132 | -0.0001 | / | Pass |
|       | 2535 | 100 | 0 | 20  | 3.3 | -1.264 | -0.0005 | / | Pass |
|       |      |     |   |     | 3.8 | 0.039  | 0.0000  | / | Pass |
|       |      |     |   |     | 4.3 | -1.460 | -0.0006 | / | Pass |
|       |      |     |   | -30 | 3.8 | -0.711 | -0.0003 | / | Pass |
|       |      |     |   | -20 | 3.8 | 0.346  | 0.0001  | / | Pass |
|       |      |     |   | -10 | 3.8 | -1.794 | -0.0007 | / | Pass |
|       |      |     |   | 0   | 3.8 | -1.236 | -0.0005 | / | Pass |
|       |      |     |   | 10  | 3.8 | -1.440 | -0.0006 | / | Pass |
|       |      |     |   | 30  | 3.8 | -0.784 | -0.0003 | / | Pass |
|       |      |     |   | 40  | 3.8 | -2.013 | -0.0008 | / | Pass |
|       |      |     |   | 50  | 3.8 | -1.655 | -0.0007 | / | Pass |



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|------|-----|---|-----|-----|--------|---------|---|------|
| 2560 | 100 | 0 | 20  | 3.3 | -1.678 | -0.0007 | / | Pass |
|      |     |   |     | 3.8 | -2.412 | -0.0009 | / | Pass |
|      |     |   |     | 4.3 | -2.120 | -0.0008 | / | Pass |
|      |     |   | -30 | 3.8 | -2.129 | -0.0008 | / | Pass |
|      |     |   | -20 | 3.8 | -1.835 | -0.0007 | / | Pass |
|      |     |   | -10 | 3.8 | -1.805 | -0.0007 | / | Pass |
|      |     |   | 0   | 3.8 | -2.521 | -0.0010 | / | Pass |
|      |     |   | 10  | 3.8 | -1.725 | -0.0007 | / | Pass |
|      |     |   | 30  | 3.8 | -1.227 | -0.0005 | / | Pass |
|      |     |   | 40  | 3.8 | -1.325 | -0.0005 | / | Pass |
|      |     |   | 50  | 3.8 | -1.575 | -0.0006 | / | Pass |



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## 3. 99% & 26dB Bandwidth

### 3.1 Band7\_OBW

#### 3.1.1 Test Result

| Band: 7 / NTNV  |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 5               | QPSK       | 2502.5          | 25            | 0      | 4.565                        | /     | Pass    |
|                 |            | 2535            | 25            | 0      | 4.559                        | /     | Pass    |
|                 |            | 2567.5          | 25            | 0      | 4.574                        | /     | Pass    |
|                 | 16QAM      | 2502.5          | 25            | 0      | 4.575                        | /     | Pass    |
|                 |            | 2535            | 25            | 0      | 4.580                        | /     | Pass    |
|                 |            | 2567.5          | 25            | 0      | 4.590                        | /     | Pass    |
|                 | 64QAM      | 2502.5          | 25            | 0      | 4.578                        | /     | Pass    |
|                 |            | 2535            | 25            | 0      | 4.574                        | /     | Pass    |
|                 |            | 2567.5          | 25            | 0      | 4.565                        | /     | Pass    |
| 10              | QPSK       | 2505            | 50            | 0      | 9.084                        | /     | Pass    |
|                 |            | 2535            | 50            | 0      | 9.112                        | /     | Pass    |
|                 |            | 2565            | 50            | 0      | 9.082                        | /     | Pass    |
|                 | 16QAM      | 2505            | 50            | 0      | 9.136                        | /     | Pass    |
|                 |            | 2535            | 50            | 0      | 9.094                        | /     | Pass    |
|                 |            | 2565            | 50            | 0      | 9.075                        | /     | Pass    |
|                 | 64QAM      | 2505            | 50            | 0      | 9.083                        | /     | Pass    |
|                 |            | 2535            | 50            | 0      | 9.091                        | /     | Pass    |
|                 |            | 2565            | 50            | 0      | 9.071                        | /     | Pass    |
| 15              | QPSK       | 2507.5          | 75            | 0      | 13.624                       | /     | Pass    |
|                 |            | 2535            | 75            | 0      | 13.608                       | /     | Pass    |
|                 |            | 2562.5          | 75            | 0      | 13.661                       | /     | Pass    |
|                 | 16QAM      | 2507.5          | 75            | 0      | 13.615                       | /     | Pass    |
|                 |            | 2535            | 75            | 0      | 13.602                       | /     | Pass    |
|                 |            | 2562.5          | 75            | 0      | 13.630                       | /     | Pass    |
|                 | 64QAM      | 2507.5          | 75            | 0      | 13.629                       | /     | Pass    |
|                 |            | 2535            | 75            | 0      | 13.582                       | /     | Pass    |
|                 |            | 2562.5          | 75            | 0      | 13.600                       | /     | Pass    |
| 20              | QPSK       | 2510            | 100           | 0      | 18.105                       | /     | Pass    |
|                 |            | 2535            | 100           | 0      | 18.139                       | /     | Pass    |
|                 |            | 2560            | 100           | 0      | 18.124                       | /     | Pass    |
|                 | 16QAM      | 2510            | 100           | 0      | 18.180                       | /     | Pass    |
|                 |            | 2535            | 100           | 0      | 18.162                       | /     | Pass    |
|                 |            | 2560            | 100           | 0      | 18.151                       | /     | Pass    |
|                 | 64QAM      | 2510            | 100           | 0      | 18.154                       | /     | Pass    |
|                 |            | 2535            | 100           | 0      | 18.131                       | /     | Pass    |
|                 |            | 2560            | 100           | 0      | 18.119                       | /     | Pass    |



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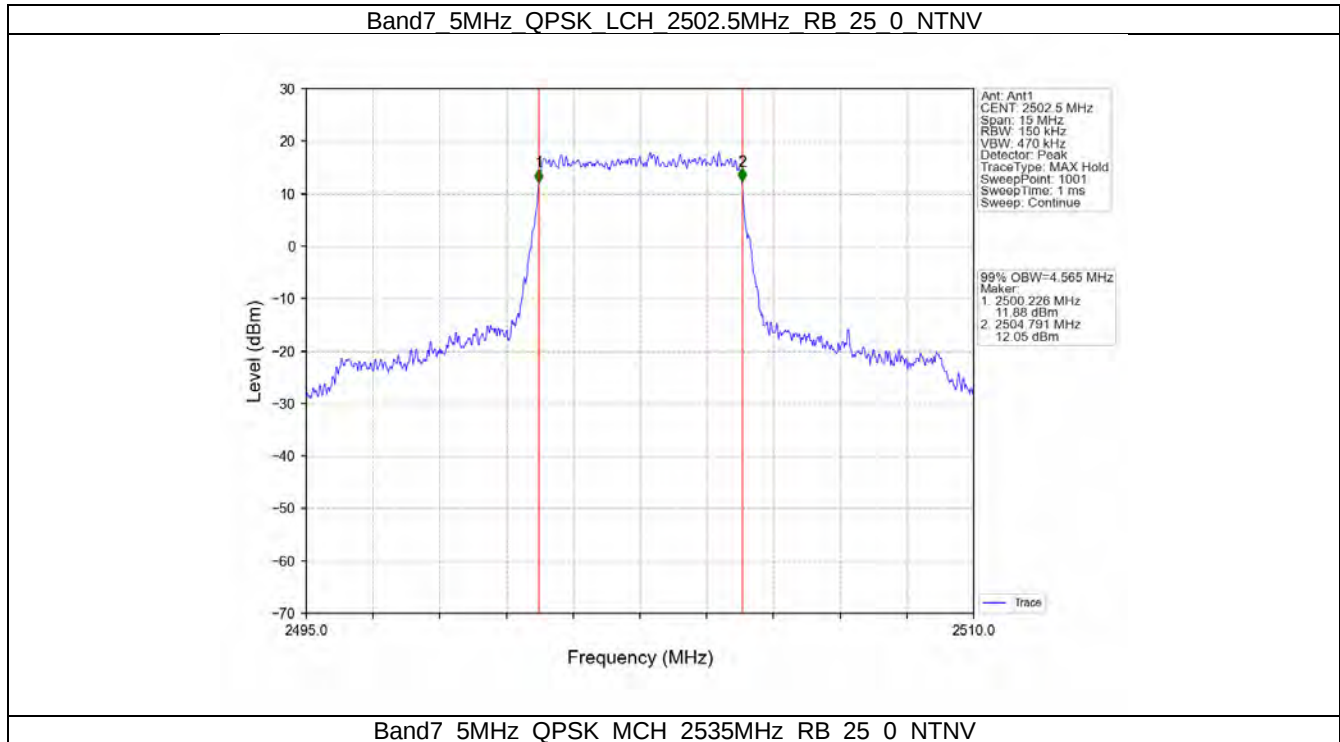
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## 3.1.2 Test Graph



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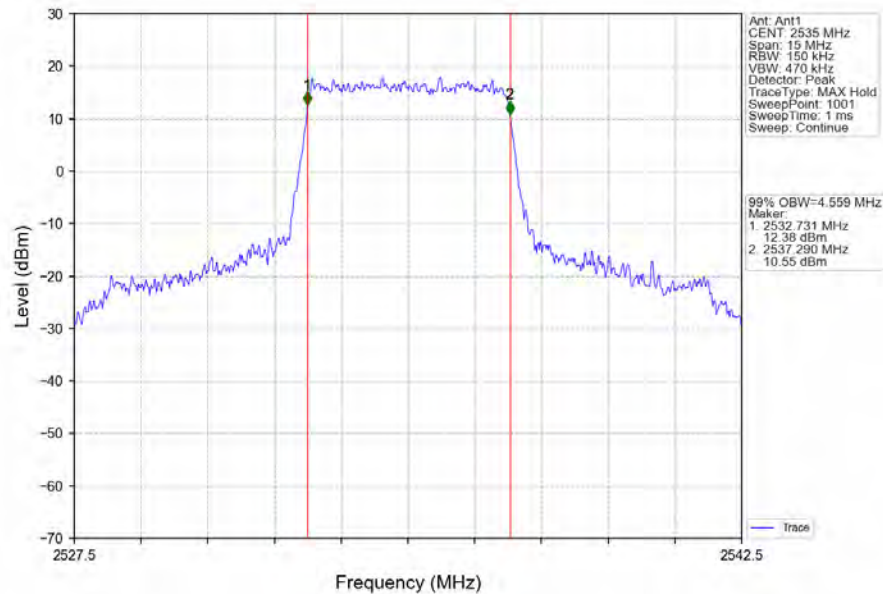


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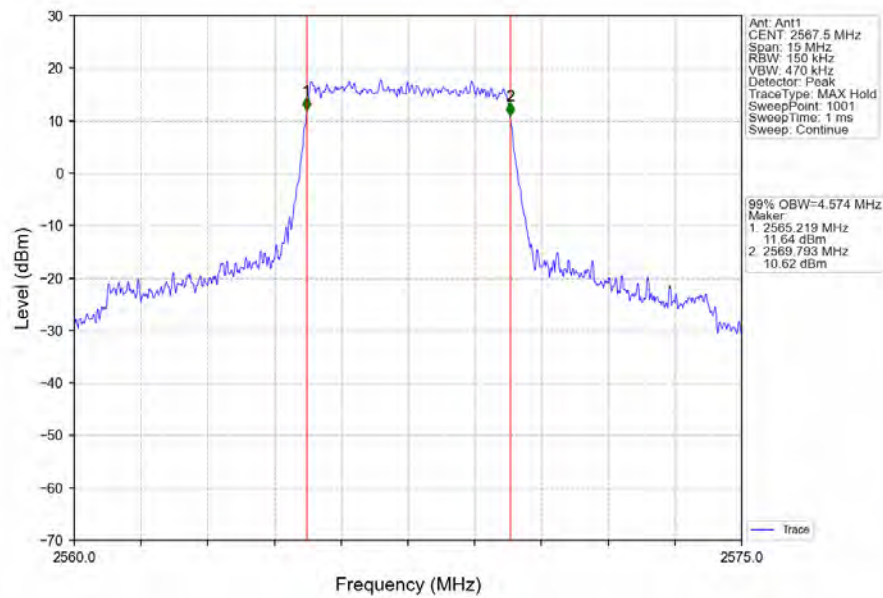
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Band7\_5MHz\_QPSK\_HCH\_2567.5MHz\_RB\_25\_0\_NTNV



Band7\_5MHz\_16QAM\_LCH\_2502.5MHz\_RB\_25\_0\_NTNV



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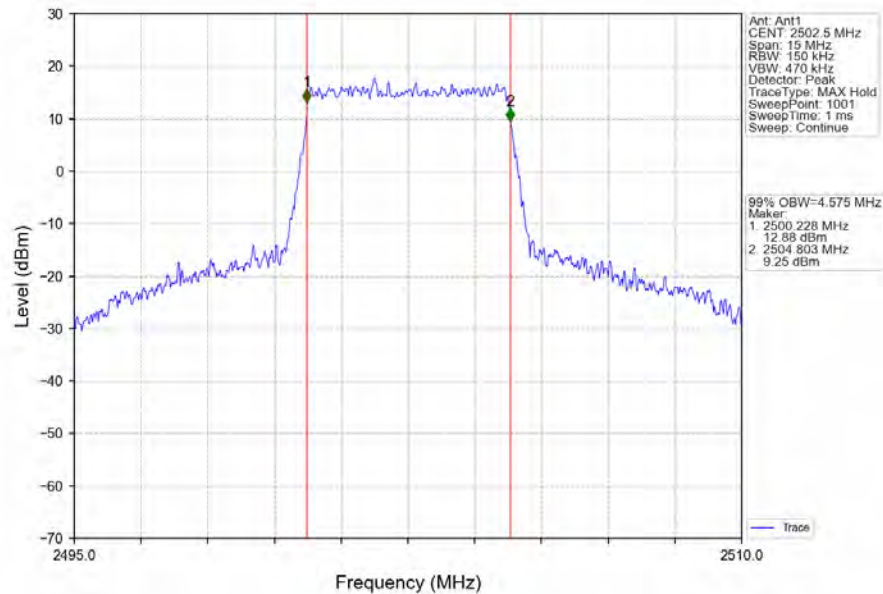


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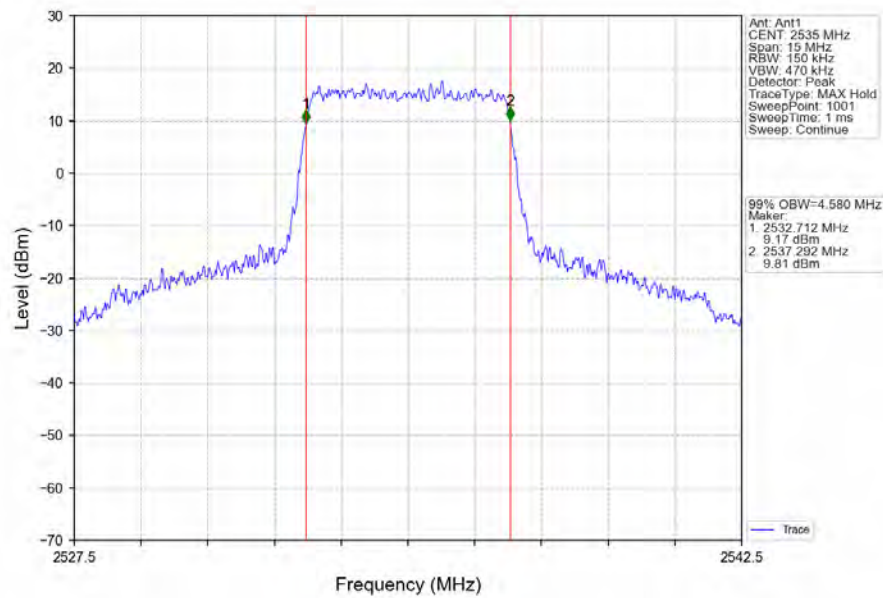
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Band7\_5MHz\_16QAM\_MCH\_2535MHz\_RB\_25\_0\_NTNV



Band7\_5MHz\_16QAM\_HCH\_2567.5MHz\_RB\_25\_0\_NTNV



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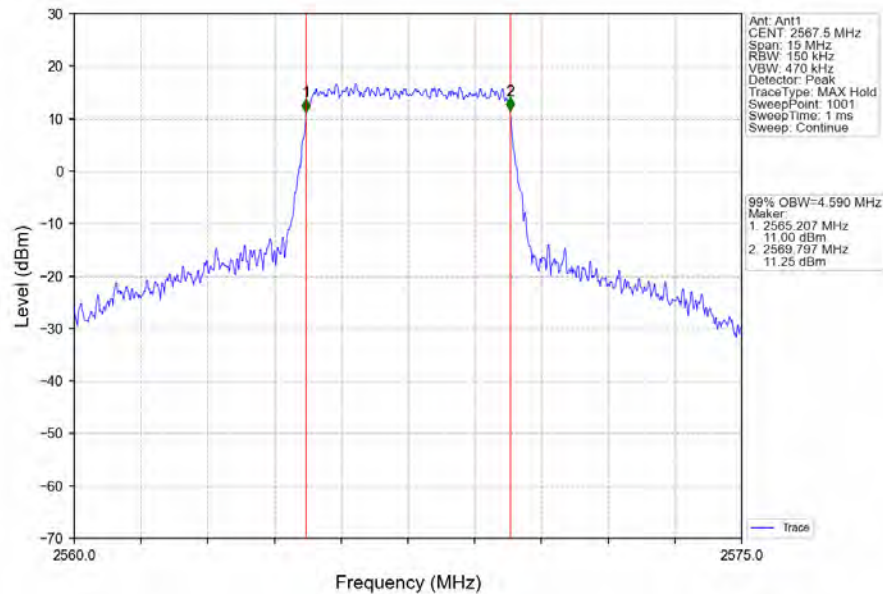


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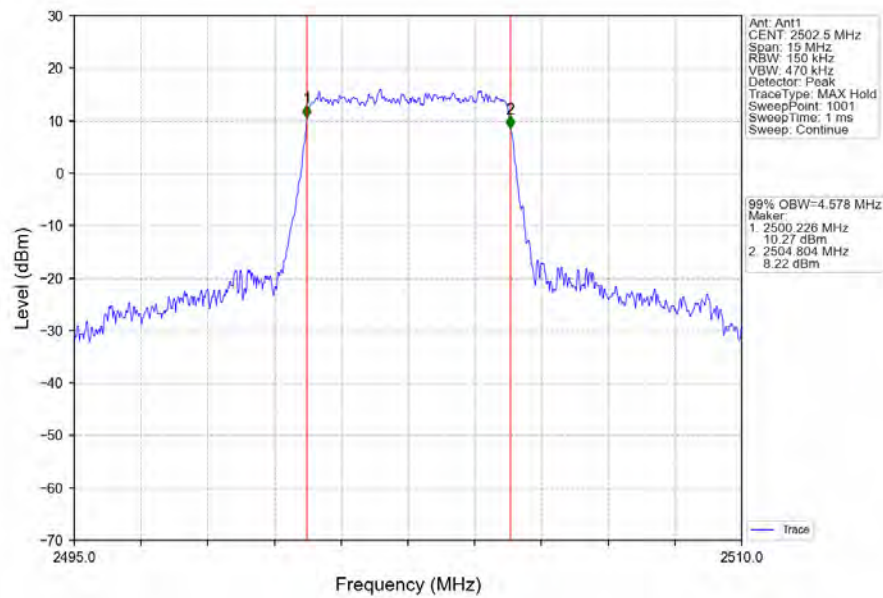
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Band7\_5MHz\_64QAM\_LCH\_2502.5MHz\_RB\_25\_0\_NTNV



Band7\_5MHz\_64QAM\_MCH\_2535MHz\_RB\_25\_0\_NTNV



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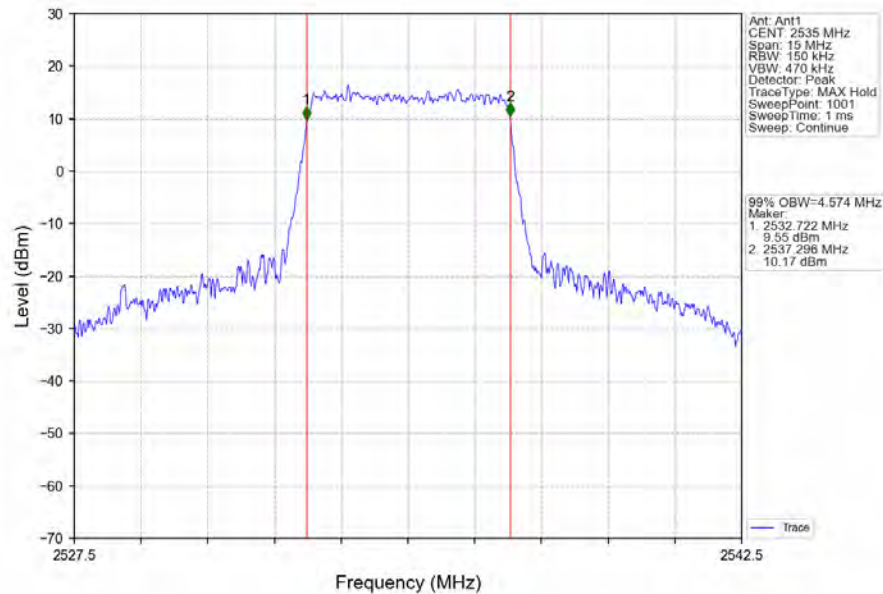


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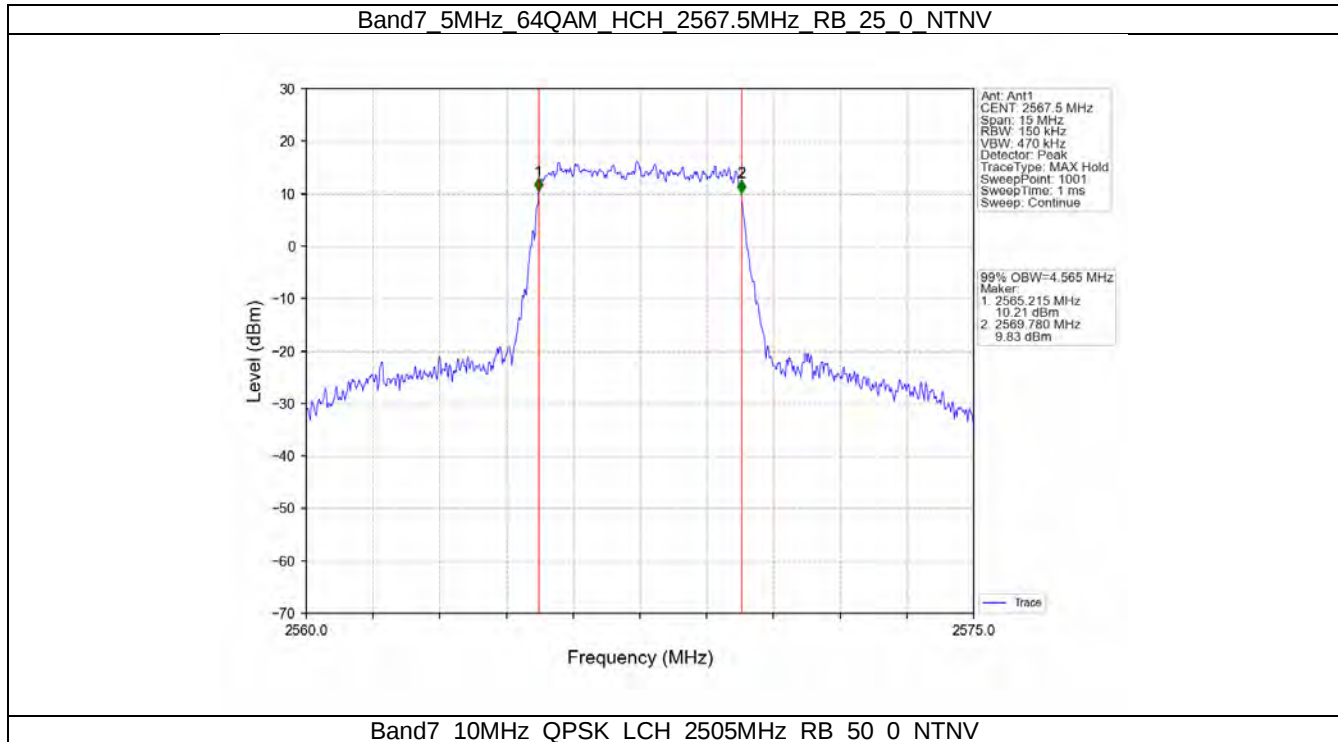


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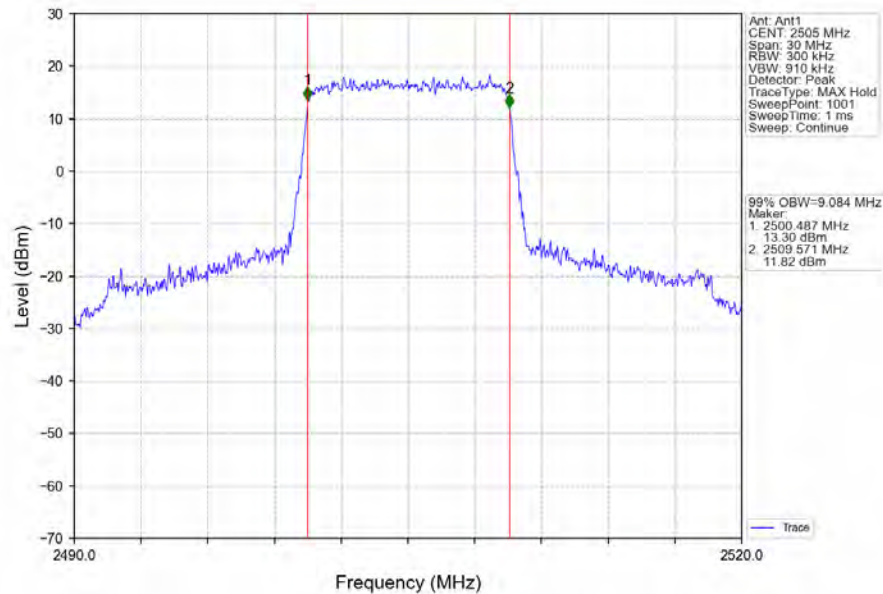


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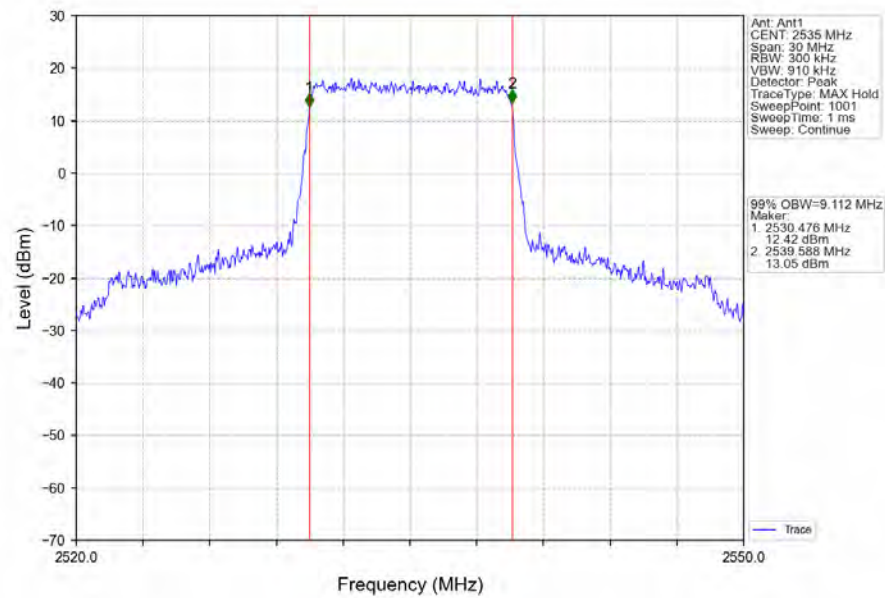
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Band7\_10MHz\_QPSK\_MCH\_2535MHz\_RB\_50\_0\_NTNV



Band7\_10MHz\_QPSK\_HCH\_2565MHz\_RB\_50\_0\_NTNV



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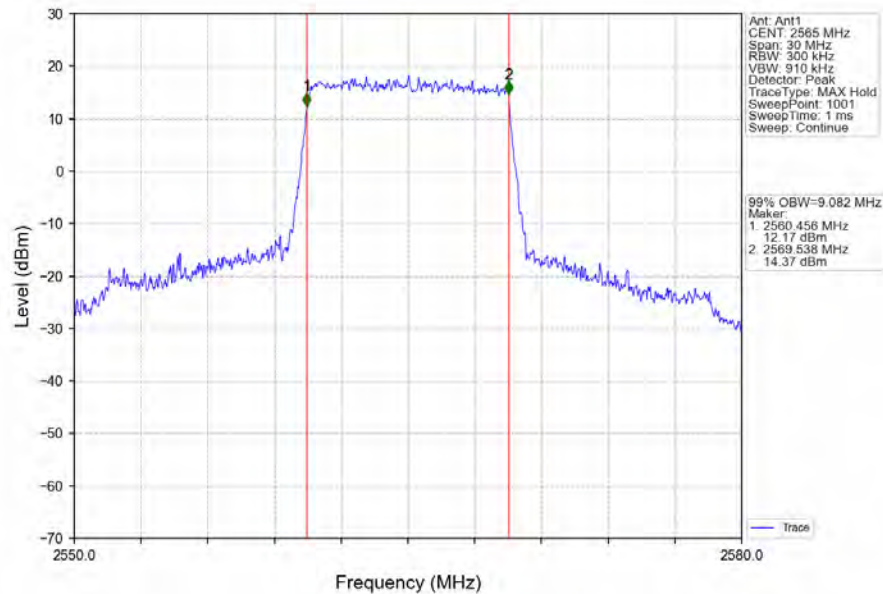


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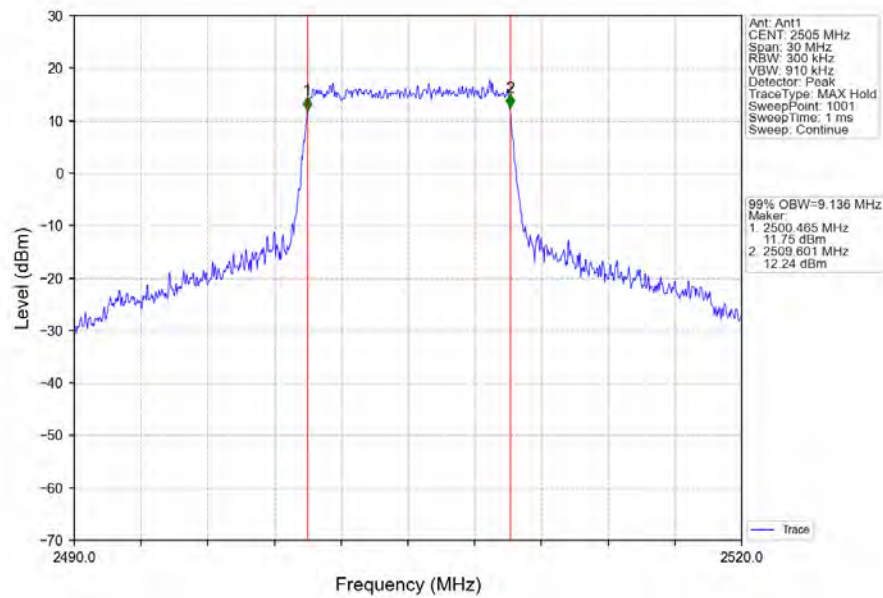
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Band7\_10MHz\_16QAM\_LCH\_2505MHz\_RB\_50\_0\_NTNV



Band7\_10MHz\_16QAM\_MCH\_2535MHz\_RB\_50\_0\_NTNV



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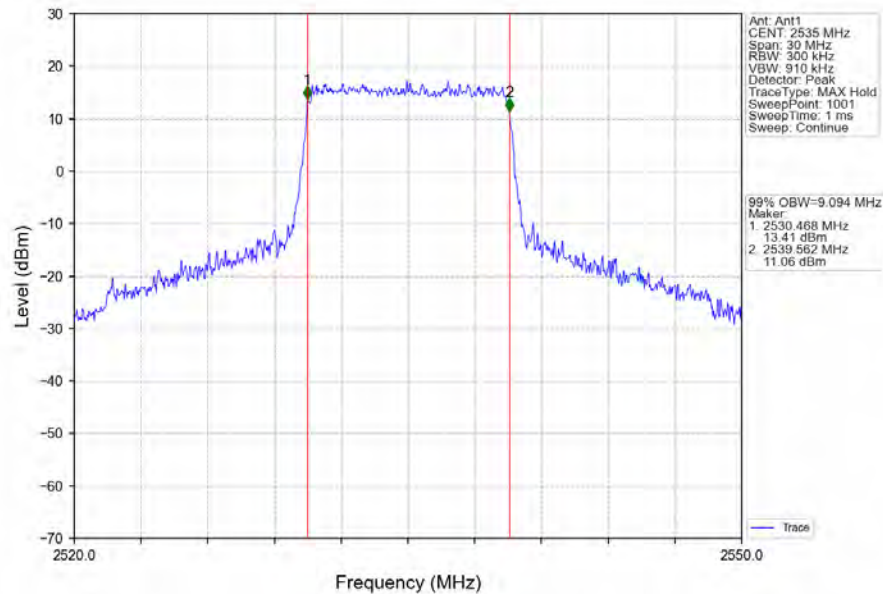


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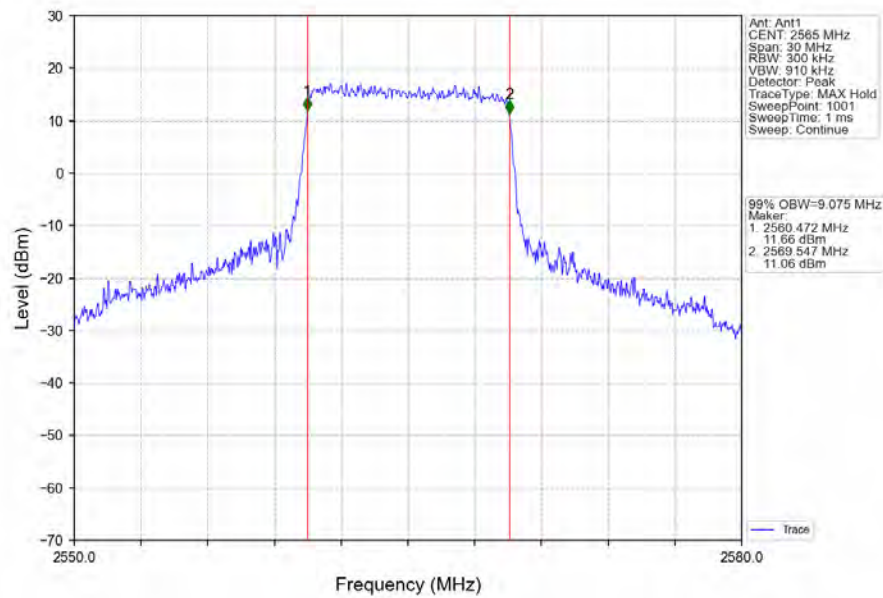
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Band7\_10MHz\_64QAM\_LCH\_2505MHz\_RB\_50\_0\_NTNV



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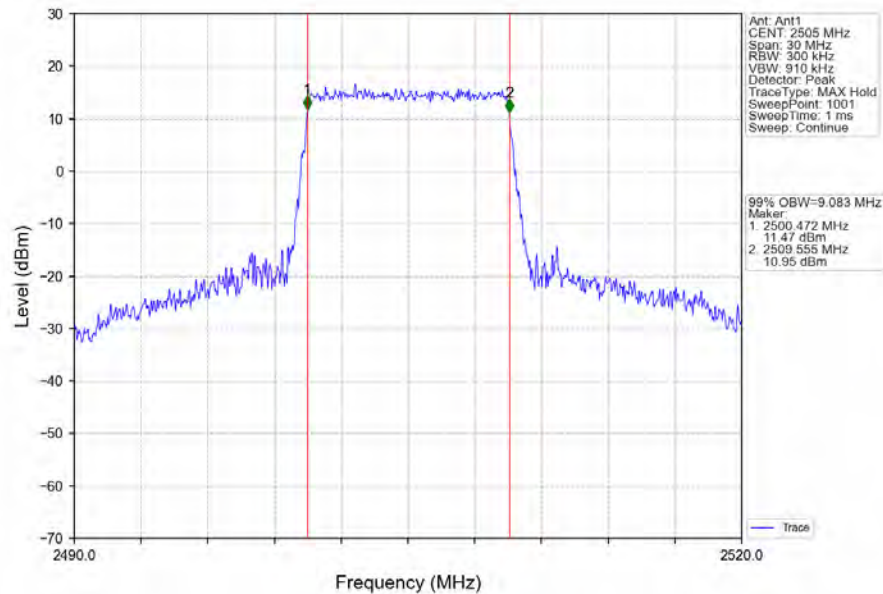


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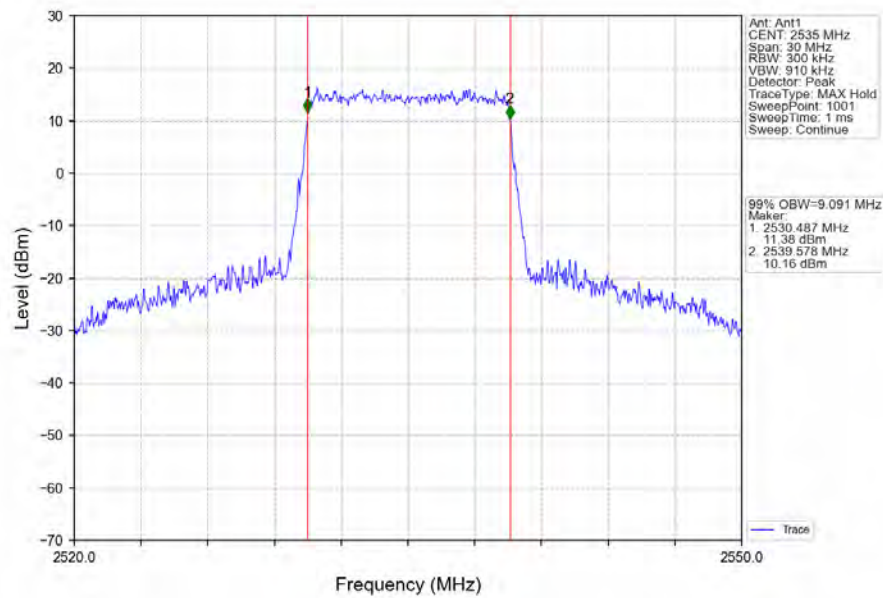
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Band7\_10MHz\_64QAM\_HCH\_2565MHz\_RB\_50\_0\_NTNV



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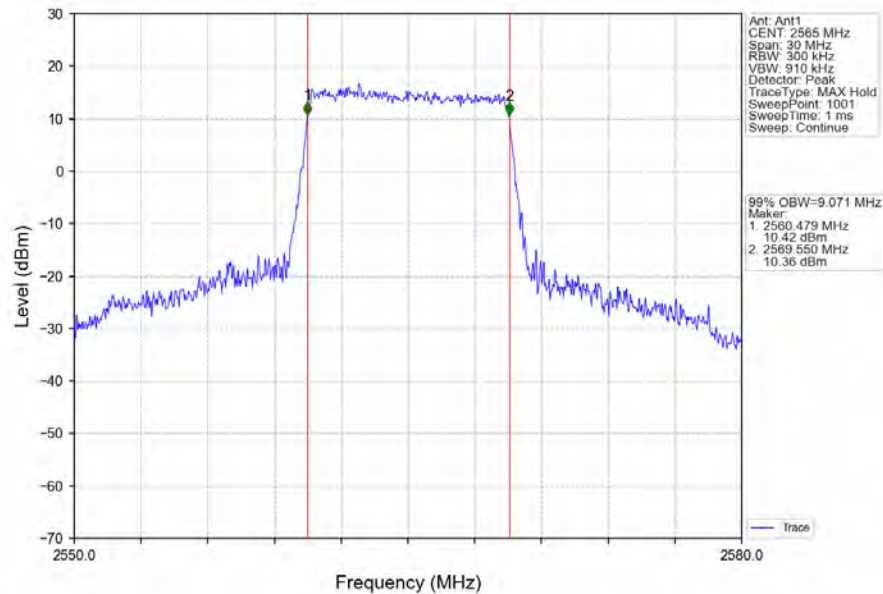


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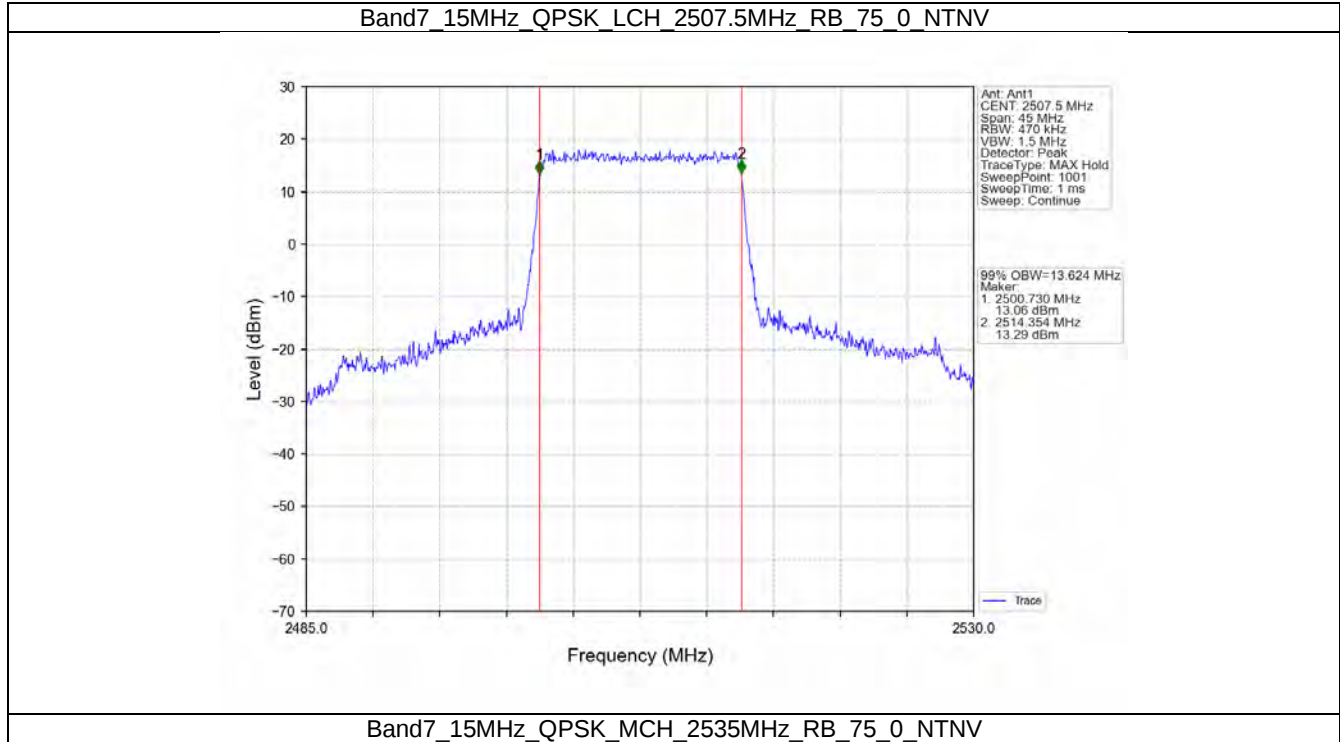


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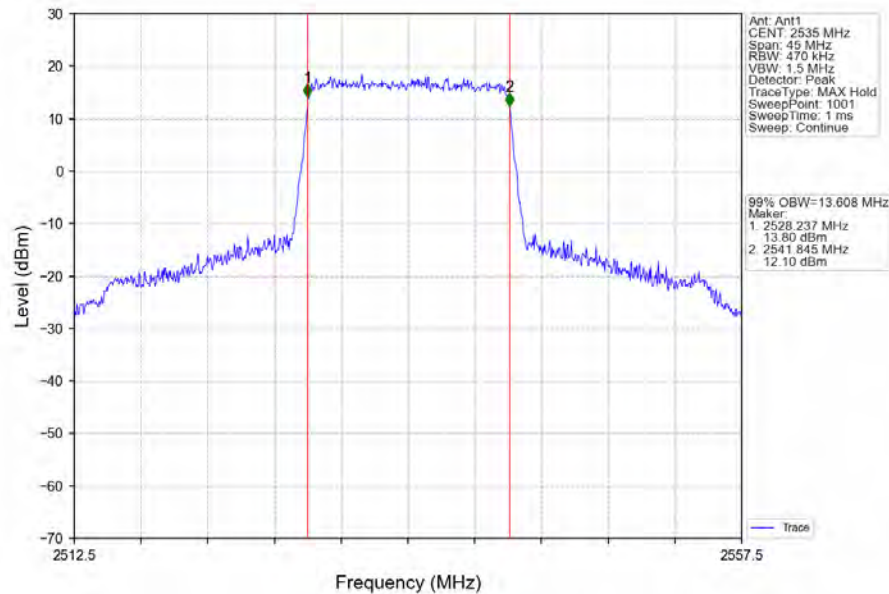


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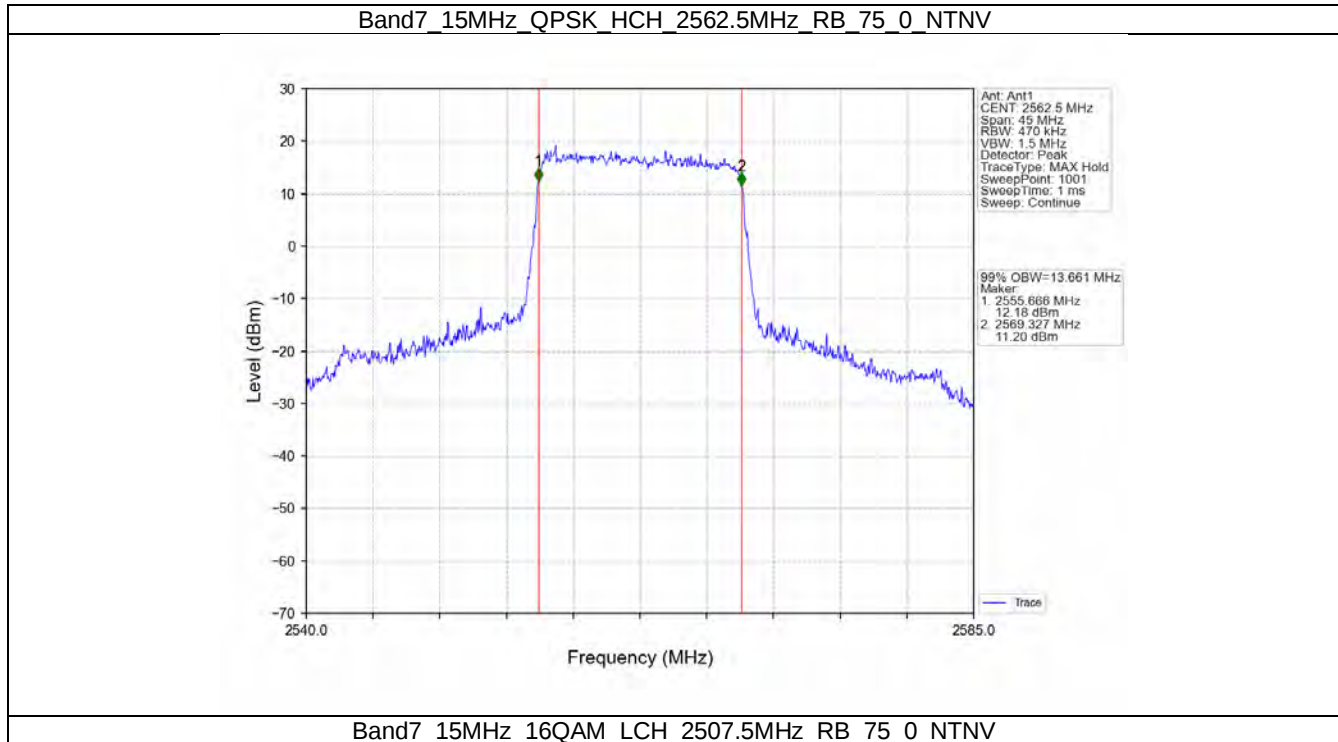


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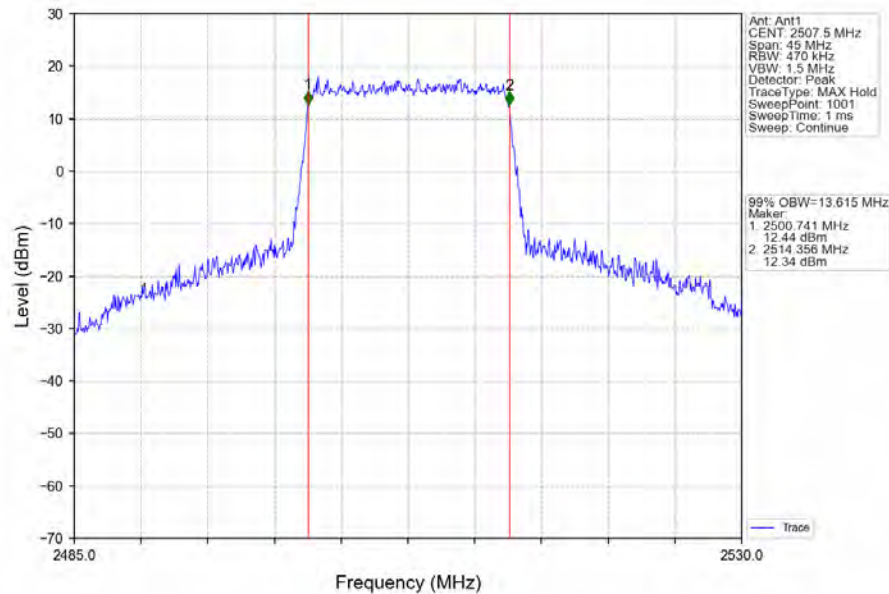


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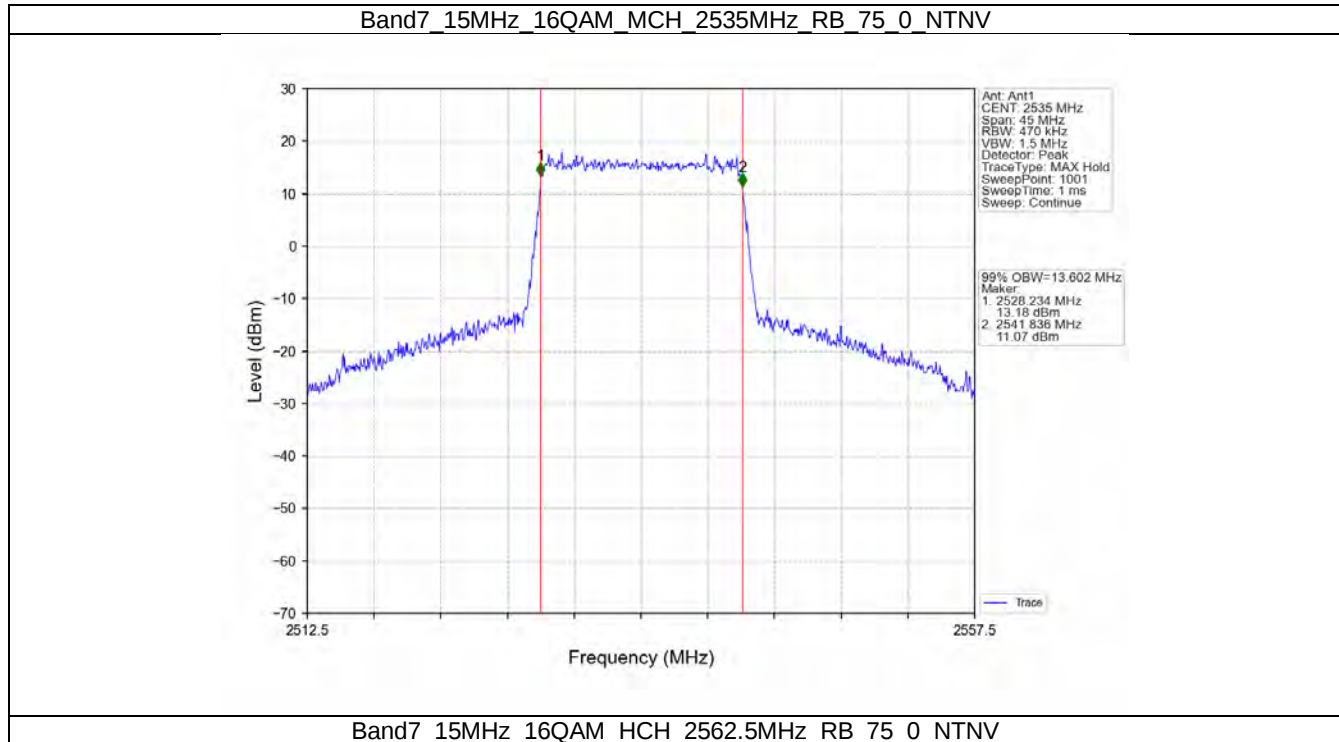


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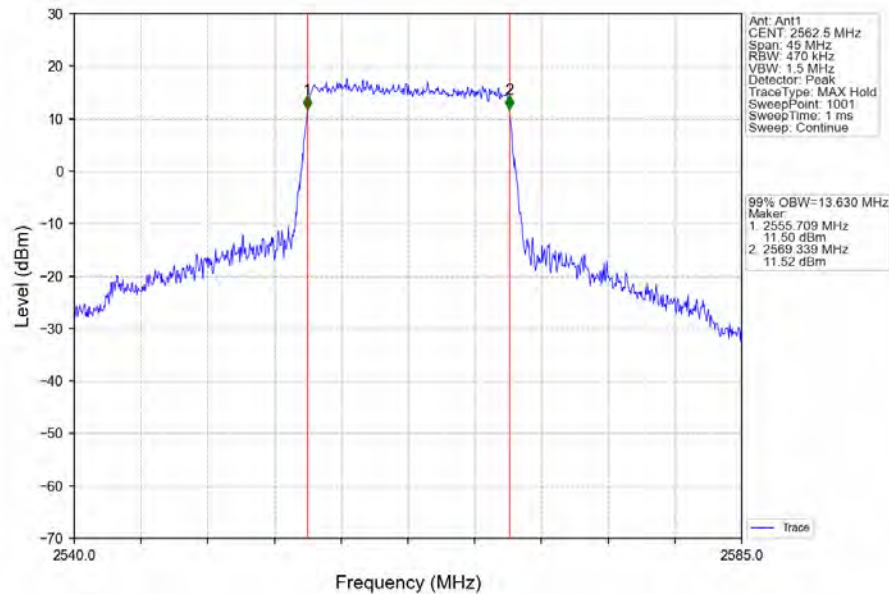


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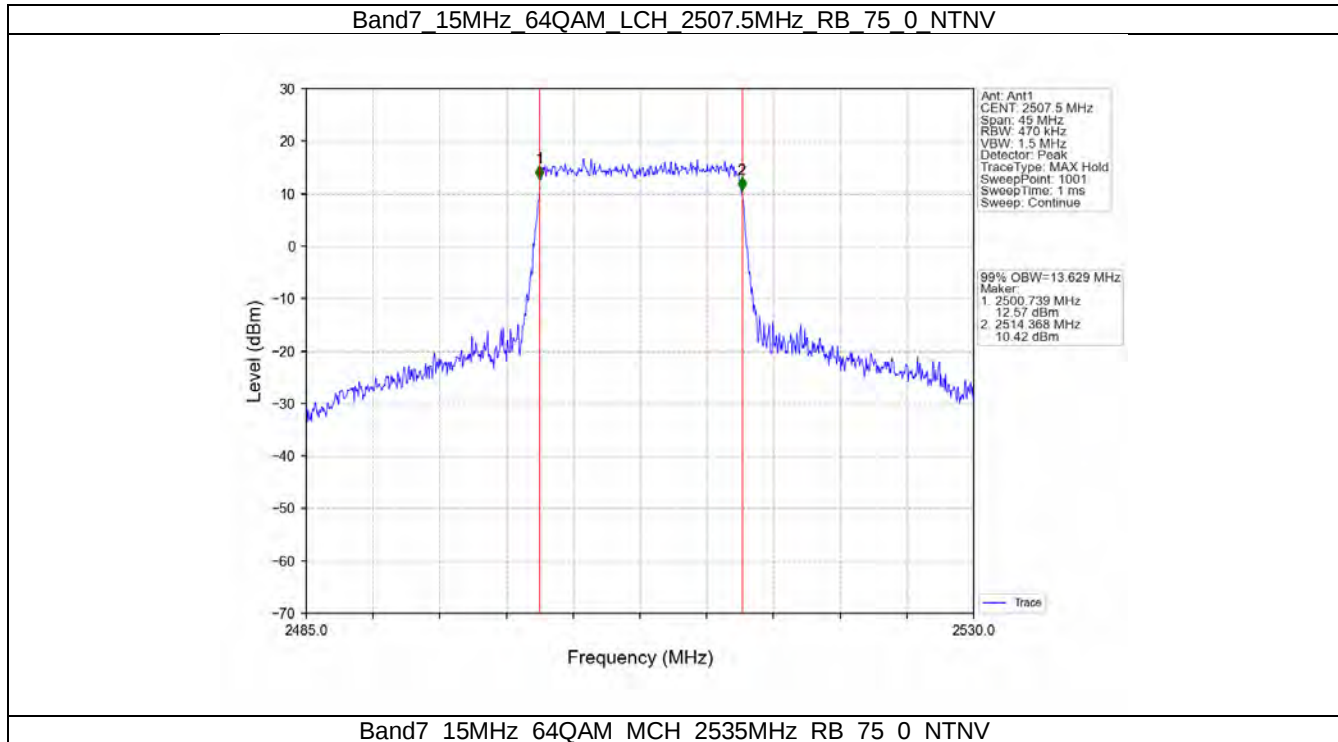


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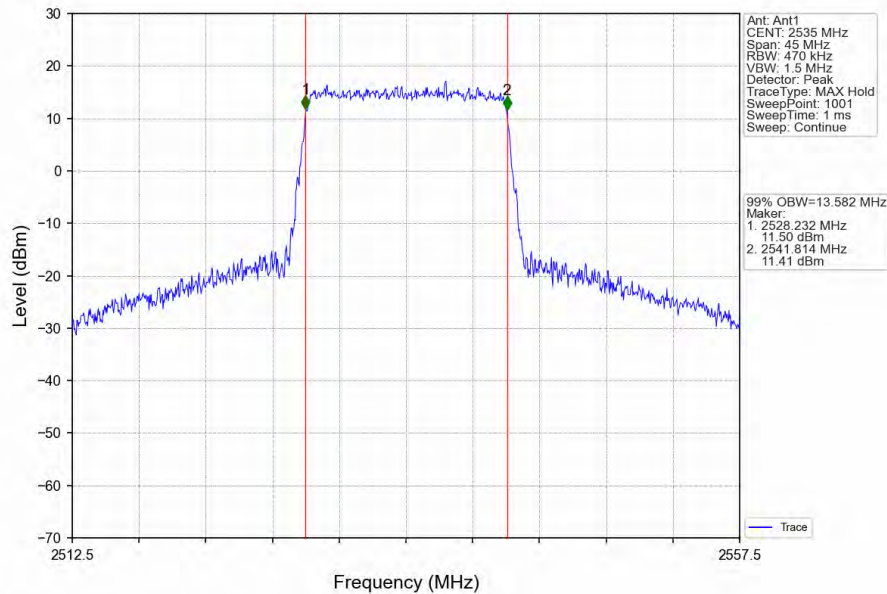


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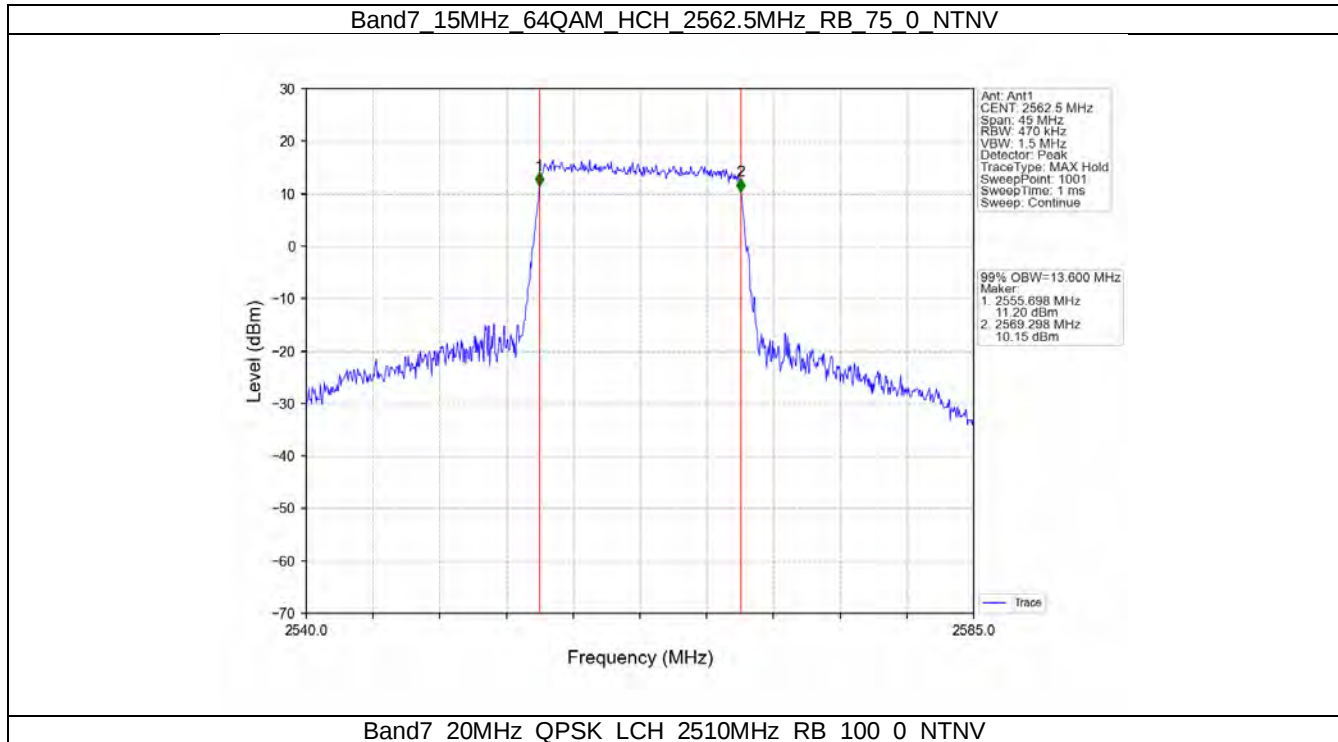


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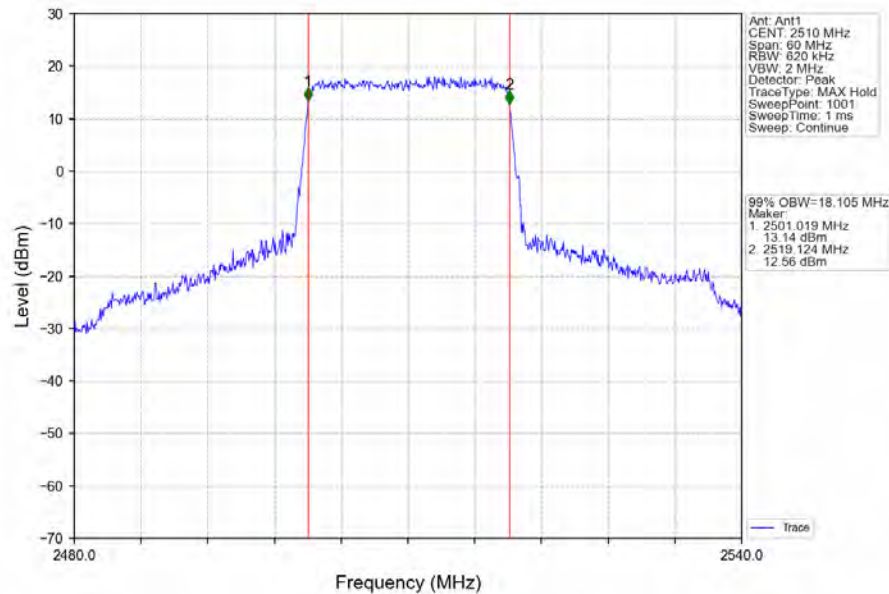


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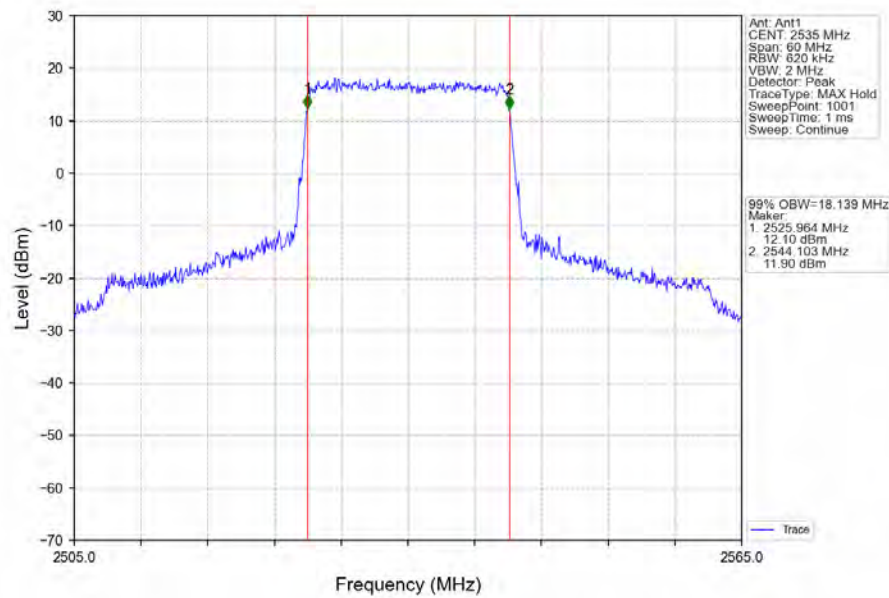
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Band7\_20MHz\_QPSK\_MCH\_2535MHz\_RB\_100\_0\_NTNV



Band7\_20MHz\_QPSK\_HCH\_2560MHz\_RB\_100\_0\_NTNV



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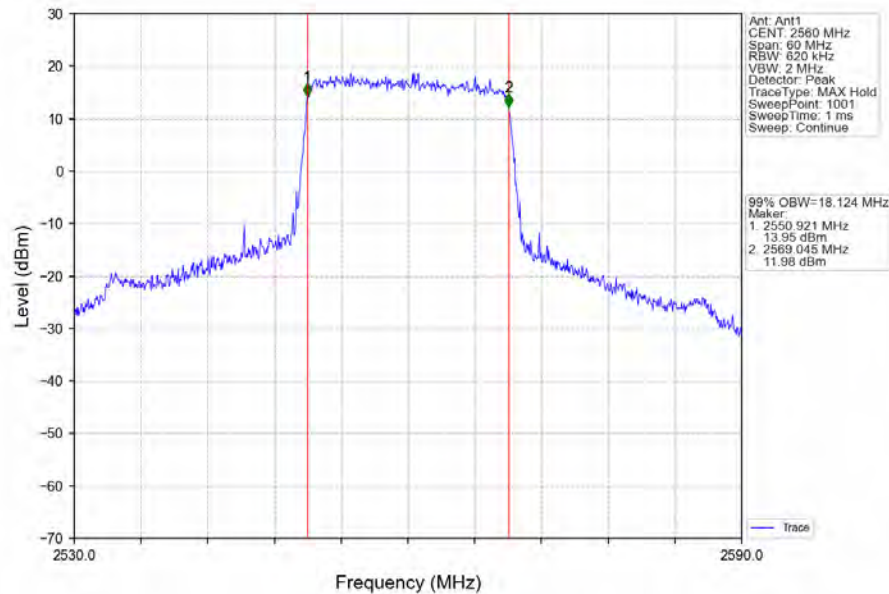


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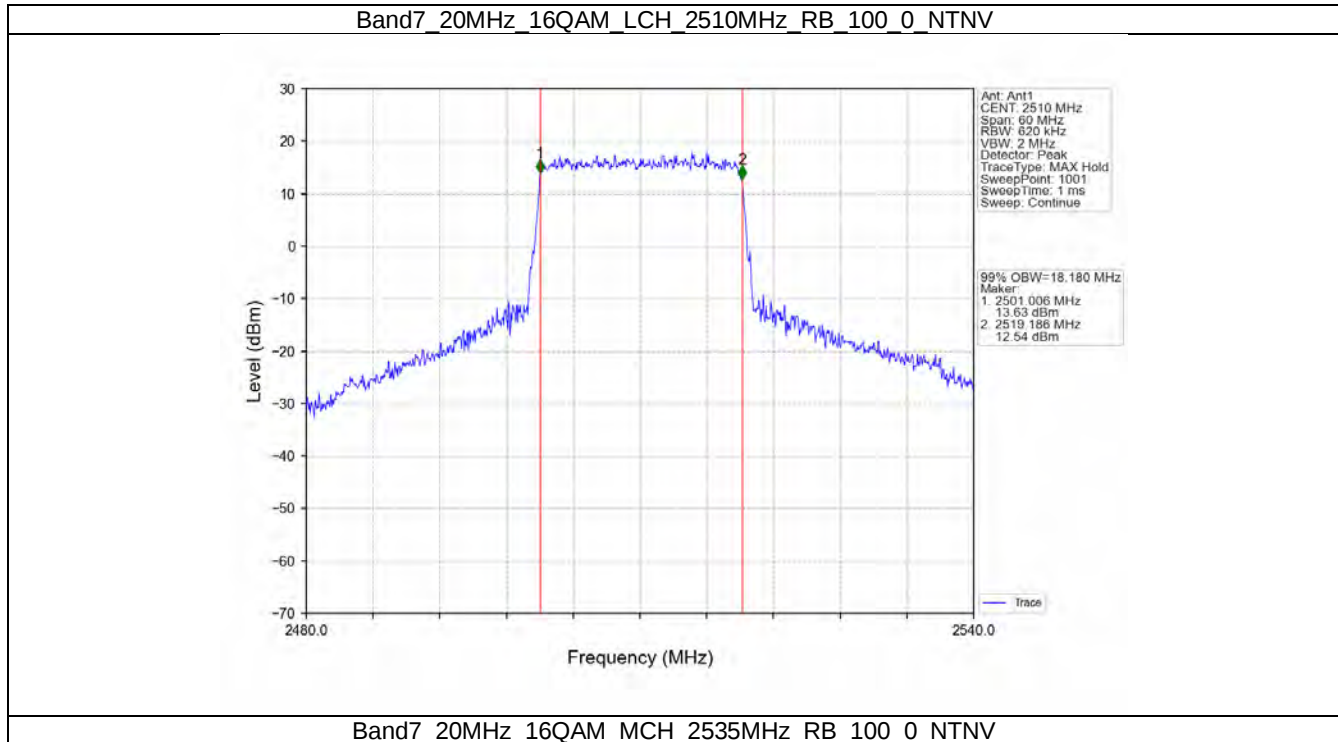


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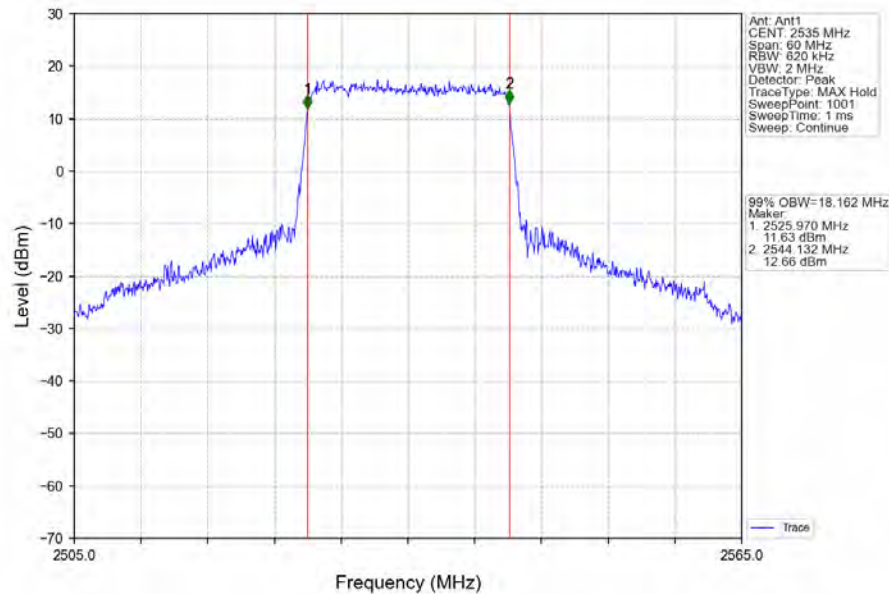


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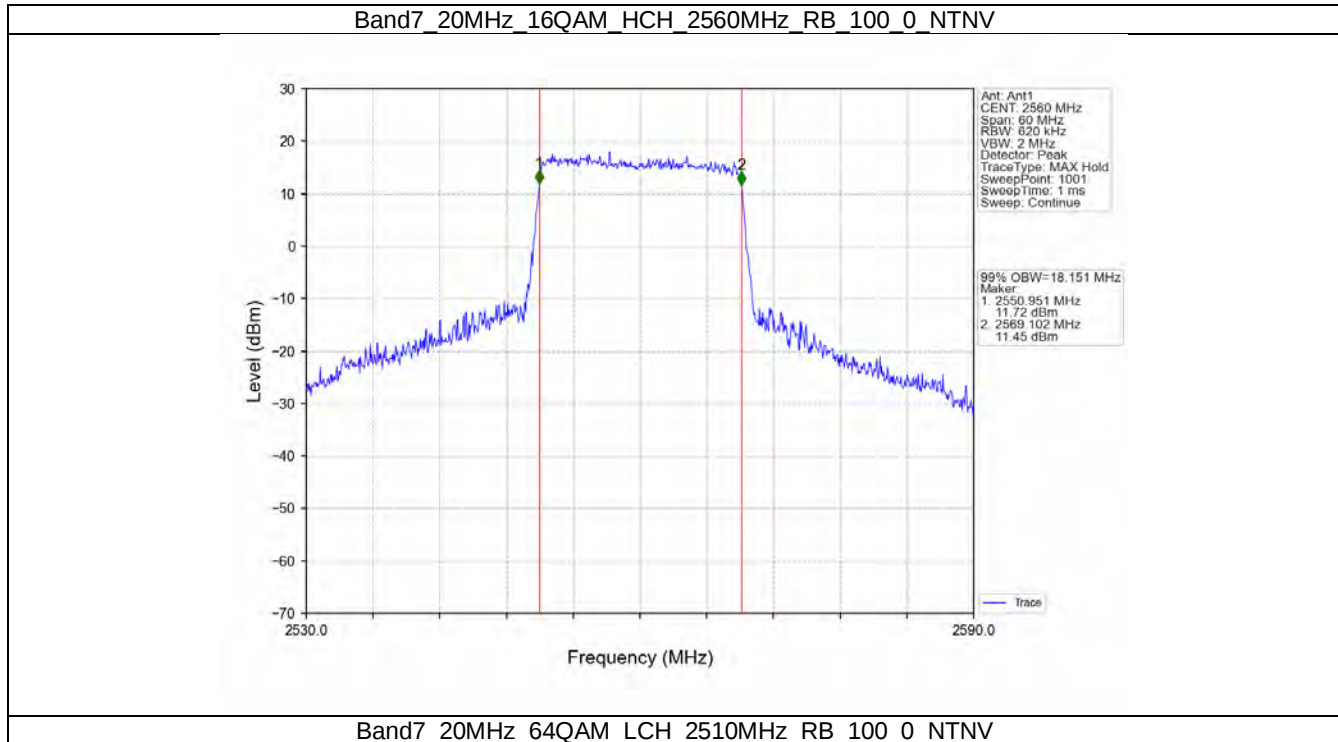


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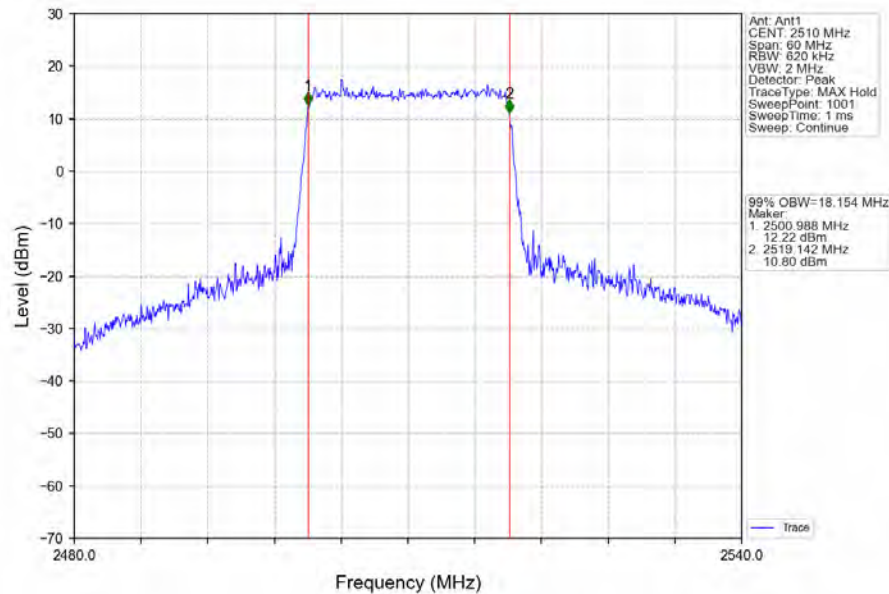


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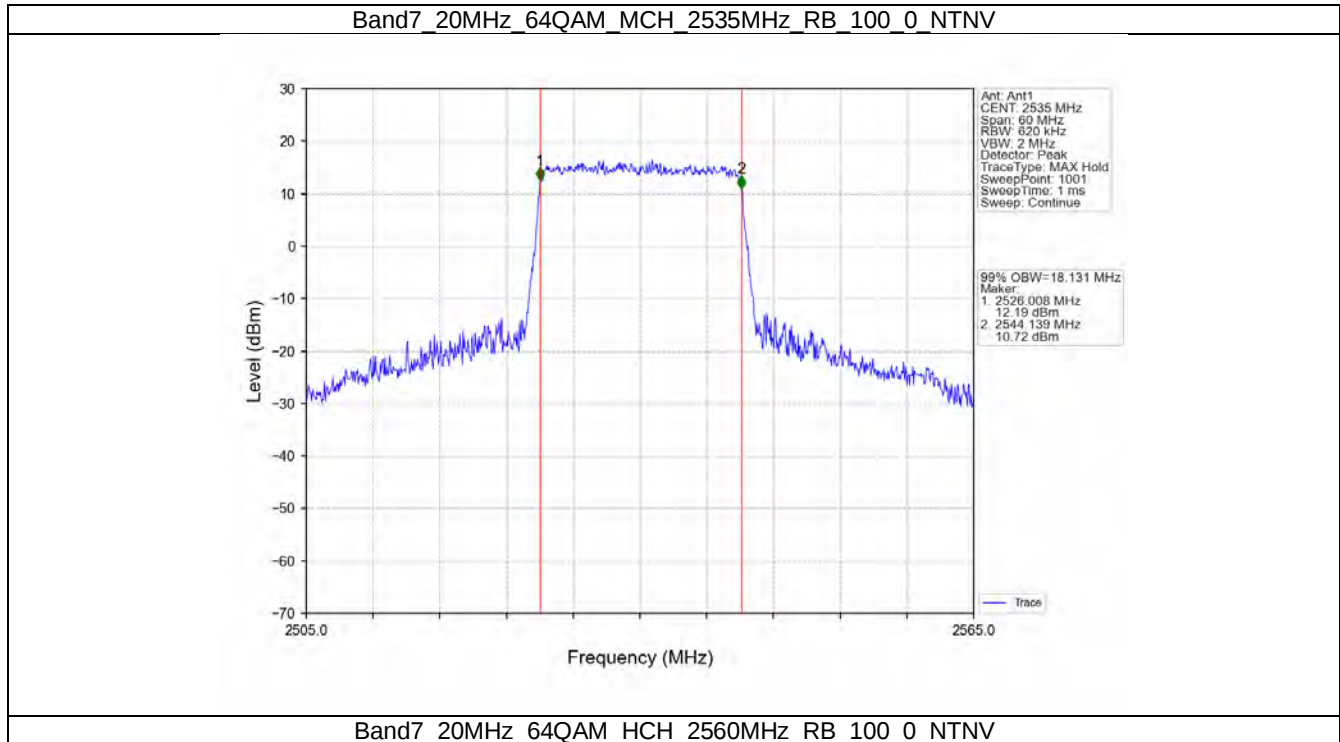


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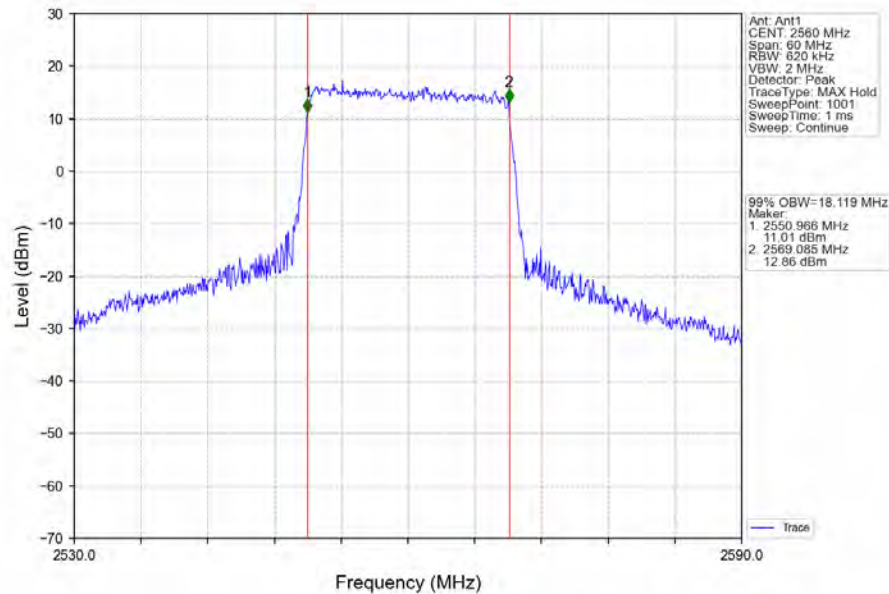


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## 3.2 Band7\_XDB

### 3.2.1 Test Result

| Band: 7 / NTNV  |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 5               | QPSK       | 2502.5          | 25            | 0      | 5.272                | /     | Pass    |
|                 |            | 2535            | 25            | 0      | 5.260                | /     | Pass    |
|                 |            | 2567.5          | 25            | 0      | 5.204                | /     | Pass    |
|                 | 16QAM      | 2502.5          | 25            | 0      | 5.217                | /     | Pass    |
|                 |            | 2535            | 25            | 0      | 5.260                | /     | Pass    |
|                 |            | 2567.5          | 25            | 0      | 5.258                | /     | Pass    |
|                 | 64QAM      | 2502.5          | 25            | 0      | 5.240                | /     | Pass    |
|                 |            | 2535            | 25            | 0      | 5.258                | /     | Pass    |
|                 |            | 2567.5          | 25            | 0      | 5.238                | /     | Pass    |
| 10              | QPSK       | 2505            | 50            | 0      | 10.196               | /     | Pass    |
|                 |            | 2535            | 50            | 0      | 10.218               | /     | Pass    |
|                 |            | 2565            | 50            | 0      | 10.189               | /     | Pass    |
|                 | 16QAM      | 2505            | 50            | 0      | 10.166               | /     | Pass    |
|                 |            | 2535            | 50            | 0      | 10.197               | /     | Pass    |
|                 |            | 2565            | 50            | 0      | 10.225               | /     | Pass    |
|                 | 64QAM      | 2505            | 50            | 0      | 10.208               | /     | Pass    |
|                 |            | 2535            | 50            | 0      | 10.174               | /     | Pass    |
|                 |            | 2565            | 50            | 0      | 10.181               | /     | Pass    |
| 15              | QPSK       | 2507.5          | 75            | 0      | 15.292               | /     | Pass    |
|                 |            | 2535            | 75            | 0      | 15.137               | /     | Pass    |
|                 |            | 2562.5          | 75            | 0      | 15.097               | /     | Pass    |
|                 | 16QAM      | 2507.5          | 75            | 0      | 15.264               | /     | Pass    |
|                 |            | 2535            | 75            | 0      | 15.137               | /     | Pass    |
|                 |            | 2562.5          | 75            | 0      | 15.187               | /     | Pass    |
|                 | 64QAM      | 2507.5          | 75            | 0      | 15.254               | /     | Pass    |
|                 |            | 2535            | 75            | 0      | 15.020               | /     | Pass    |
|                 |            | 2562.5          | 75            | 0      | 15.111               | /     | Pass    |
| 20              | QPSK       | 2510            | 100           | 0      | 20.162               | /     | Pass    |
|                 |            | 2535            | 100           | 0      | 20.039               | /     | Pass    |
|                 |            | 2560            | 100           | 0      | 20.169               | /     | Pass    |
|                 | 16QAM      | 2510            | 100           | 0      | 20.024               | /     | Pass    |
|                 |            | 2535            | 100           | 0      | 20.089               | /     | Pass    |
|                 |            | 2560            | 100           | 0      | 20.141               | /     | Pass    |
|                 | 64QAM      | 2510            | 100           | 0      | 20.073               | /     | Pass    |
|                 |            | 2535            | 100           | 0      | 20.123               | /     | Pass    |
|                 |            | 2560            | 100           | 0      | 20.052               | /     | Pass    |



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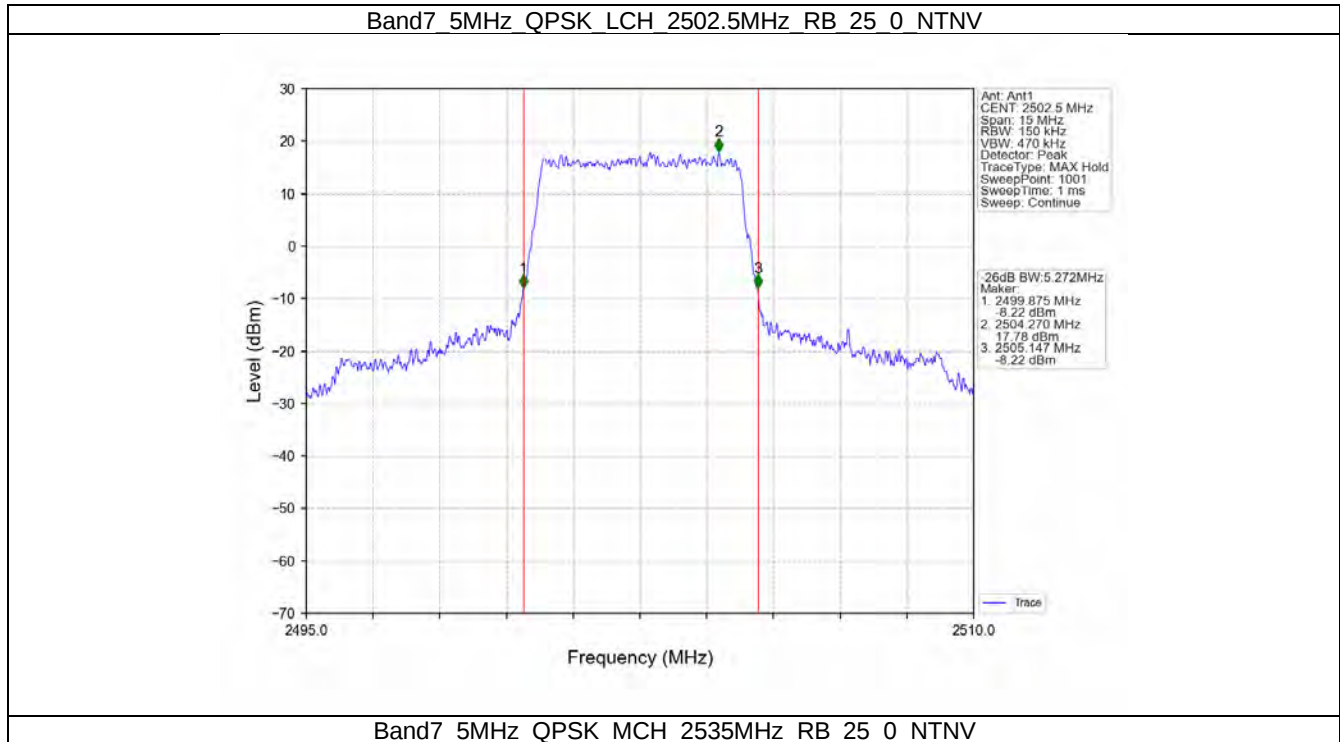
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## 3.2.2 Test Graph



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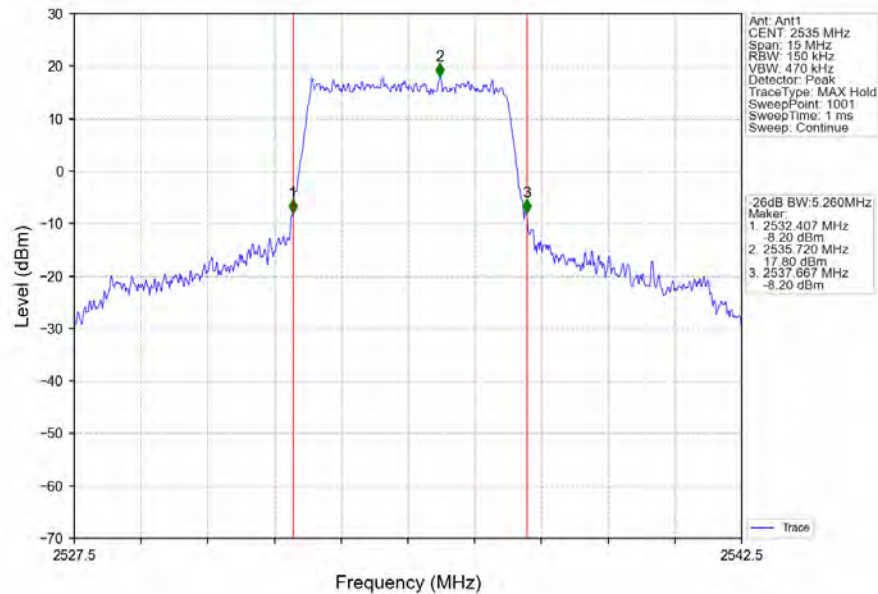


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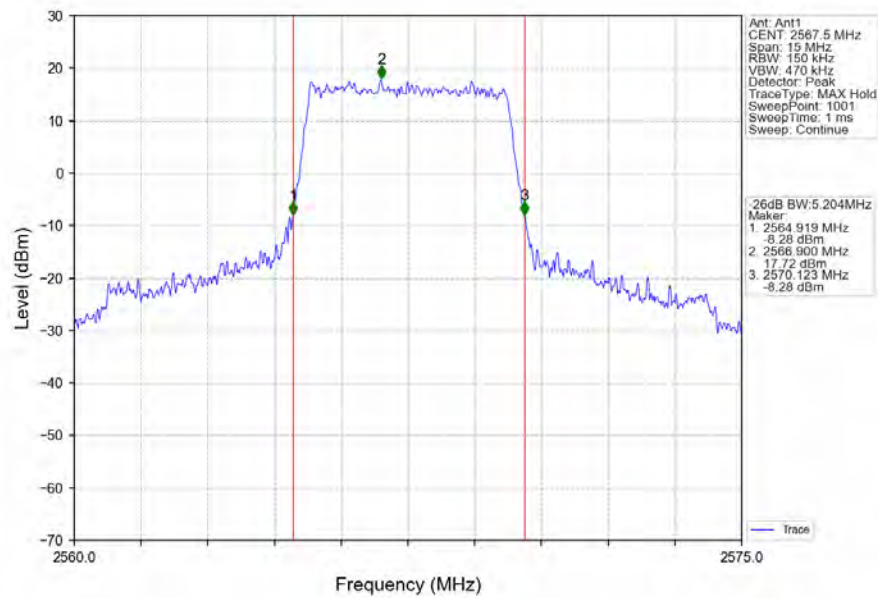
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Band7\_5MHz\_QPSK\_HCH\_2567.5MHz\_RB\_25\_0\_NTNV



Band7\_5MHz\_16QAM\_LCH\_2502.5MHz\_RB\_25\_0\_NTNV



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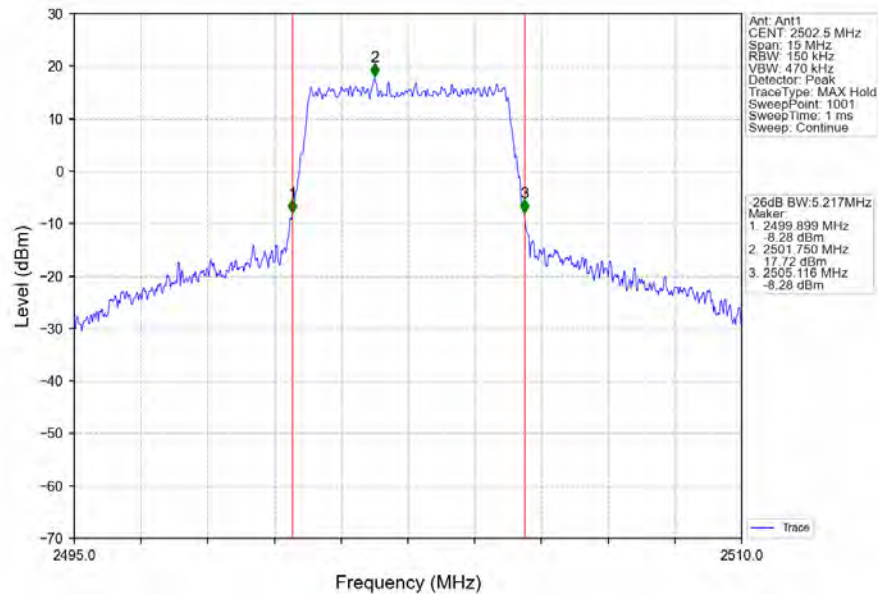


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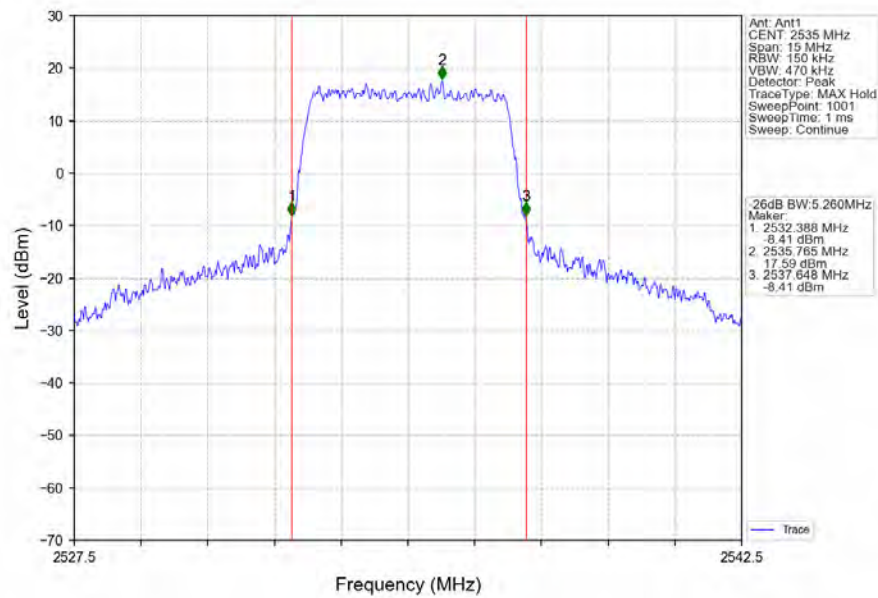
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Band7\_5MHz\_16QAM\_HCH\_2567.5MHz\_RB\_25\_0\_NTNV



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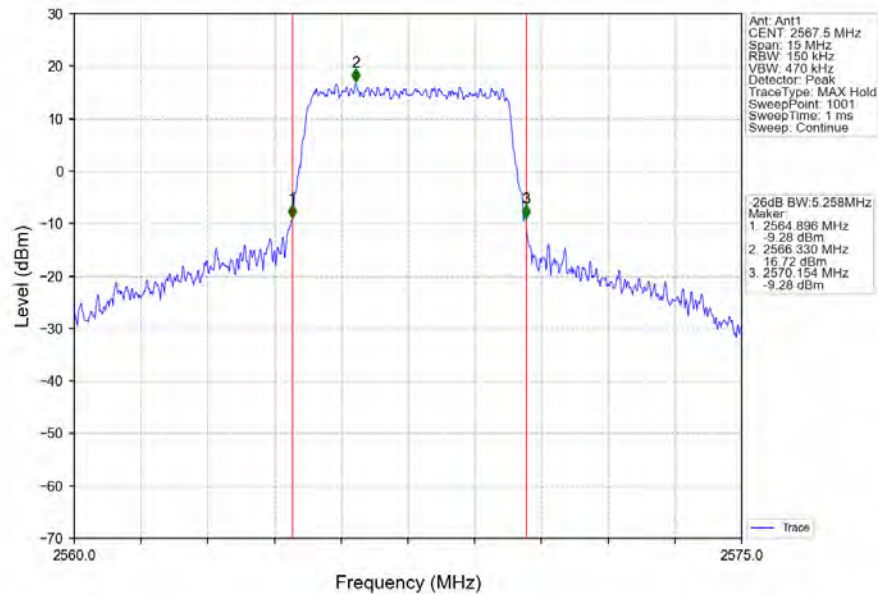


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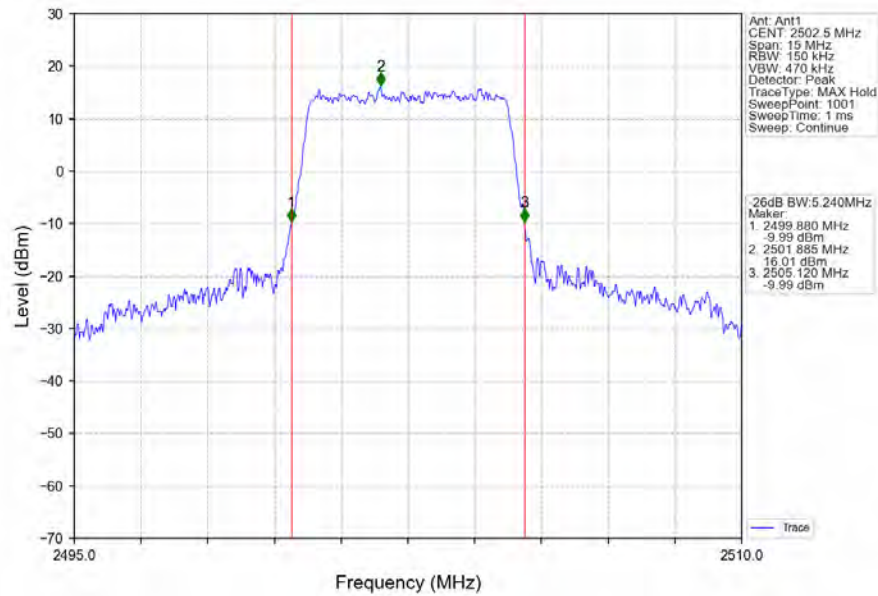
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Band7\_5MHz\_64QAM\_MCH\_2535MHz\_RB\_25\_0\_NTNV



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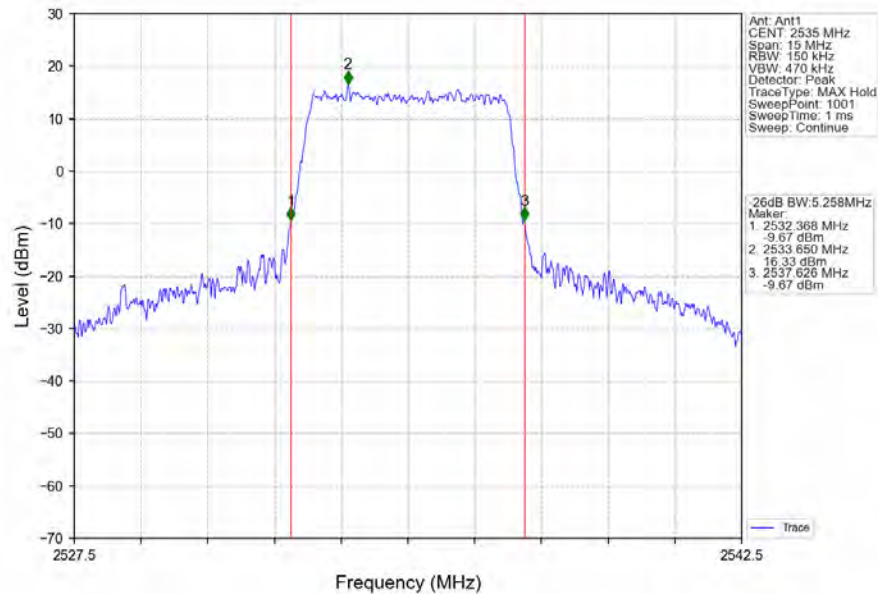


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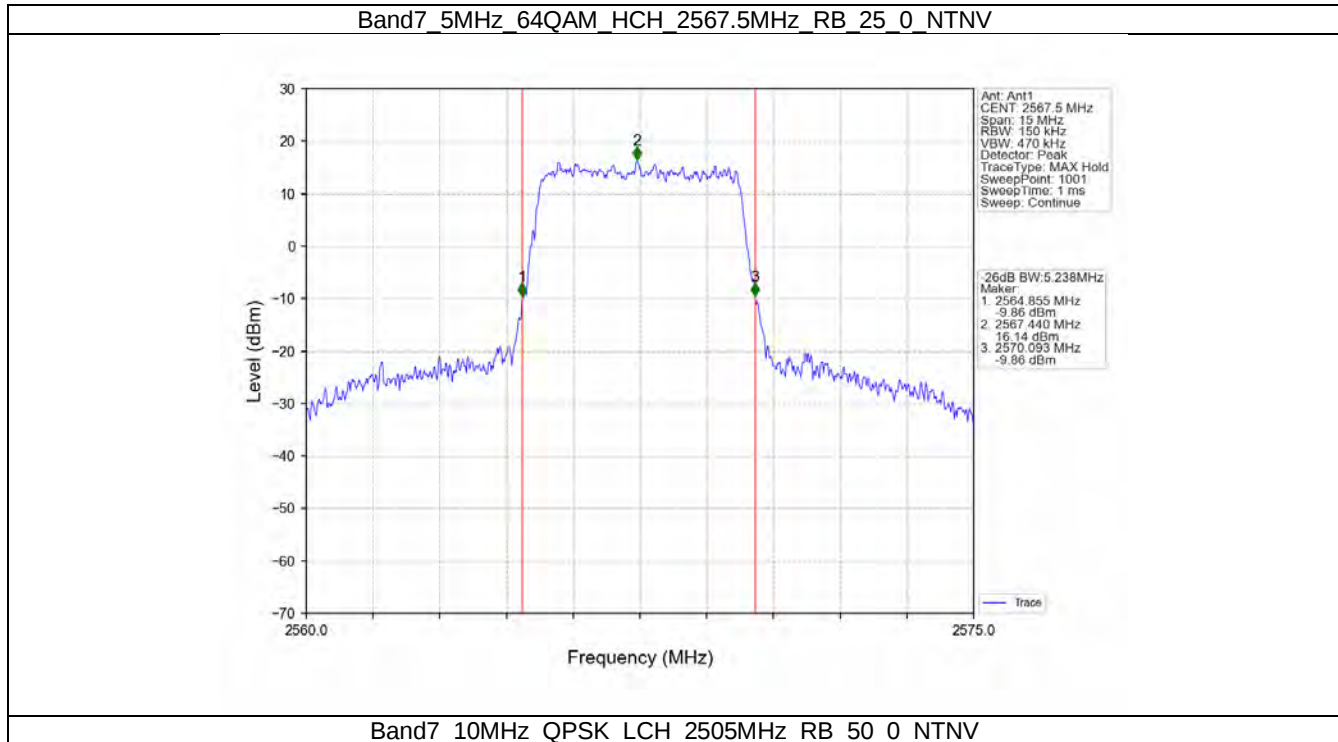


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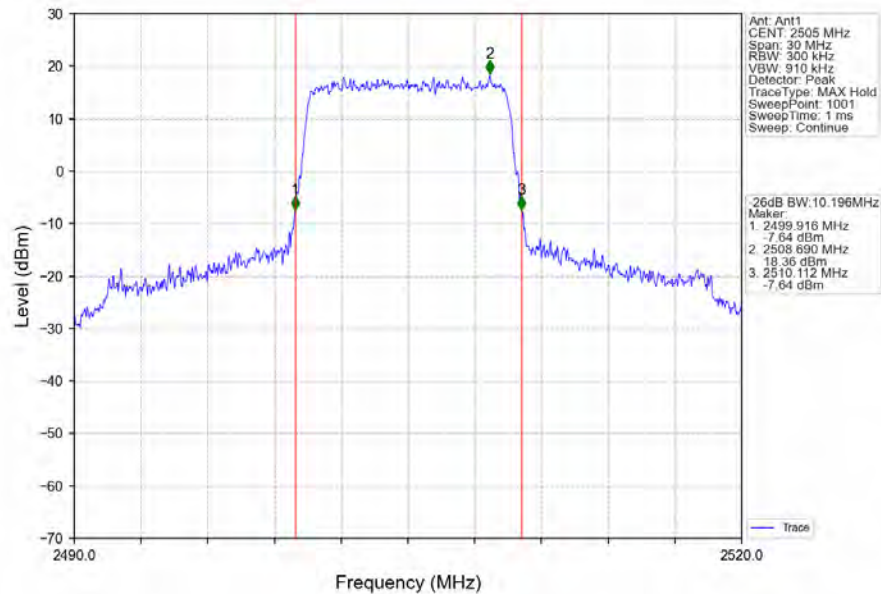


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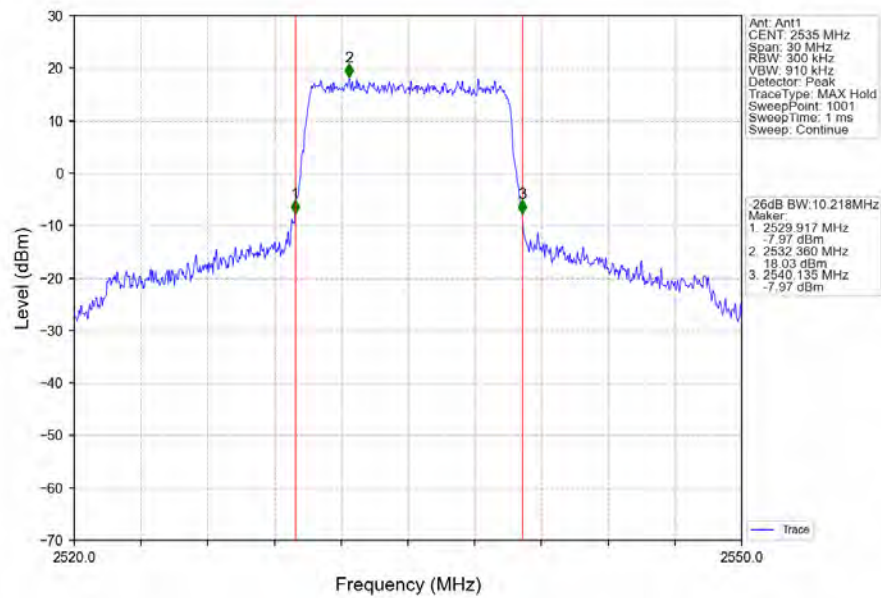
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Band7\_10MHz\_QPSK\_MCH\_2535MHz\_RB\_50\_0\_NTNV



Band7\_10MHz\_QPSK\_HCH\_2565MHz\_RB\_50\_0\_NTNV



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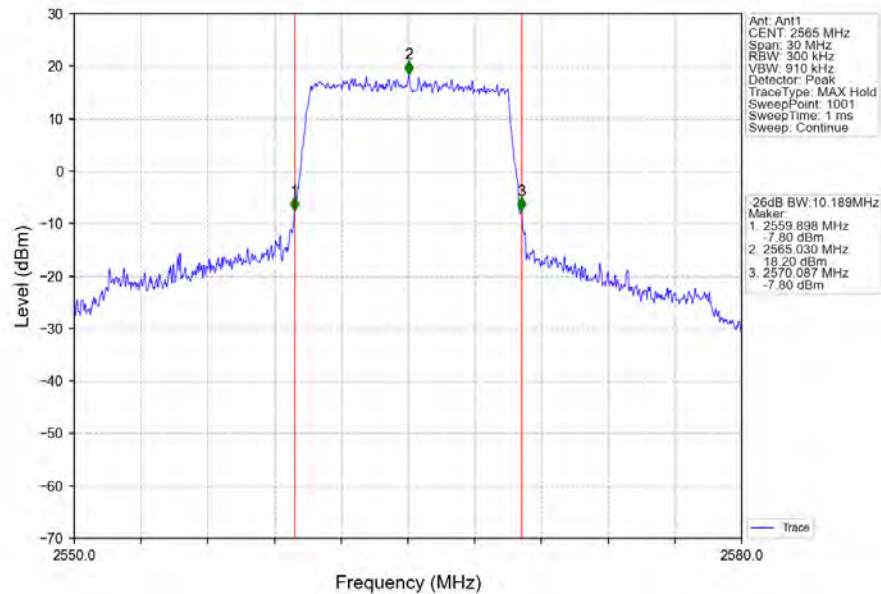


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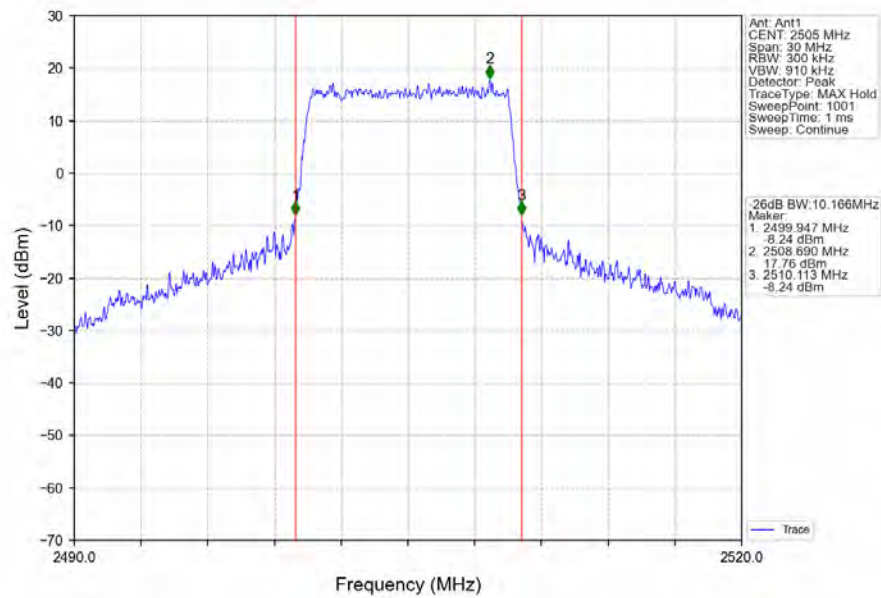
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Band7\_10MHz\_16QAM\_LCH\_2505MHz\_RB\_50\_0\_NTNV



Band7\_10MHz\_16QAM\_MCH\_2535MHz\_RB\_50\_0\_NTNV



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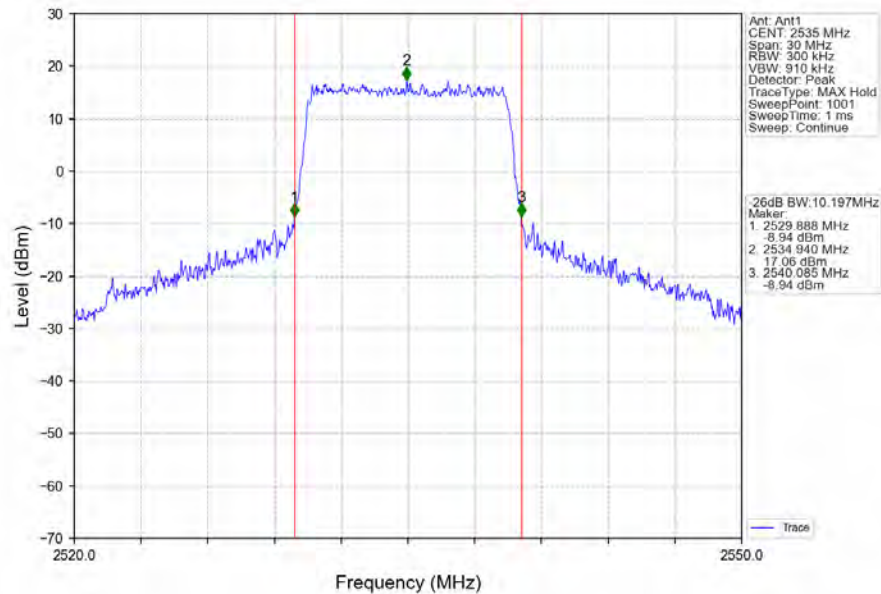


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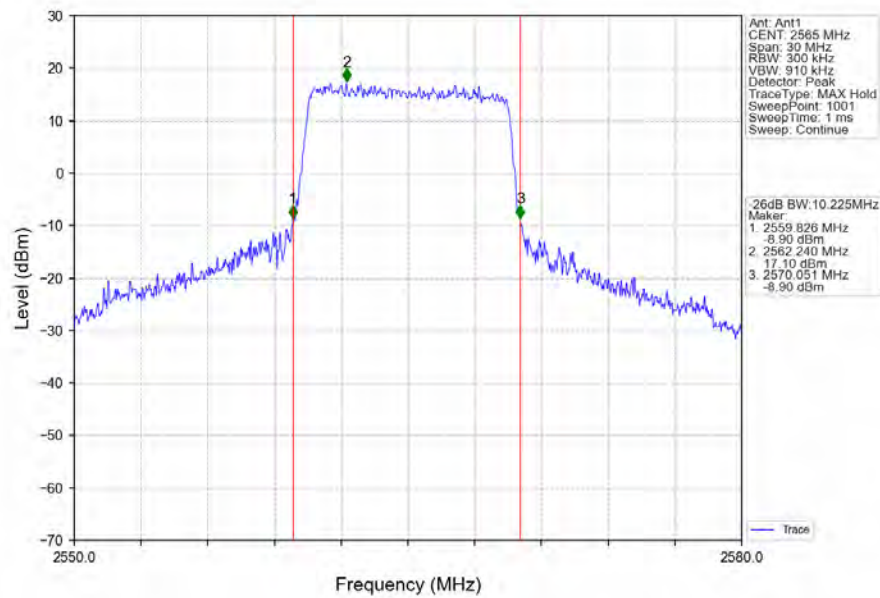
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Band7\_10MHz\_64QAM\_LCH\_2505MHz\_RB\_50\_0\_NTNV



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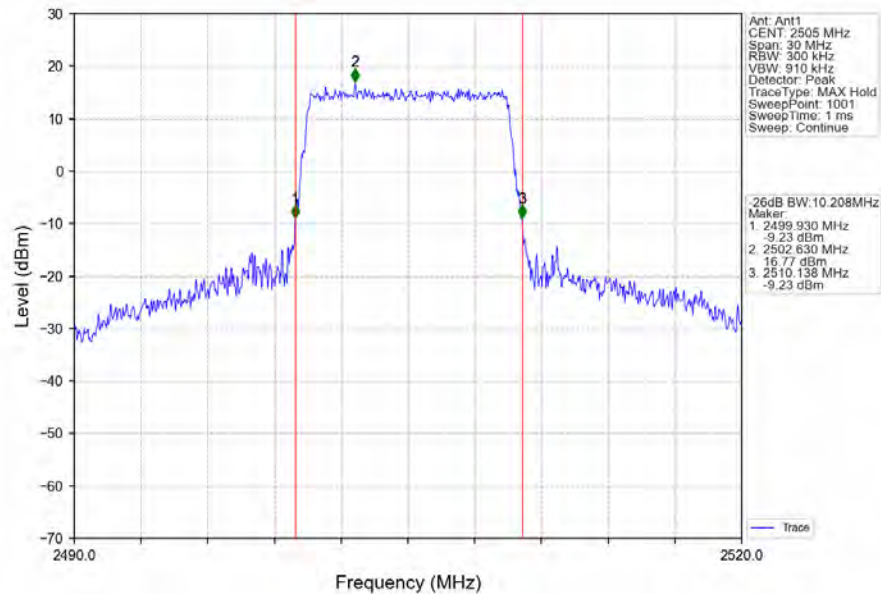


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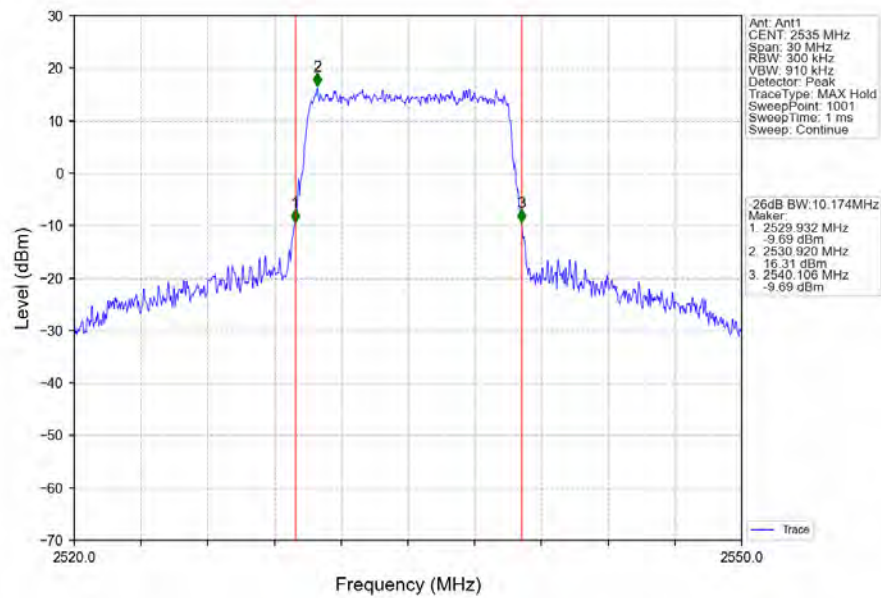
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Band7\_10MHz\_64QAM\_MCH\_2535MHz\_RB\_50\_0\_NTNV



Band7\_10MHz\_64QAM\_HCH\_2565MHz\_RB\_50\_0\_NTNV



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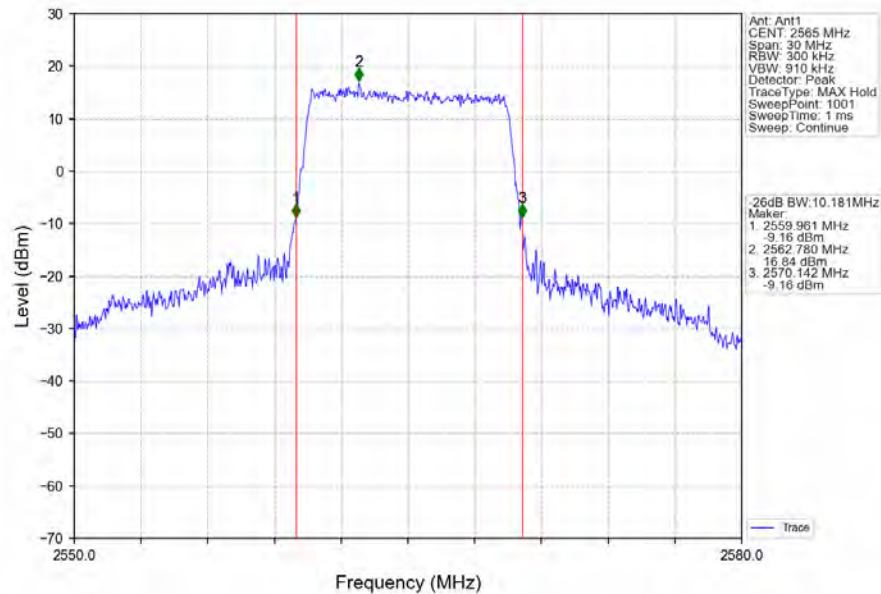


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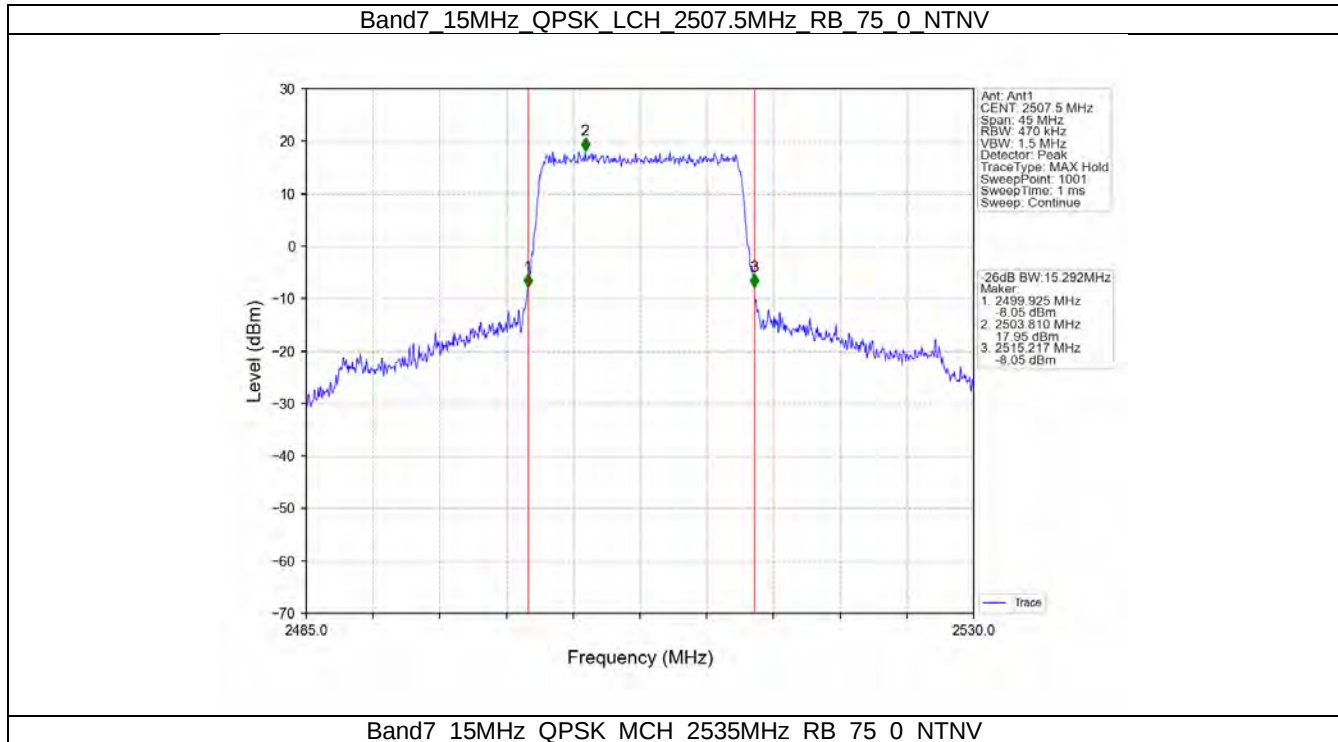


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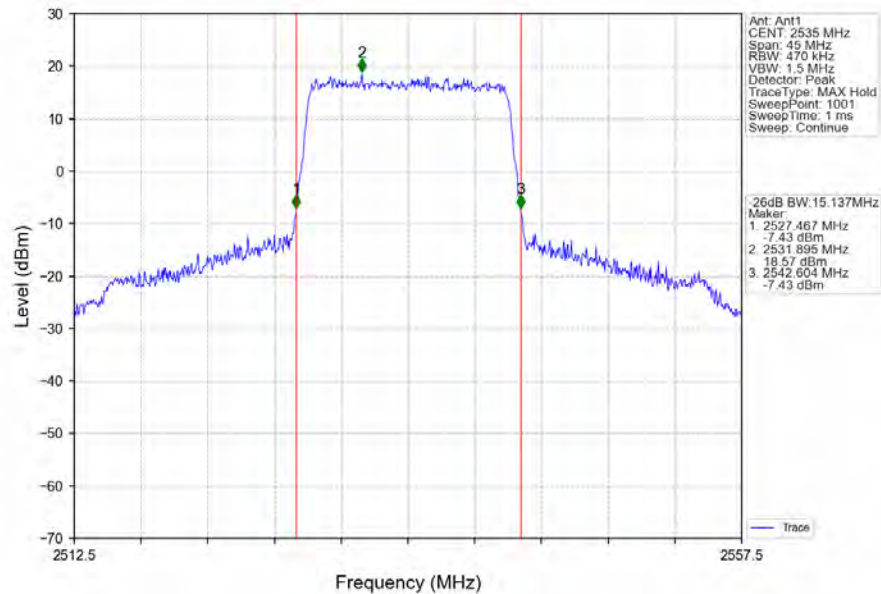


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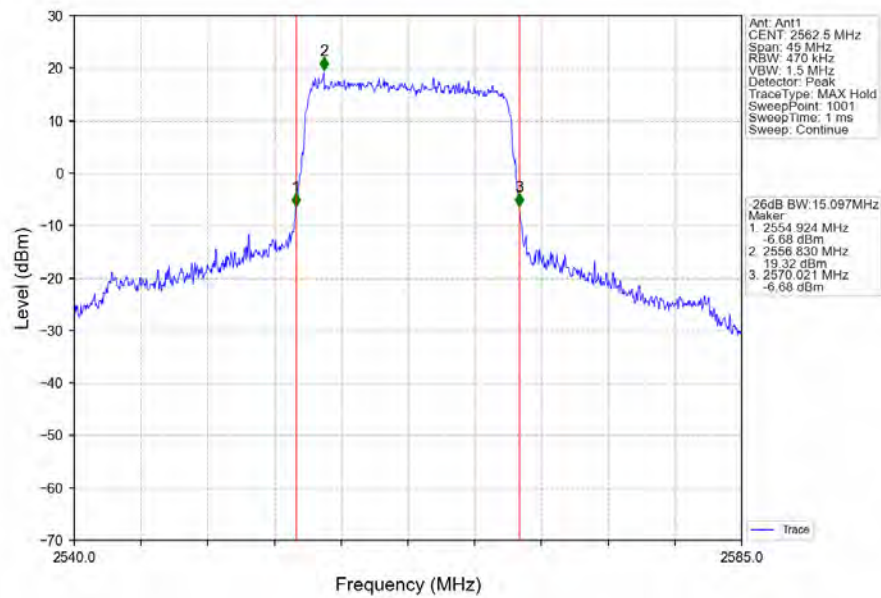
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Band7\_15MHz\_QPSK\_HCH\_2562.5MHz\_RB\_75\_0\_NTNV



Band7\_15MHz\_16QAM\_LCH\_2507.5MHz\_RB\_75\_0\_NTNV



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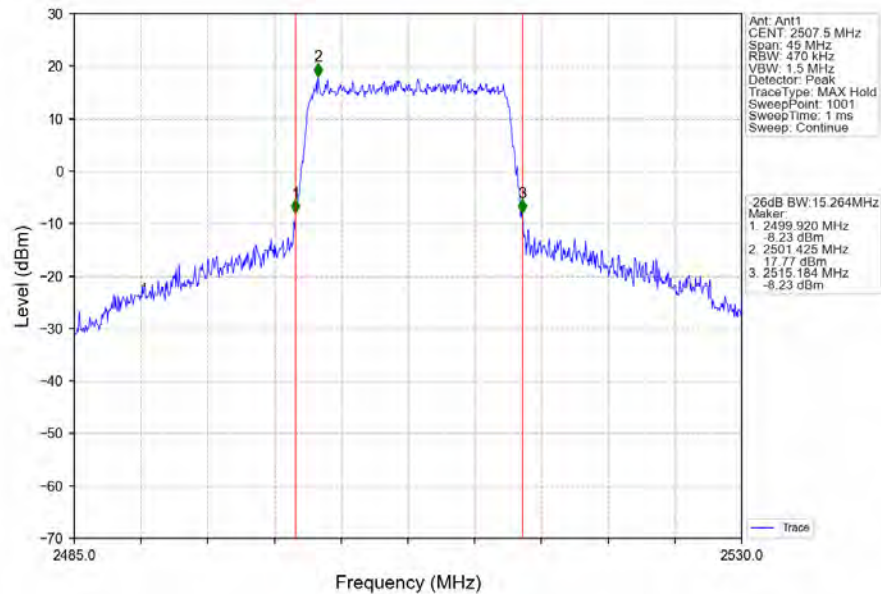


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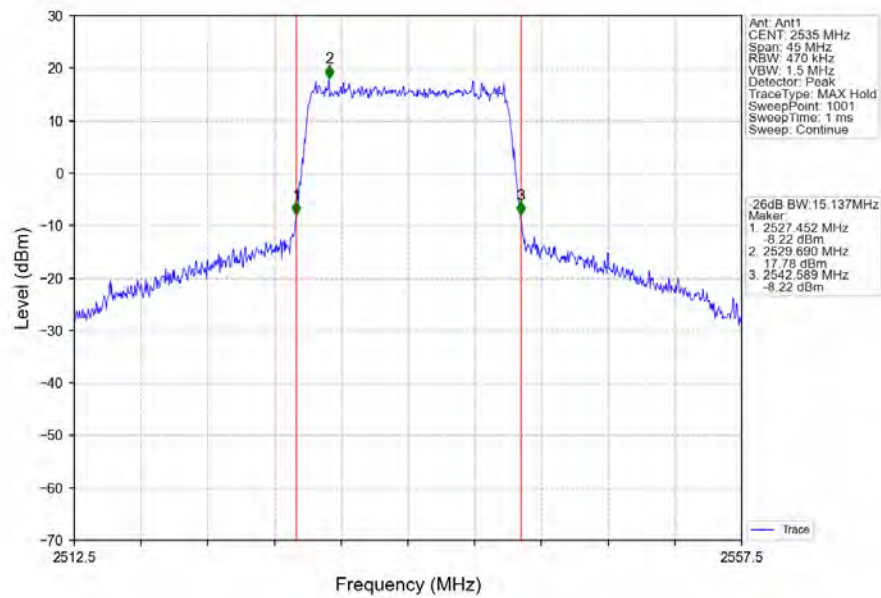
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Band7\_15MHz\_16QAM\_HCH\_2562.5MHz\_RB\_75\_0\_NTNV



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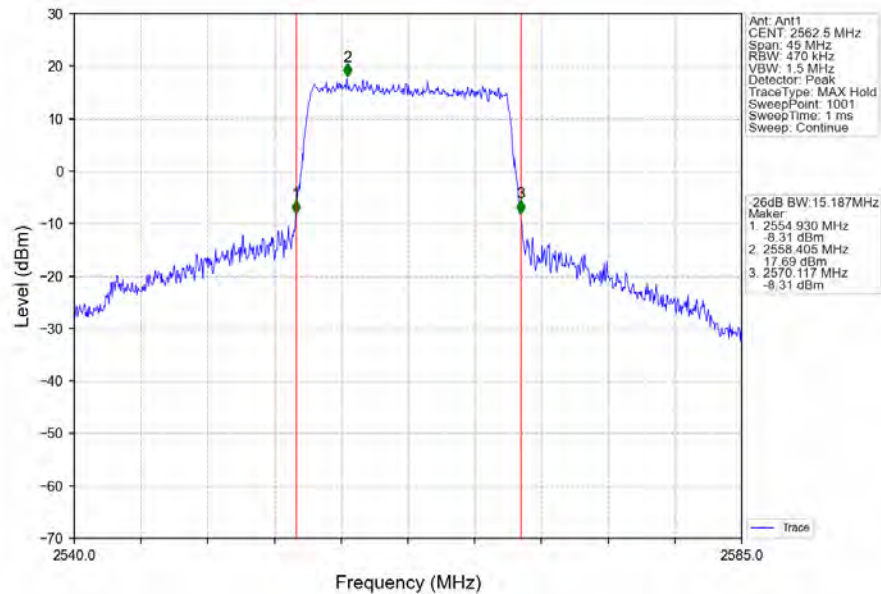


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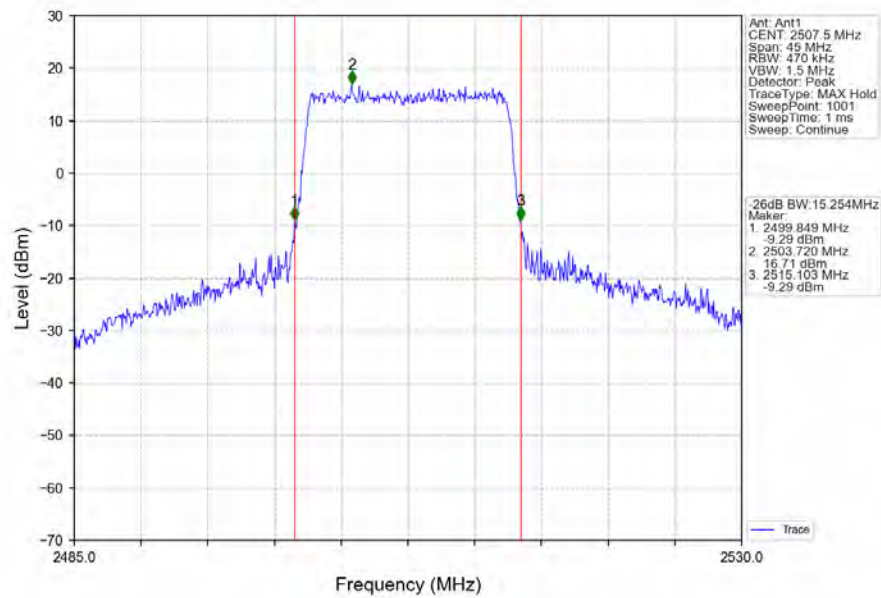
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Band7 15MHz 64QAM LCH 2507.5MHz RB 75 0 NTNV



Band7 15MHz 64QAM MCH 2535MHz RB 75 0 NTNV



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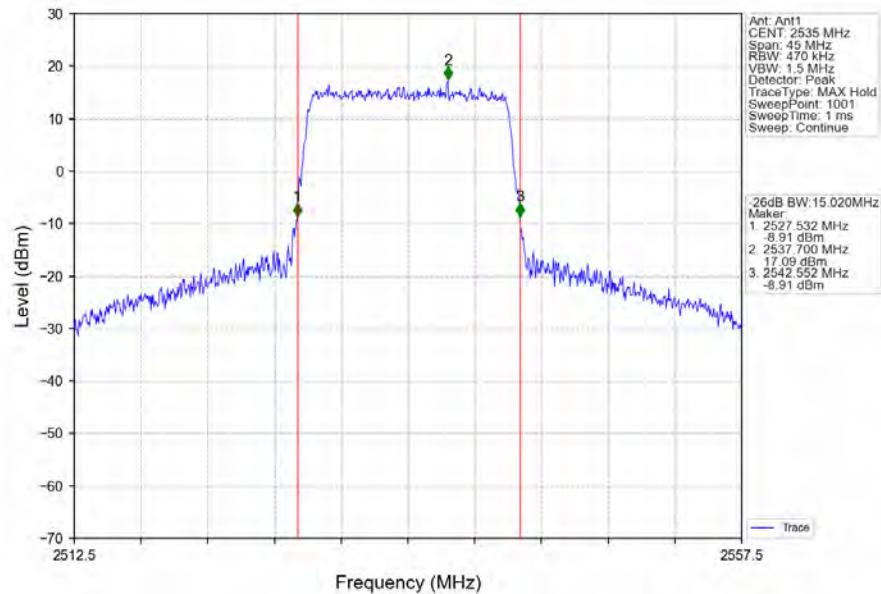


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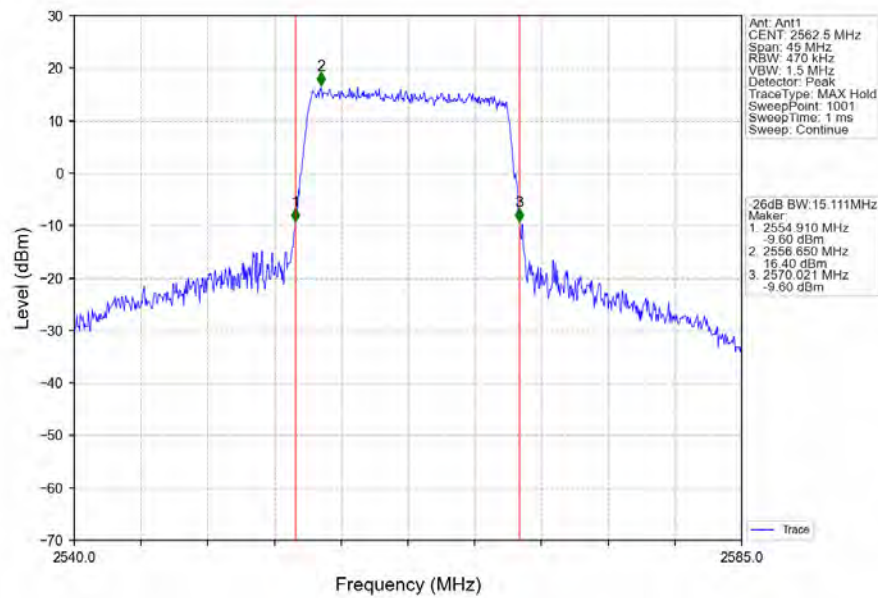
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Band7\_20MHz\_QPSK\_LCH\_2510MHz\_RB\_100\_0\_NTNV



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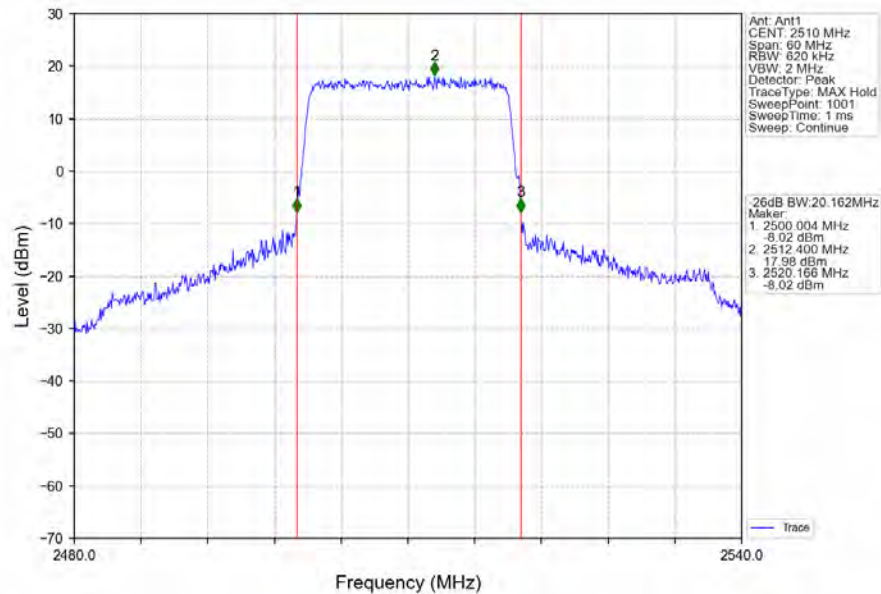


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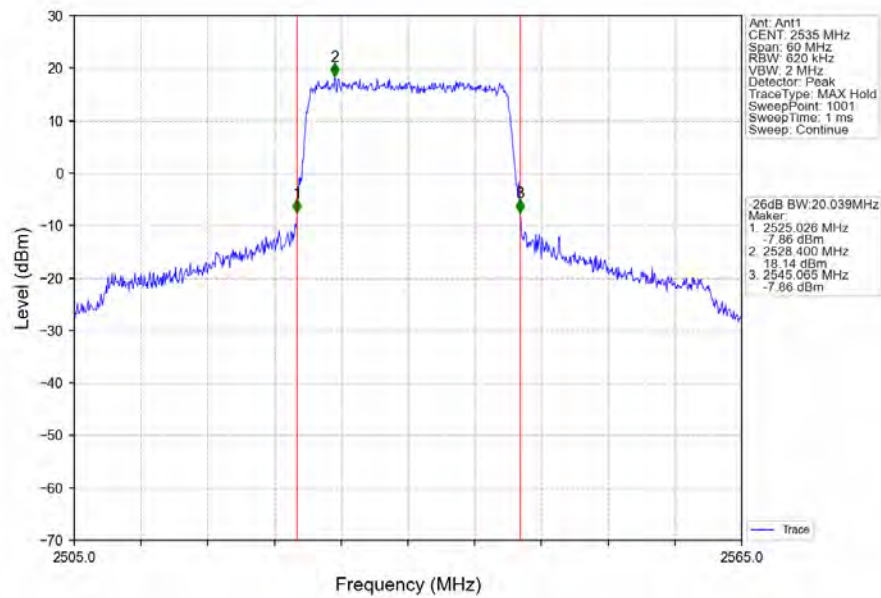
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Band7\_20MHz\_QPSK\_HCH\_2560MHz\_RB\_100\_0\_NTNV



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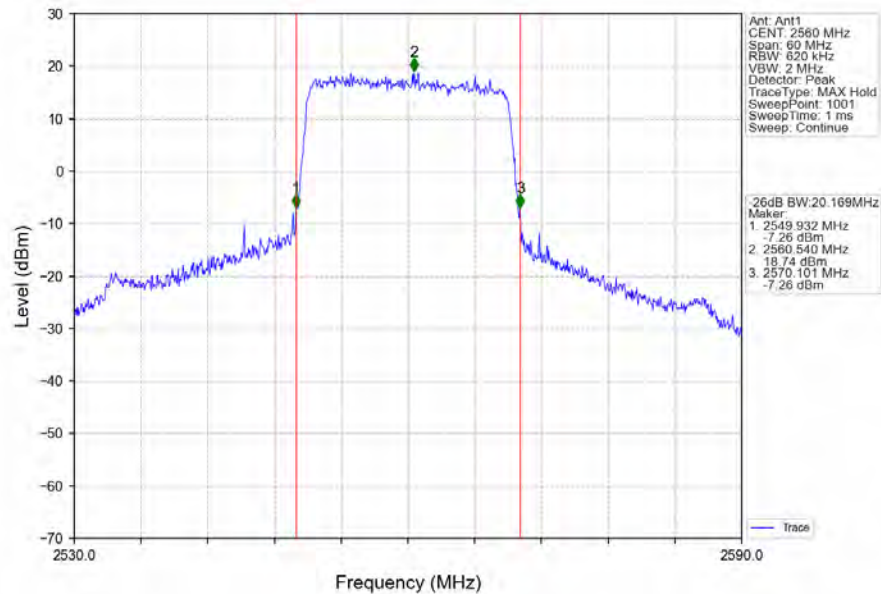


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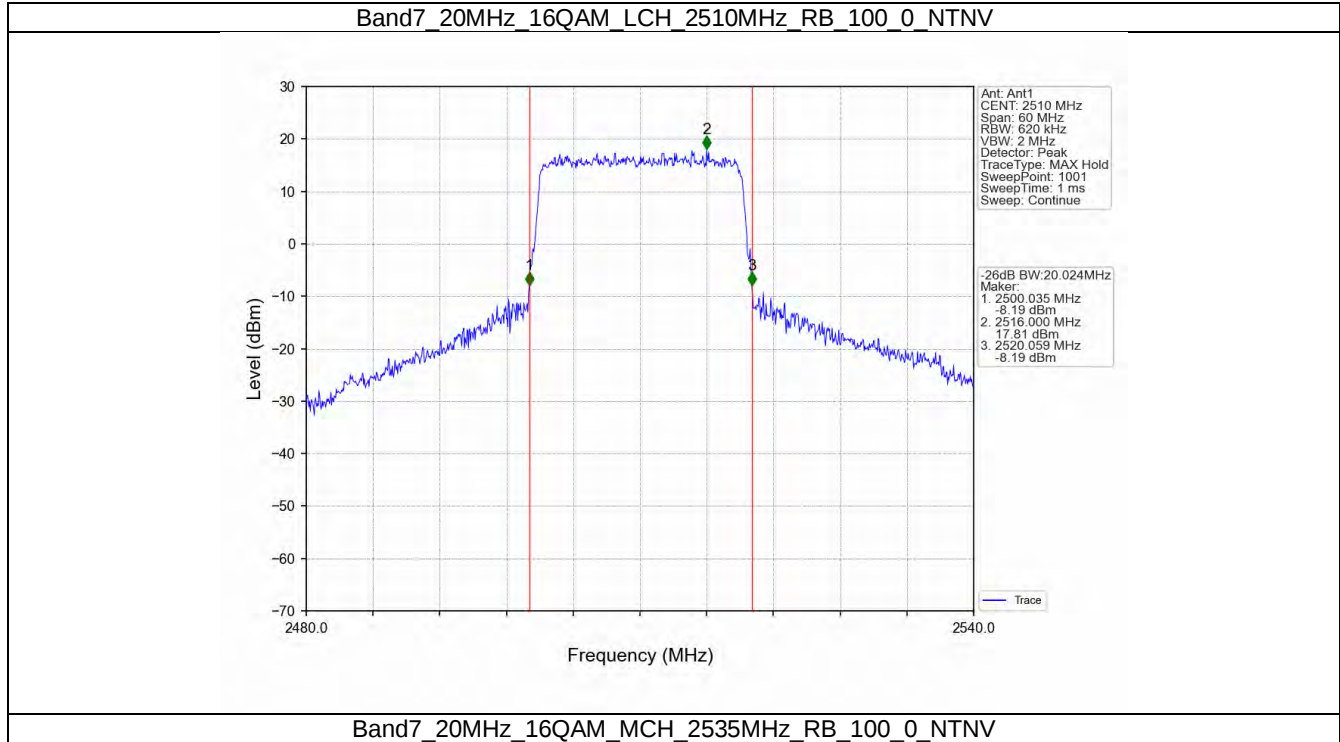


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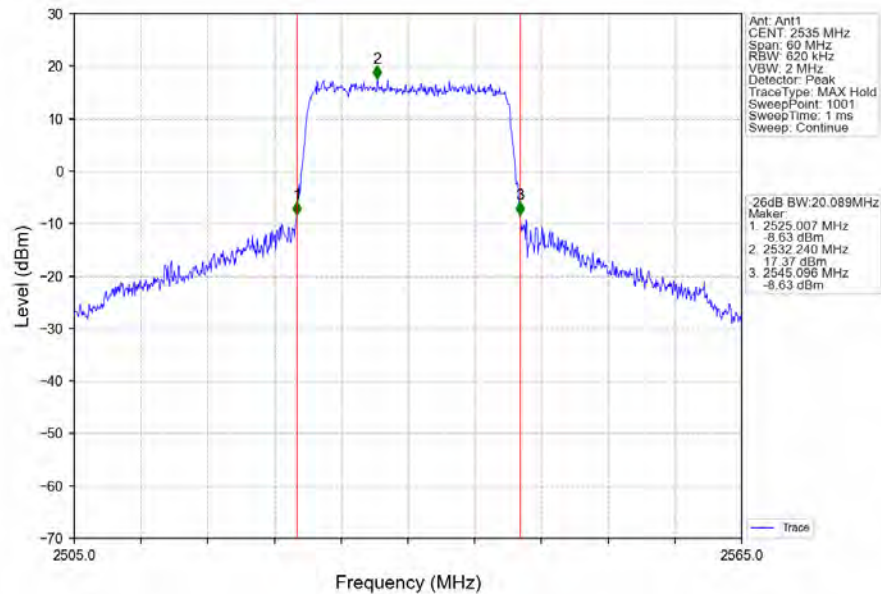


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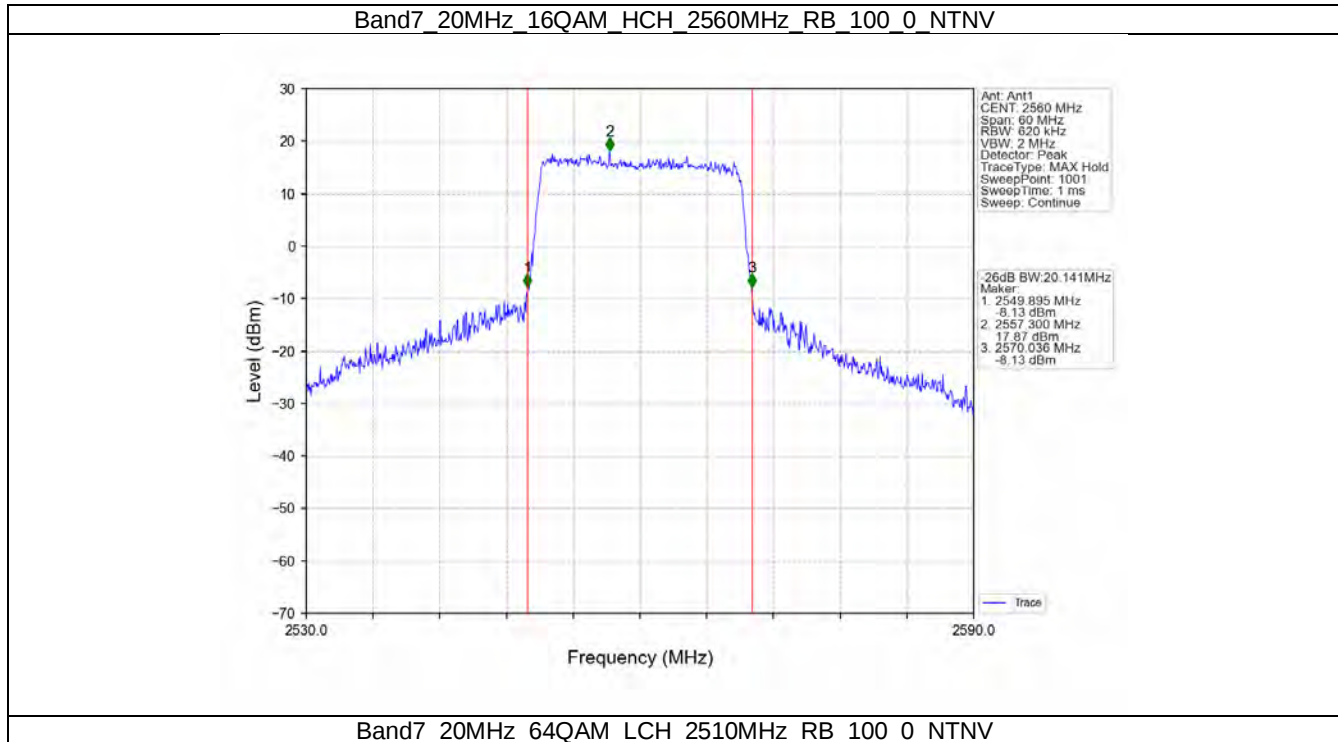


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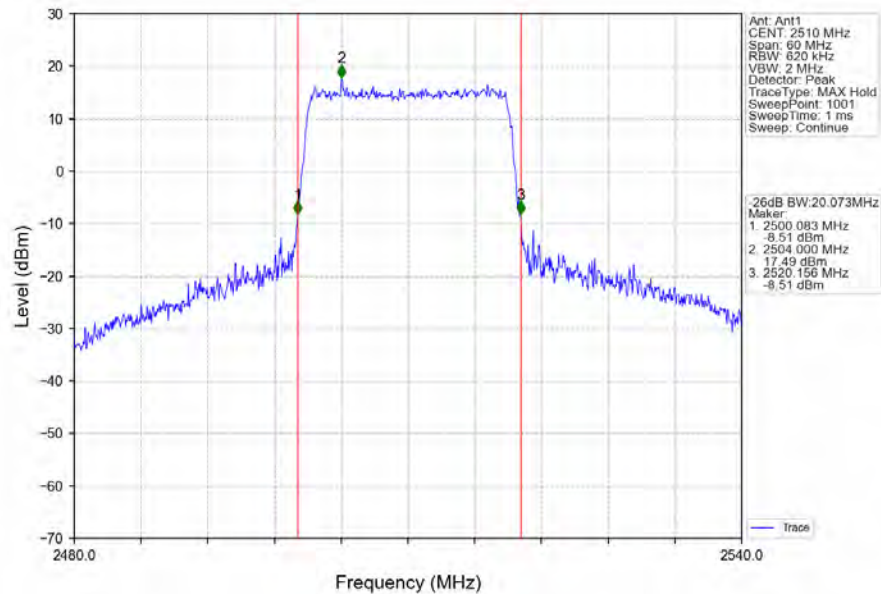


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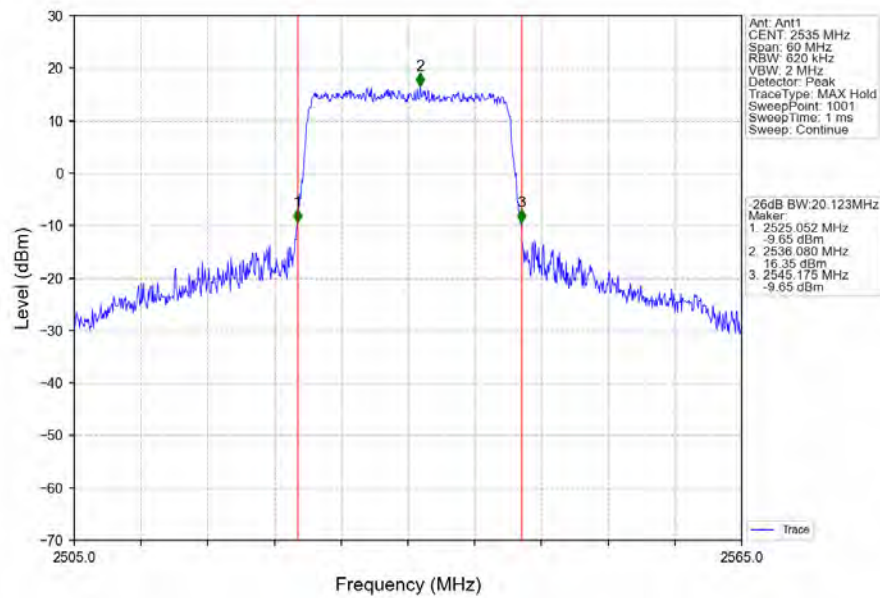
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Band7\_20MHz\_64QAM\_MCH\_2535MHz\_RB\_100\_0\_NTNV



Band7\_20MHz\_64QAM\_HCH\_2560MHz\_RB\_100\_0\_NTNV



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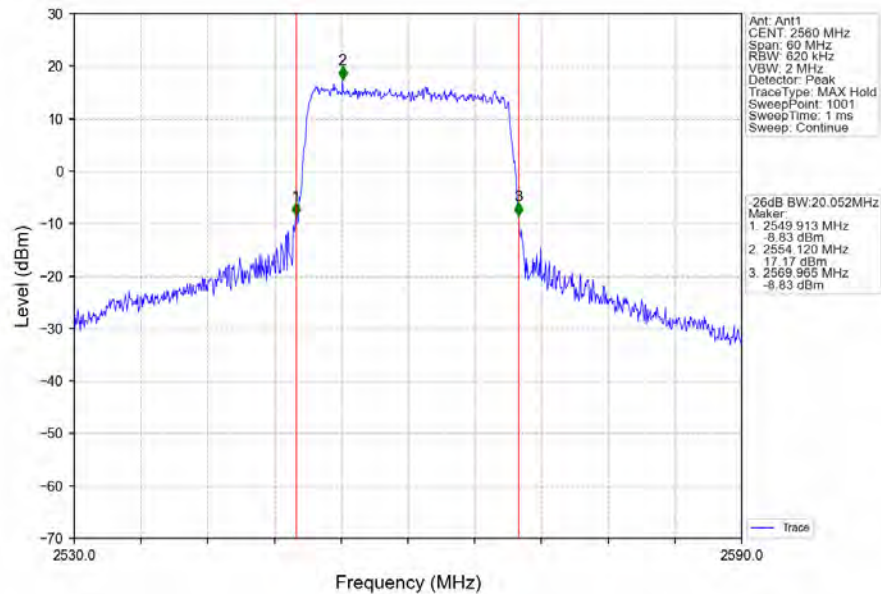


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## 4. Peak-Average Ratio

### 4.1 B7\_5MHz

#### 4.1.1 Test Result

| Band: 7 / Bandwidth: 5MHz / NTN |                 |               |        |                         |       |         |
|---------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                 |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                            | 2502.5          | 25            | 0      | 5.04                    | <=13  | Pass    |
|                                 | 2535            | 25            | 0      | 4.96                    | <=13  | Pass    |
|                                 | 2567.5          | 25            | 0      | 5.10                    | <=13  | Pass    |
| 16QAM                           | 2502.5          | 25            | 0      | 5.83                    | <=13  | Pass    |
|                                 | 2535            | 25            | 0      | 5.77                    | <=13  | Pass    |
|                                 | 2567.5          | 25            | 0      | 5.93                    | <=13  | Pass    |
| 64QAM                           | 2502.5          | 25            | 0      | 9.41                    | <=13  | Pass    |
|                                 | 2535            | 25            | 0      | 9.10                    | <=13  | Pass    |
|                                 | 2567.5          | 25            | 0      | 9.30                    | <=13  | Pass    |



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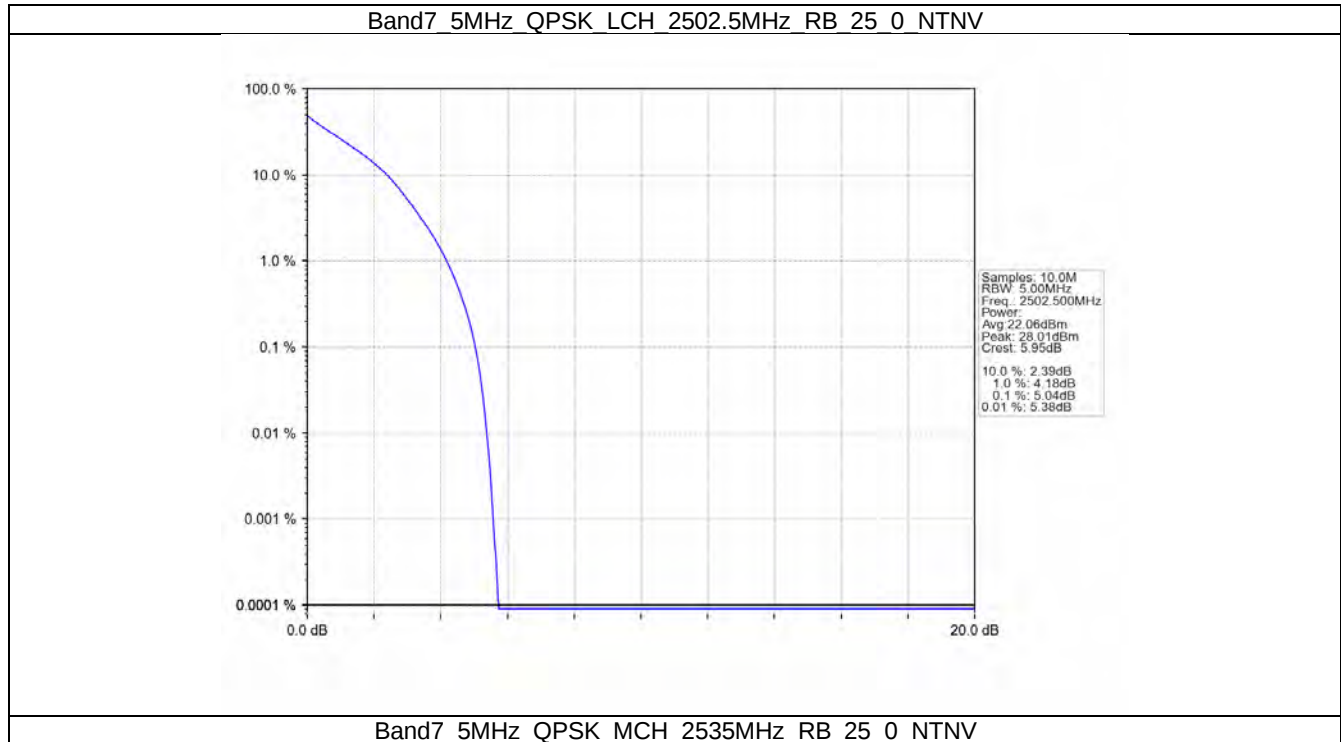
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## 4.1.2 Test Graph



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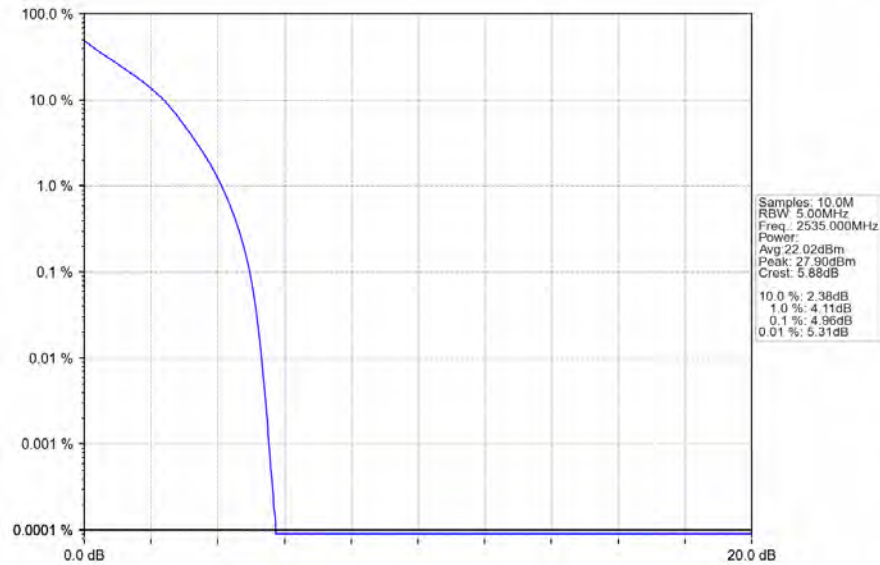


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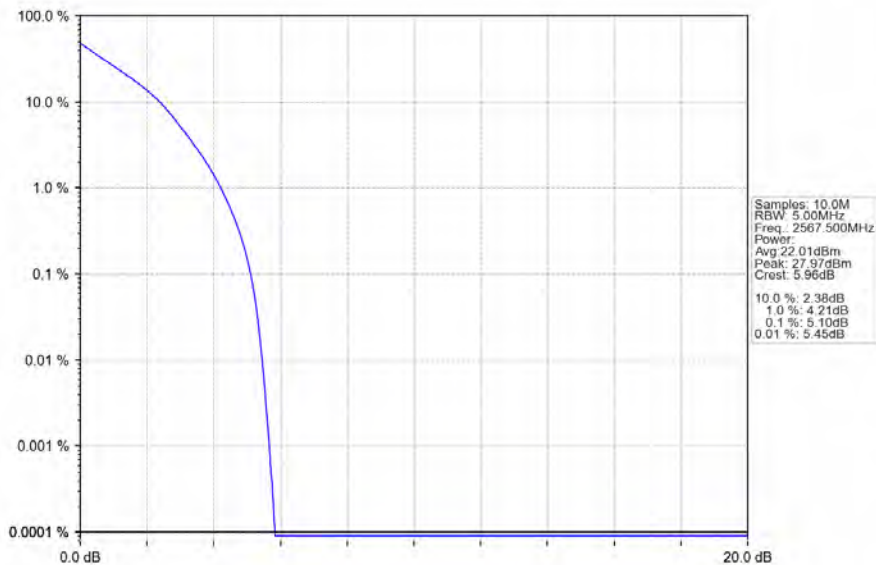
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Band7\_5MHz\_QPSK\_HCH\_2567.5MHz\_RB\_25\_0\_NTNV



Band7\_5MHz\_16QAM\_LCH\_2502.5MHz\_RB\_25\_0\_NTNV



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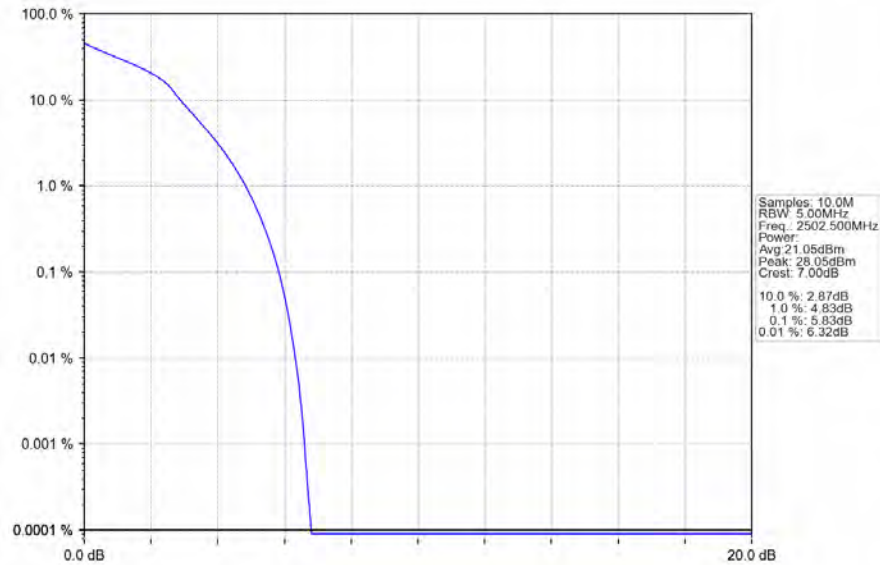


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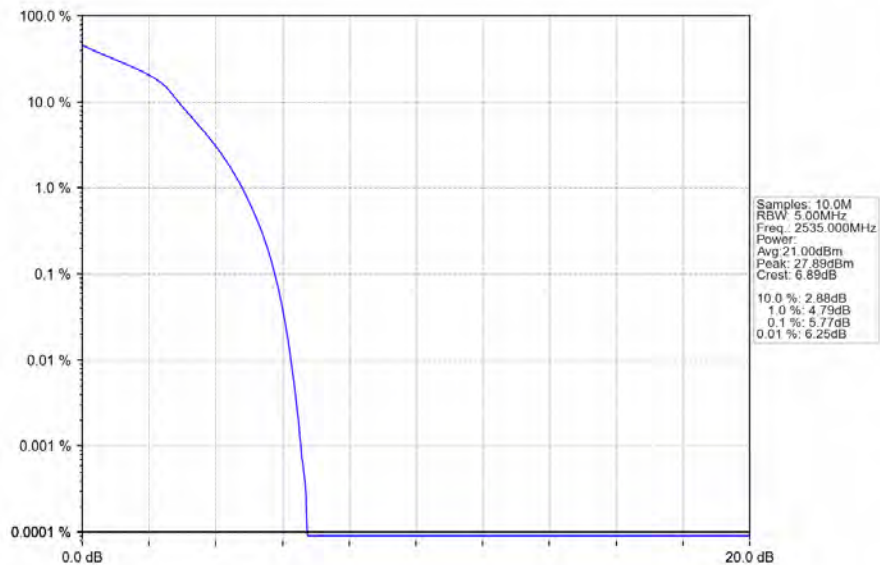
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Band7\_5MHz\_16QAM\_MCH\_2535MHz\_RB\_25\_0\_NTNV



Band7\_5MHz\_16QAM\_HCH\_2567.5MHz\_RB\_25\_0\_NTNV



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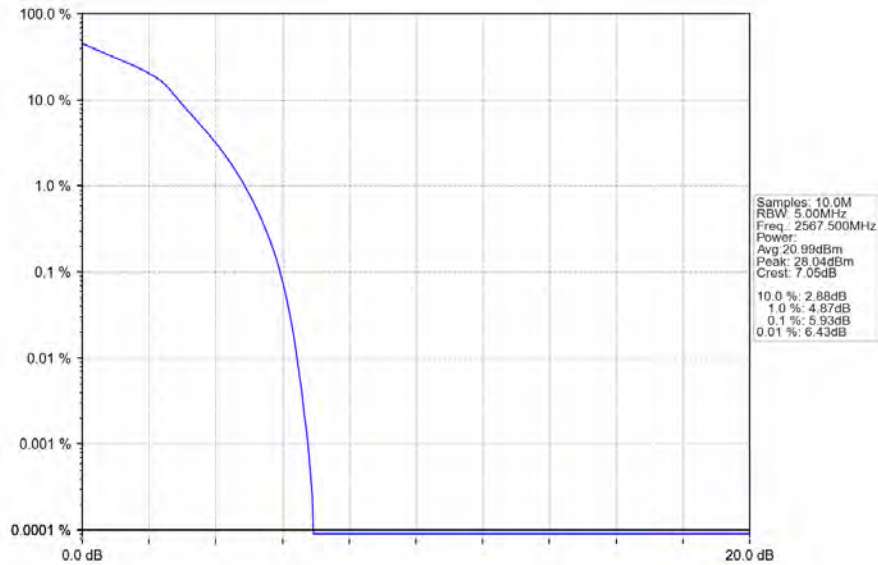


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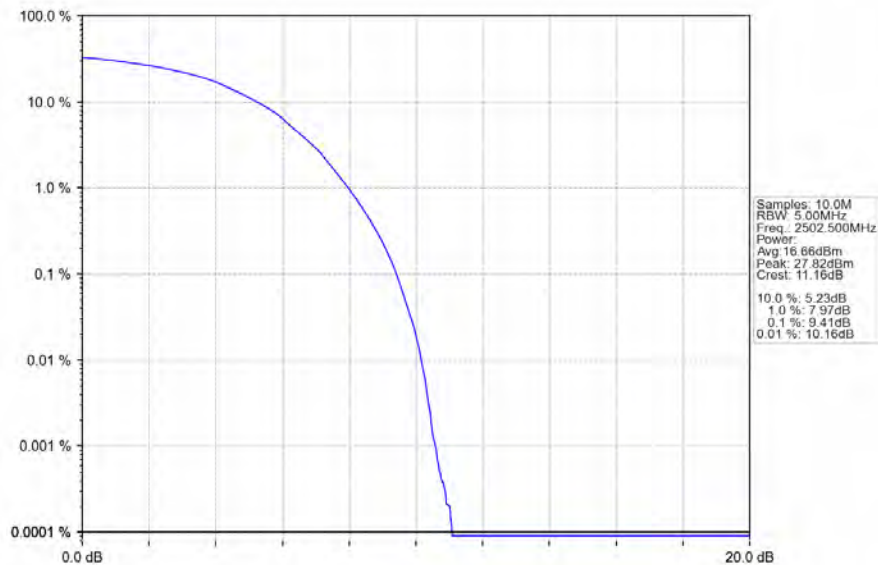
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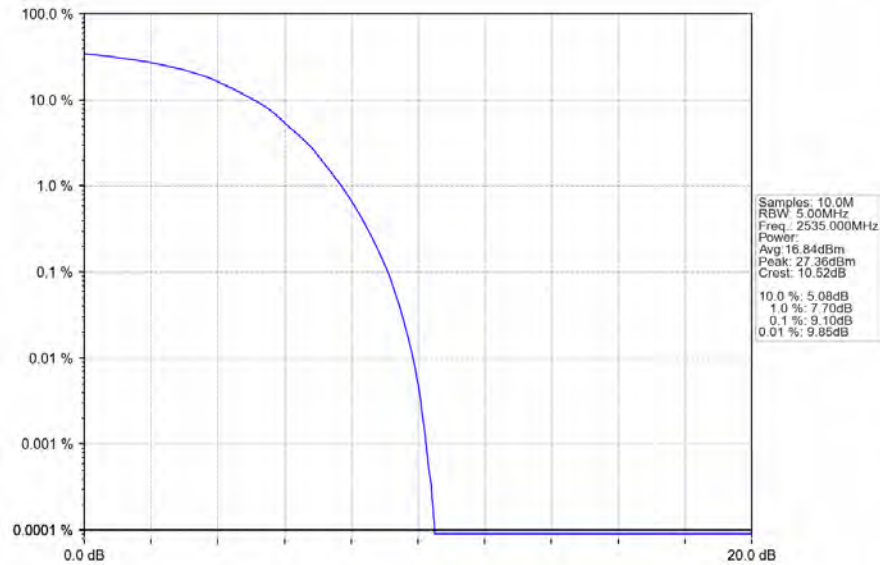


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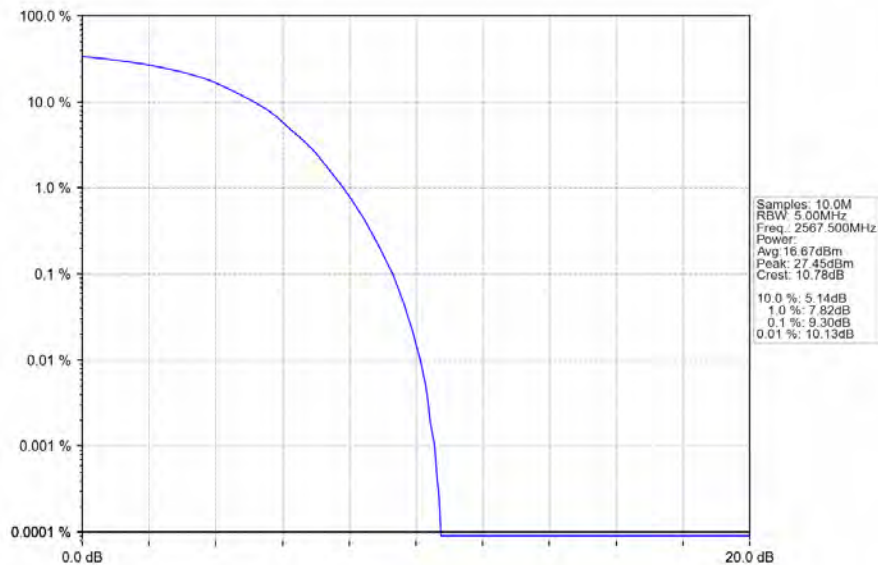
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Band7\_5MHz\_64QAM\_HCH\_2567.5MHz\_RB\_25\_0\_NTNV



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## 4.2 B7\_10MHz

### 4.2.1 Test Result

| Band: 7 / Bandwidth: 10MHz / NTN |                 |               |        |                         |       |         |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                  |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                             | 2505            | 50            | 0      | 5.09                    | <=13  | Pass    |
|                                  | 2535            | 50            | 0      | 5.00                    | <=13  | Pass    |
|                                  | 2565            | 50            | 0      | 8.54                    | <=13  | Pass    |
| 16QAM                            | 2505            | 50            | 0      | 5.86                    | <=13  | Pass    |
|                                  | 2535            | 50            | 0      | 5.77                    | <=13  | Pass    |
|                                  | 2565            | 50            | 0      | 5.78                    | <=13  | Pass    |
| 64QAM                            | 2505            | 50            | 0      | 6.30                    | <=13  | Pass    |
|                                  | 2535            | 50            | 0      | 7.00                    | <=13  | Pass    |
|                                  | 2565            | 50            | 0      | 6.90                    | <=13  | Pass    |



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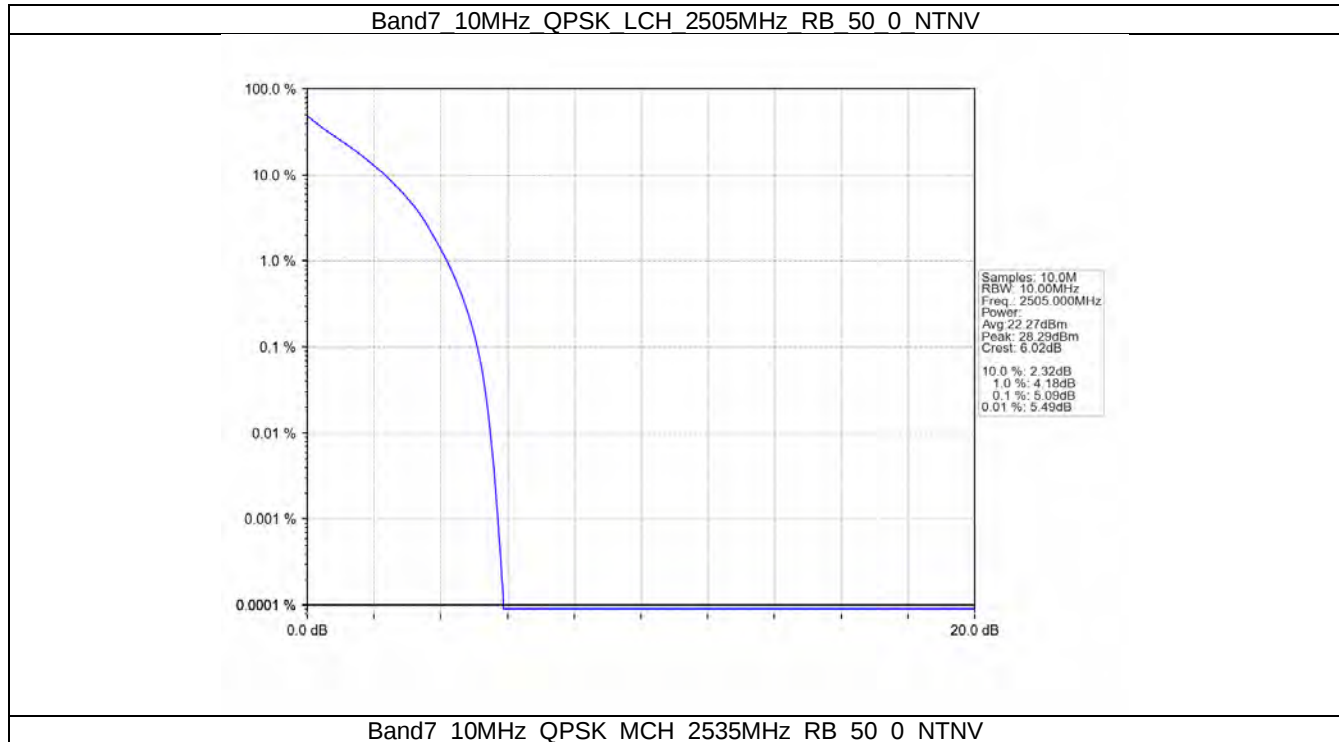
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## 4.2.2 Test Graph



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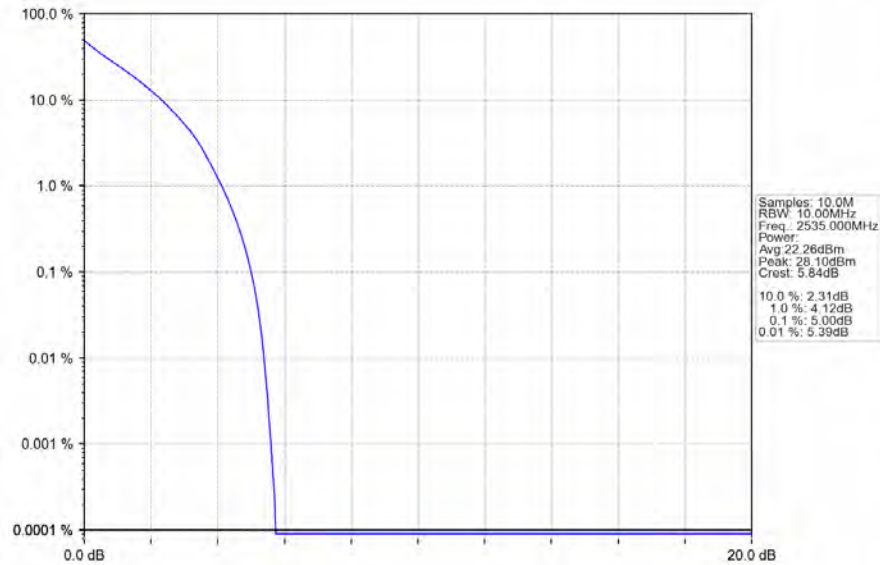


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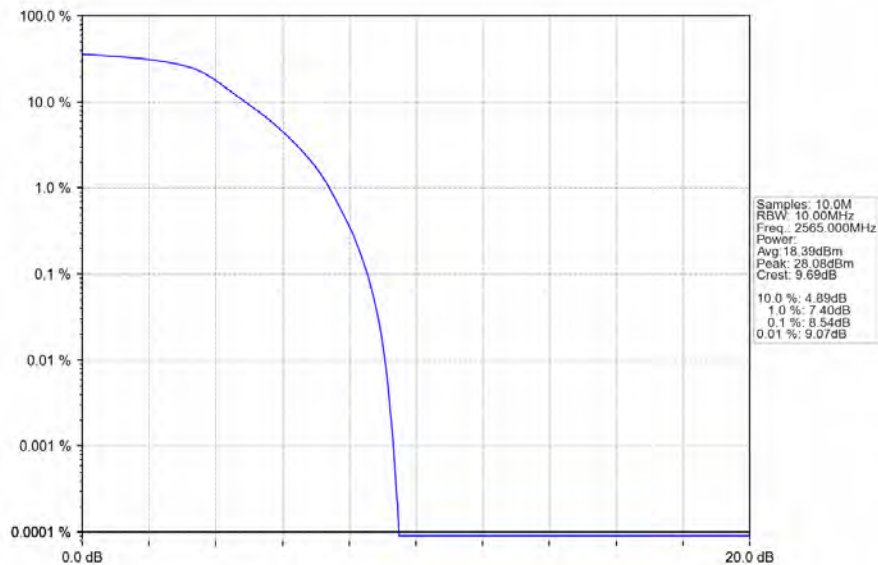
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Band7\_10MHz\_QPSK\_HCH\_2565MHz\_RB\_50\_0\_NTNV



Band7\_10MHz\_16QAM\_LCH\_2505MHz\_RB\_50\_0\_NTNV



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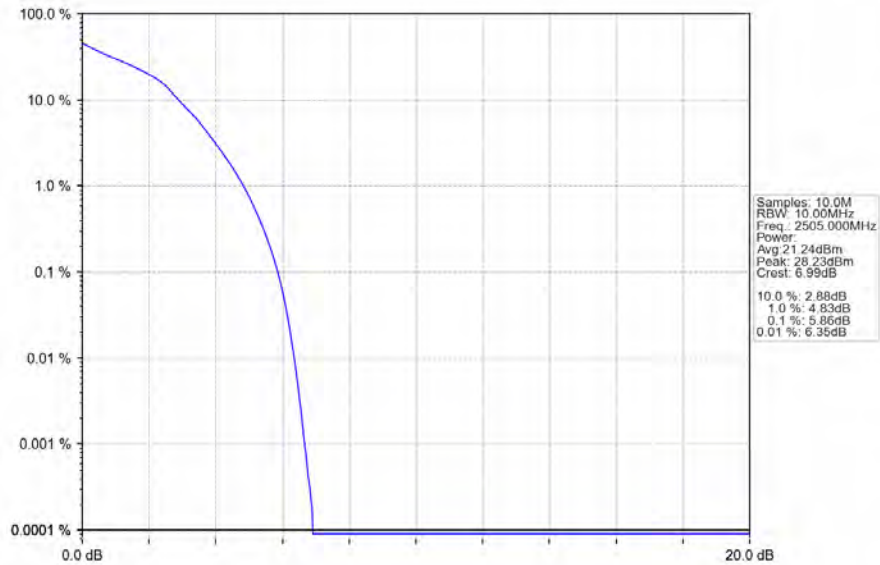


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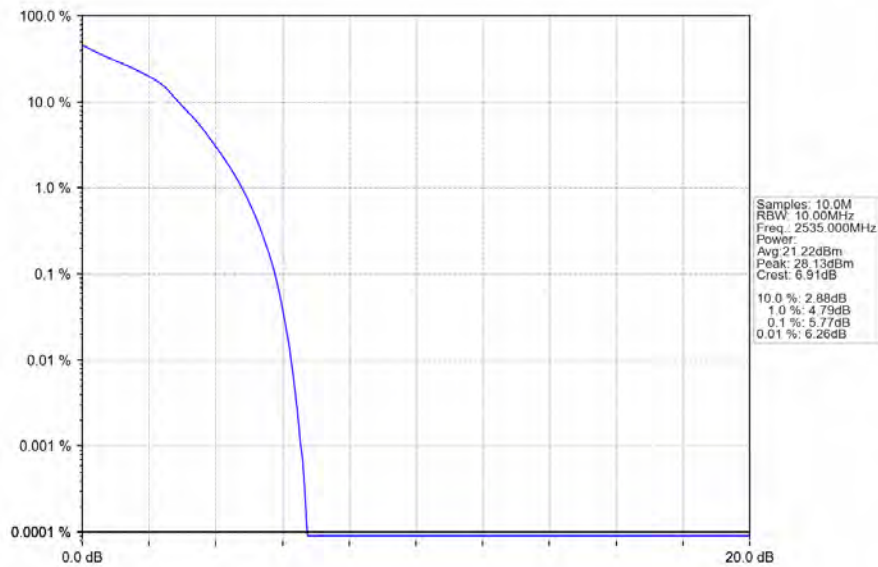
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Band7\_10MHz\_16QAM\_MCH\_2535MHz\_RB\_50\_0\_NTNV



Band7\_10MHz\_16QAM\_HCH\_2565MHz\_RB\_50\_0\_NTNV



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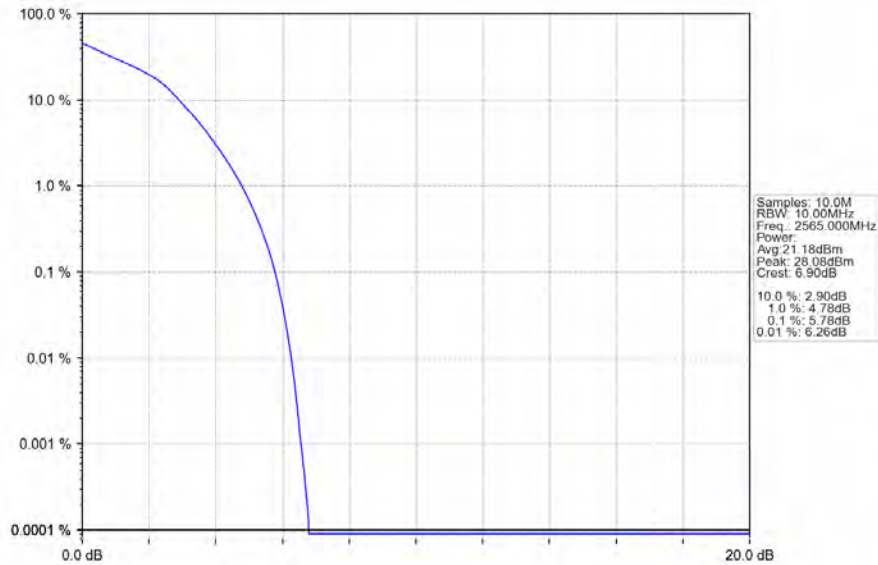


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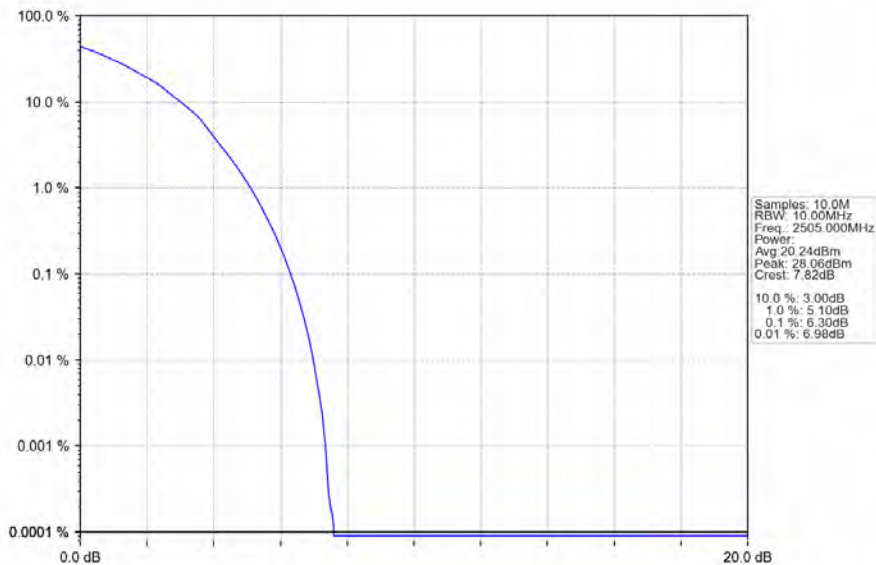
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Band7\_10MHz\_64QAM\_LCH\_2505MHz\_RB\_50\_0\_NTNV



Band7\_10MHz\_64QAM\_MCH\_2535MHz\_RB\_50\_0\_NTNV



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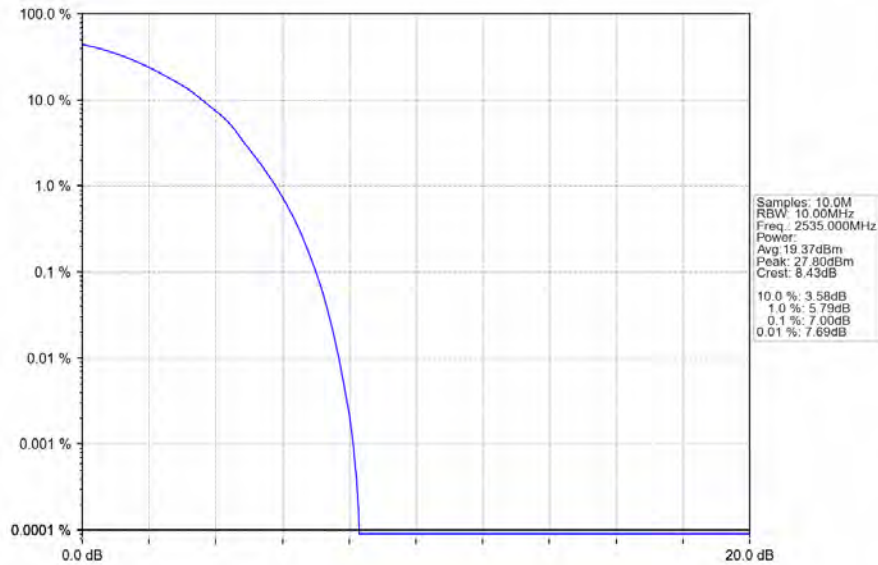


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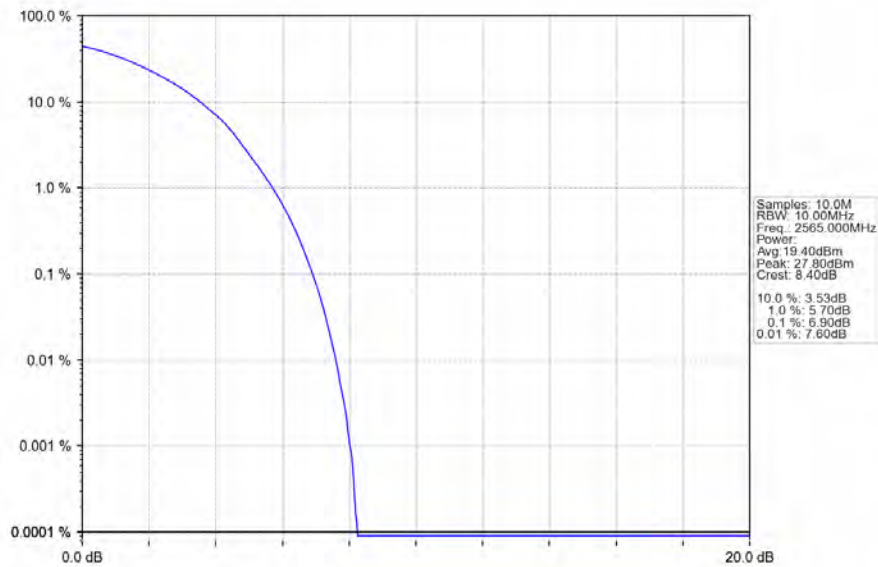
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Band7\_10MHz\_64QAM\_HCH\_2565MHz\_RB\_50\_0\_NTNV



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## 4.3 B7\_15MHz

### 4.3.1 Test Result

| Band: 7 / Bandwidth: 15MHz / NTN |                 |               |        |                         |       |         |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                  |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                             | 2507.5          | 75            | 0      | 5.25                    | <=13  | Pass    |
|                                  | 2535            | 75            | 0      | 5.20                    | <=13  | Pass    |
|                                  | 2562.5          | 75            | 0      | 5.16                    | <=13  | Pass    |
| 16QAM                            | 2507.5          | 75            | 0      | 5.93                    | <=13  | Pass    |
|                                  | 2535            | 75            | 0      | 5.90                    | <=13  | Pass    |
|                                  | 2562.5          | 75            | 0      | 5.86                    | <=13  | Pass    |
| 64QAM                            | 2507.5          | 75            | 0      | 6.34                    | <=13  | Pass    |
|                                  | 2535            | 75            | 0      | 6.29                    | <=13  | Pass    |
|                                  | 2562.5          | 75            | 0      | 6.25                    | <=13  | Pass    |



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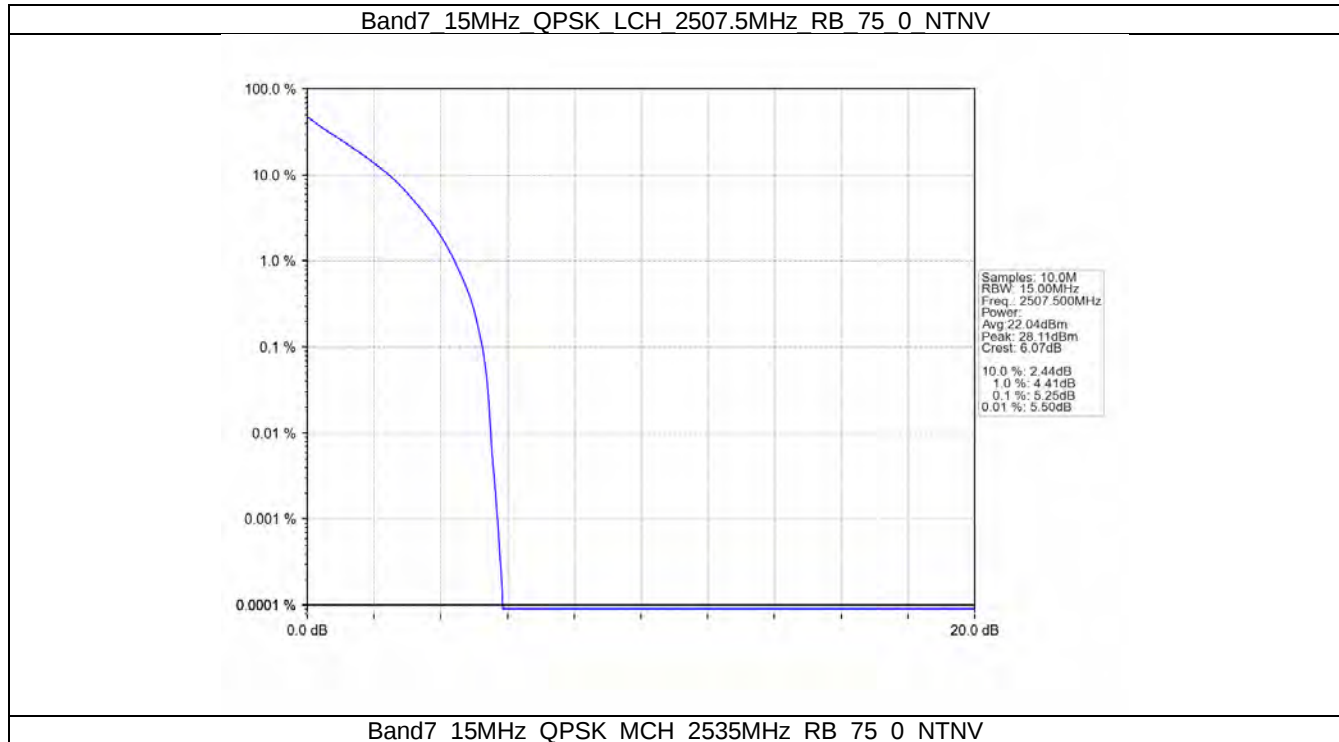
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## 4.3.2 Test Graph



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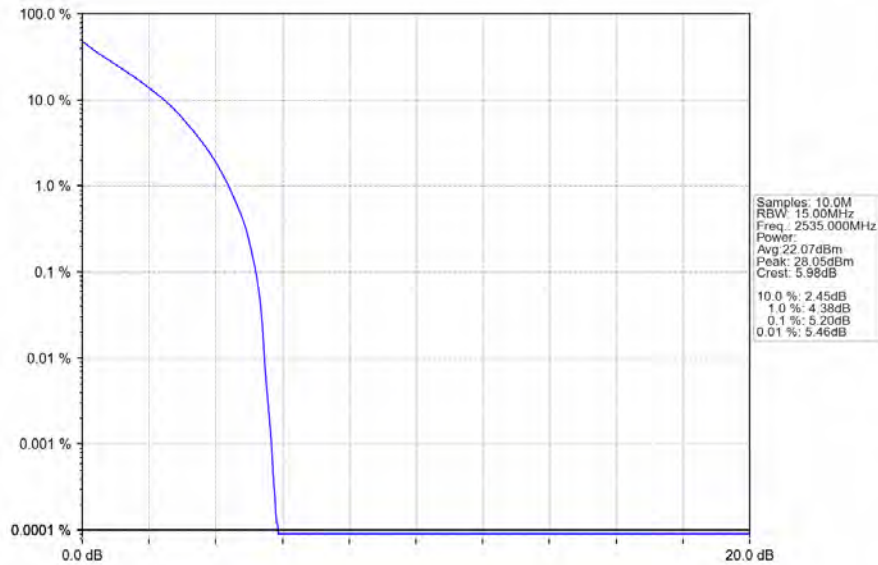


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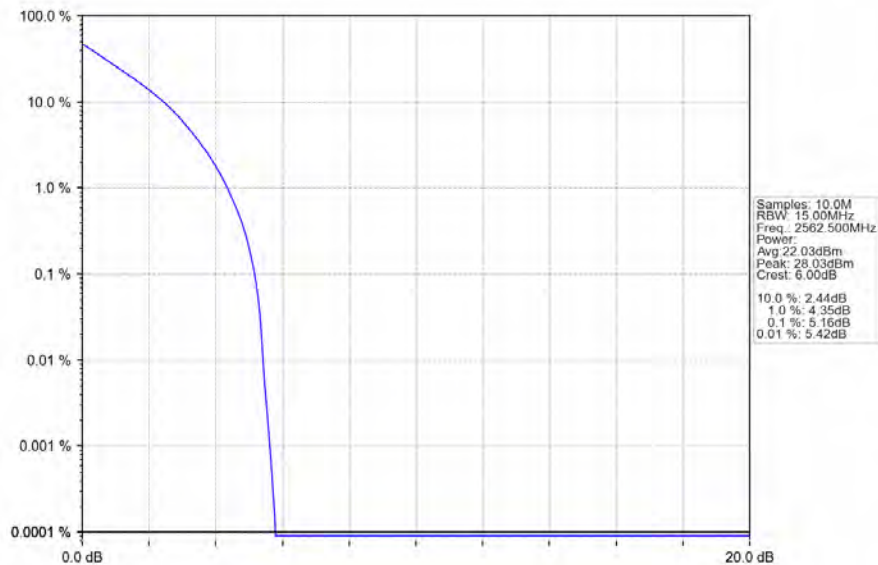
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Band7\_15MHz\_QPSK\_HCH\_2562.5MHz\_RB\_75\_0\_NTNV



Band7\_15MHz\_16QAM\_LCH\_2507.5MHz\_RB\_75\_0\_NTNV



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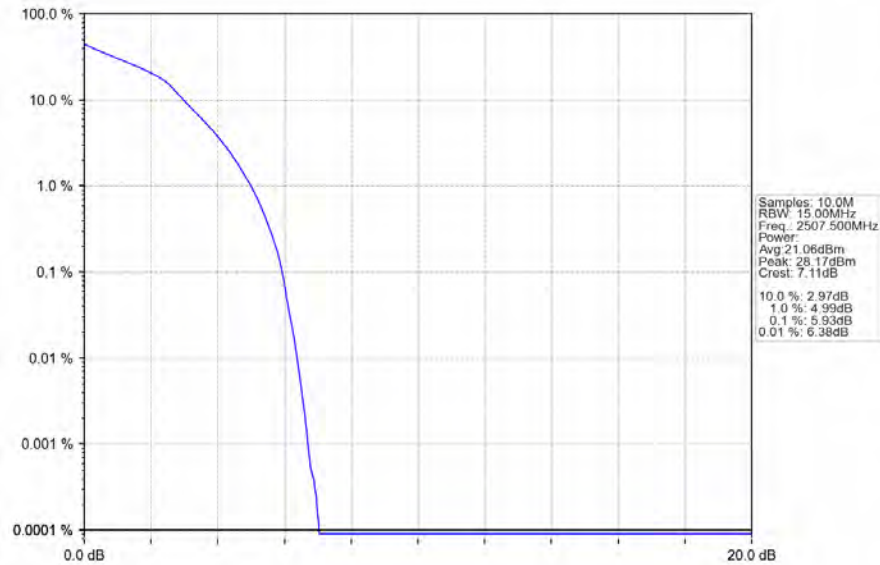


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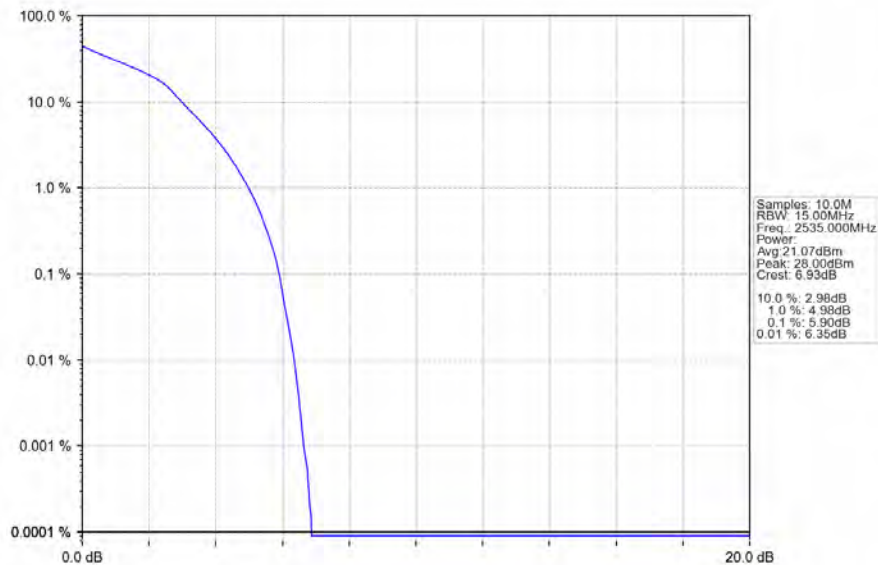
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Band7\_15MHz\_16QAM\_MCH\_2535MHz\_RB\_75\_0\_NTNV



Band7\_15MHz\_16QAM\_HCH\_2562.5MHz\_RB\_75\_0\_NTNV



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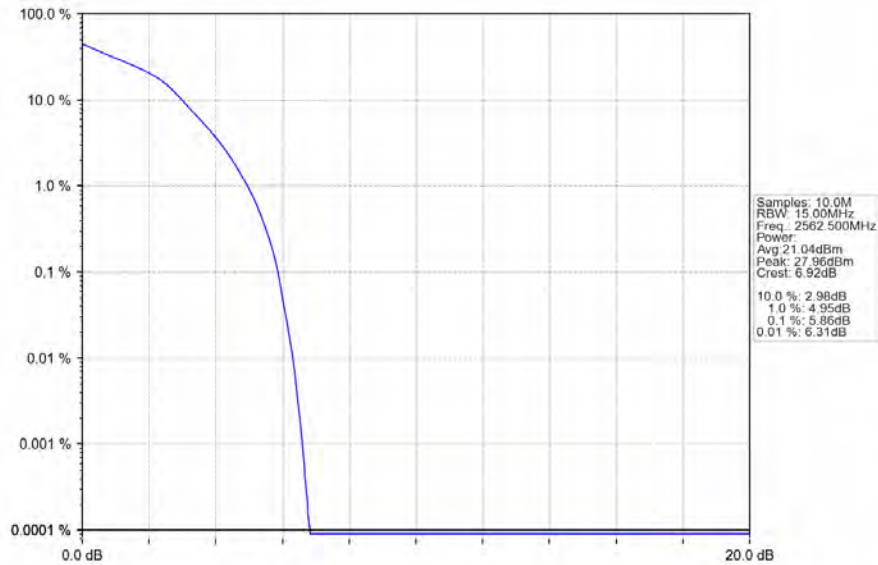


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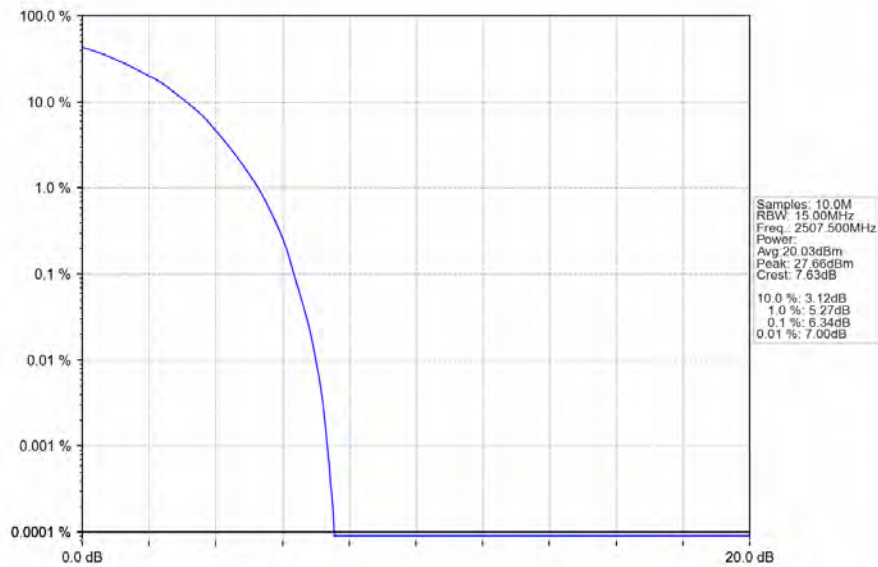
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Band7 15MHz 64QAM LCH 2507.5MHz RB 75 0 NTN



Band7 15MHz 64QAM MCH 2535MHz RB 75 0 NTN



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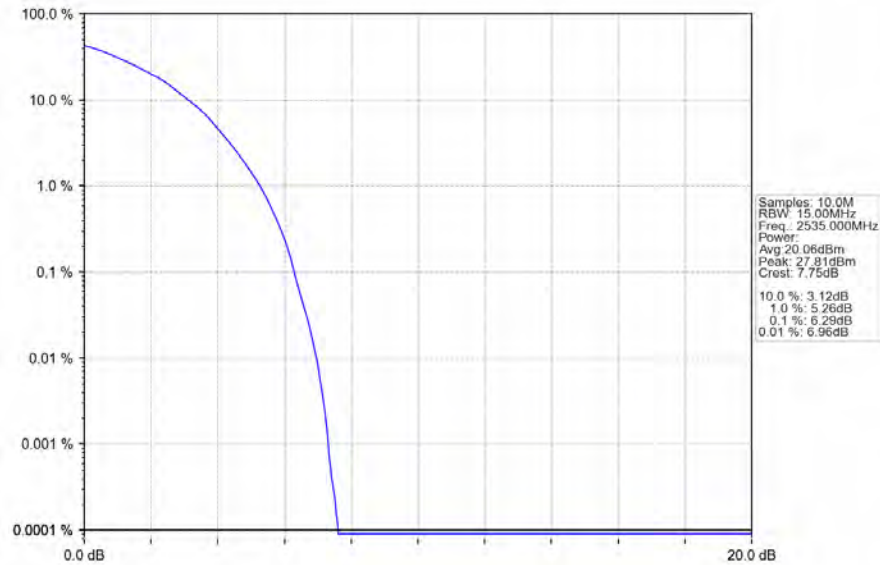


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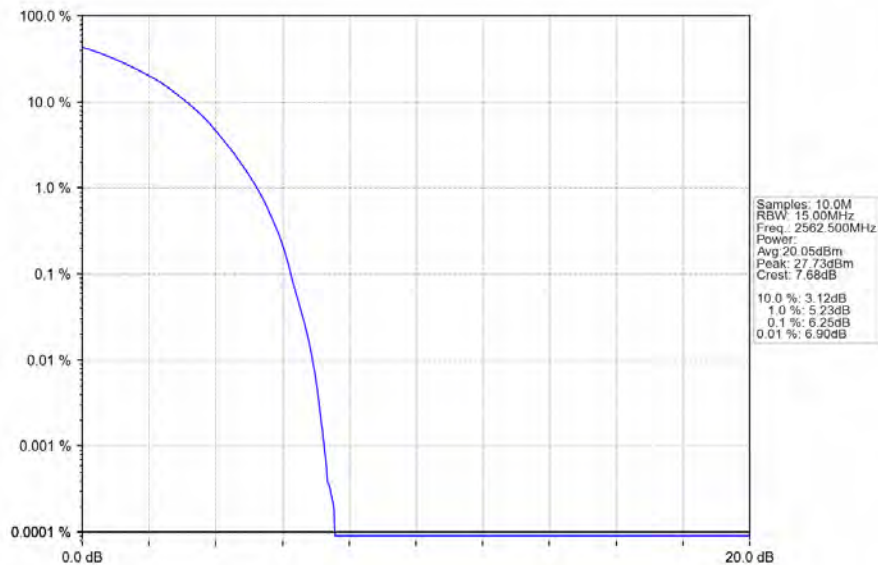
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Band7\_15MHz\_64QAM\_HCH\_2562.5MHz\_RB\_75\_0\_NTNV



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## 4.4 B7\_20MHz

### 4.4.1 Test Result

| Band: 7 / Bandwidth: 20MHz / NTN |                 |               |        |                         |       |         |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                  |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                             | 2510            | 100           | 0      | 5.03                    | <=13  | Pass    |
|                                  | 2535            | 100           | 0      | 4.98                    | <=13  | Pass    |
|                                  | 2560            | 100           | 0      | 6.02                    | <=13  | Pass    |
| 16QAM                            | 2510            | 100           | 0      | 8.39                    | <=13  | Pass    |
|                                  | 2535            | 100           | 0      | 5.79                    | <=13  | Pass    |
|                                  | 2560            | 100           | 0      | 6.56                    | <=13  | Pass    |
| 64QAM                            | 2510            | 100           | 0      | 6.27                    | <=13  | Pass    |
|                                  | 2535            | 100           | 0      | 6.24                    | <=13  | Pass    |
|                                  | 2560            | 100           | 0      | 6.22                    | <=13  | Pass    |



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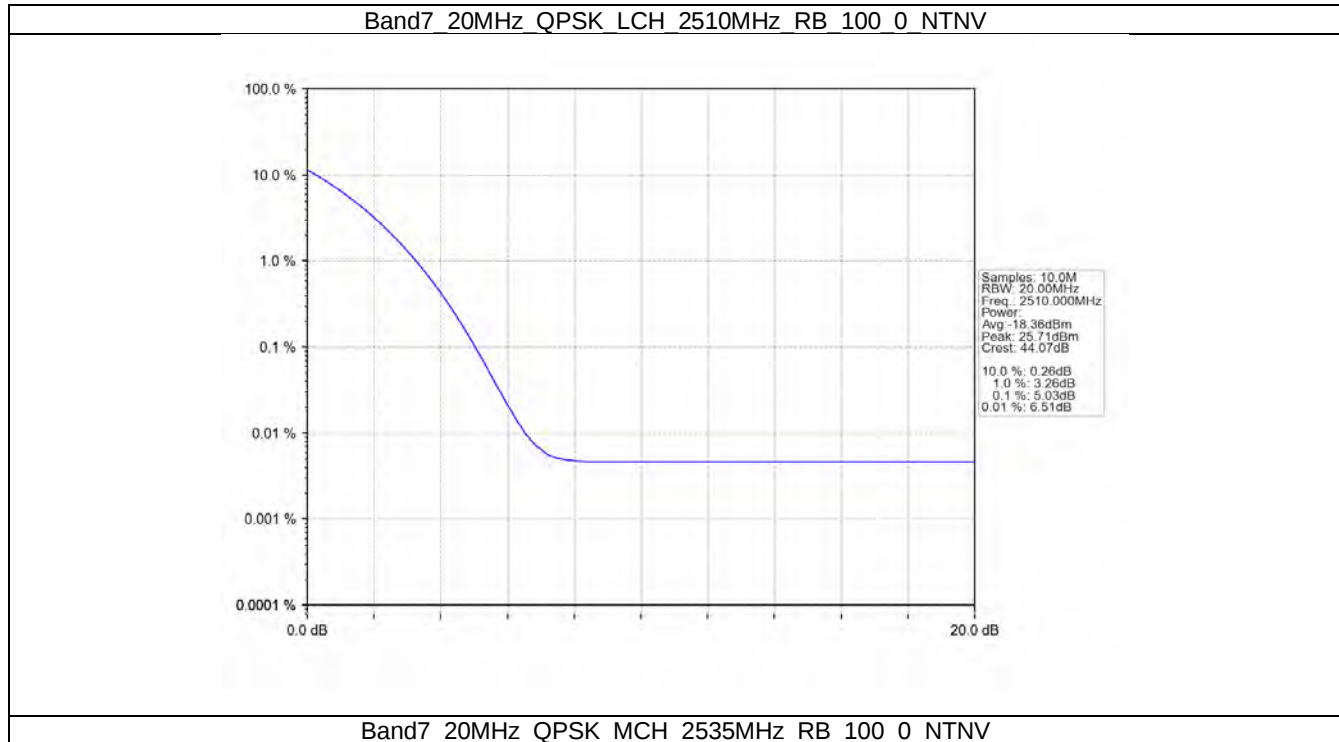
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## 4.4.2 Test Graph



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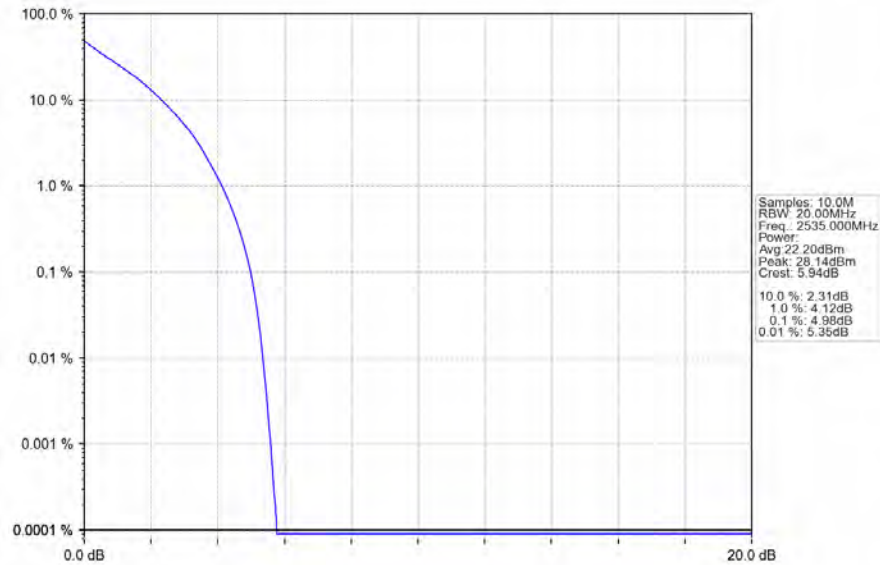


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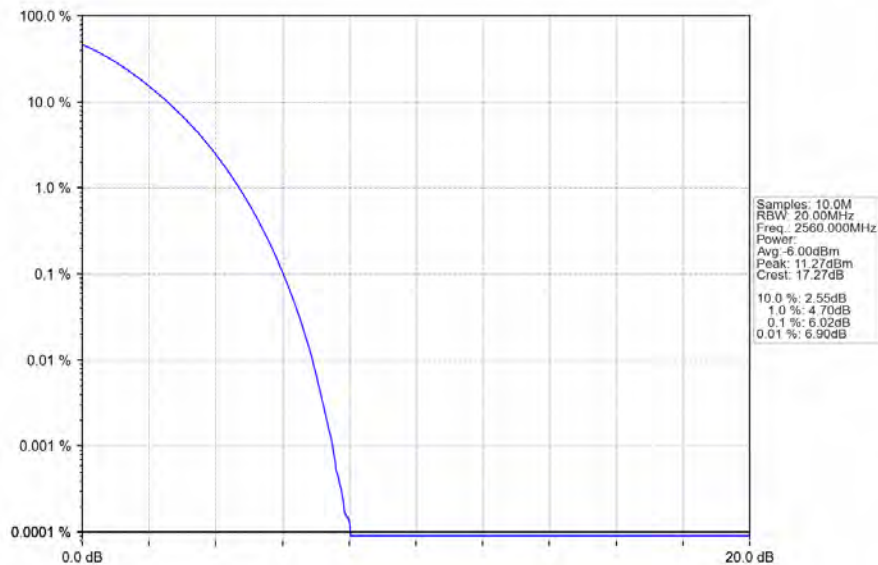
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Band7\_20MHz\_QPSK\_HCH\_2560MHz\_RB\_100\_0\_NTNV



Band7\_20MHz\_16QAM\_LCH\_2510MHz\_RB\_100\_0\_NTNV



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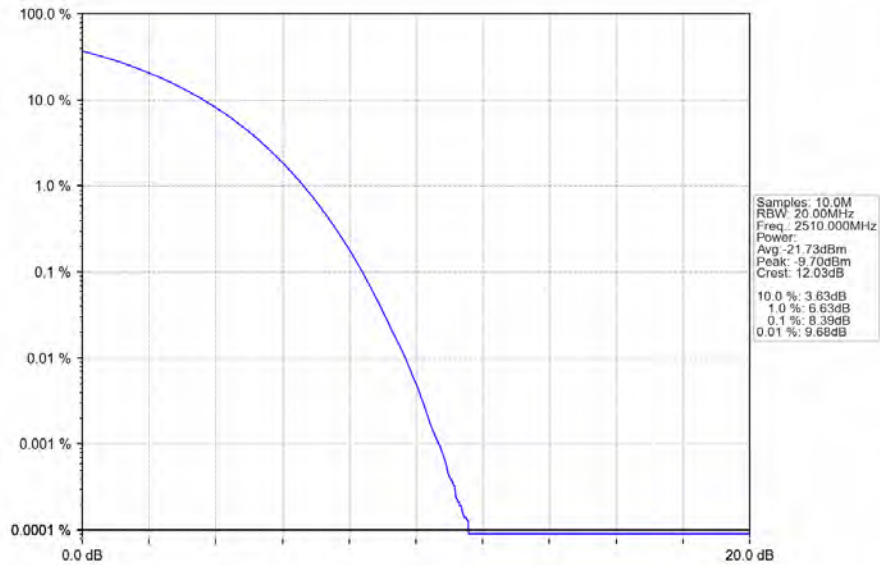


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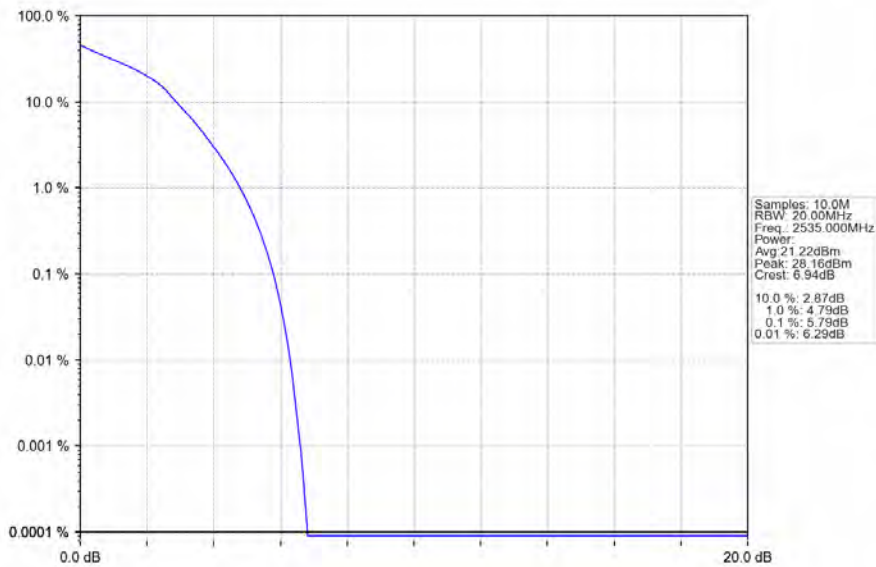
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Band7 20MHz 16QAM MCH 2535MHz RB 100 0 NTN



Band7 20MHz 16QAM HCH 2560MHz RB 100 0 NTN



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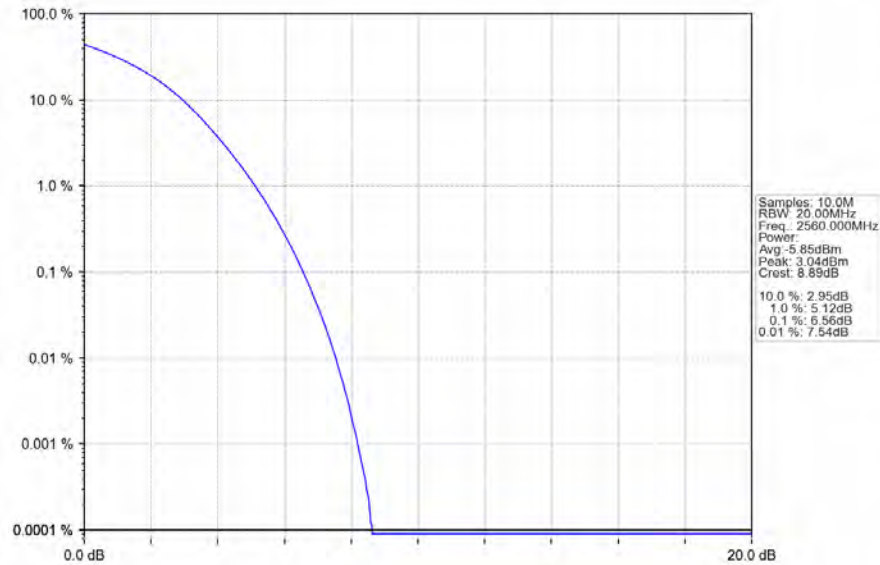


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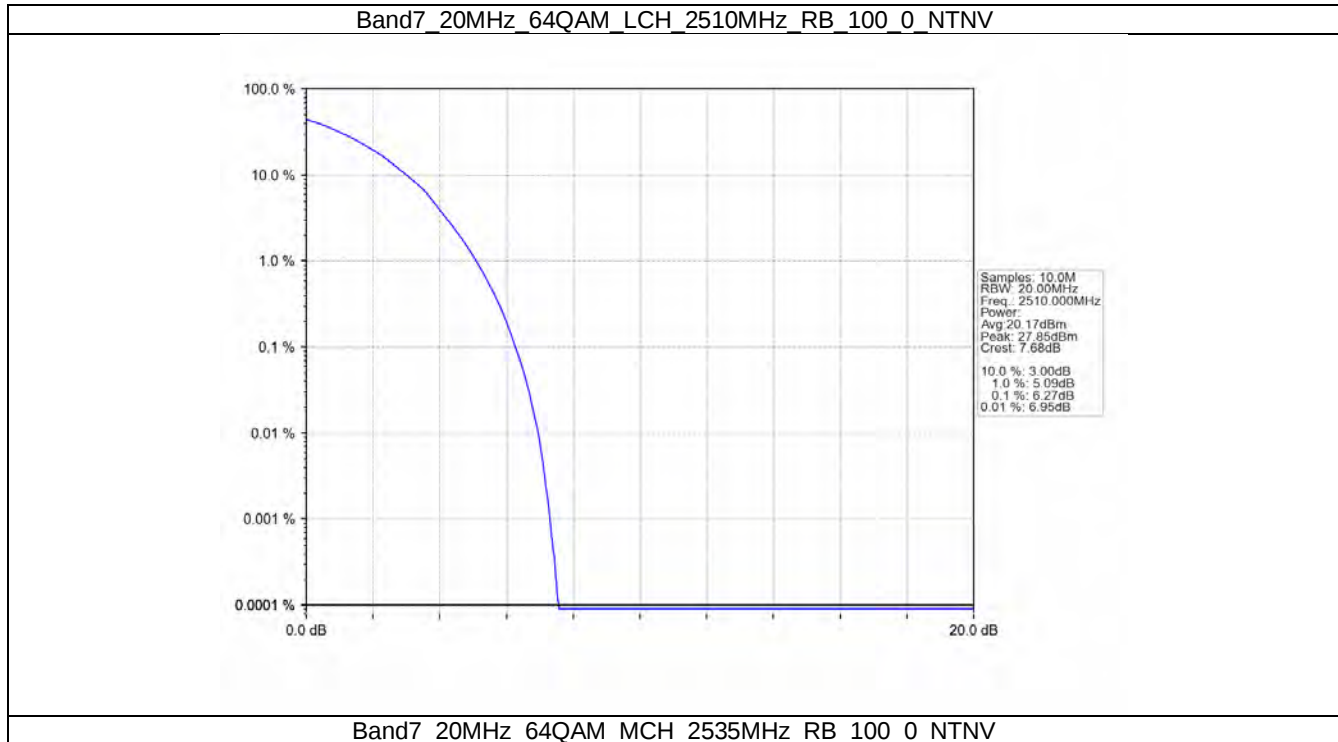


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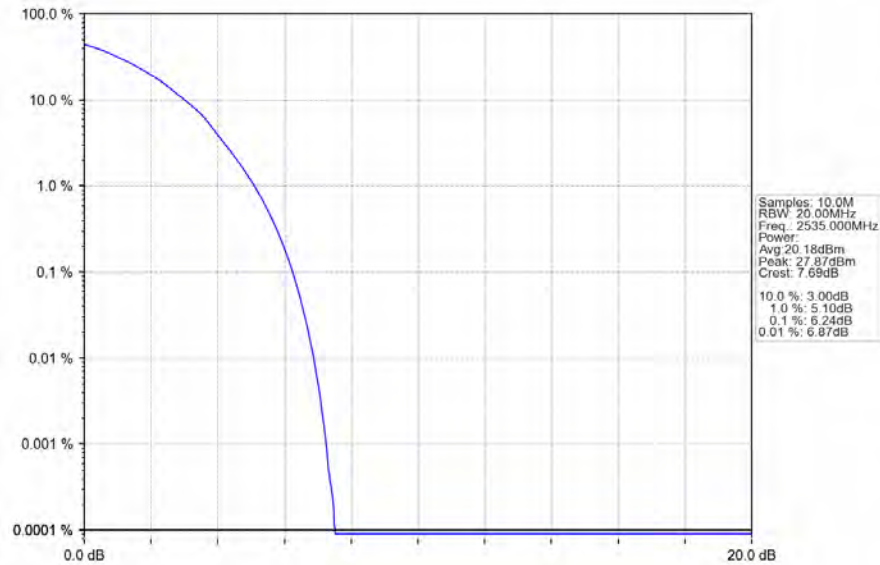


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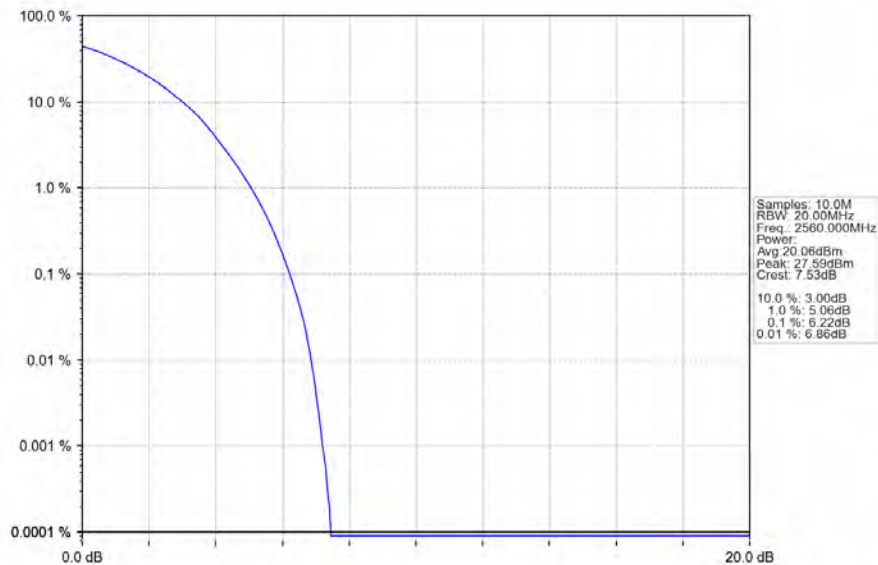
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Band7\_20MHz\_64QAM\_HCH\_2560MHz\_RB\_100\_0\_NTNV



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## 5. Spurious Emission & Band Edges

### 5.1 B7\_5MHz

#### 5.1.1 Test Result

| Band: 7 / Bandwidth: 5MHz / NTNV |                 |               |        |                     |       |         |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                  |                 | Size          | Offset | Result              | Limit |         |
| QPSK                             | 2502.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                  | 2535            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  | 2567.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
| 16QAM                            | 2502.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                  | 2535            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  | 2567.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
| 64QAM                            | 2502.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                  | 2535            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  | 2567.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |



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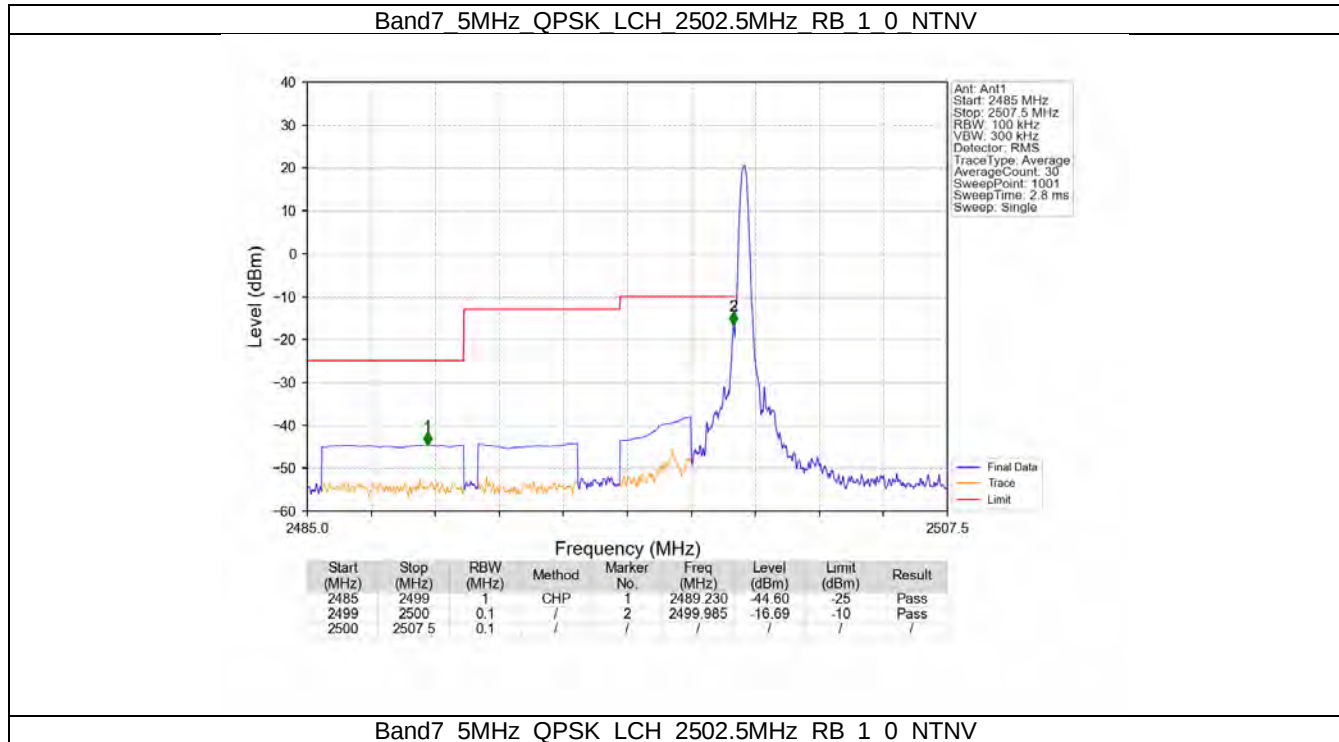
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## 5.1.2 Test Graph



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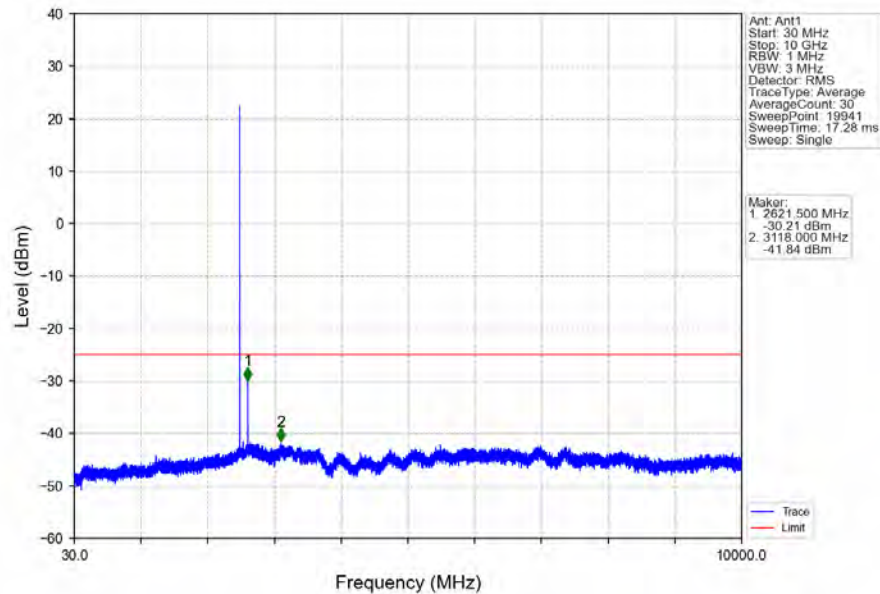


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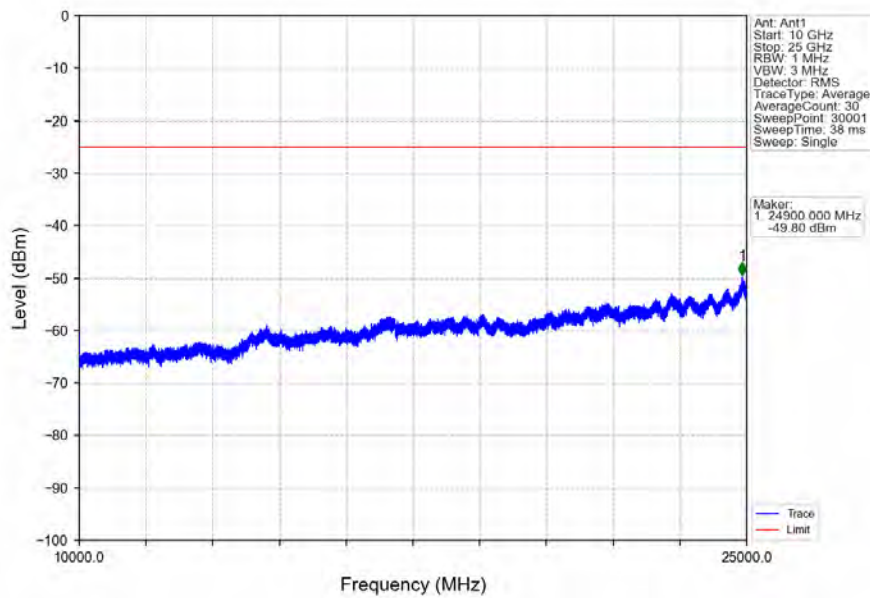
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Band7\_5MHz\_QPSK\_LCH\_2502.5MHz\_RB\_1\_0\_NTNV



Band7\_5MHz\_QPSK\_LCH\_2502.5MHz\_RB\_1\_0\_NTNV



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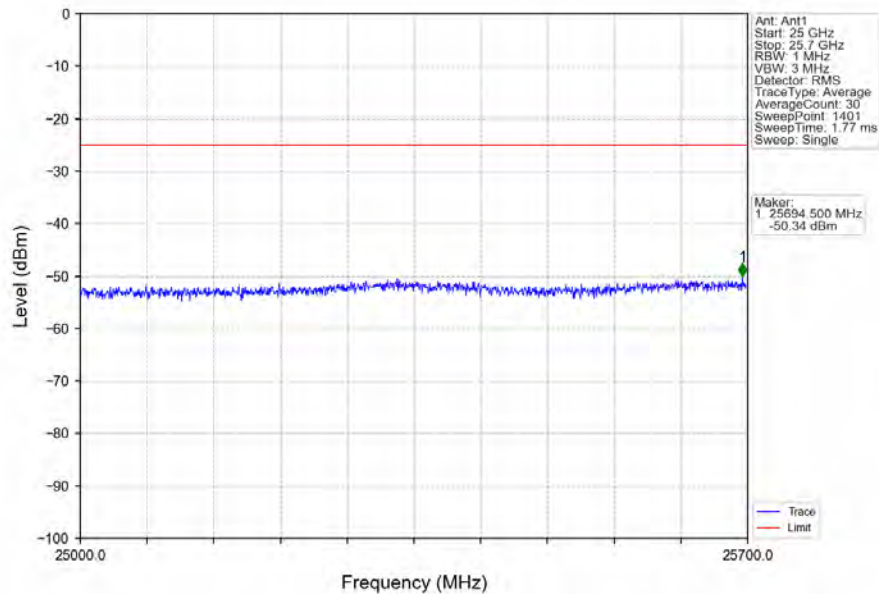


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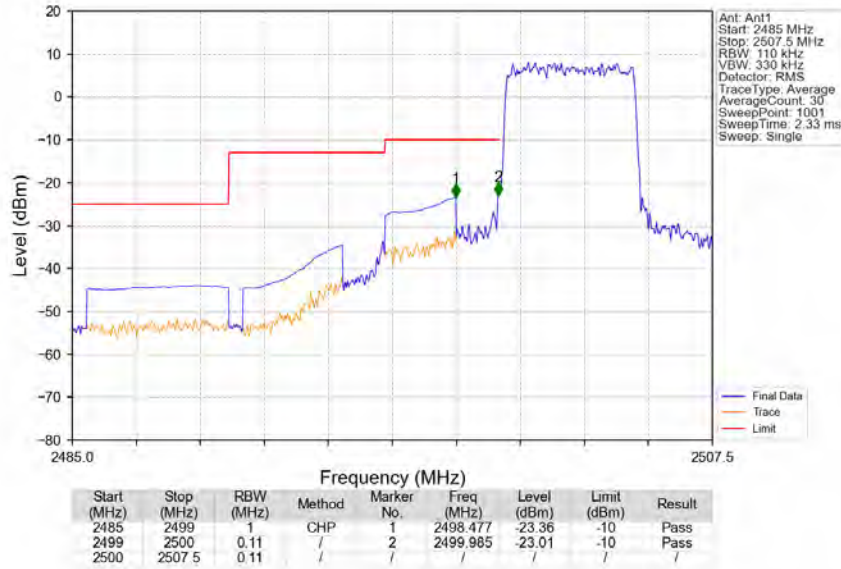
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Band7\_5MHz\_QPSK\_LCH\_2502.5MHz\_RB\_25\_0\_NTNV



Band7\_5MHz\_QPSK\_MCH\_2535MHz\_RB\_1\_0\_NTNV



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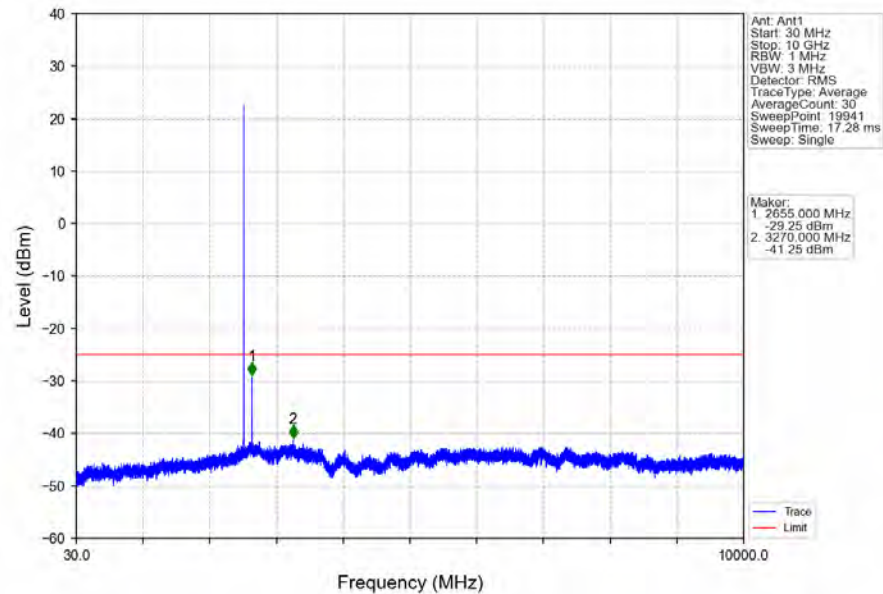


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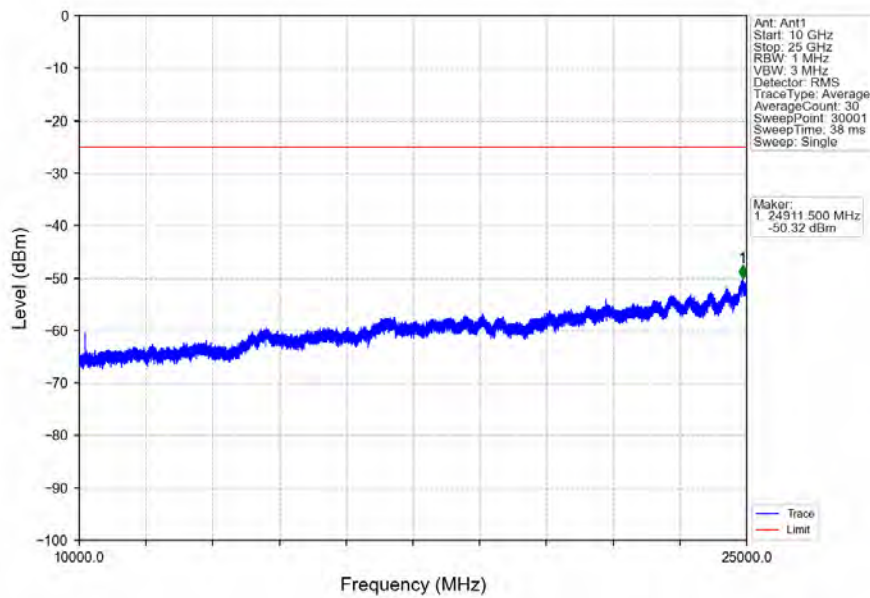
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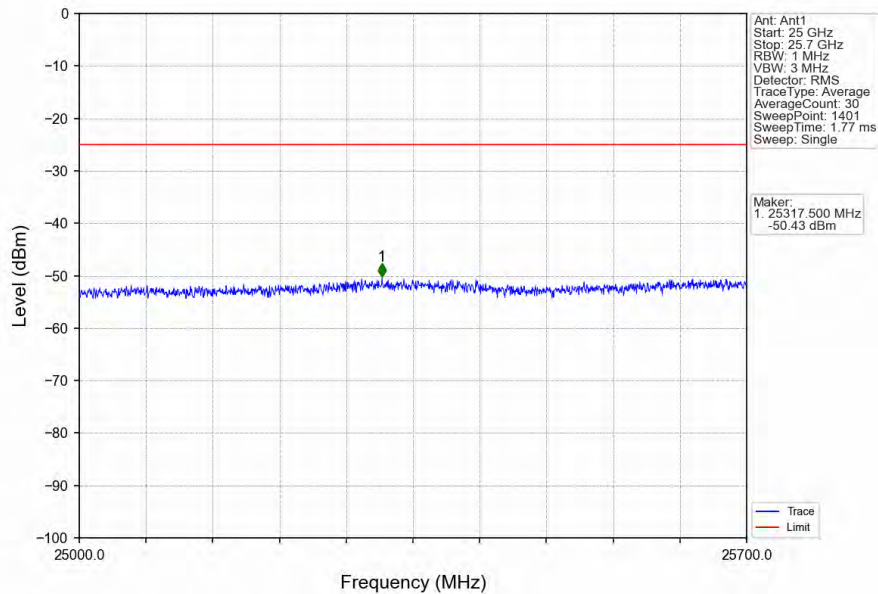


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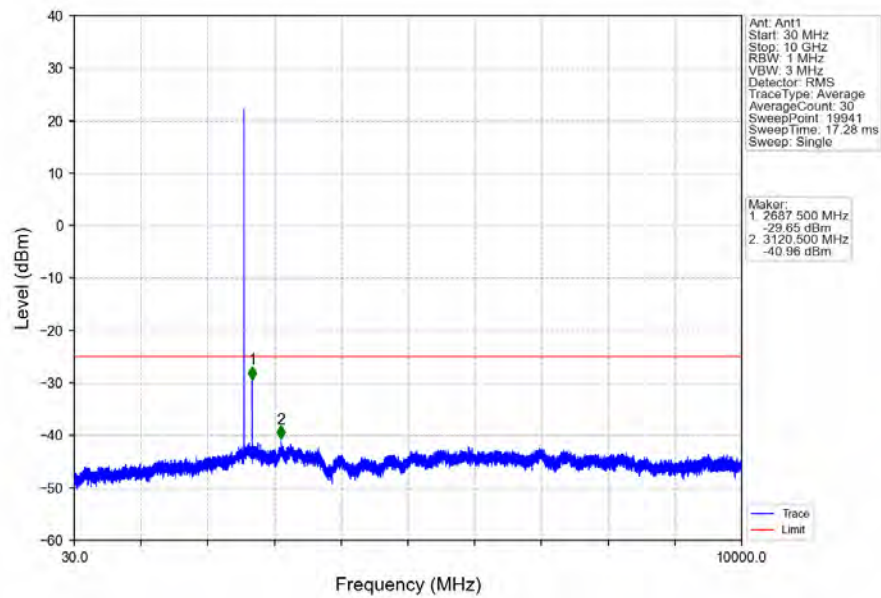
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Band7\_5MHz\_QPSK\_HCH\_2567.5MHz\_RB\_1\_0\_NTNV



Band7\_5MHz\_QPSK\_HCH\_2567.5MHz\_RB\_1\_0\_NTNV



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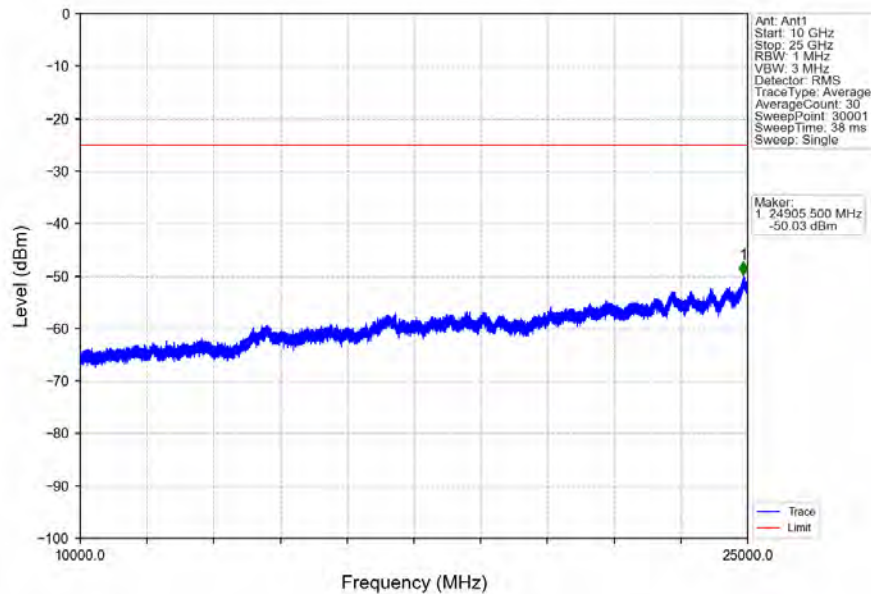


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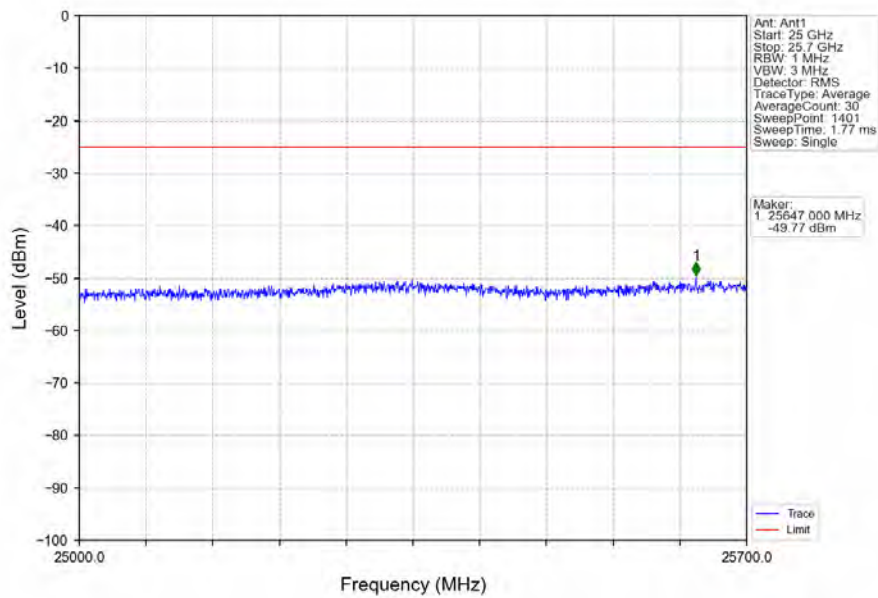
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Band7\_5MHz\_QPSK\_HCH\_2567.5MHz\_RB\_1\_24\_NTNV



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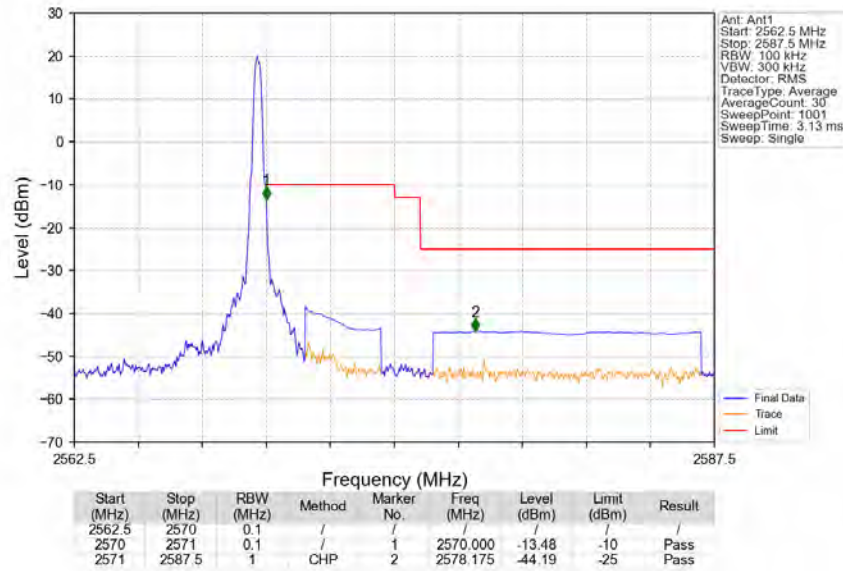


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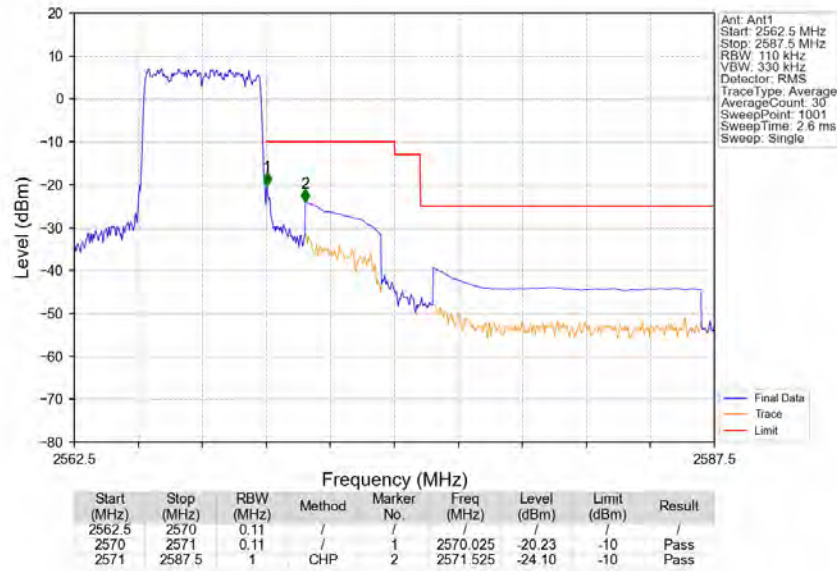
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Band7\_5MHz\_16QAM\_LCH\_2502.5MHz\_RB\_1\_0\_NTNV



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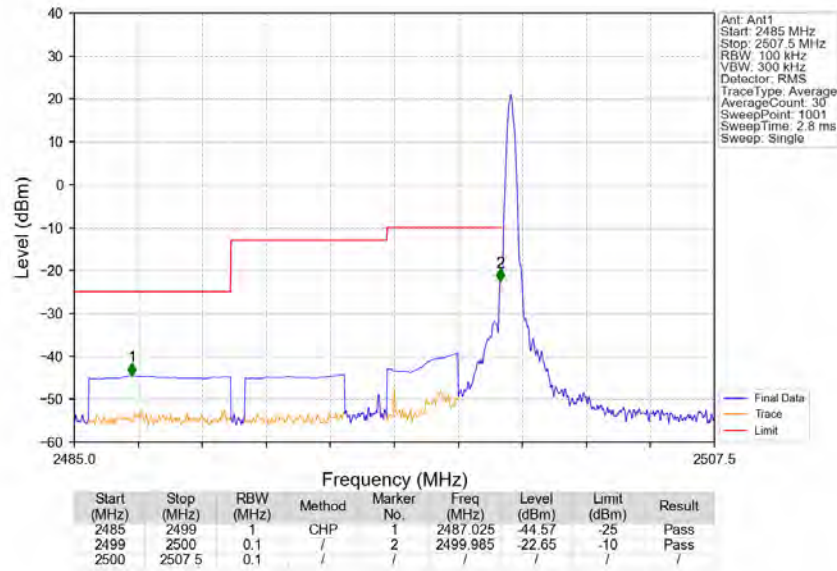


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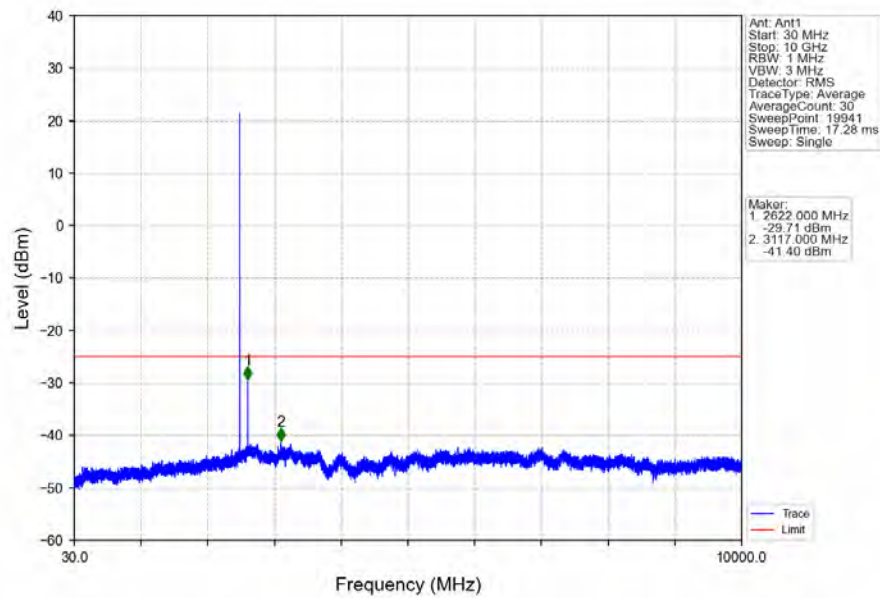
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Band7\_5MHz\_16QAM\_LCH\_2502.5MHz\_RB\_1\_0\_NTNV



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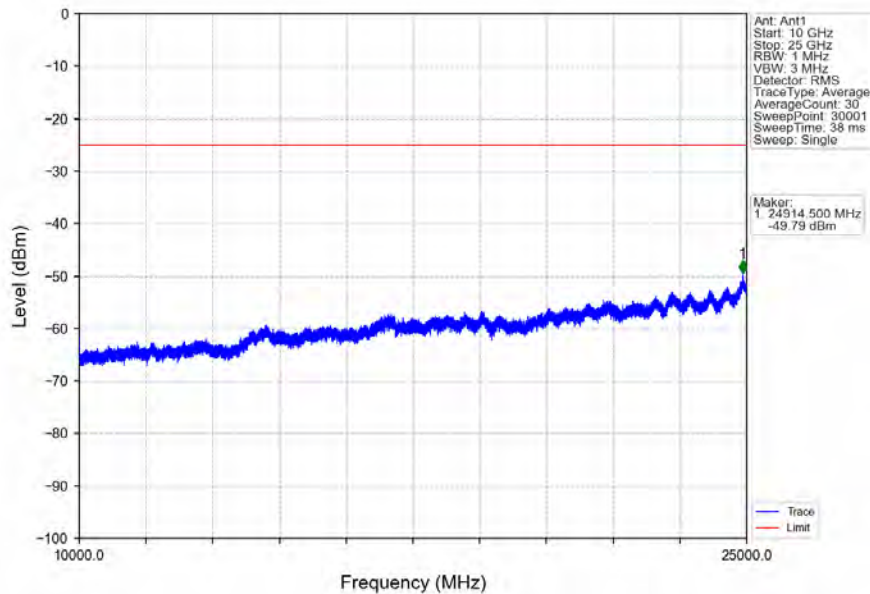


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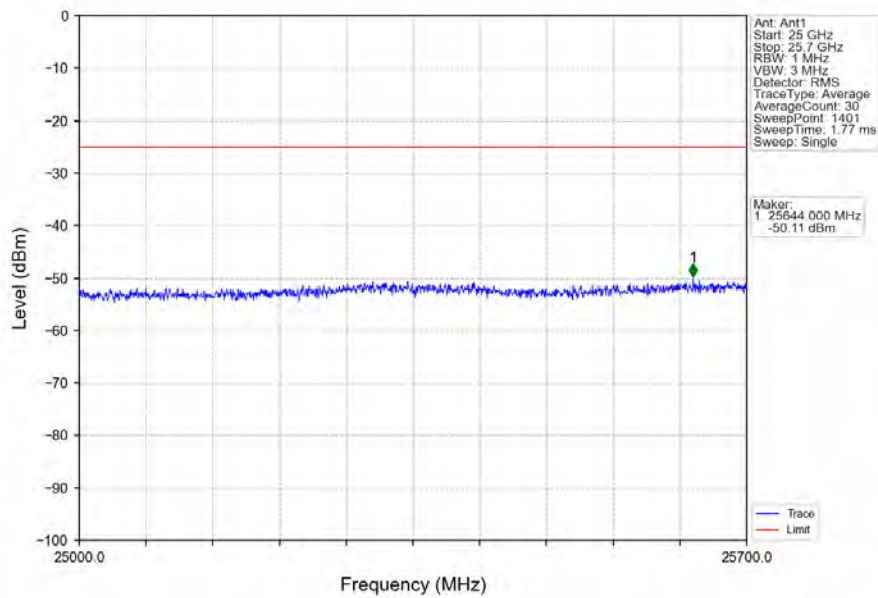
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Band7\_5MHz\_16QAM\_LCH\_2502.5MHz\_RB\_25\_0\_NTNV



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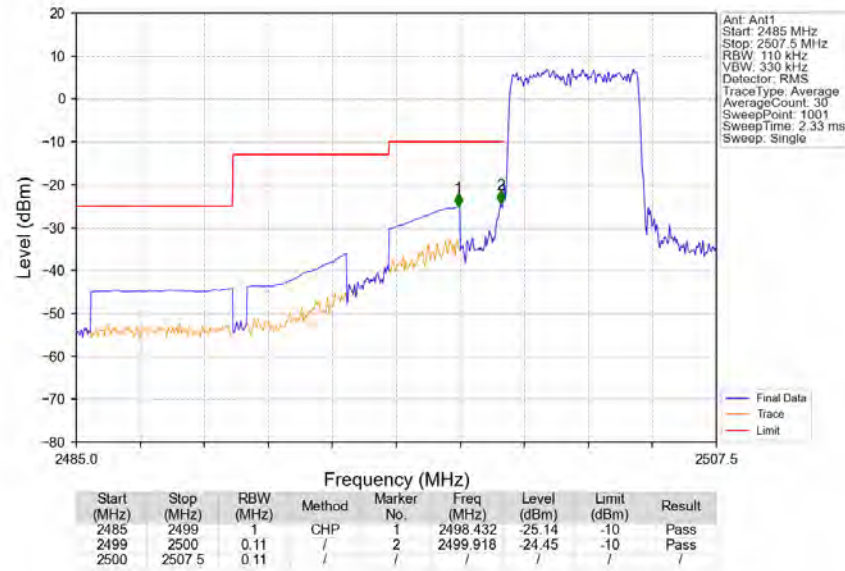


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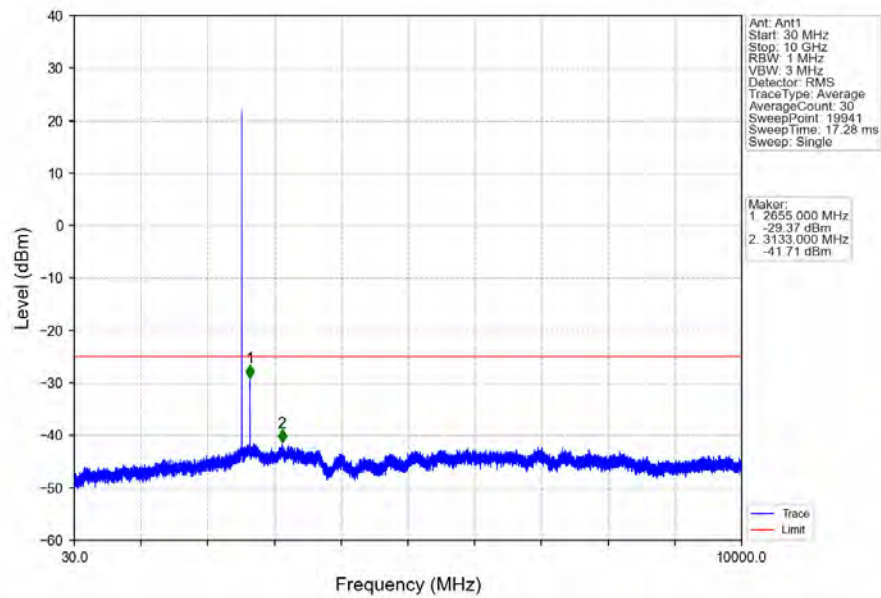
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Band7\_5MHz\_16QAM\_MCH\_2535MHz\_RB\_1\_0\_NTNV



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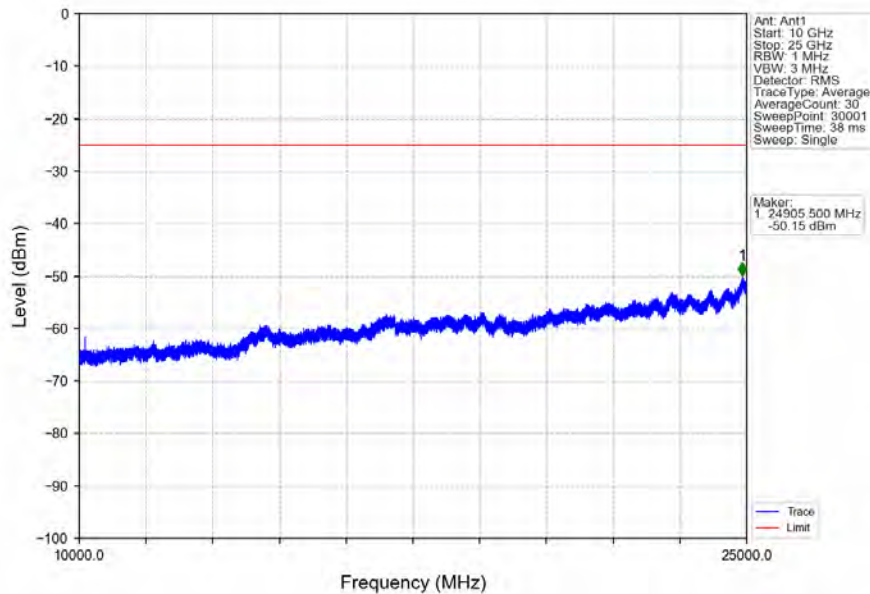


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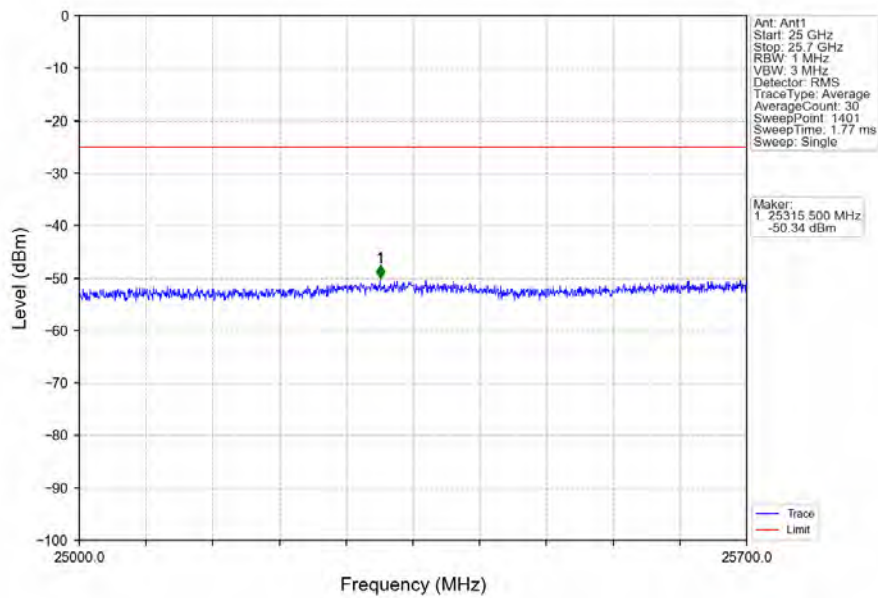
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Band7\_5MHz\_16QAM\_HCH\_2567.5MHz\_RB\_1\_0\_NTNV



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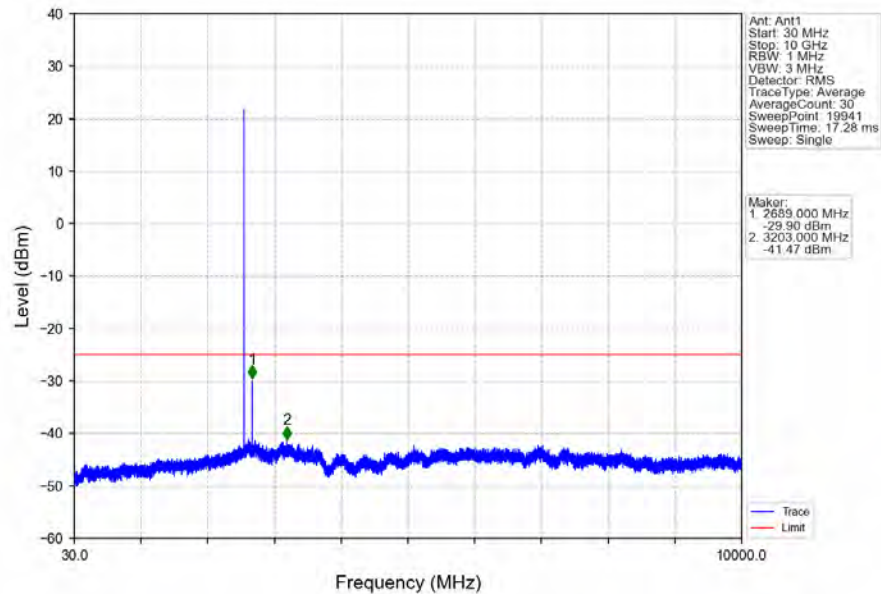


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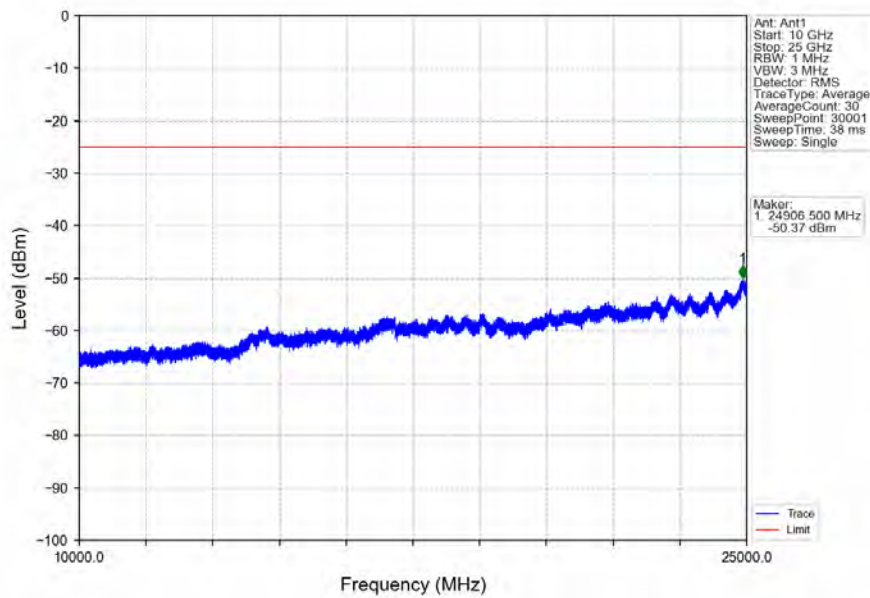
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Band7\_5MHz\_16QAM\_HCH\_2567.5MHz\_RB\_1\_0\_NTNV



Band7\_5MHz\_16QAM\_HCH\_2567.5MHz\_RB\_1\_0\_NTNV



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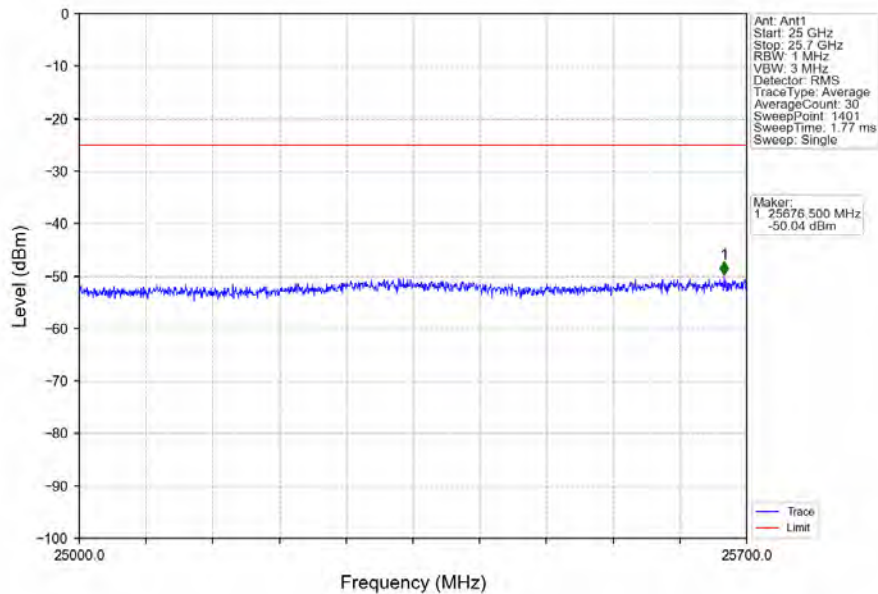


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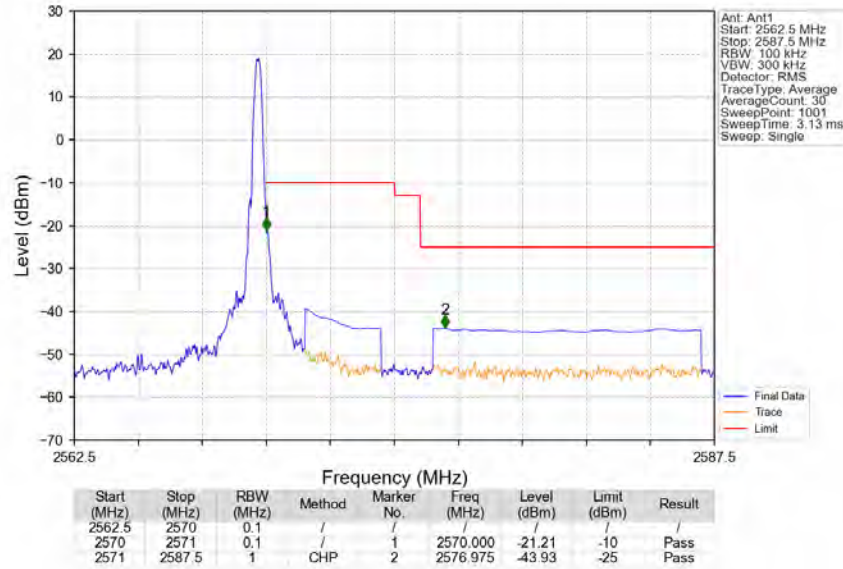
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Band7\_5MHz\_16QAM\_HCH\_2567.5MHz\_RB\_1\_24\_NTNV



Band7\_5MHz\_16QAM\_HCH\_2567.5MHz\_RB\_25\_0\_NTNV



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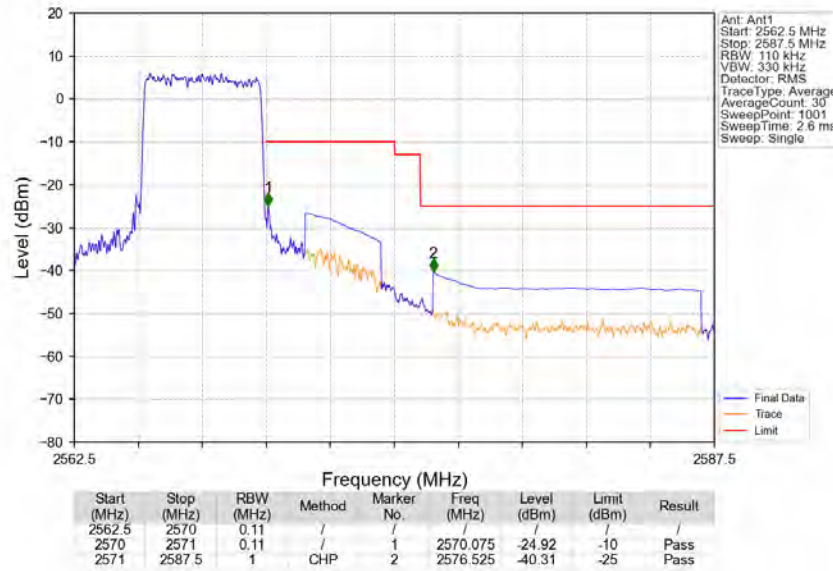


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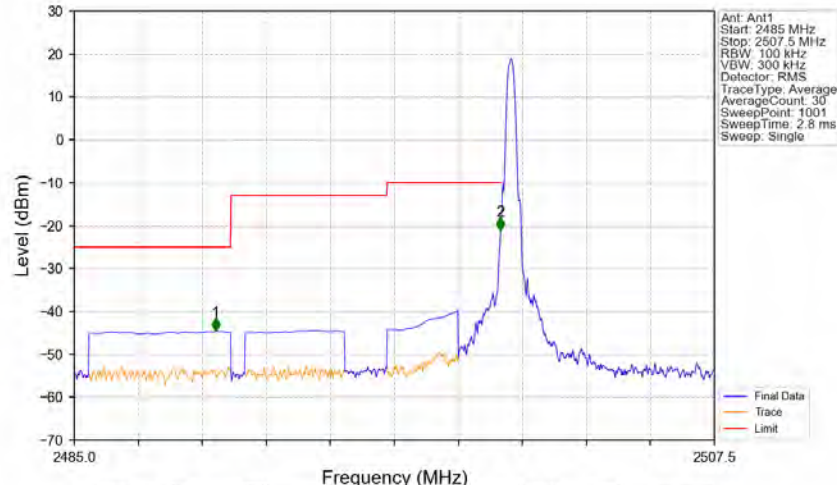
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Band7\_5MHz\_64QAM\_LCH\_2502.5MHz\_RB\_1\_0\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2485        | 2499       | 1         | CHP    | 1          | 2489.972   | -44.63      | -25         | Pass   |
| 2499        | 2500       | 0.1       | /      | 2          | 2499.985   | -21.17      | -10         | Pass   |
| 2500        | 2507.5     | 0.1       | /      | /          | /          | /           | /           | /      |

Band7\_5MHz\_64QAM\_LCH\_2502.5MHz\_RB\_1\_0\_NTNV



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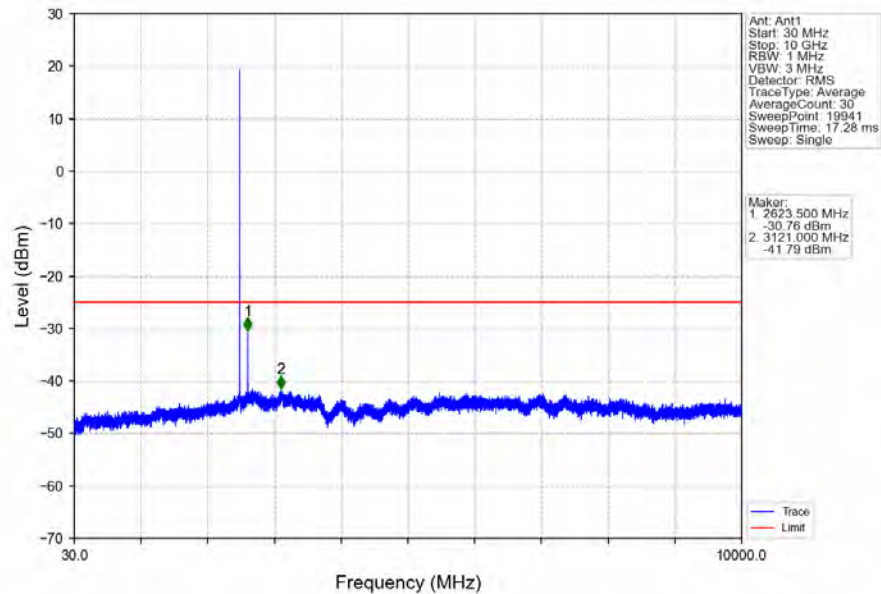


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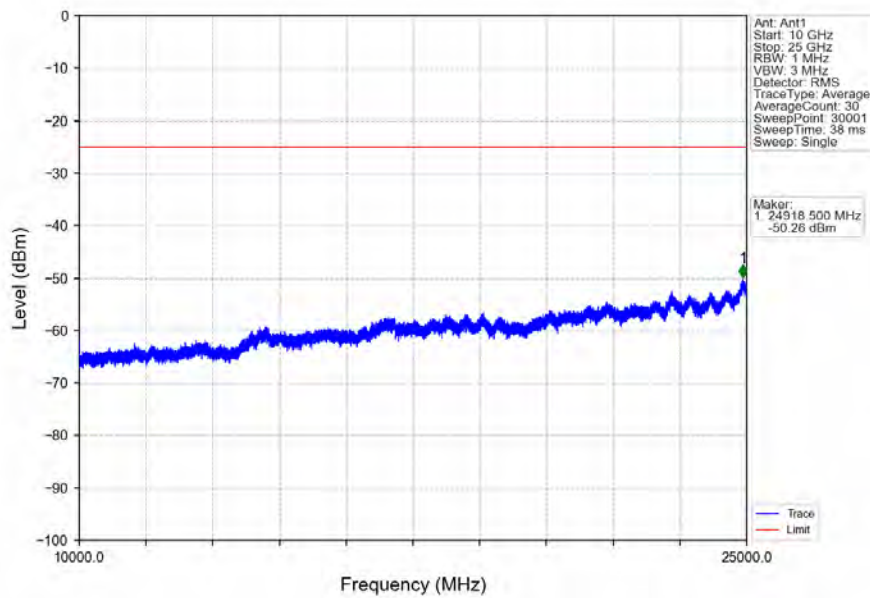
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Band7\_5MHz\_64QAM\_LCH\_2502.5MHz\_RB\_1\_0\_NTNV



Band7\_5MHz\_64QAM\_LCH\_2502.5MHz\_RB\_1\_0\_NTNV



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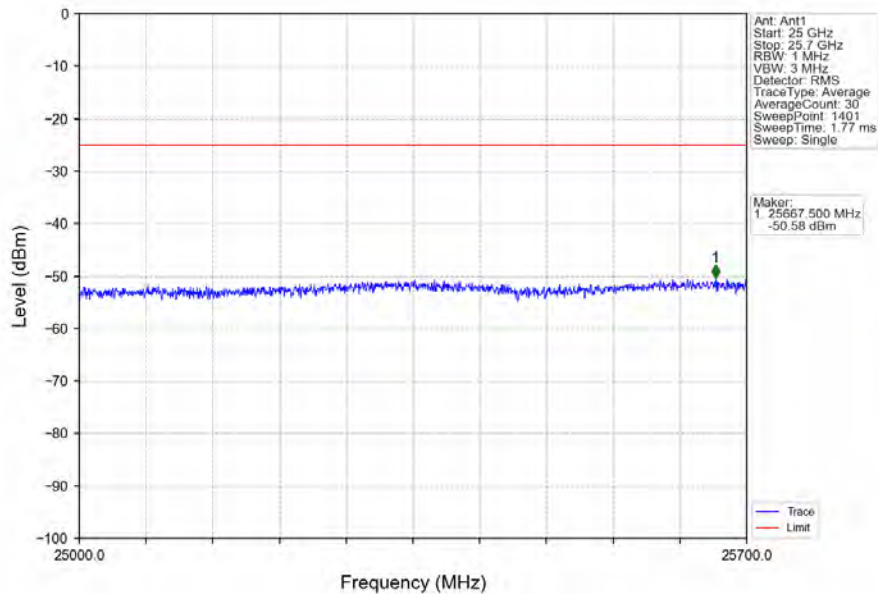


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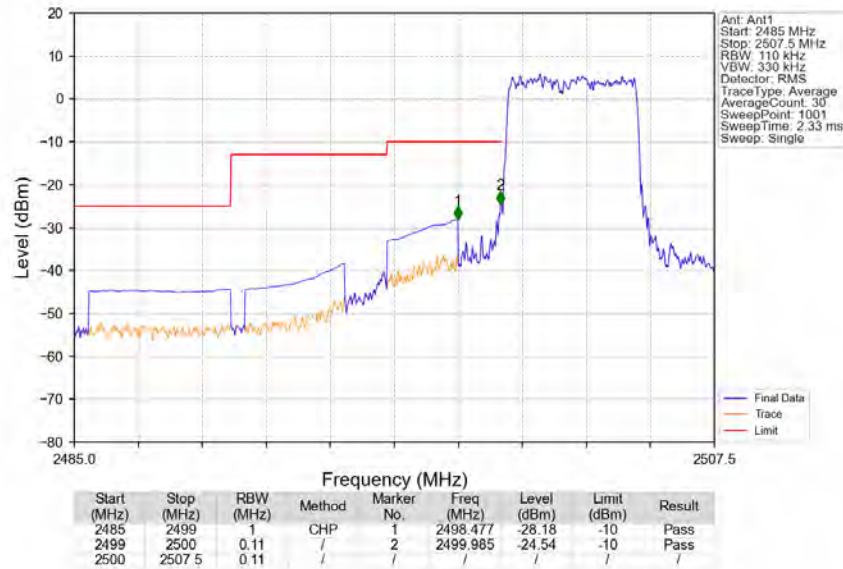
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Band7\_5MHz\_64QAM\_LCH\_2502.5MHz\_RB\_25\_0\_NTNV



Band7\_5MHz\_64QAM\_MCH\_2535MHz\_RB\_1\_0\_NTNV



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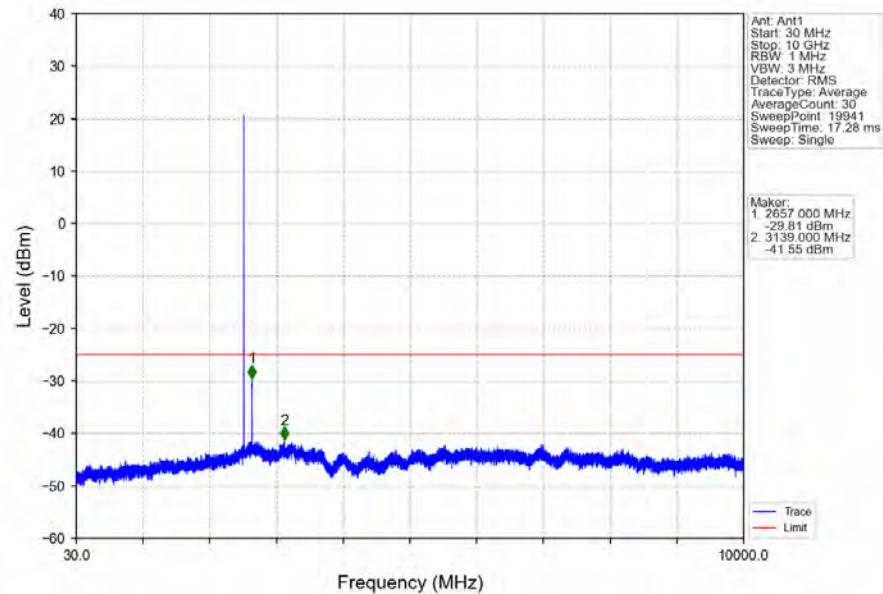


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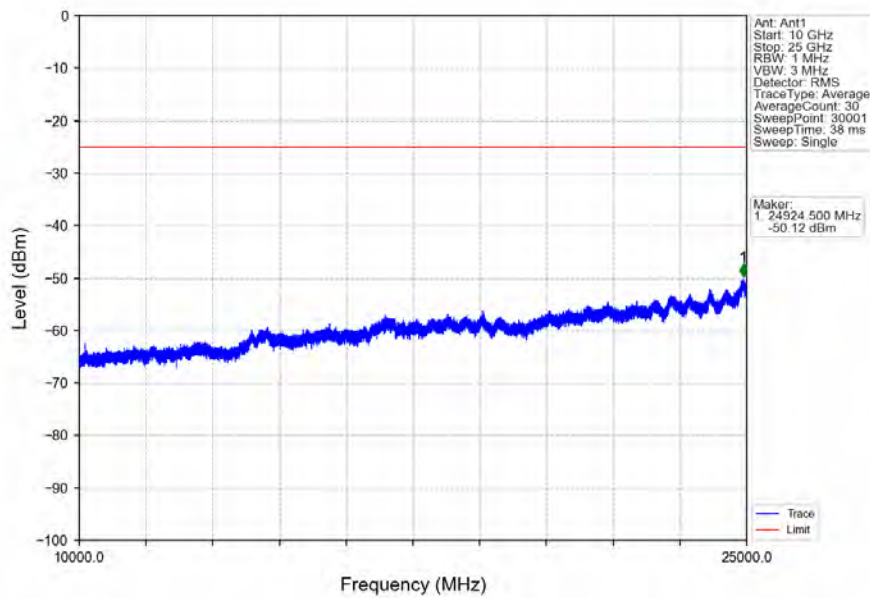
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Band7\_5MHz\_64QAM\_MCH\_2535MHz\_RB\_1\_0\_NTNV



Band7\_5MHz\_64QAM\_MCH\_2535MHz\_RB\_1\_0\_NTNV



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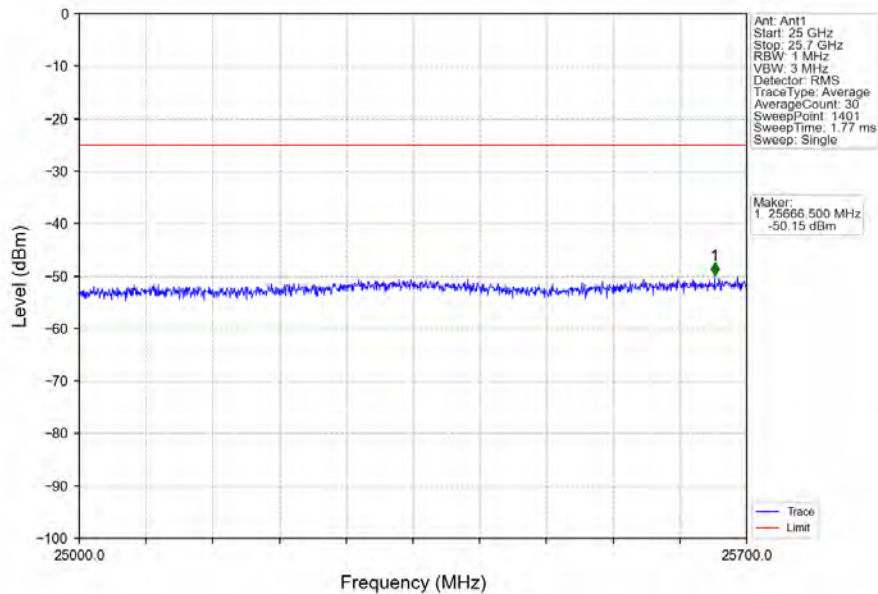


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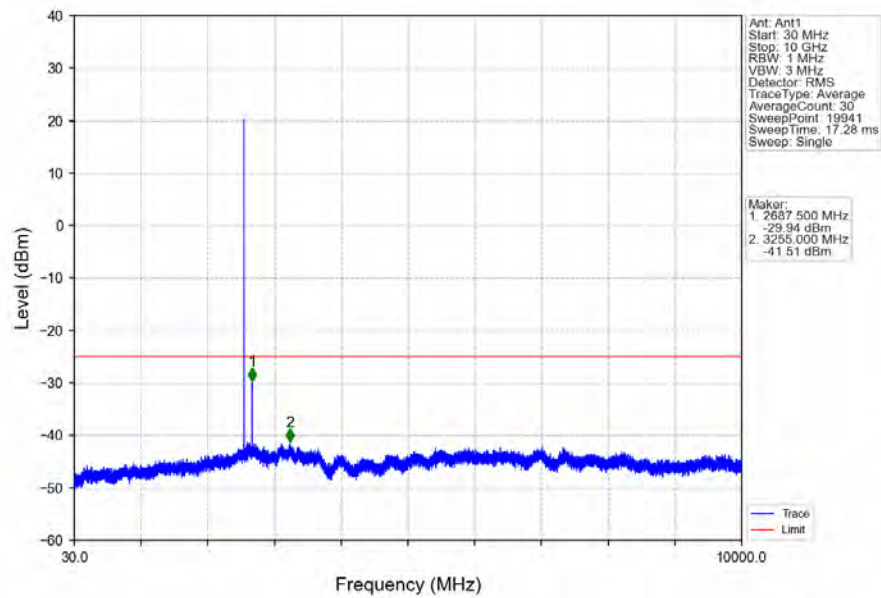
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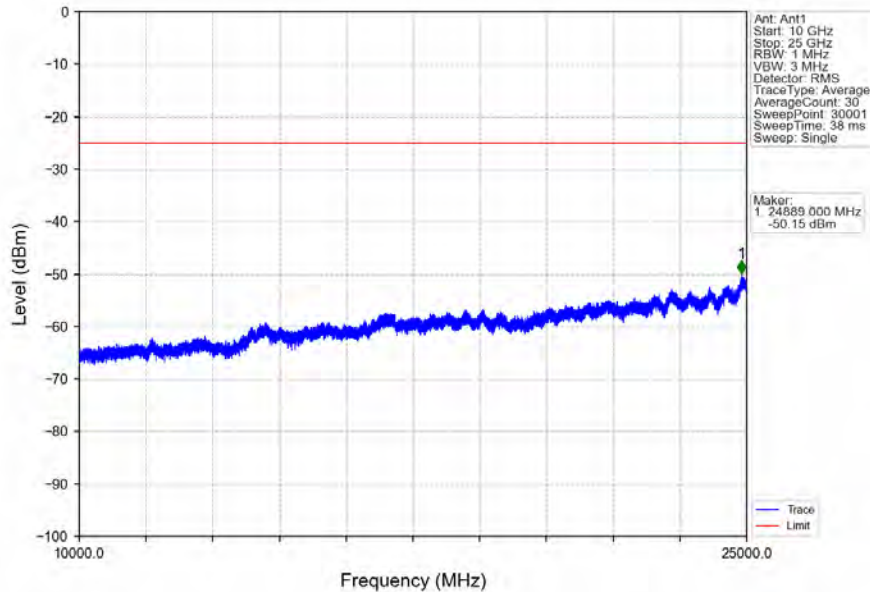


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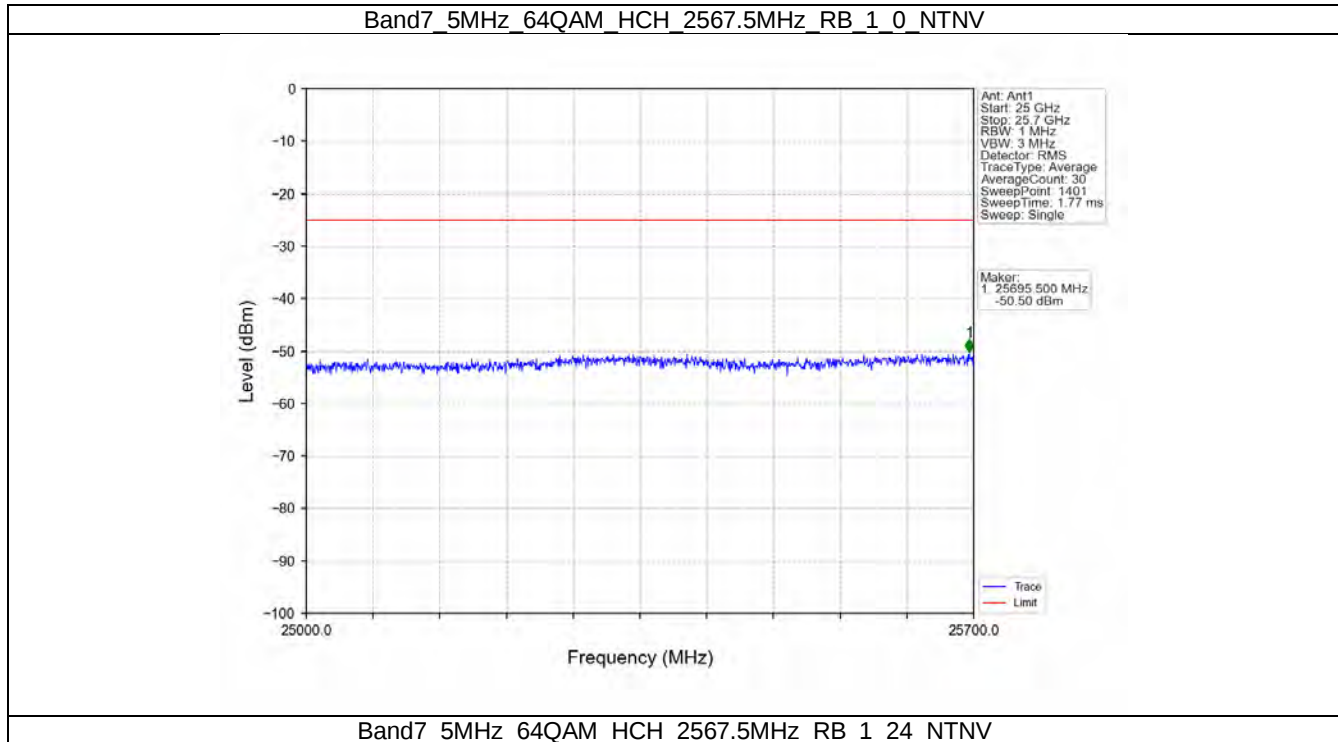


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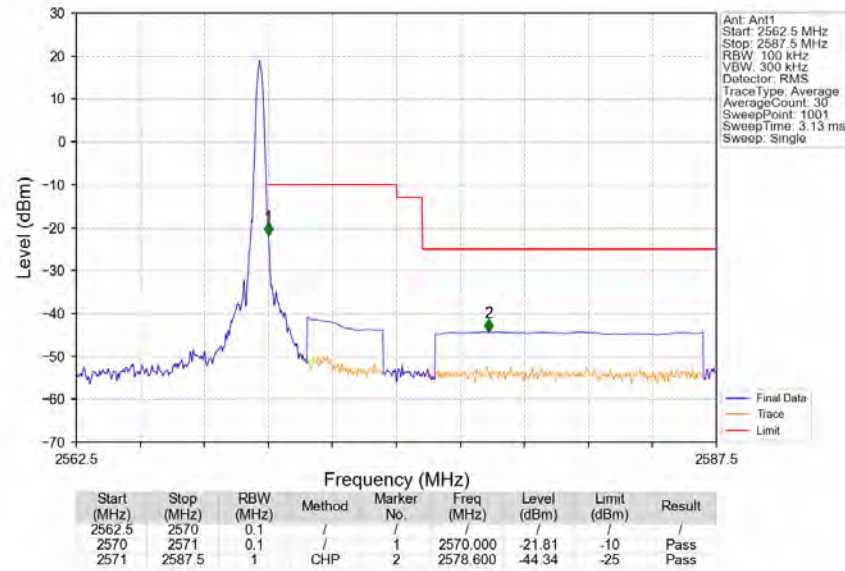


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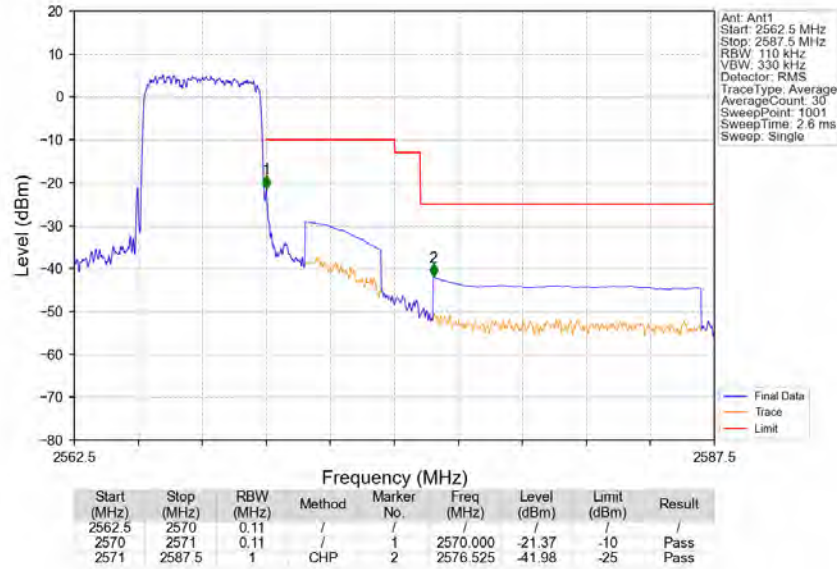
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Band7\_5MHz\_64QAM\_HCH\_2567.5MHz\_RB\_25\_0\_NTNV



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## 5.2 B7\_10MHz

### 5.2.1 Test Result

| Band: 7 / Bandwidth: 10MHz / NTN |                 |               |        |                     |       |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       |
|                                  |                 | Size          | Offset | Result              | Limit |
| QPSK                             | 2505            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 | 50            | 0      | Refer To Test Graph | Pass  |
|                                  | 2535            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  | 2565            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 |               | 49     | Refer To Test Graph | Pass  |
|                                  |                 | 50            | 0      | Refer To Test Graph | Pass  |
| 16QAM                            | 2505            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 | 50            | 0      | Refer To Test Graph | Pass  |
|                                  | 2535            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  | 2565            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 |               | 49     | Refer To Test Graph | Pass  |
|                                  |                 | 50            | 0      | Refer To Test Graph | Pass  |
| 64QAM                            | 2505            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 | 50            | 0      | Refer To Test Graph | Pass  |
|                                  | 2535            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  | 2565            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 |               | 49     | Refer To Test Graph | Pass  |
|                                  |                 | 50            | 0      | Refer To Test Graph | Pass  |



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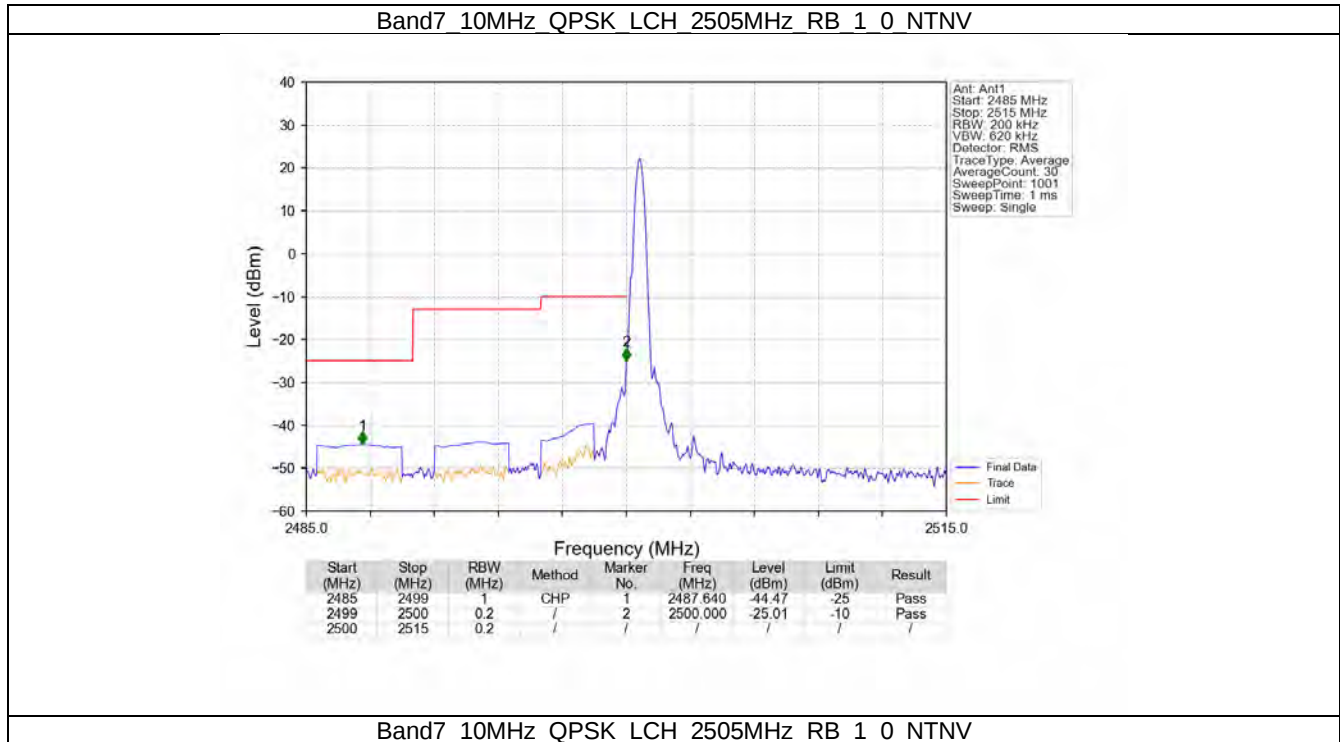
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## 5.2.2 Test Graph



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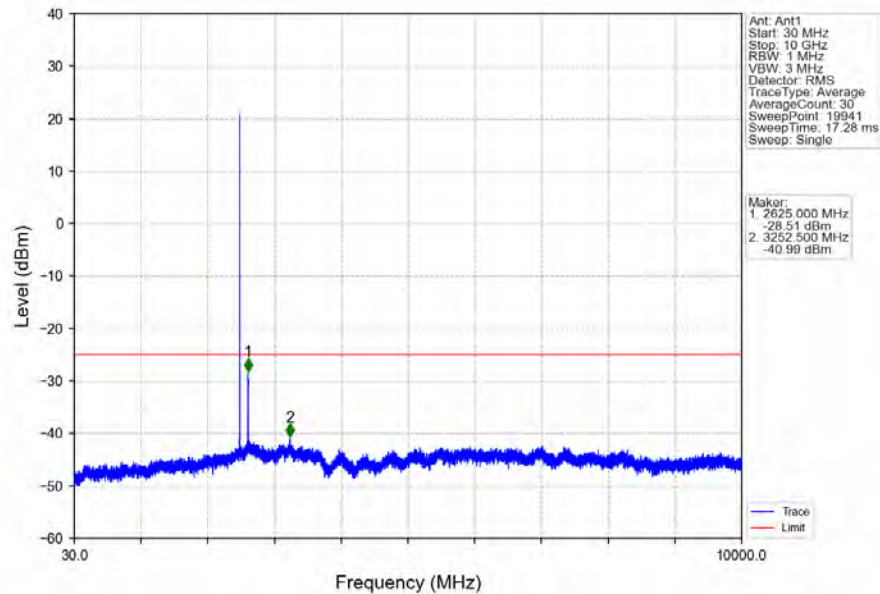


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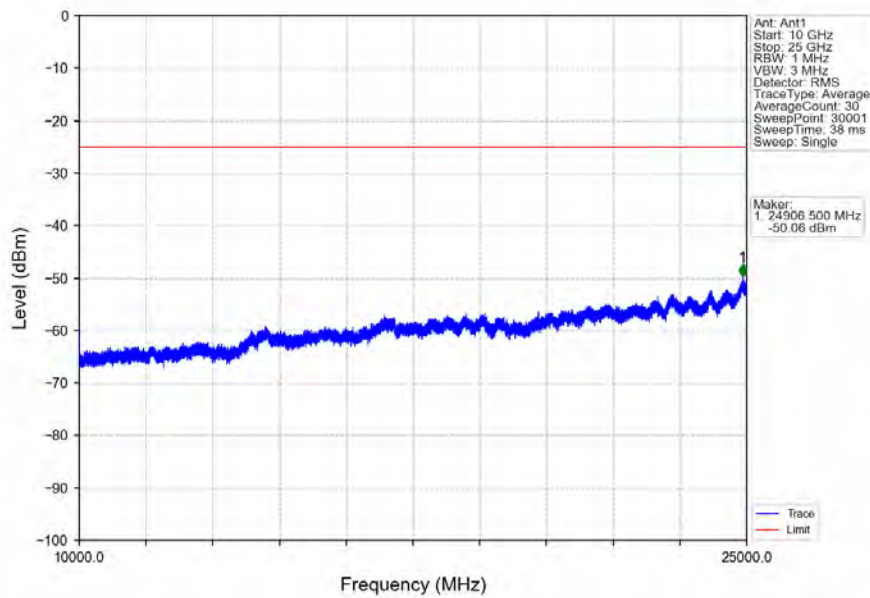
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Band7\_10MHz\_QPSK\_LCH\_2505MHz\_RB\_1\_0\_NTNV



Band7\_10MHz\_QPSK\_LCH\_2505MHz\_RB\_1\_0\_NTNV



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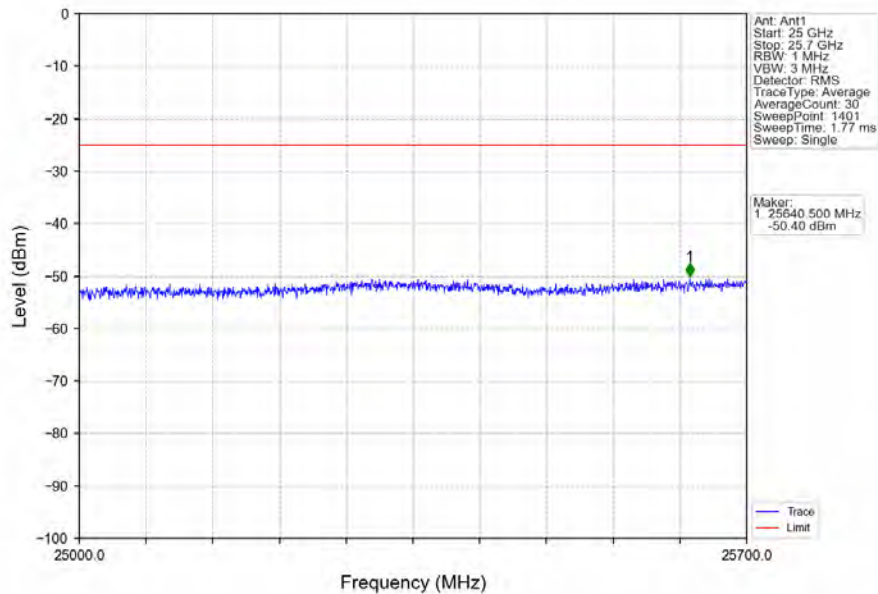


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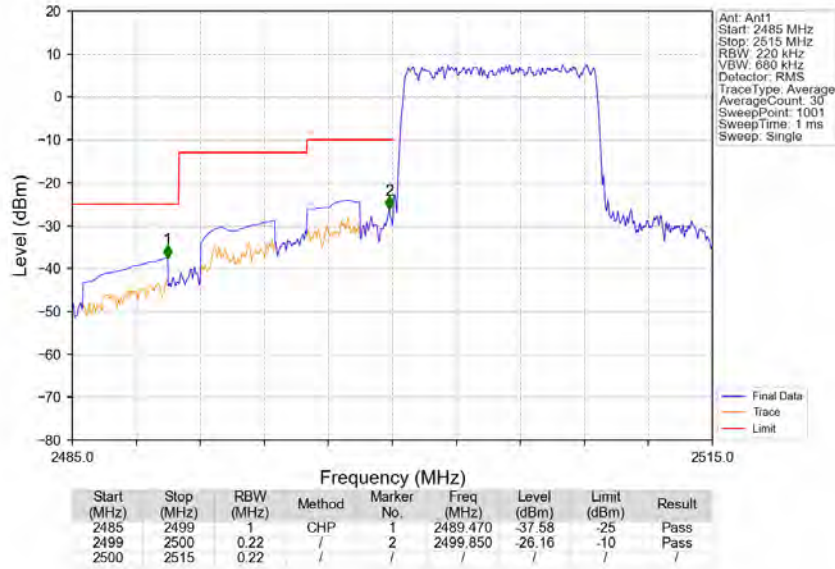
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Band7 10MHz QPSK LCH 2505MHz RB 50 0 NTNV



Band7 10MHz QPSK MCH 2535MHz RB 1 0 NTNV



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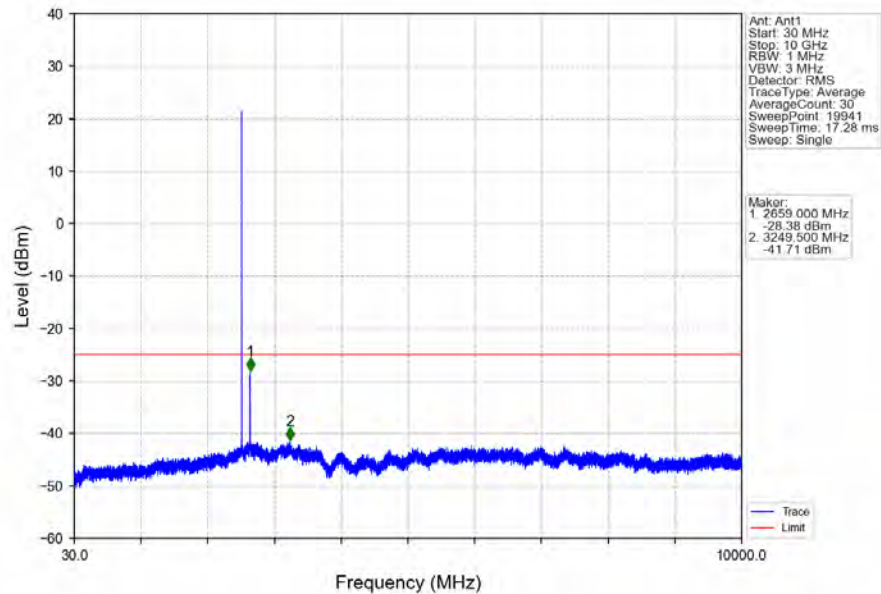


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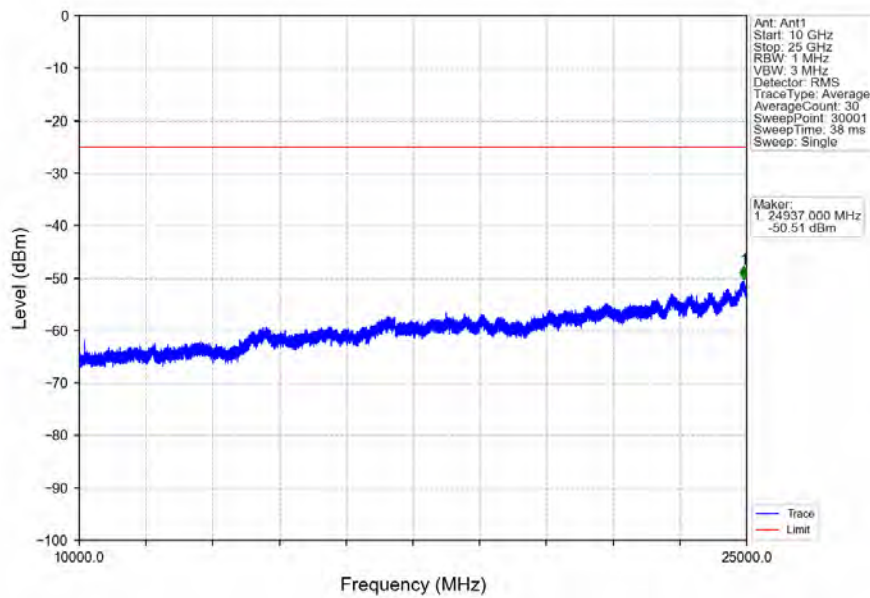
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Band7\_10MHz\_QPSK\_MCH\_2535MHz\_RB\_1\_0\_NTNV



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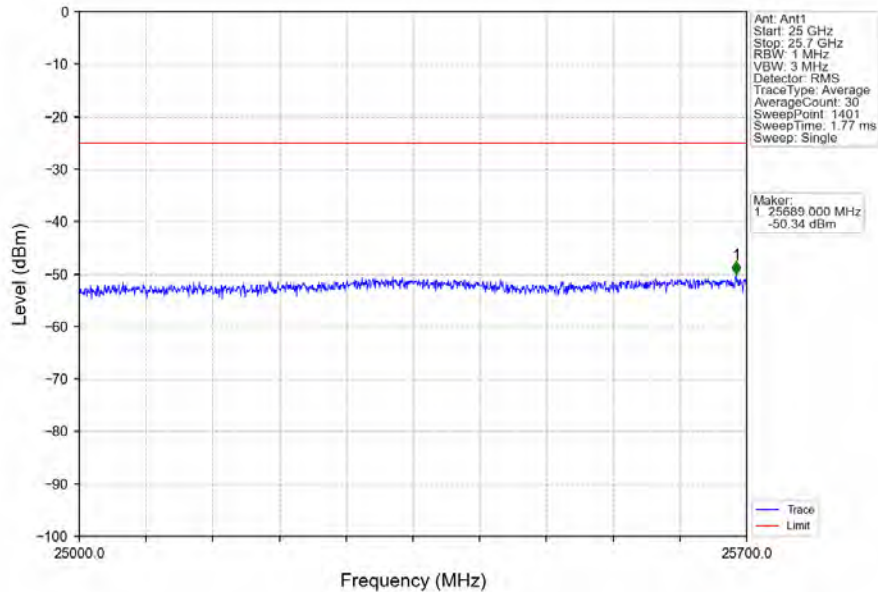


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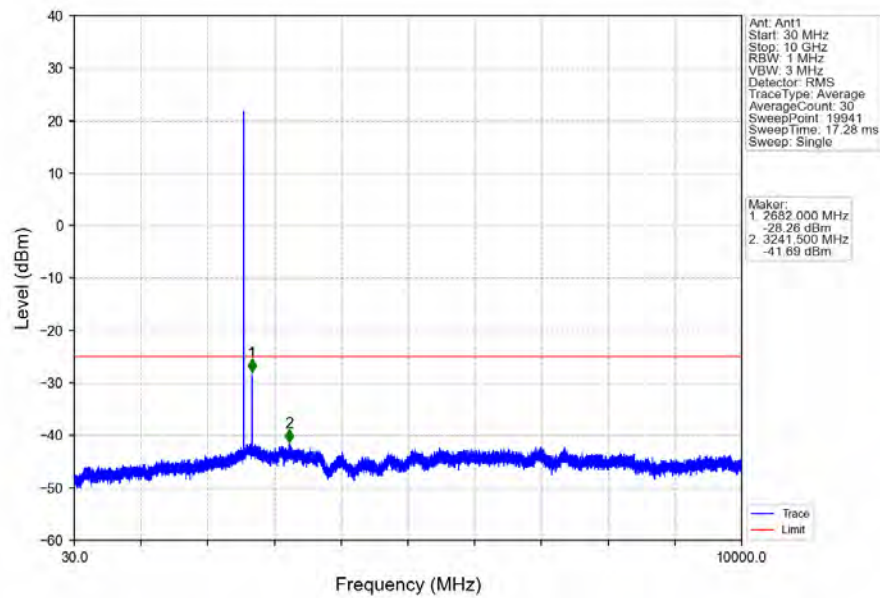
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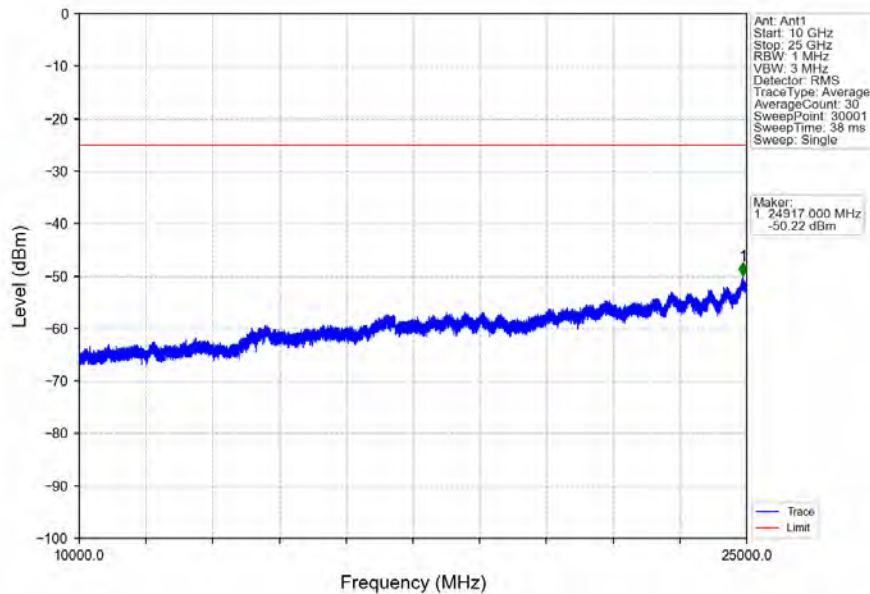


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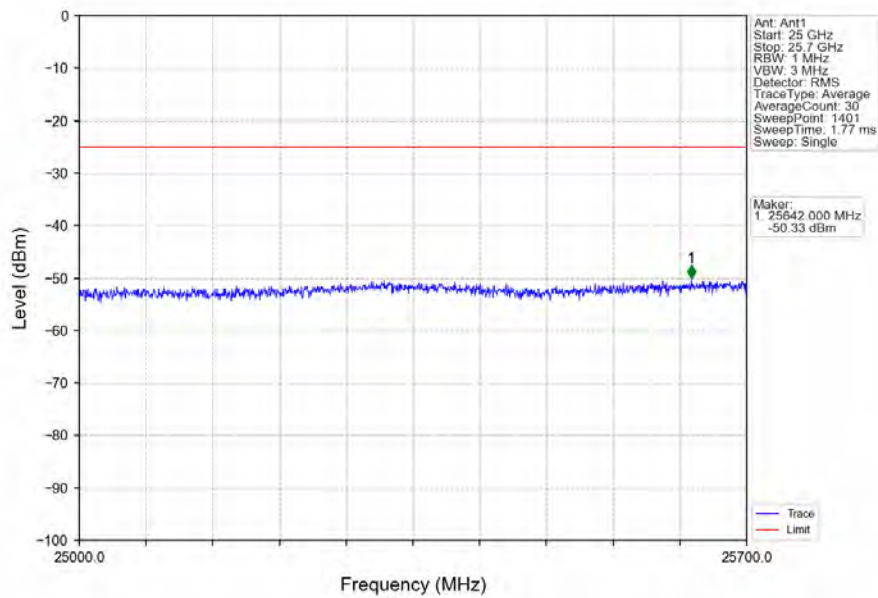
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Band7\_10MHz\_QPSK\_HCH\_2565MHz\_RB\_1\_0\_NTNV



Band7\_10MHz\_QPSK\_HCH\_2565MHz\_RB\_1\_49\_NTNV



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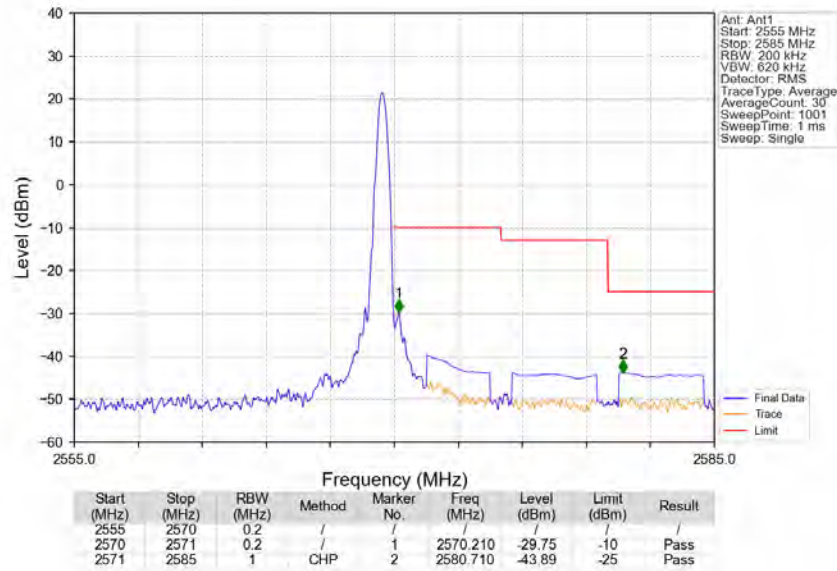


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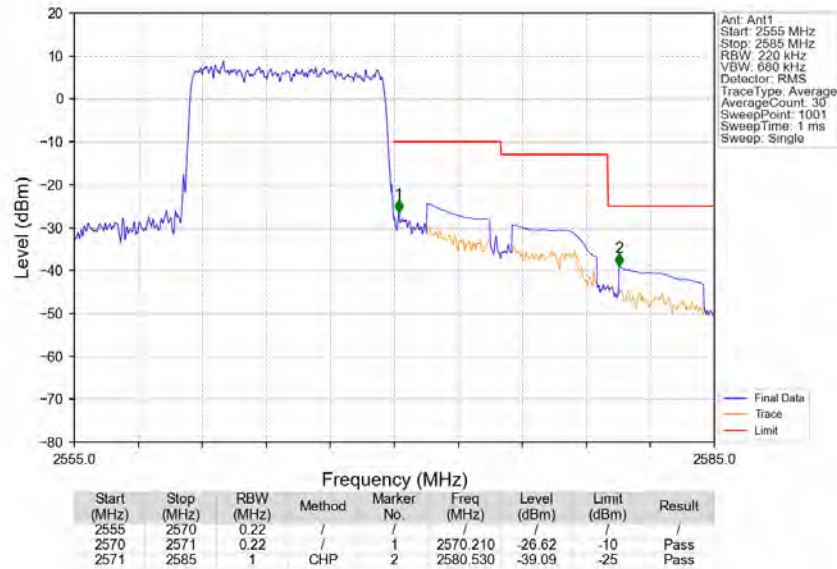
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## Band7 10MHz QPSK HCH 2565MHz RB 50 0 NTV



## Band7 10MHz 16QAM LCH 2505MHz RB 1 0 NTV



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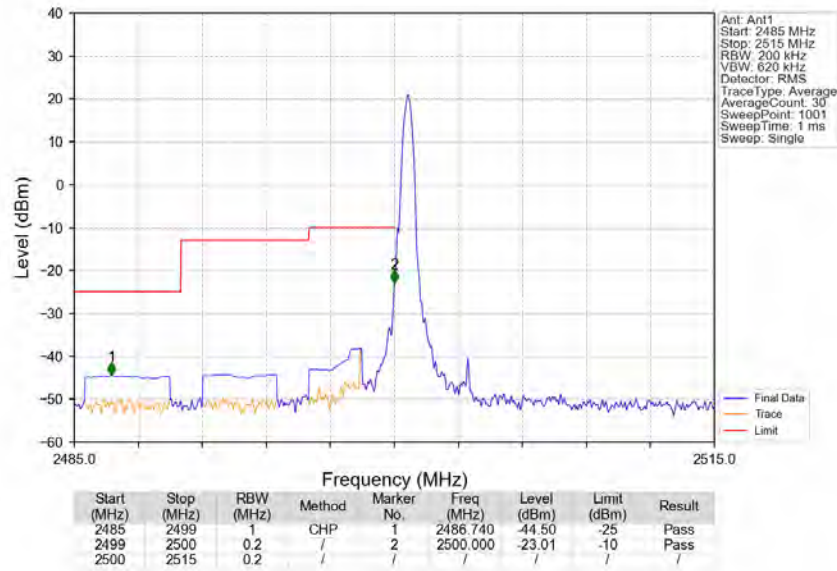


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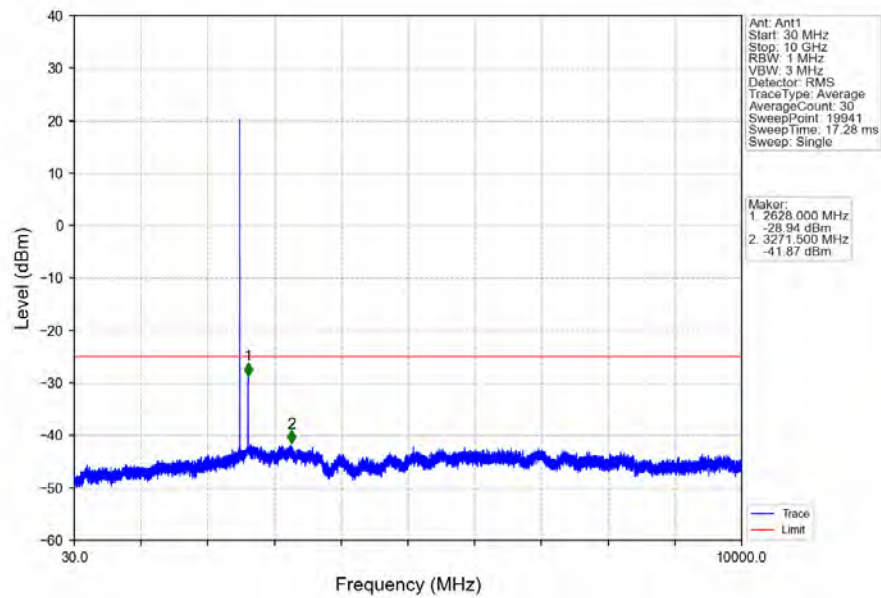
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Band7 10MHz 16QAM LCH 2505MHz RB 1 0 NTNV



Band7 10MHz 16QAM LCH 2505MHz RB 1 0 NTNV



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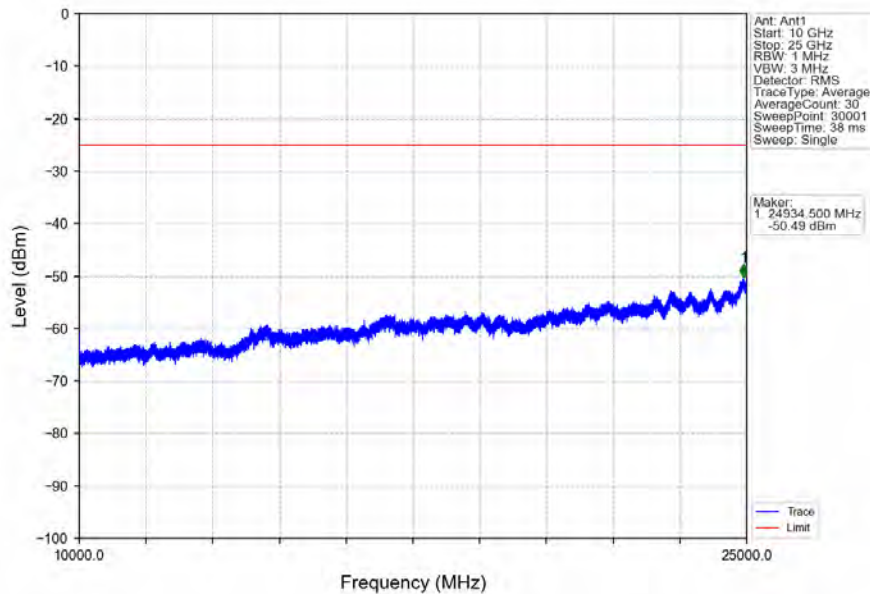


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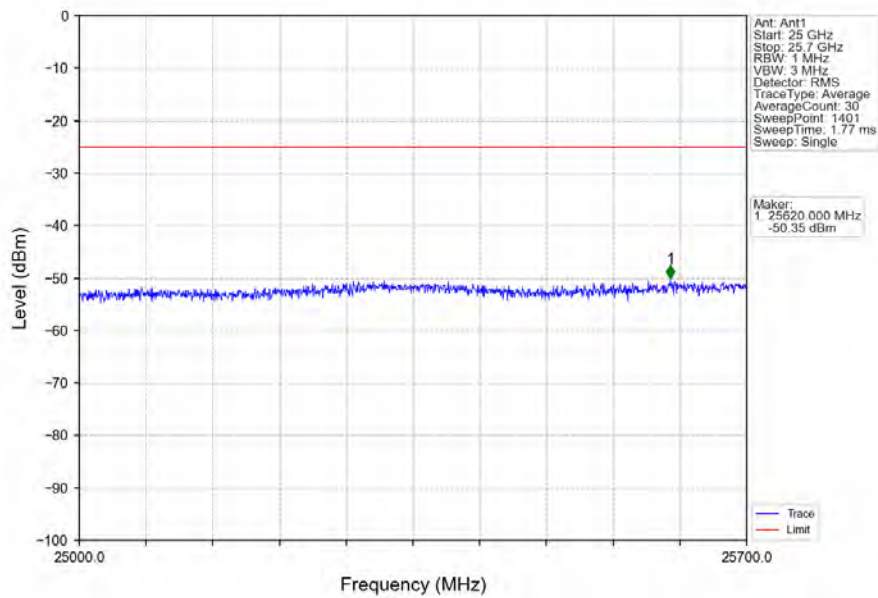
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Band7 10MHz 16QAM LCH 2505MHz RB 50 0 NTNV



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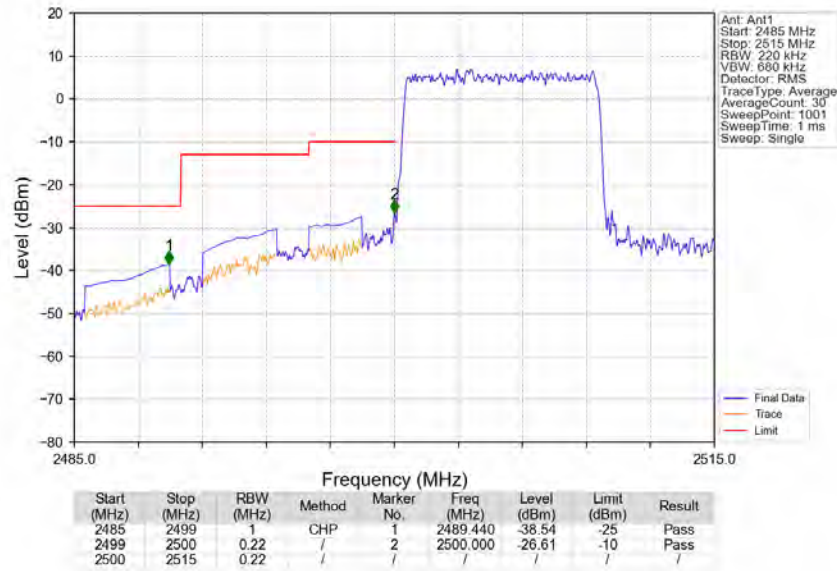


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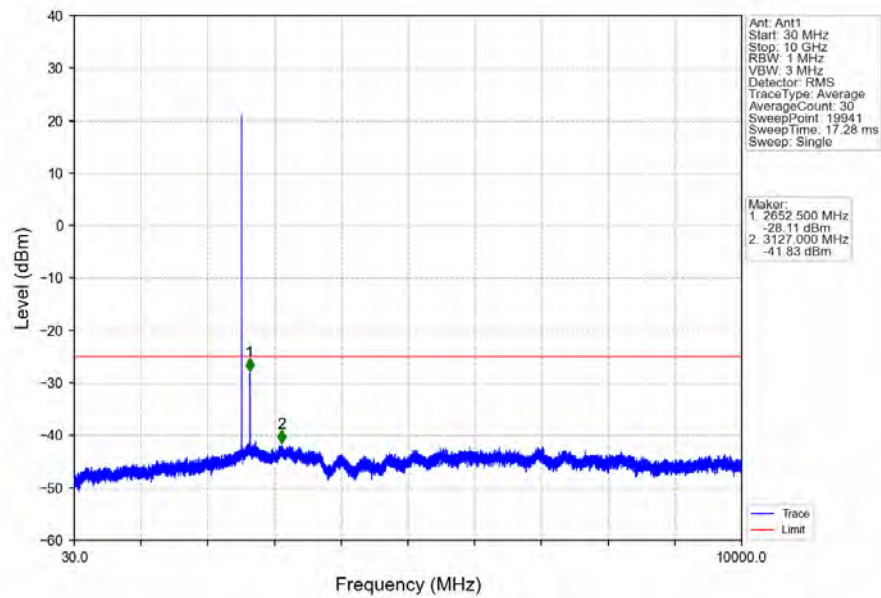
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Band7\_10MHz\_16QAM\_MCH\_2535MHz\_RB\_1\_0\_NTNV



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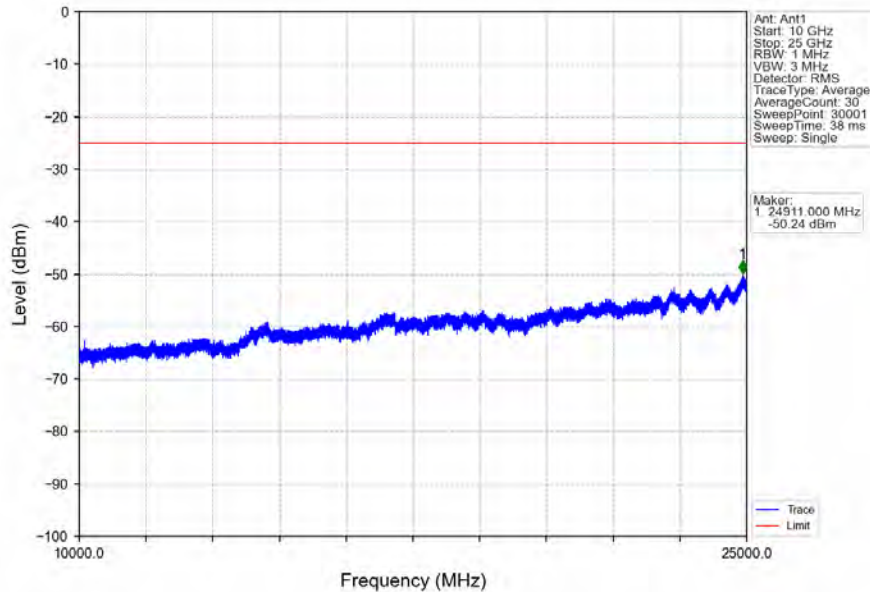


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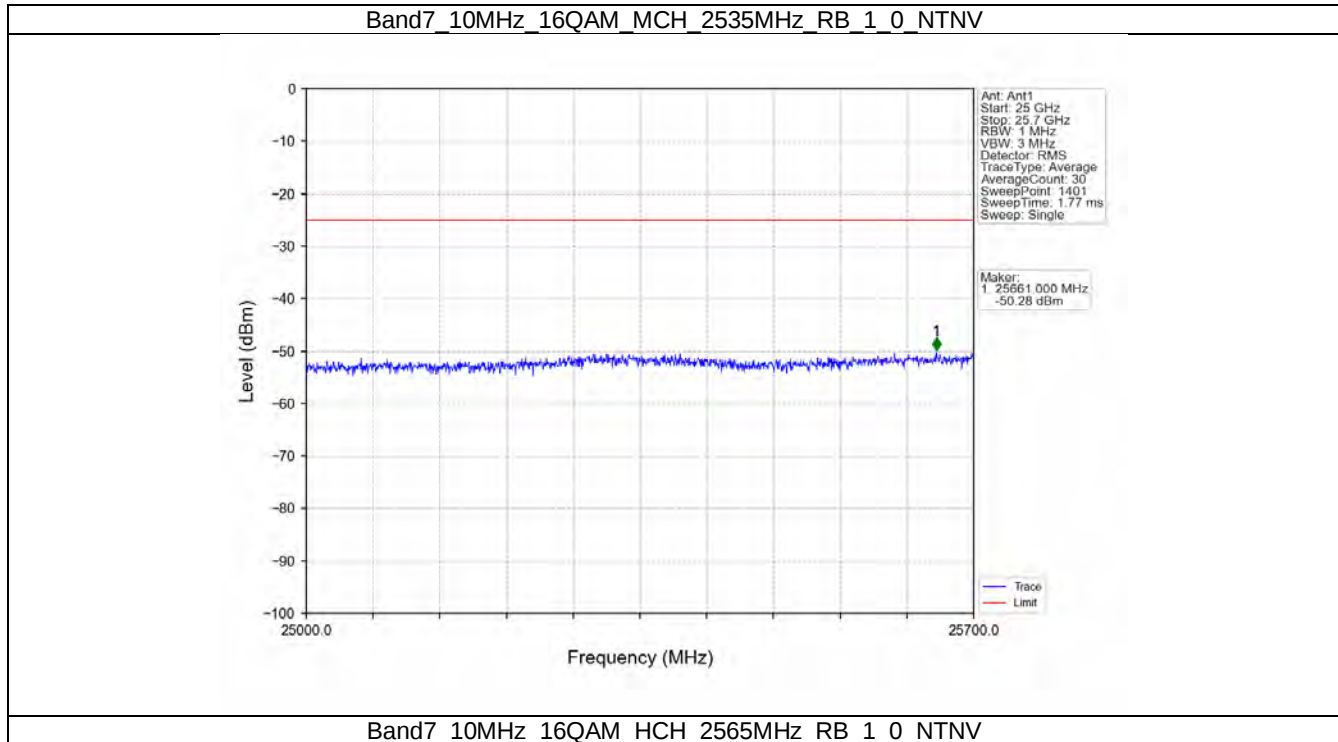


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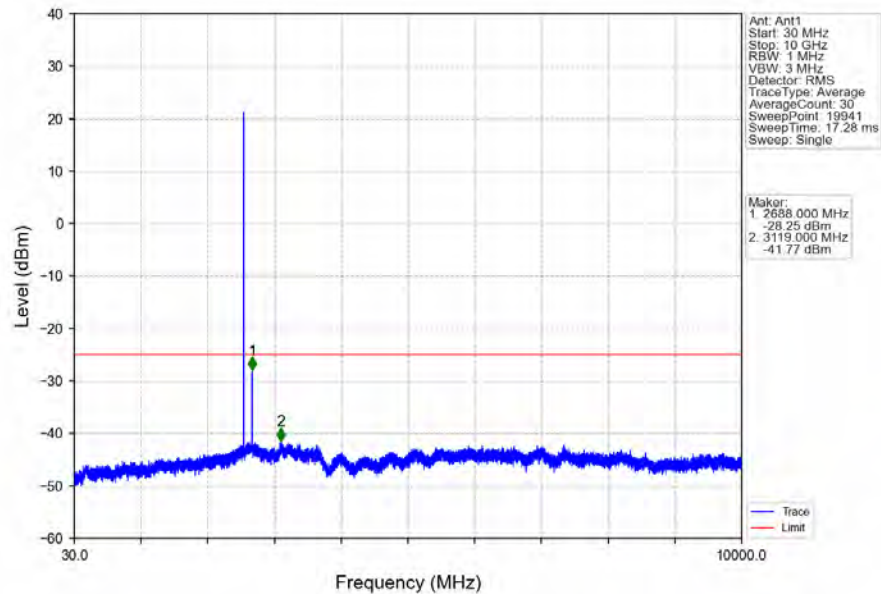


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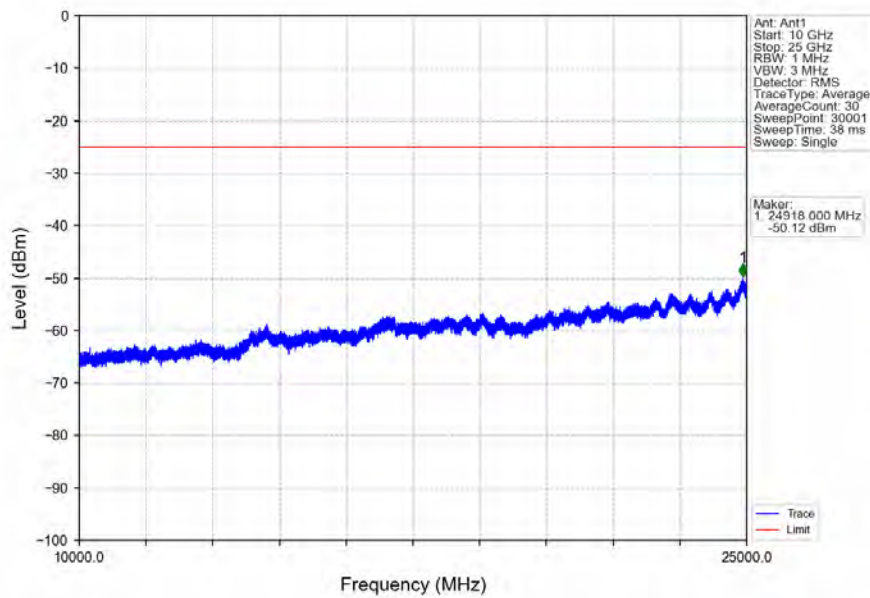
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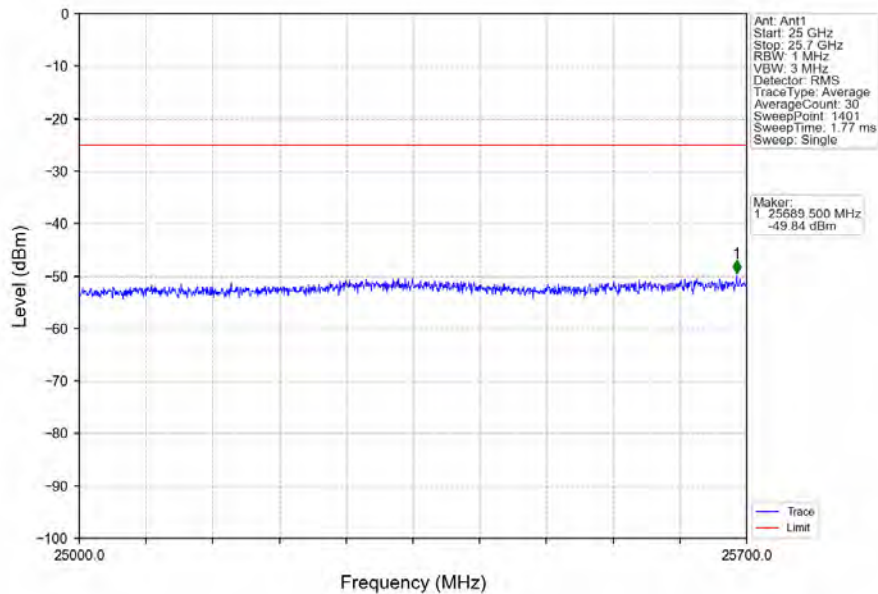


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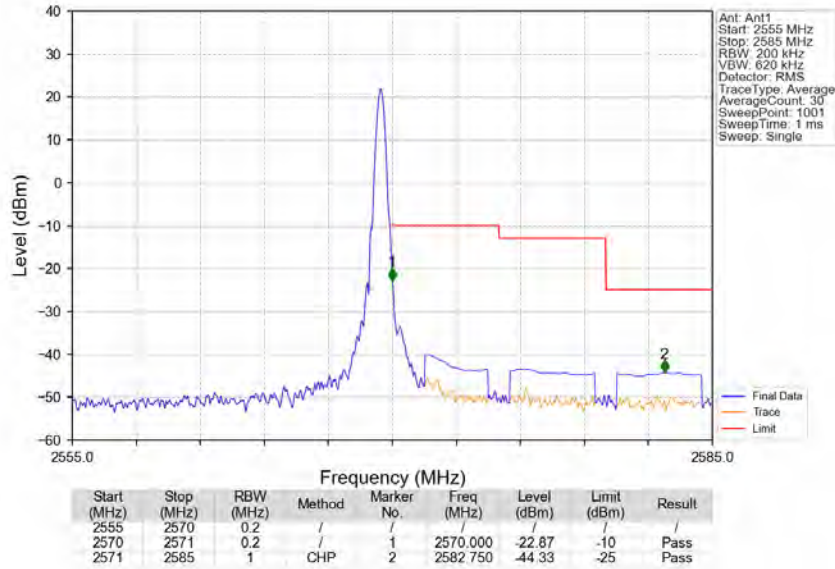
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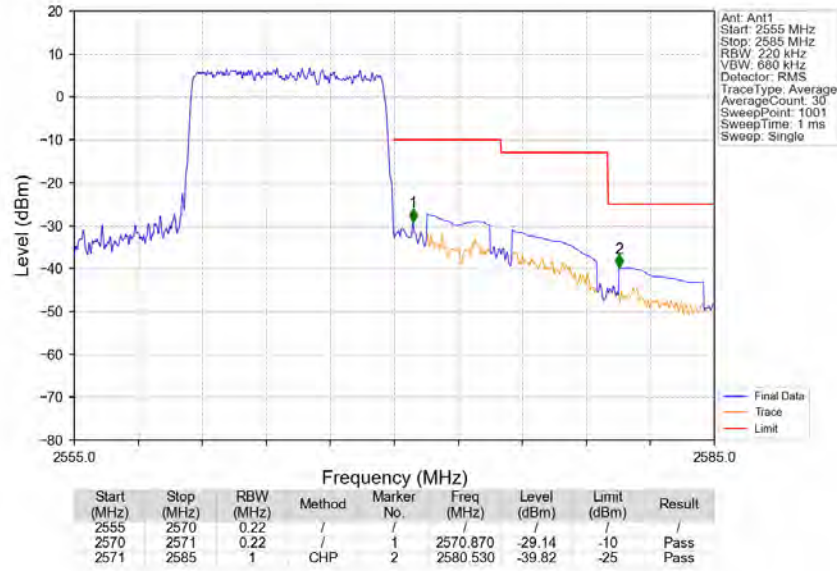


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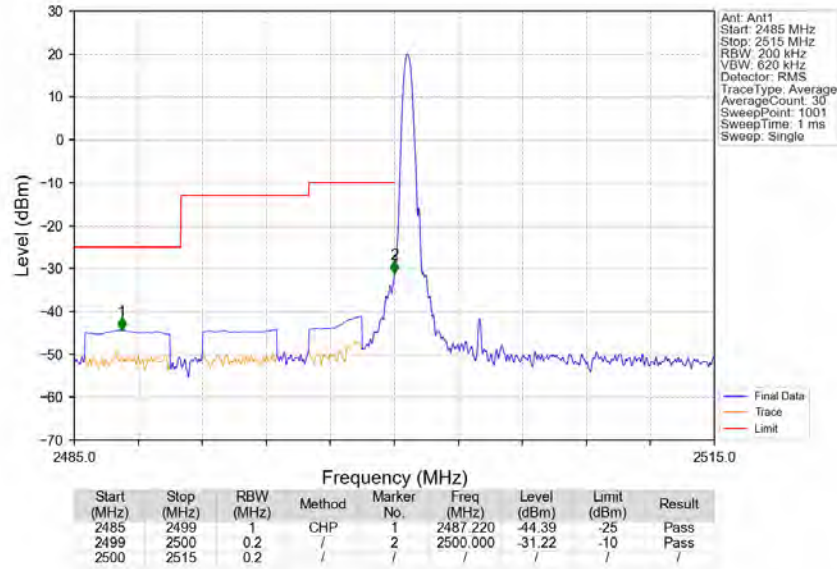
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Band7 10MHz 64QAM LCH 2505MHz RB 1 0 NTNV



Band7 10MHz 64QAM LCH 2505MHz RB 1 0 NTNV



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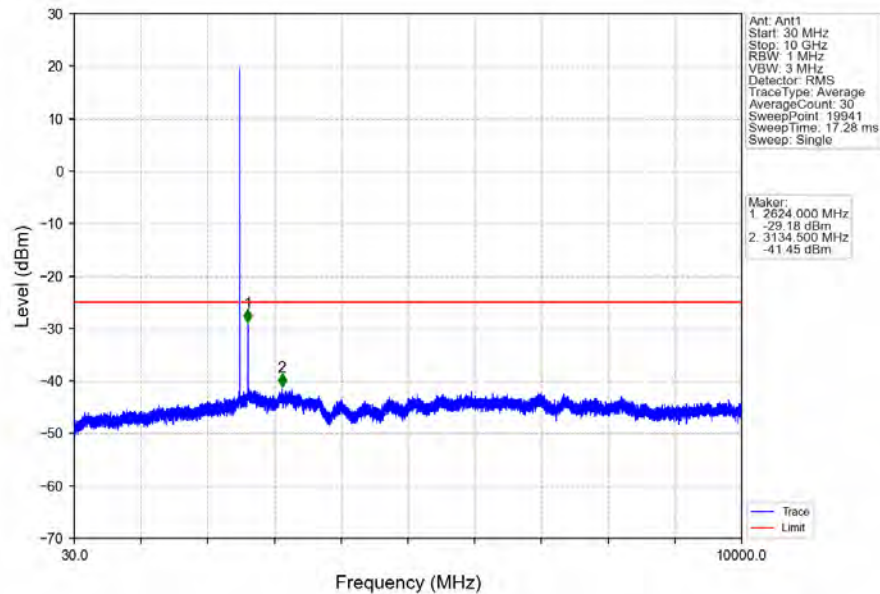


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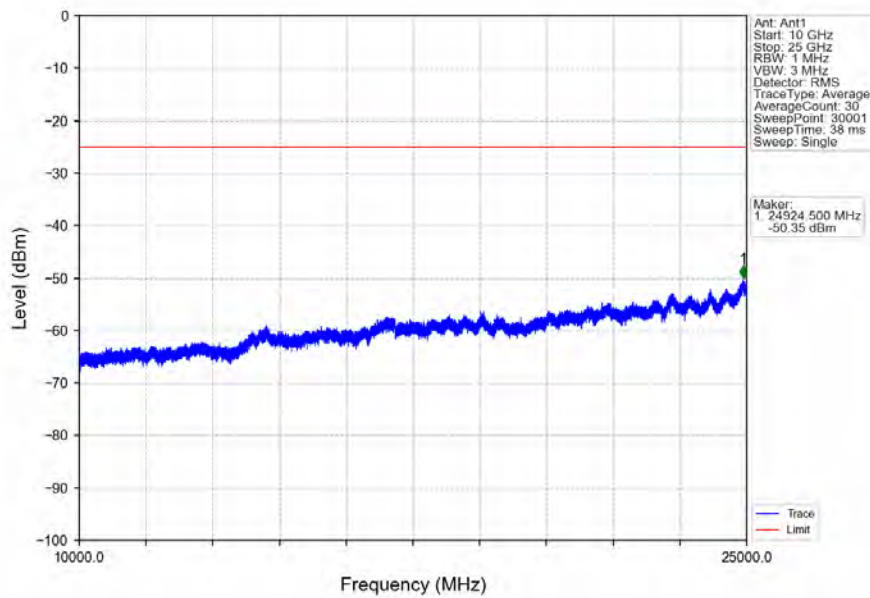
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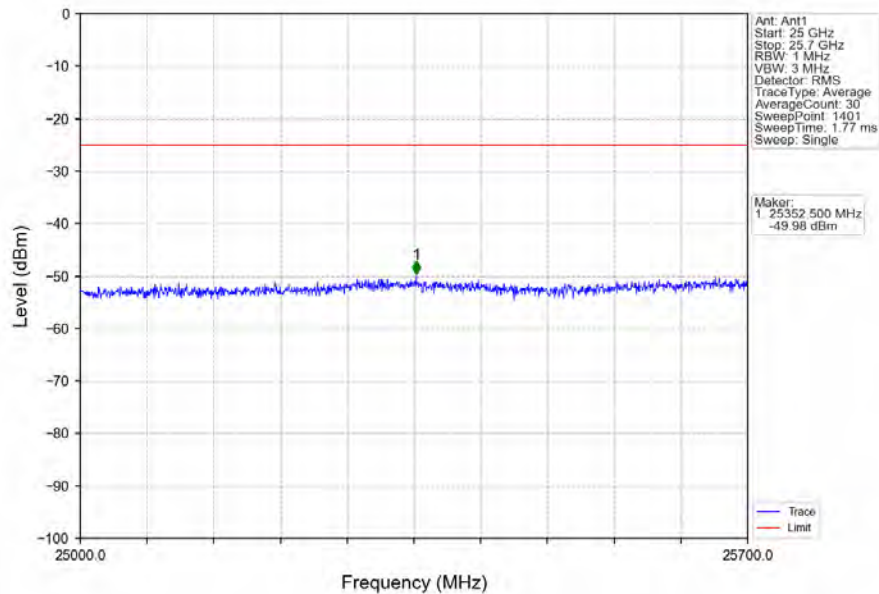


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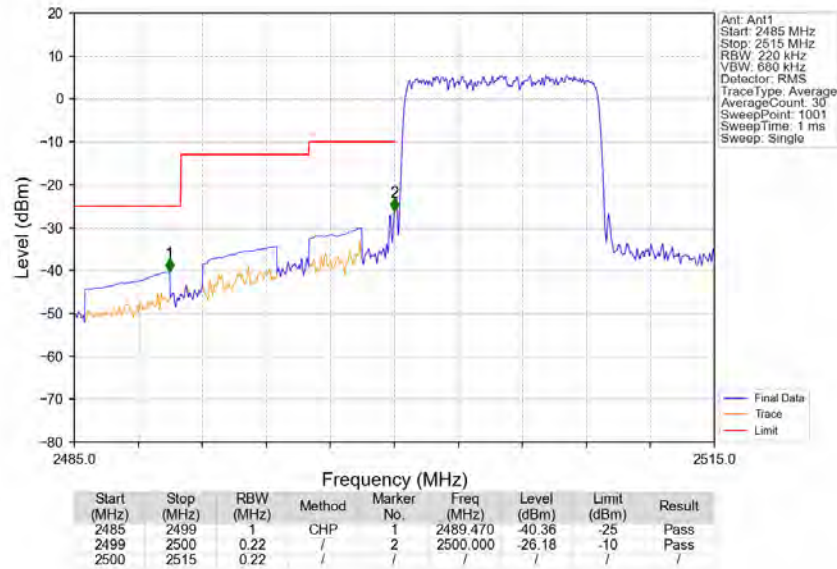
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Band7\_10MHz\_64QAM\_MCH\_2535MHz\_RB\_1\_0\_NTNV



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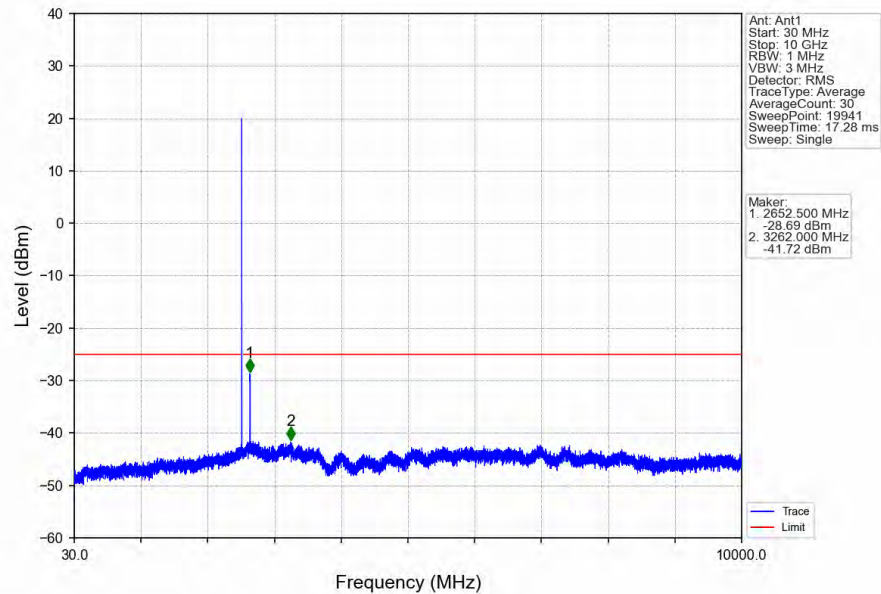


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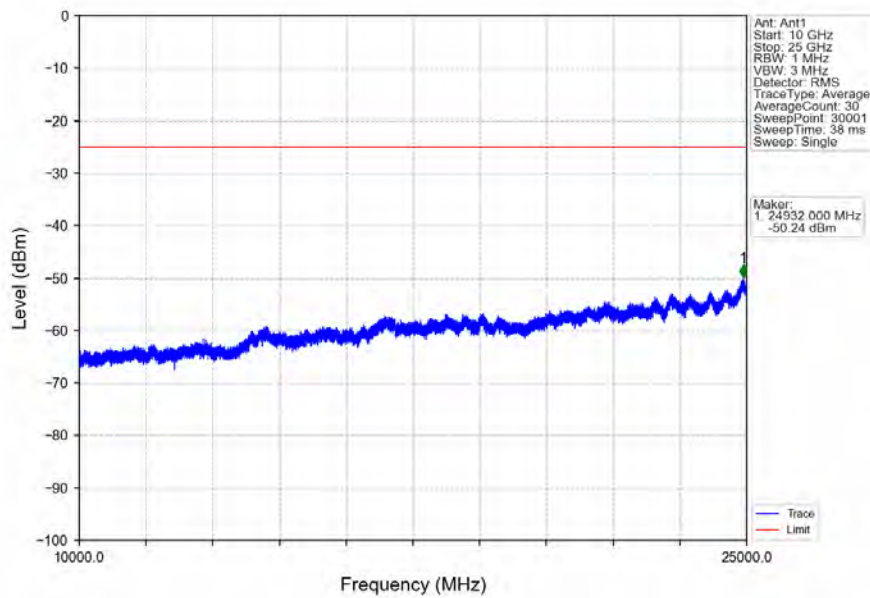
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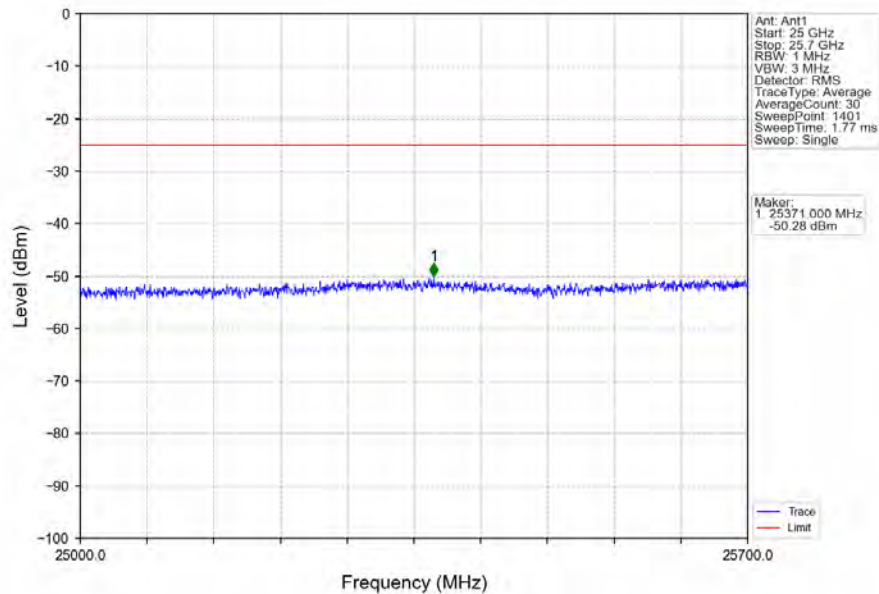


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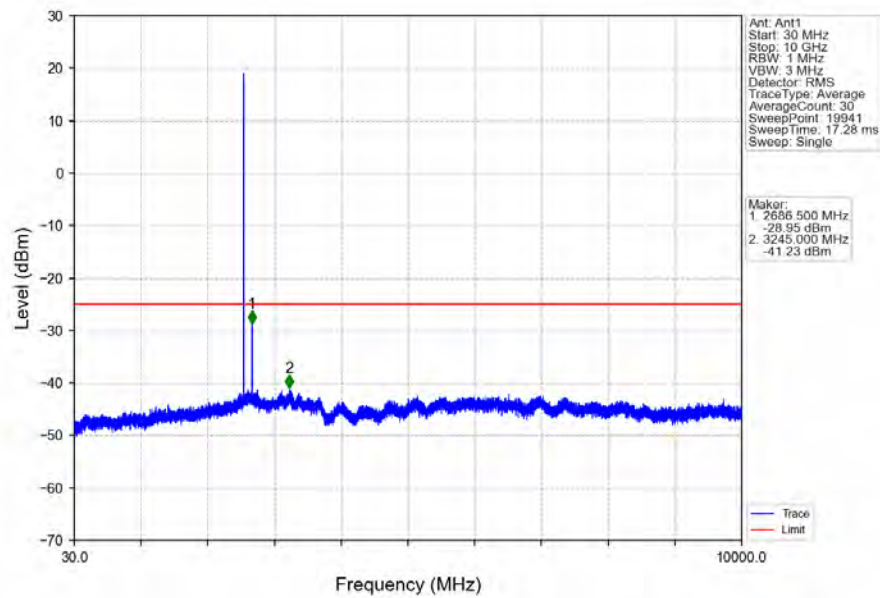
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Band7\_10MHz\_64QAM\_HCH\_2565MHz\_RB\_1\_0\_NTNV



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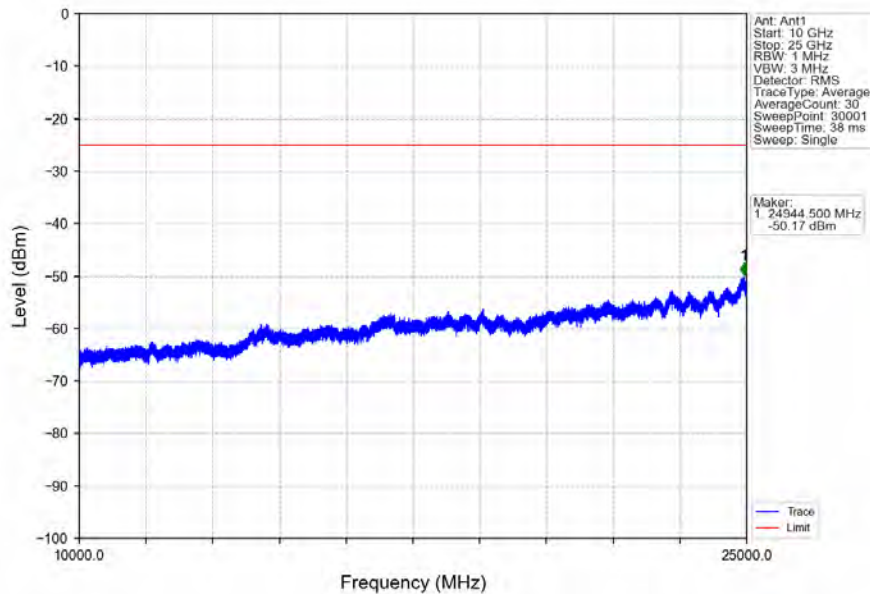


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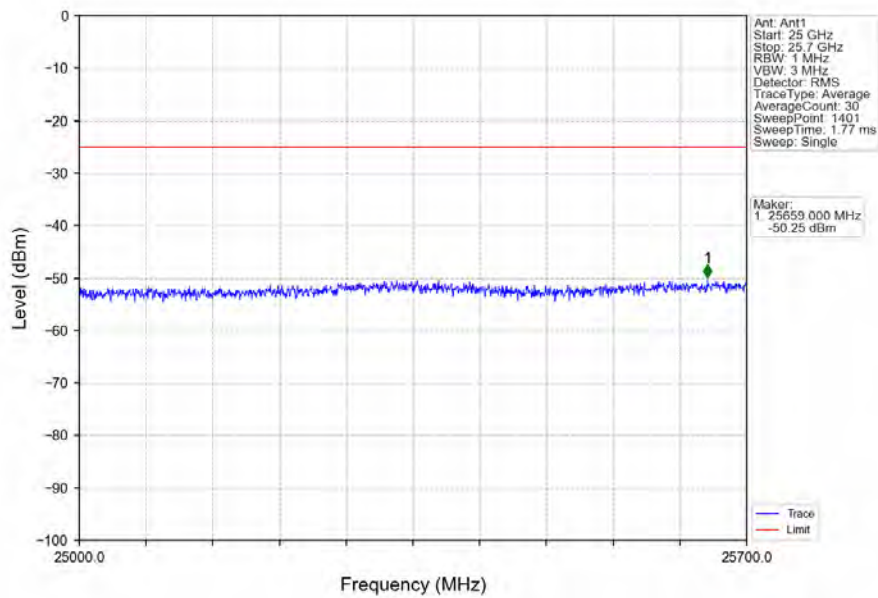
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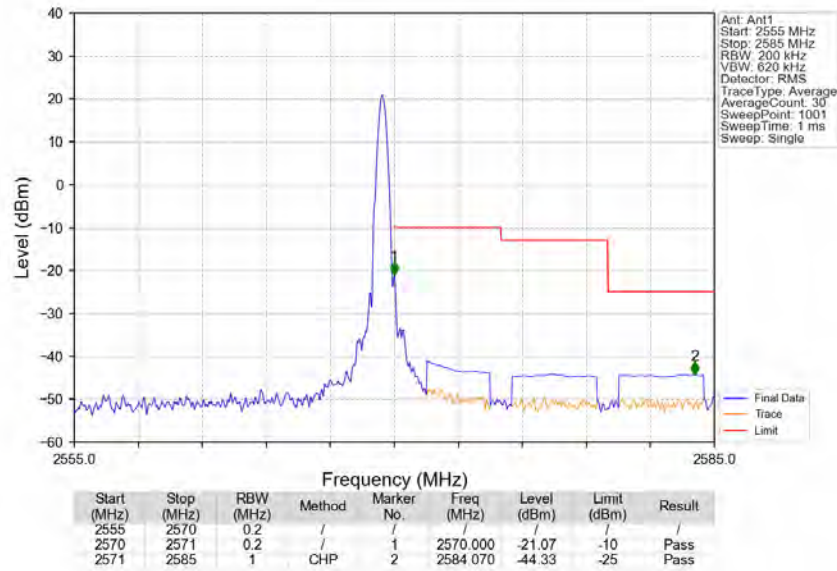


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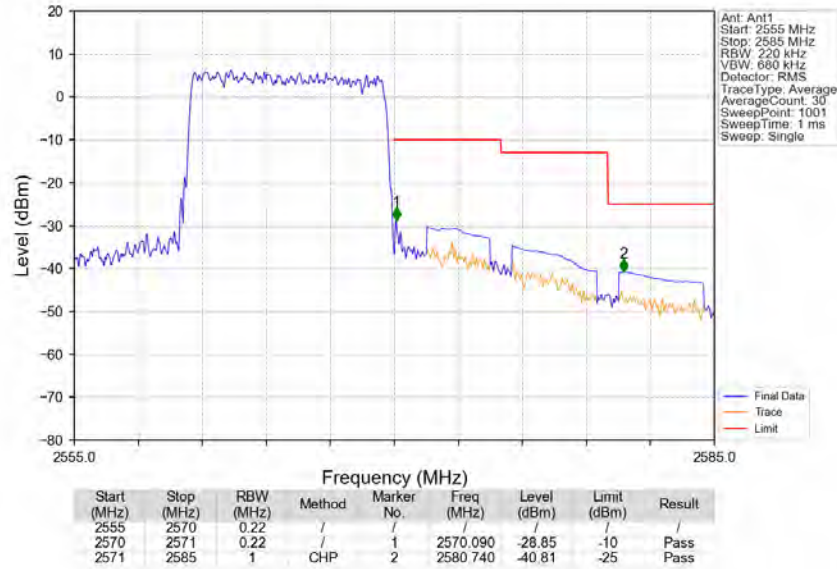
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## 5.3 B7\_15MHz

### 5.3.1 Test Result

| Band: 7 / Bandwidth: 15MHz / NTN |                 |               |        |                     |       |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       |
|                                  |                 | Size          | Offset | Result              | Limit |
| QPSK                             | 2507.5          | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 | 75            | 0      | Refer To Test Graph | Pass  |
|                                  | 2535            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  | 2562.5          | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 |               | 74     | Refer To Test Graph | Pass  |
|                                  |                 | 75            | 0      | Refer To Test Graph | Pass  |
| 16QAM                            | 2507.5          | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 | 75            | 0      | Refer To Test Graph | Pass  |
|                                  | 2535            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  | 2562.5          | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 |               | 74     | Refer To Test Graph | Pass  |
|                                  |                 | 75            | 0      | Refer To Test Graph | Pass  |
| 64QAM                            | 2507.5          | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 | 75            | 0      | Refer To Test Graph | Pass  |
|                                  | 2535            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  | 2562.5          | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 |               | 74     | Refer To Test Graph | Pass  |
|                                  |                 | 75            | 0      | Refer To Test Graph | Pass  |



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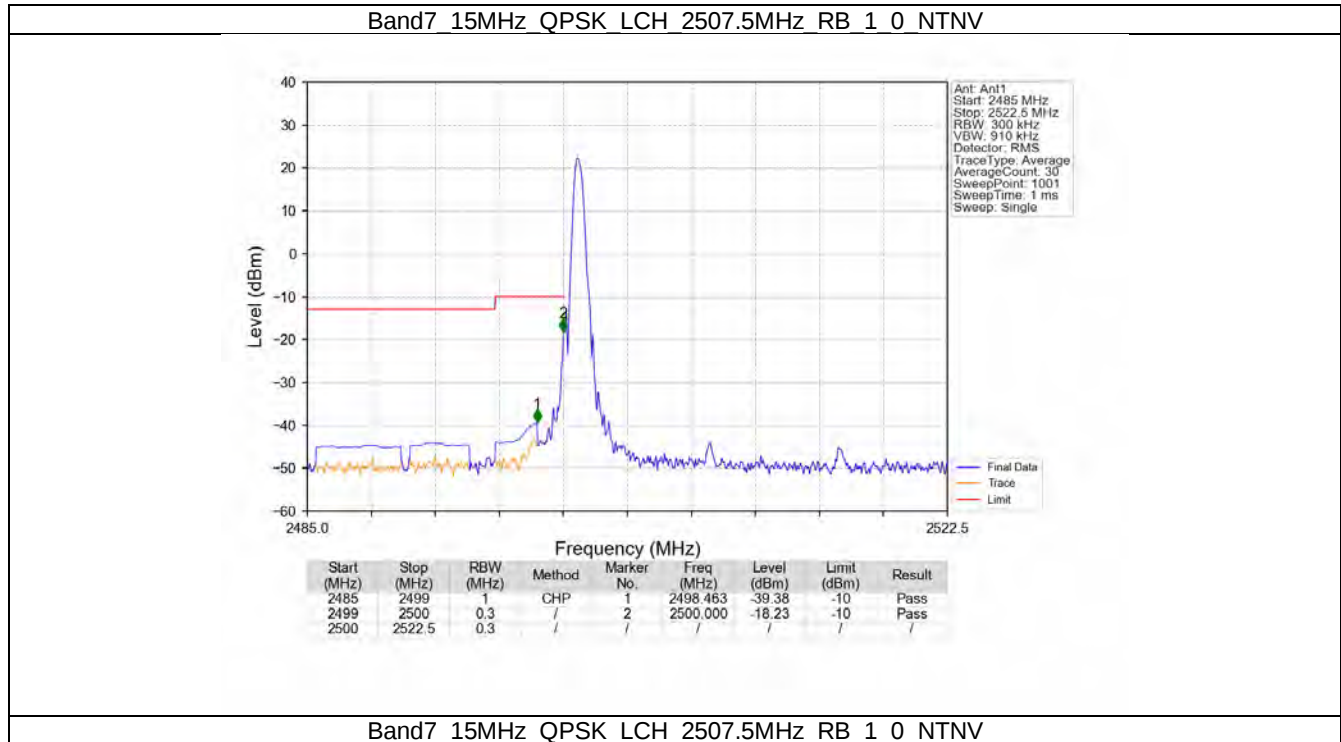
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## 5.3.2 Test Graph



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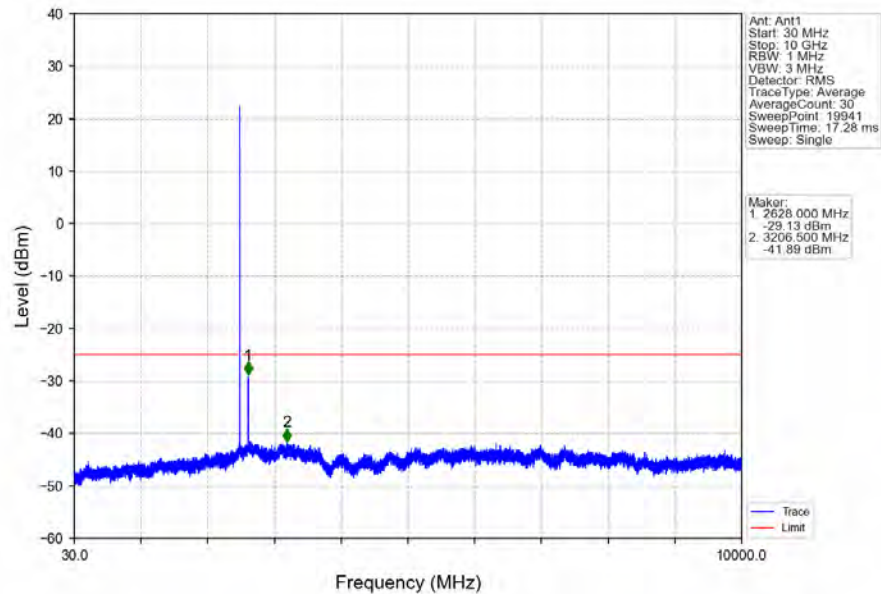


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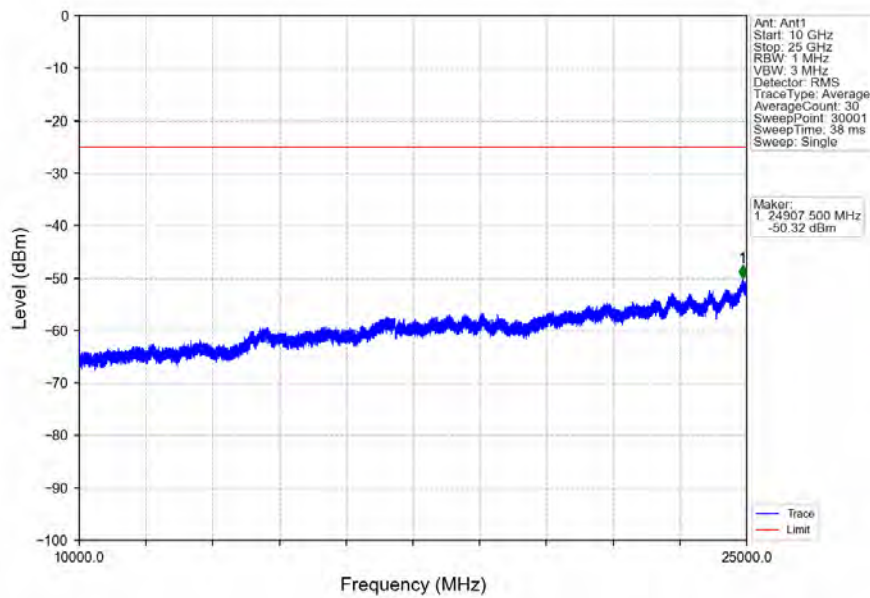
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Band7\_15MHz\_QPSK\_LCH\_2507.5MHz\_RB\_1\_0\_NTNV



Band7\_15MHz\_QPSK\_LCH\_2507.5MHz\_RB\_1\_0\_NTNV



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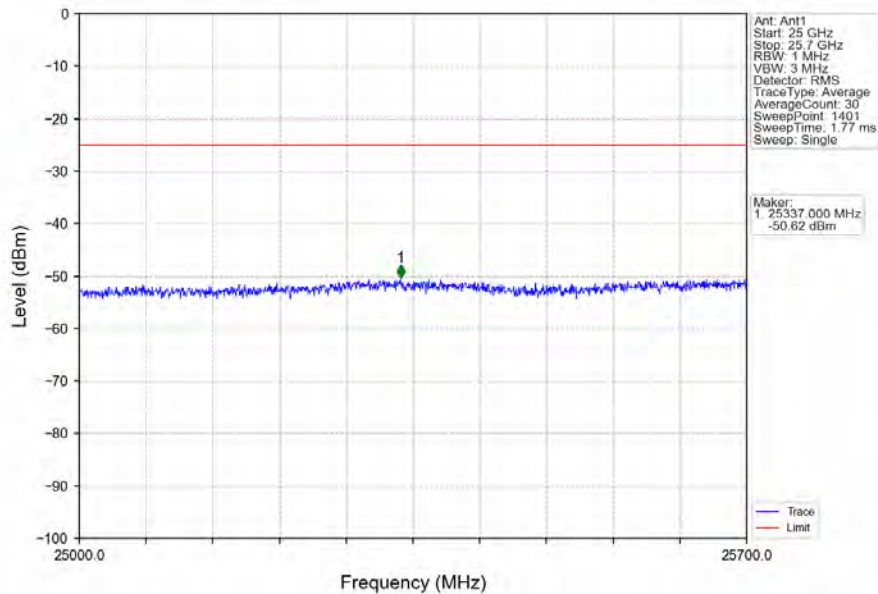


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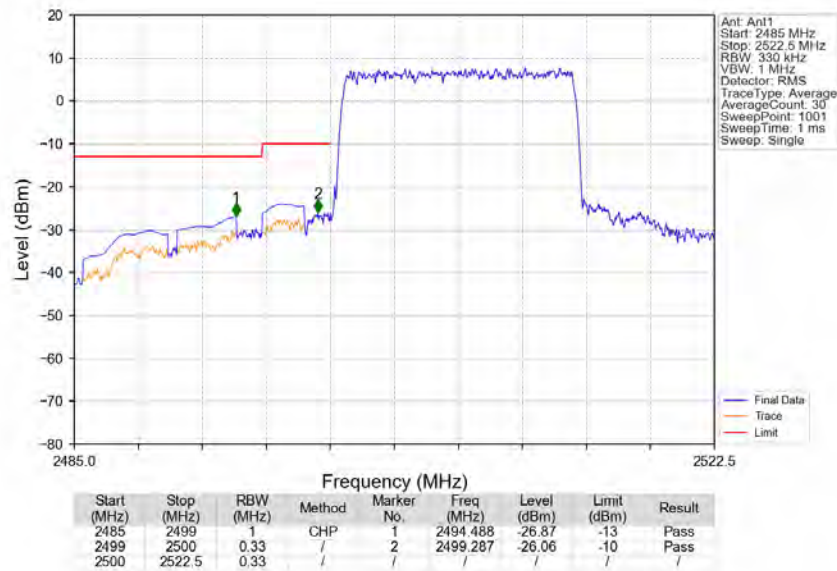
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Band7\_15MHz\_QPSK\_LCH\_2507.5MHz\_RB\_75\_0\_NTNV



Band7\_15MHz\_QPSK\_MCH\_2535MHz\_RB\_1\_0\_NTNV



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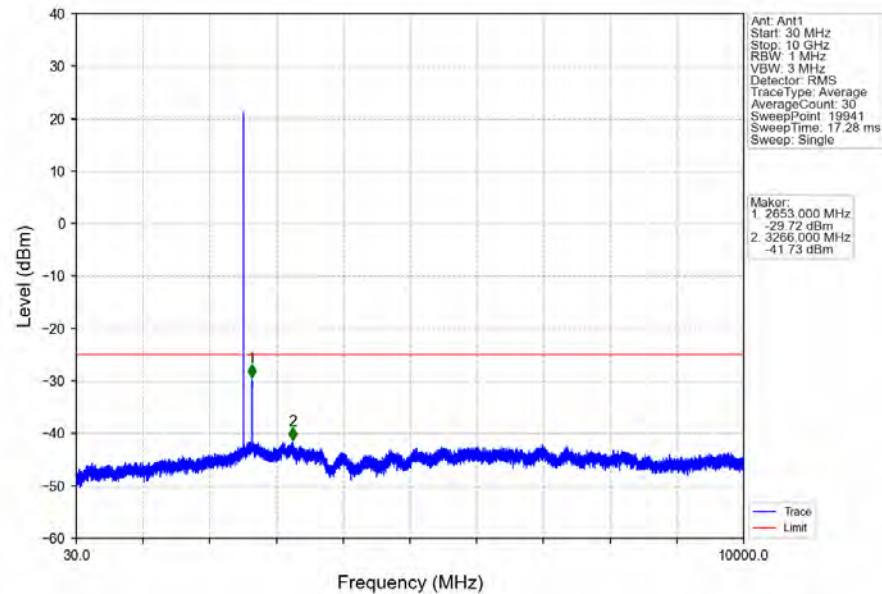


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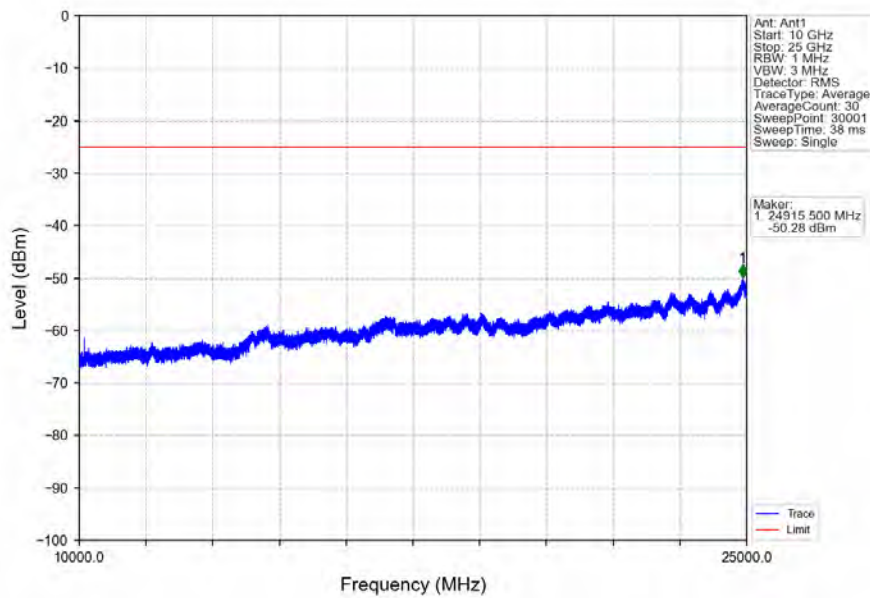
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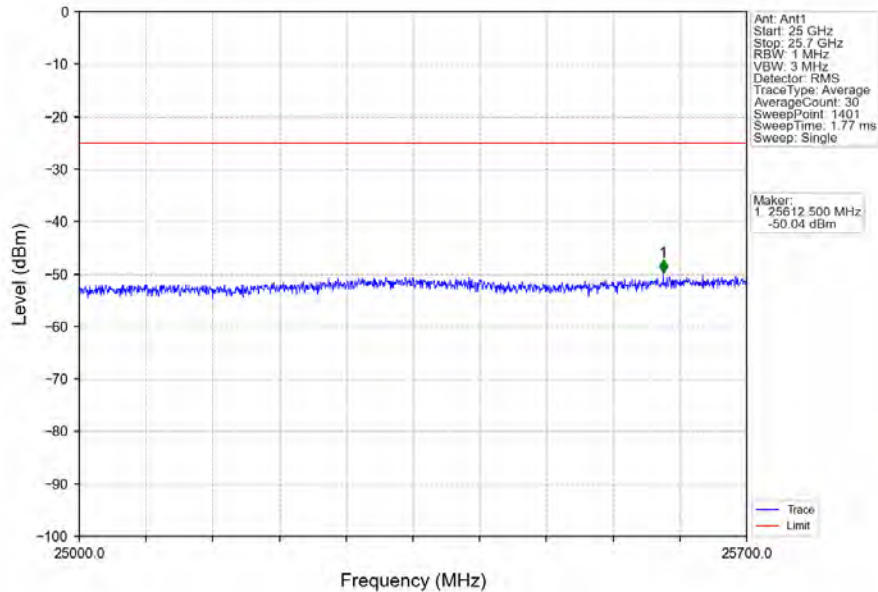


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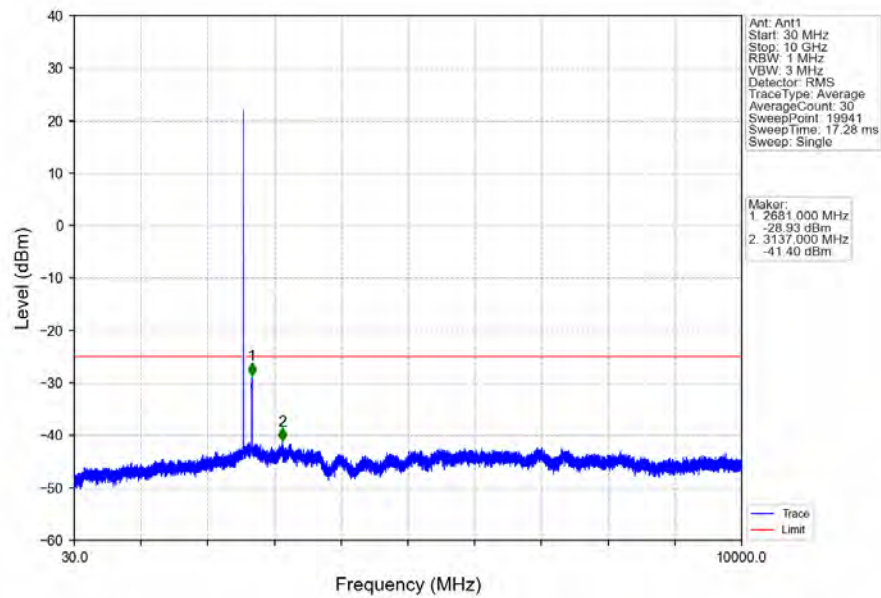
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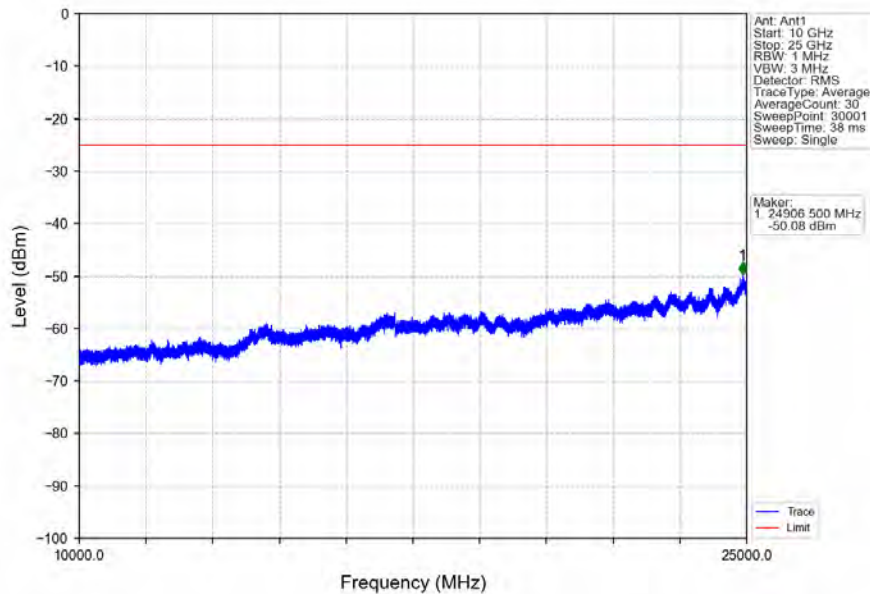


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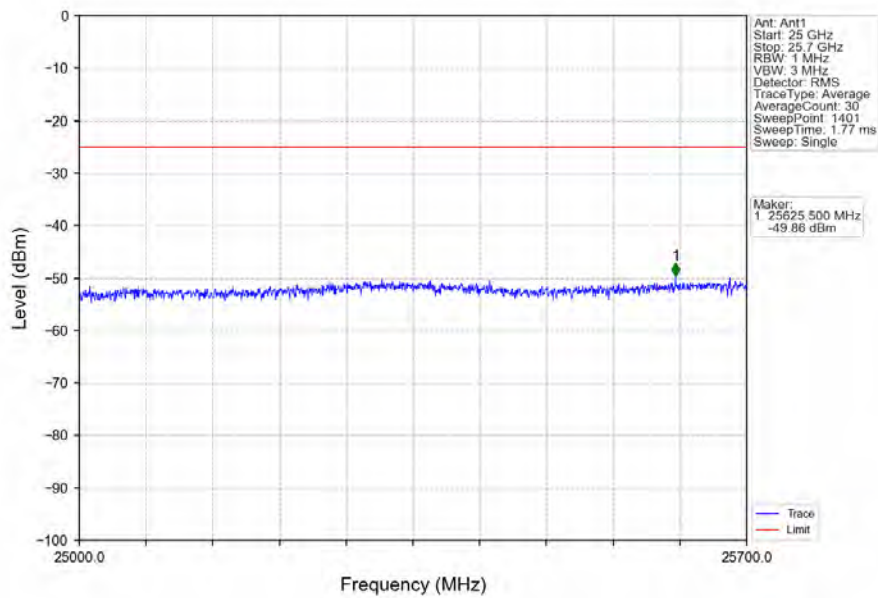
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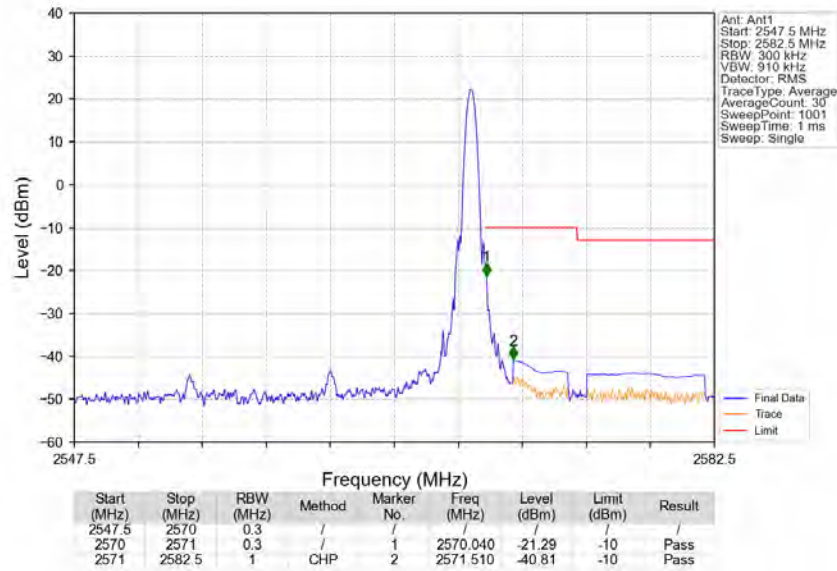


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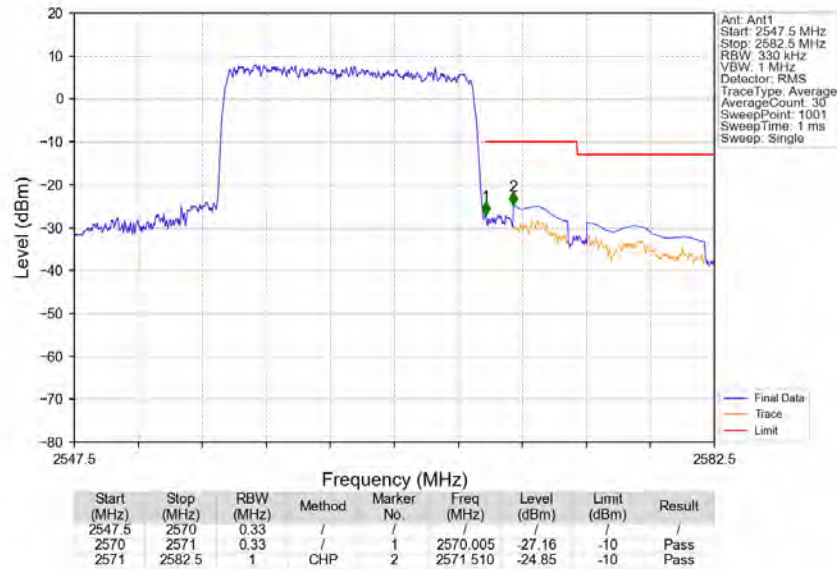
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## Band7\_15MHz\_QPSK\_HCH\_2562.5MHz\_RB\_75\_0\_NTNV



## Band7\_15MHz\_16QAM\_LCH\_2507.5MHz\_RB\_1\_0\_NTNV



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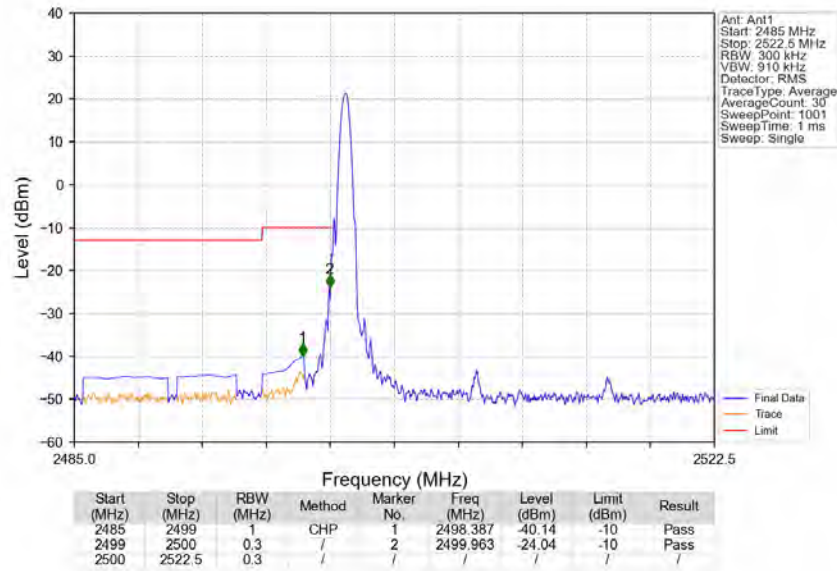


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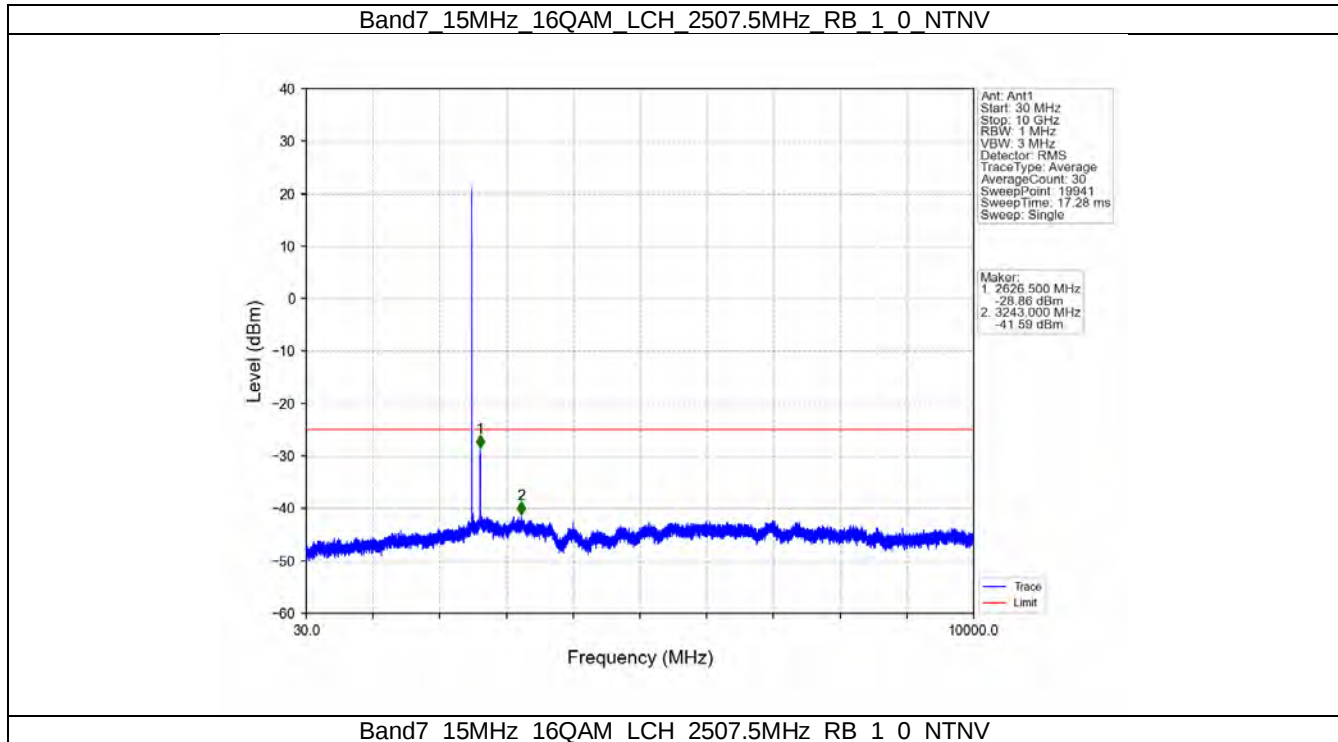


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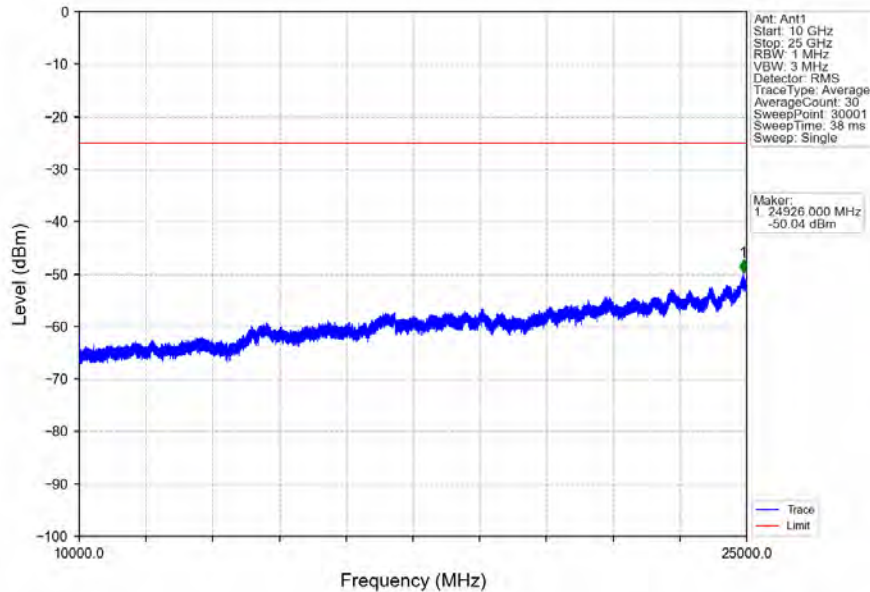


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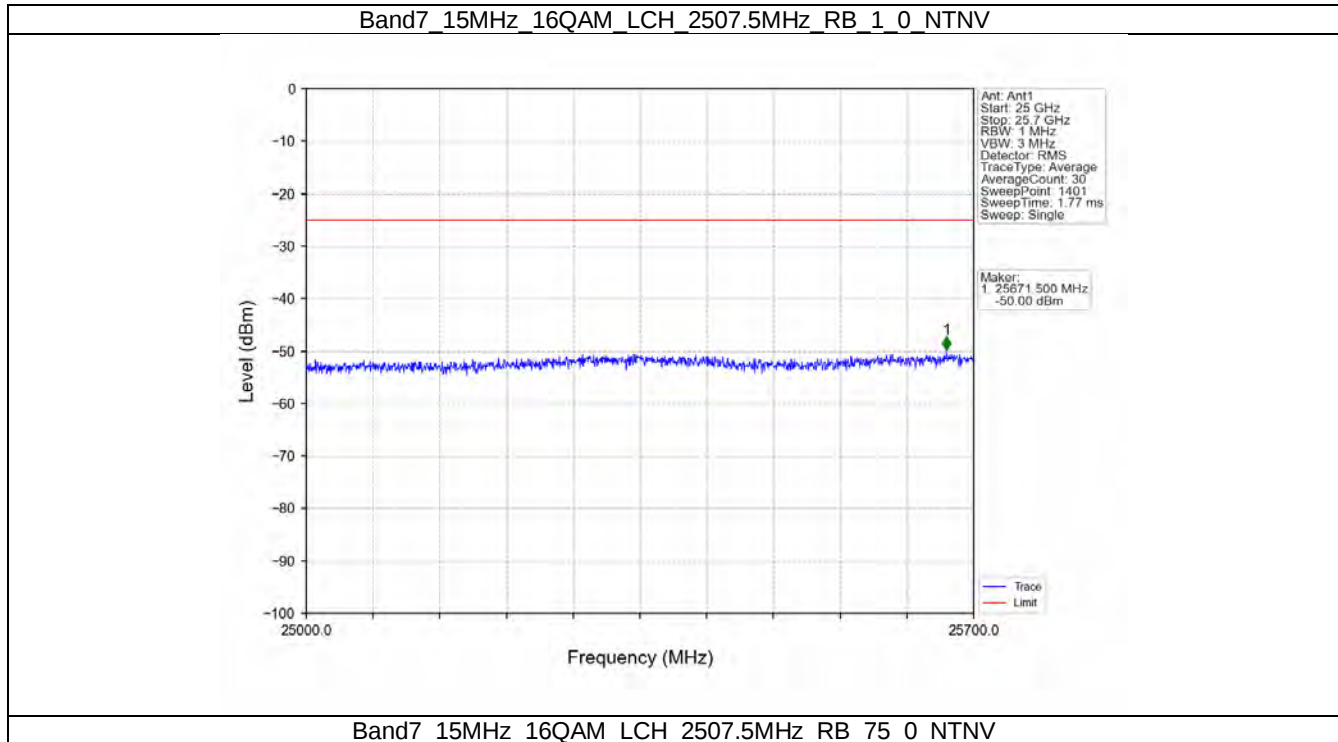


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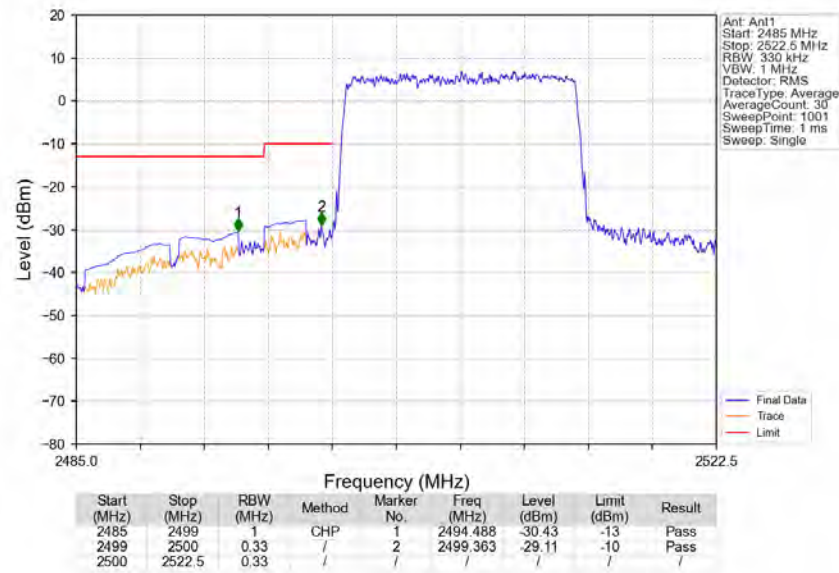


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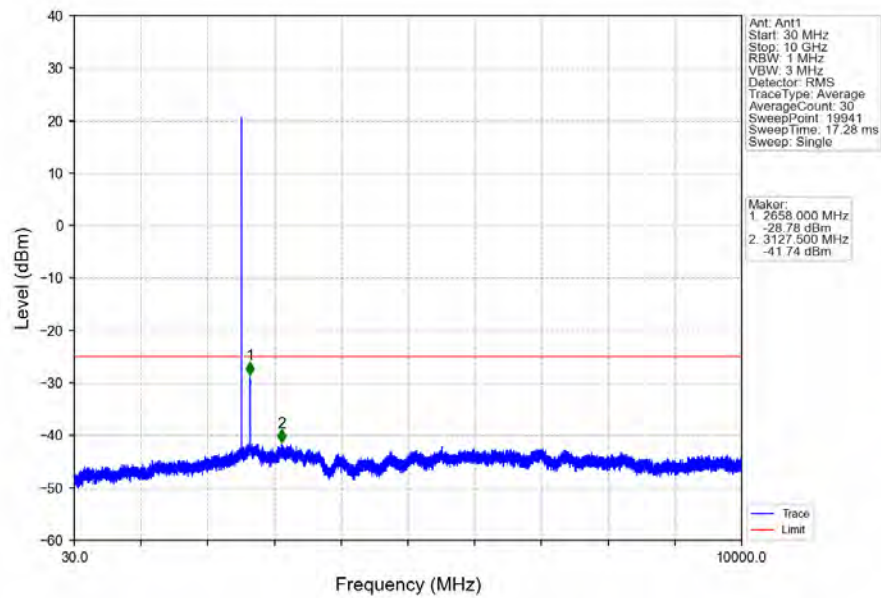
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Band7\_15MHz\_16QAM\_MCH\_2535MHz\_RB\_1\_0\_NTNV



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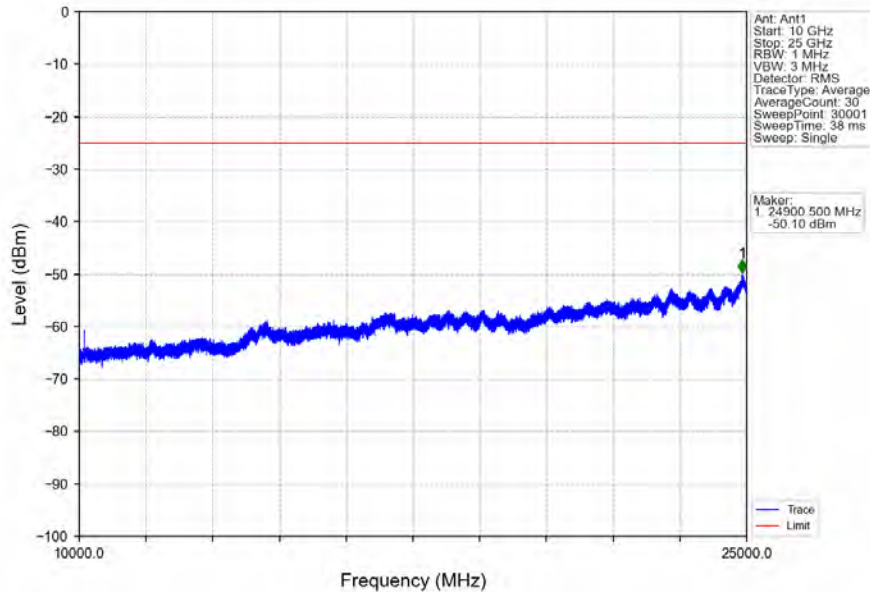


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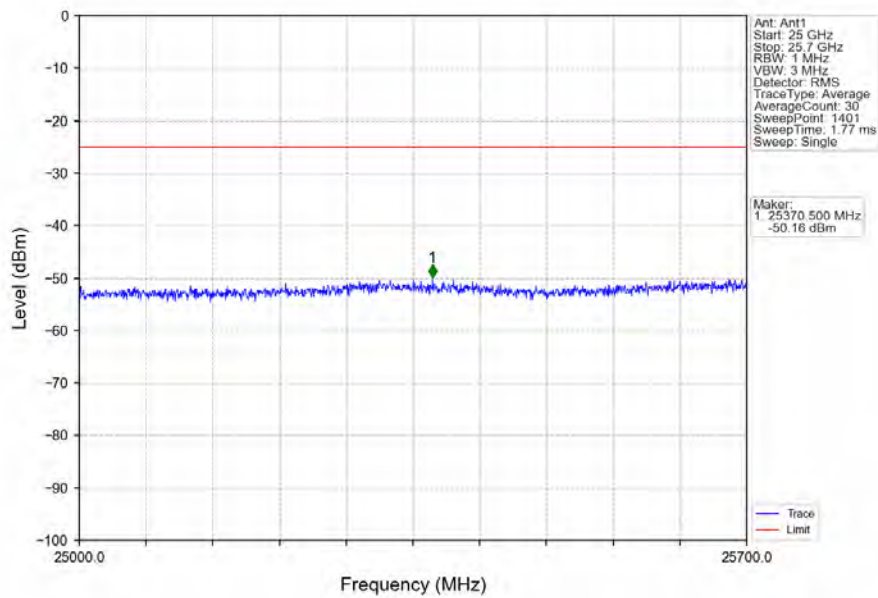
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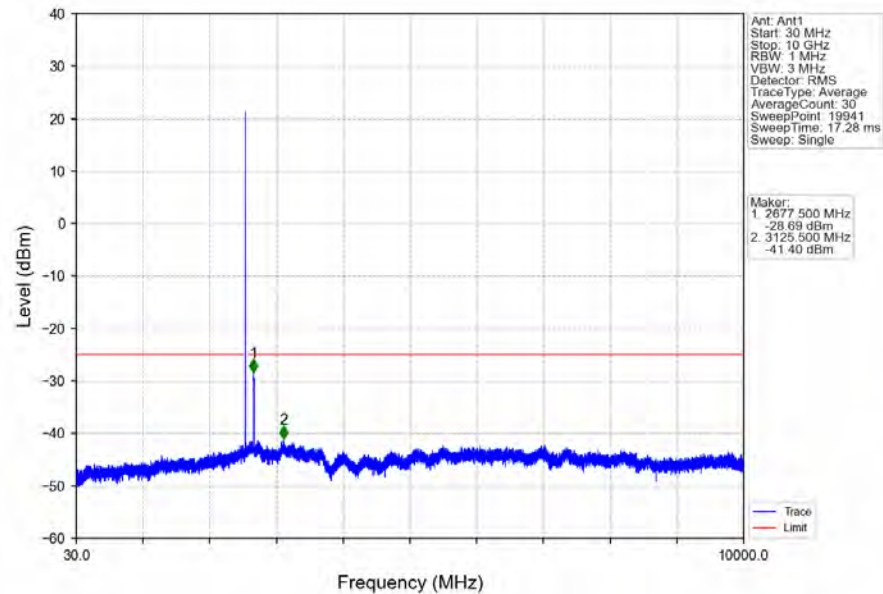


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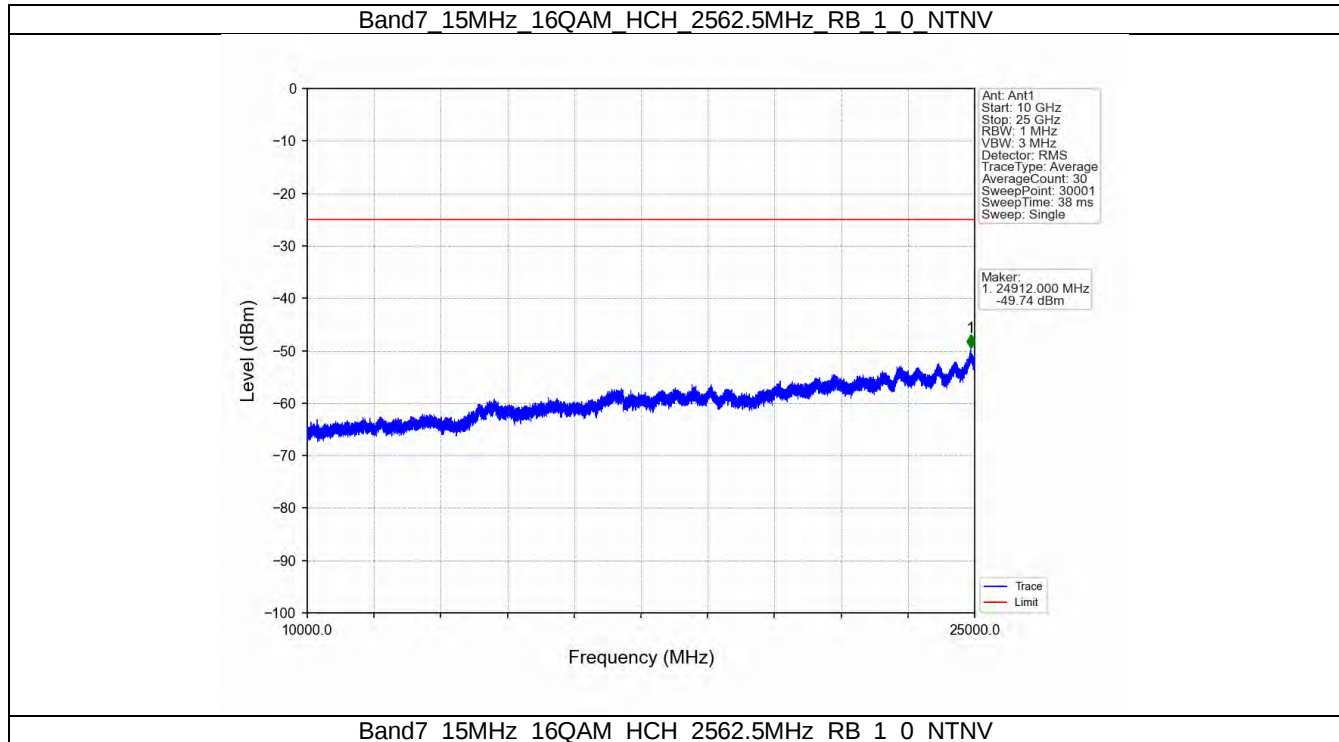


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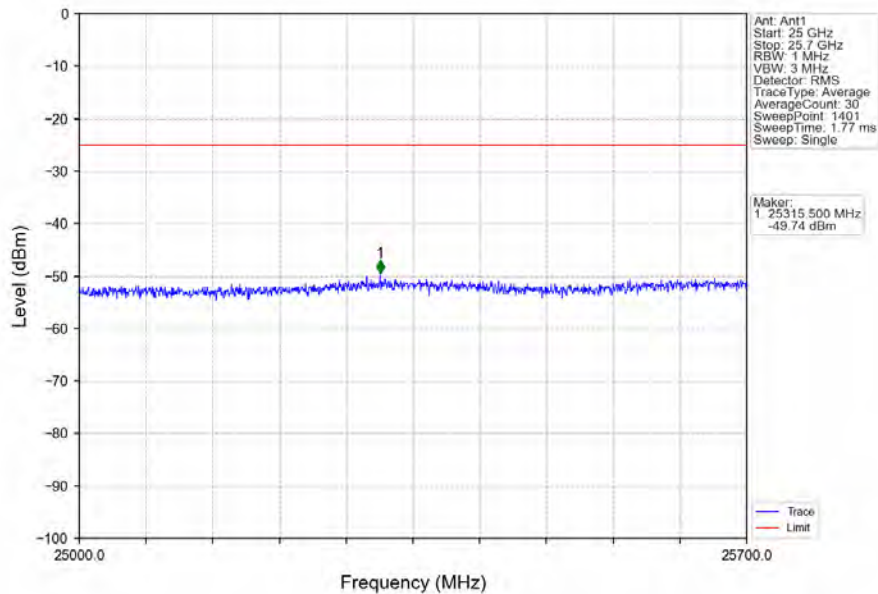


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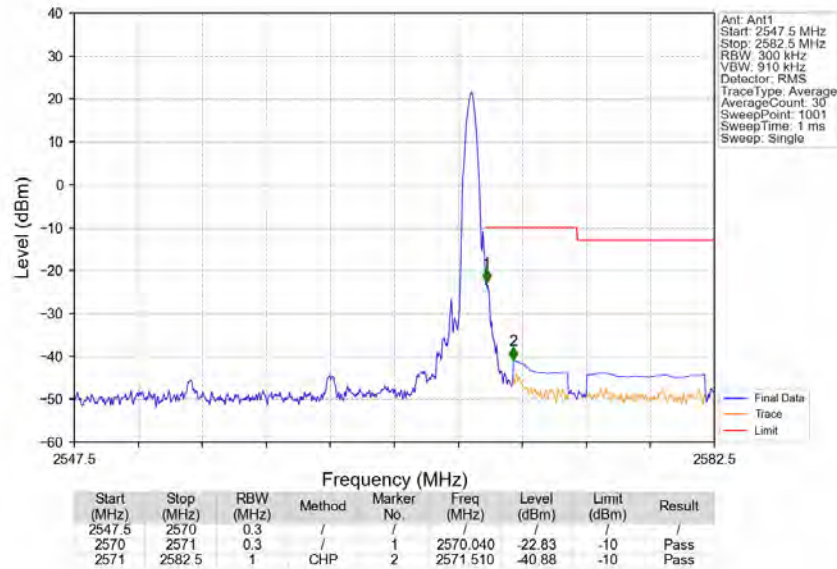
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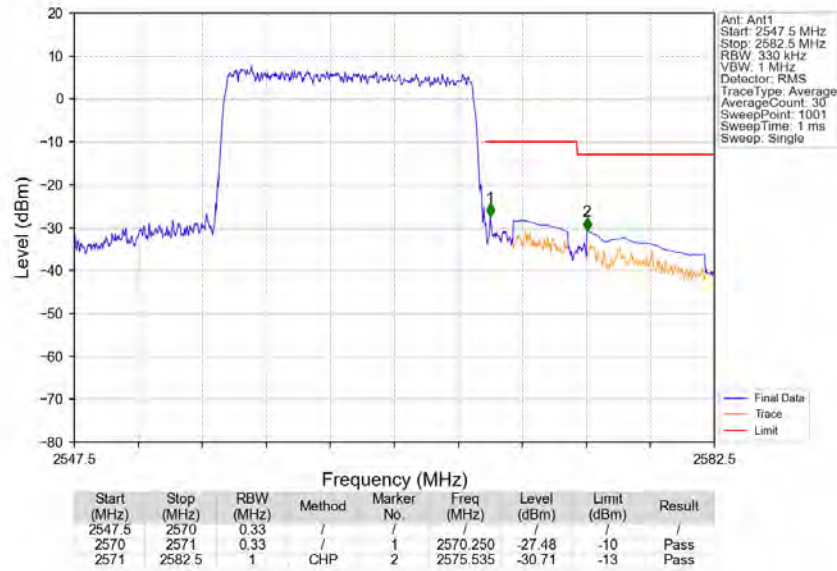


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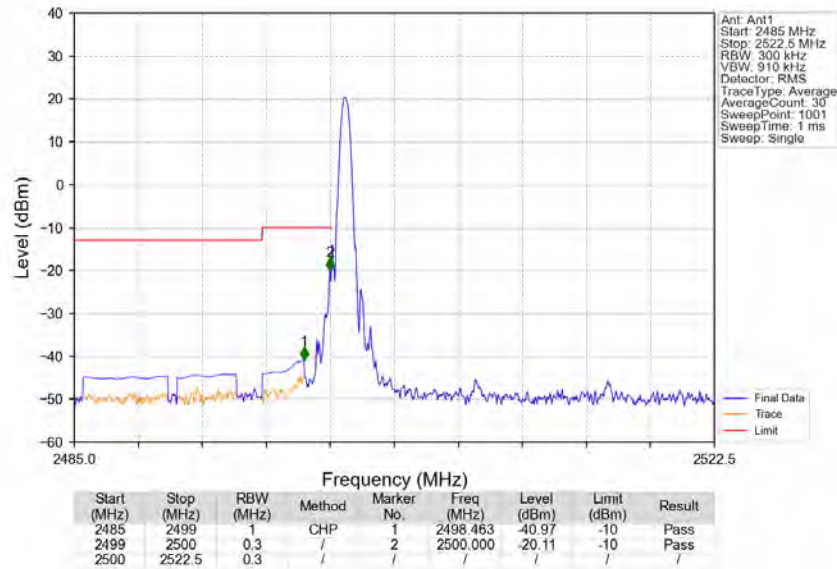
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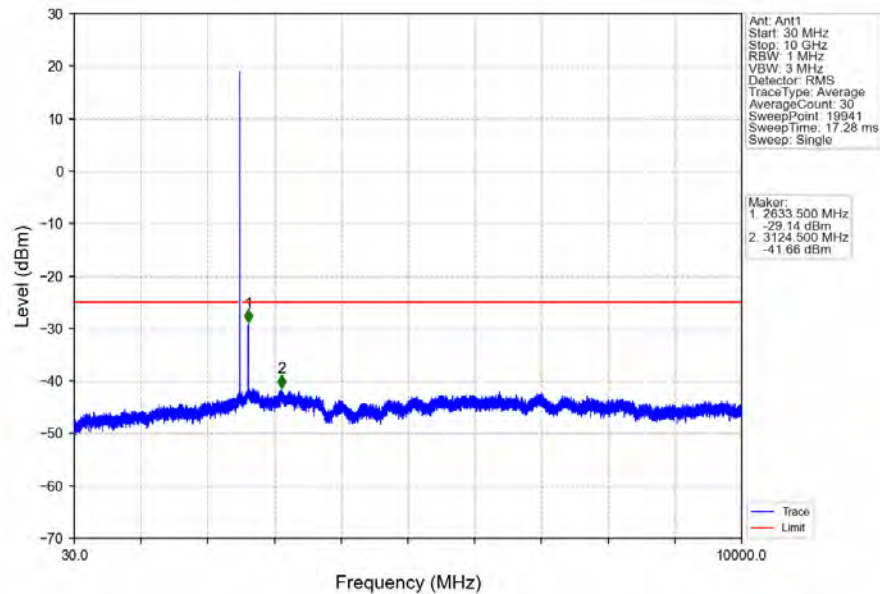


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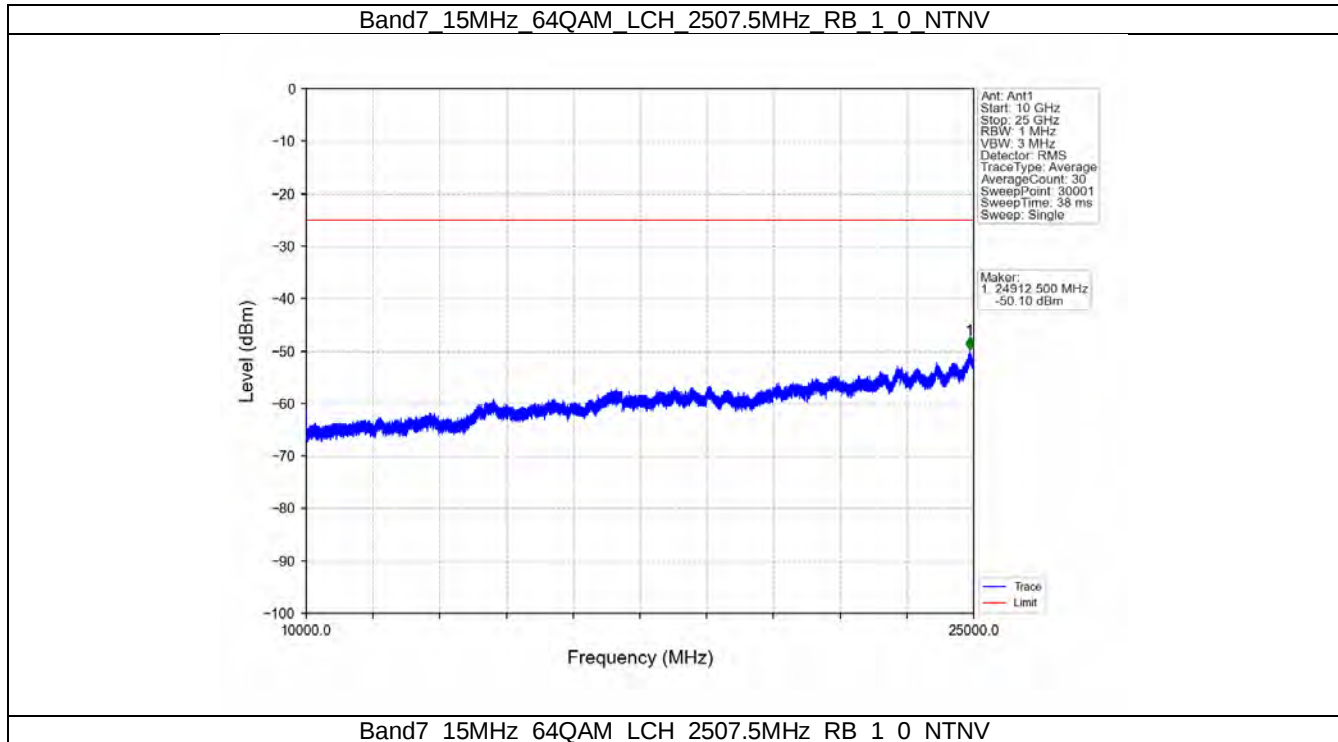


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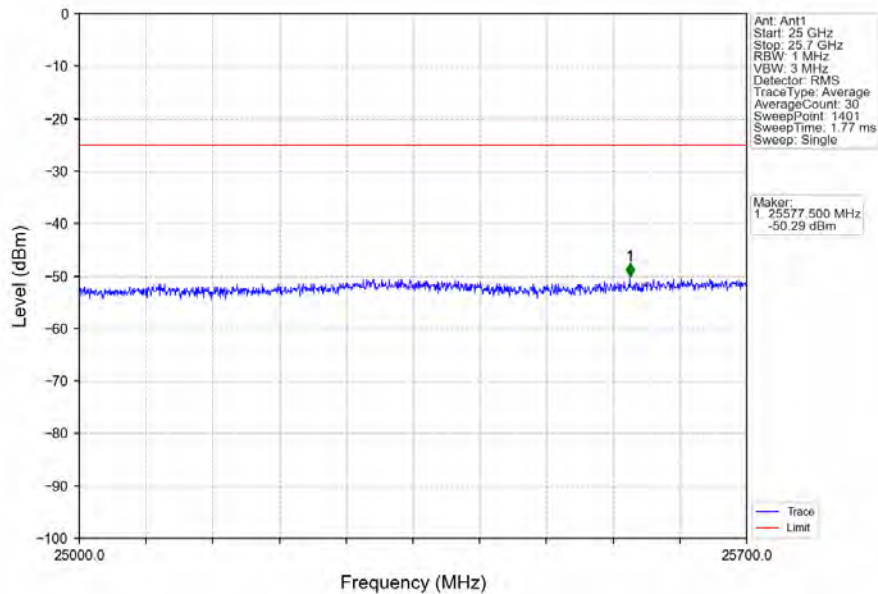


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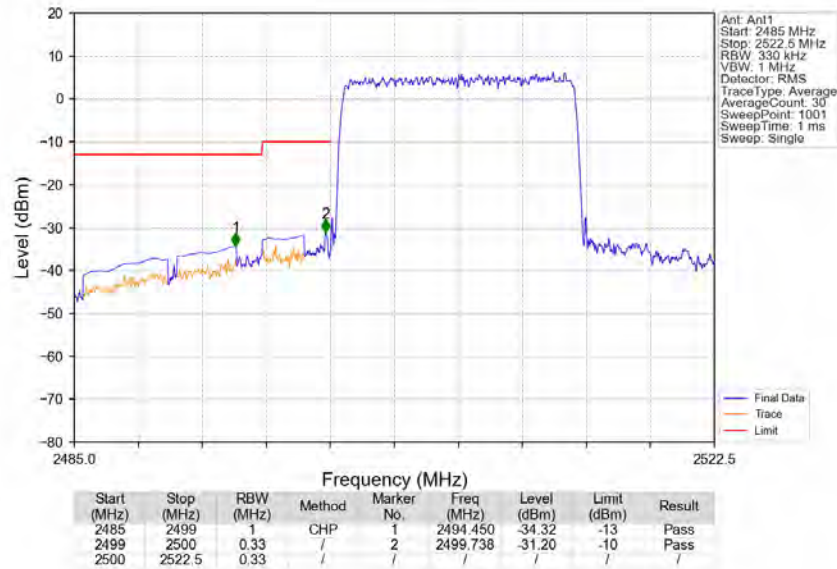
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Band7 15MHz 64QAM LCH 2507.5MHz RB 75 0 NTNV



Band7 15MHz 64QAM MCH 2535MHz RB 1 0 NTNV



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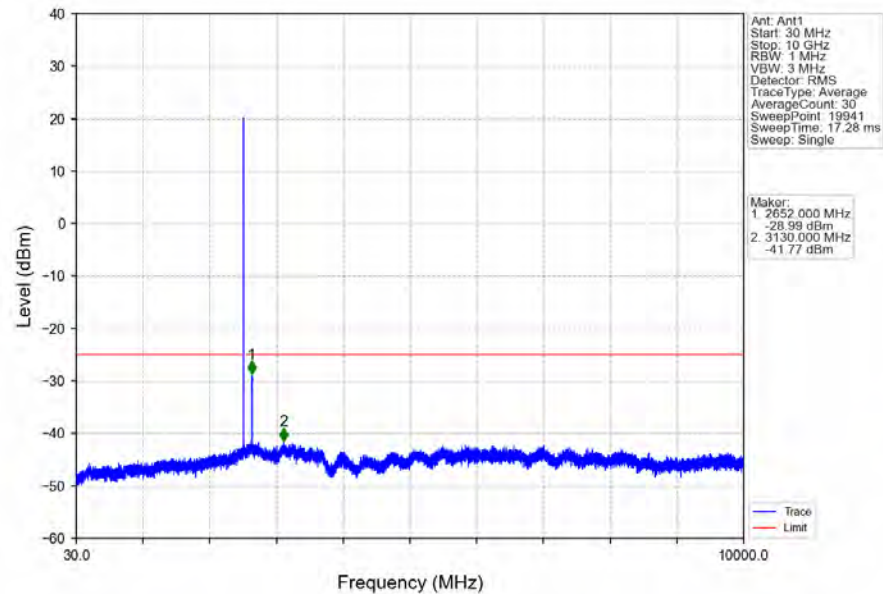


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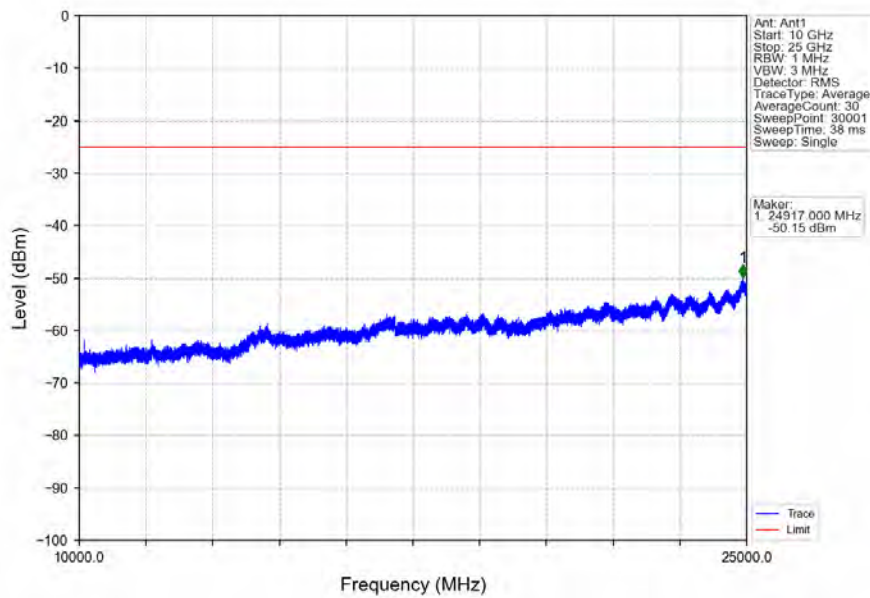
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Band7\_15MHz\_64QAM\_MCH\_2535MHz\_RB\_1\_0\_NTNV



Band7\_15MHz\_64QAM\_MCH\_2535MHz\_RB\_1\_0\_NTNV



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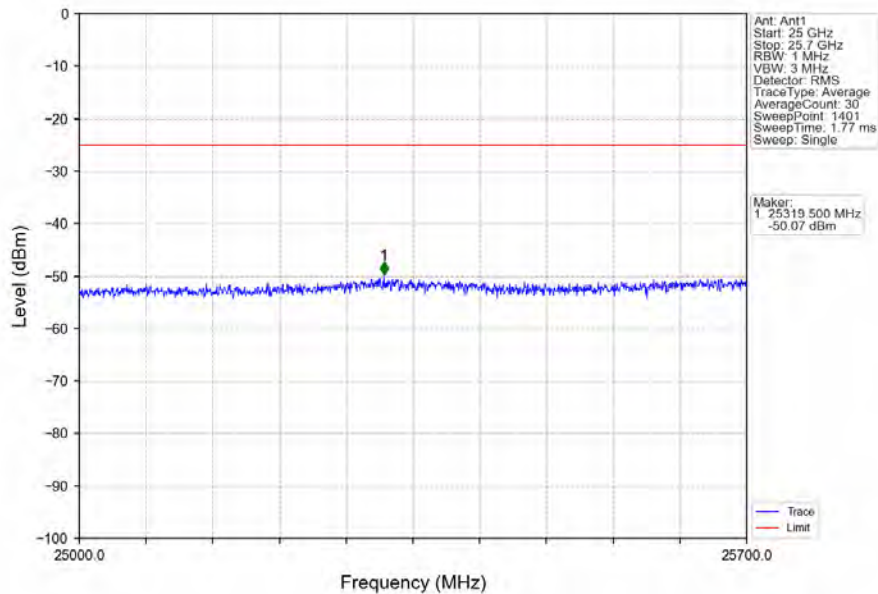


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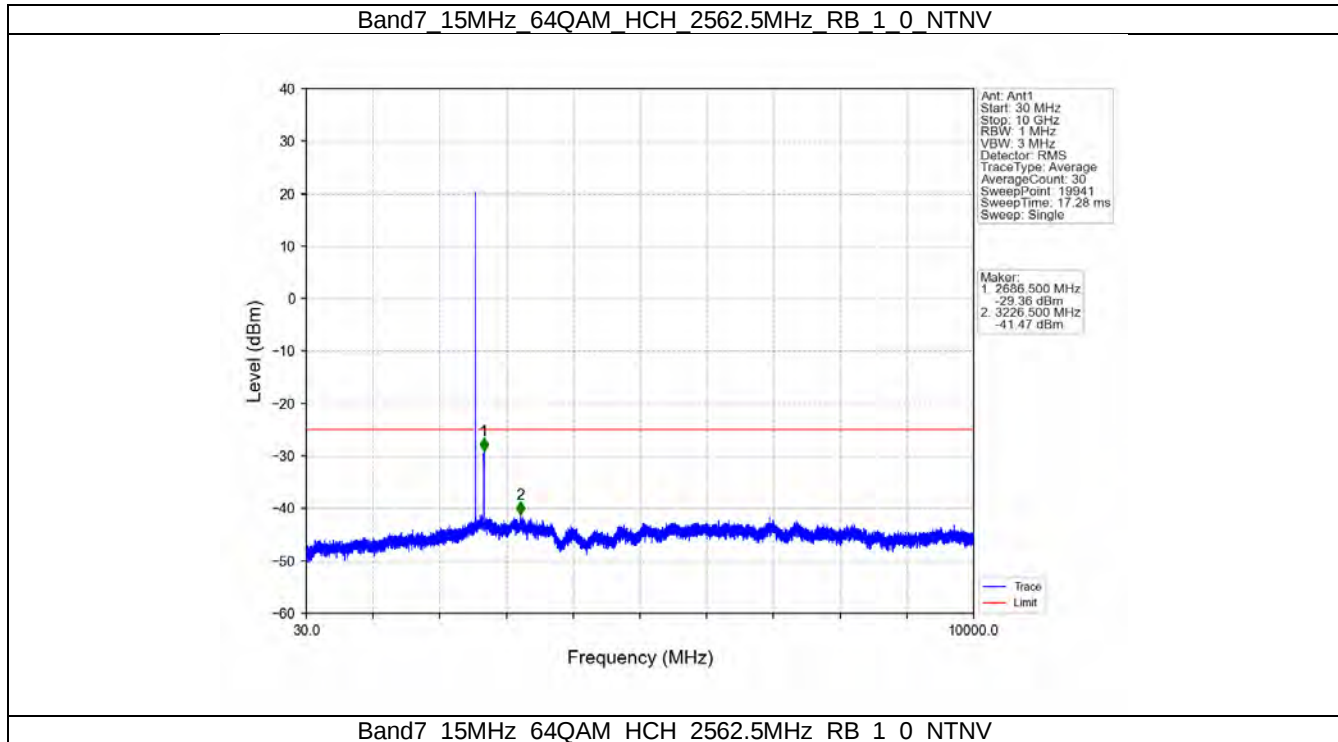


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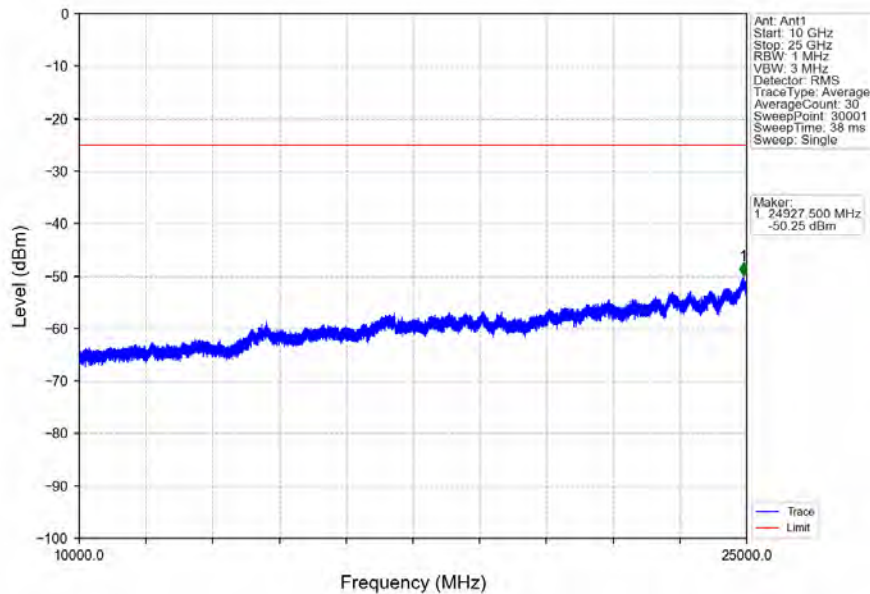


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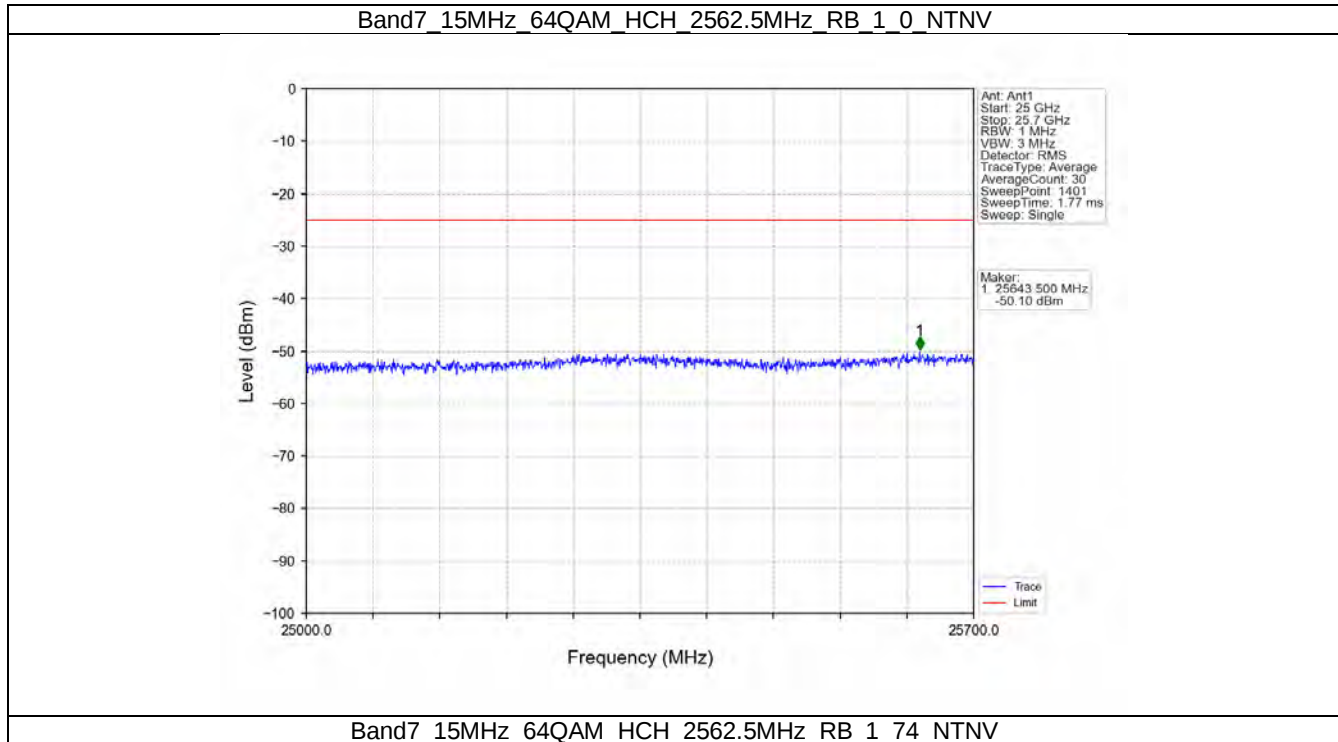


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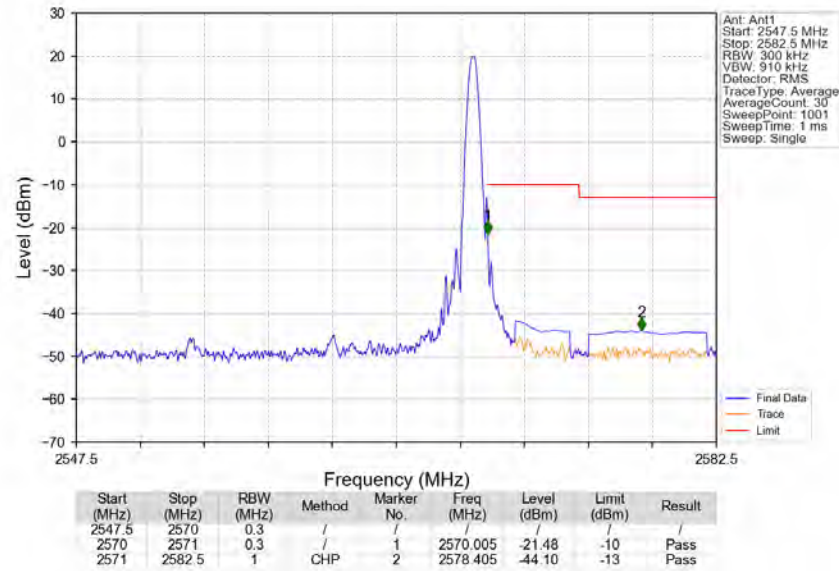


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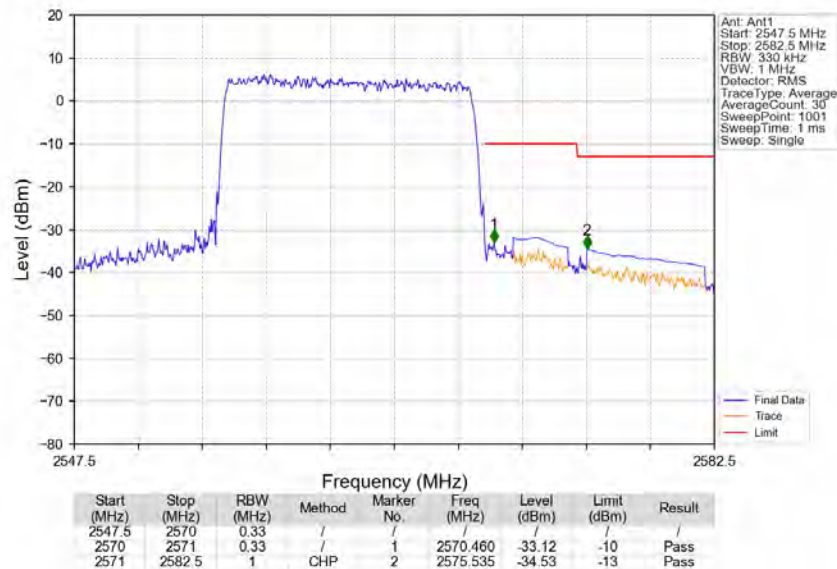
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Band7\_15MHz\_64QAM\_HCH\_2562.5MHz\_RB\_75\_0\_NTNV



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## 5.4 B7\_20MHz

### 5.4.1 Test Result

| Band: 7 / Bandwidth: 20MHz / NTN |                 |               |        |                     |       |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       |
|                                  |                 | Size          | Offset | Result              | Limit |
| QPSK                             | 2510            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 | 100           | 0      | Refer To Test Graph | Pass  |
|                                  | 2535            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  | 2560            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 |               | 99     | Refer To Test Graph | Pass  |
|                                  |                 | 100           | 0      | Refer To Test Graph | Pass  |
| 16QAM                            | 2510            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 | 100           | 0      | Refer To Test Graph | Pass  |
|                                  | 2535            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  | 2560            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 |               | 99     | Refer To Test Graph | Pass  |
|                                  |                 | 100           | 0      | Refer To Test Graph | Pass  |
| 64QAM                            | 2510            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 | 100           | 0      | Refer To Test Graph | Pass  |
|                                  | 2535            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  | 2560            | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 |               | 99     | Refer To Test Graph | Pass  |
|                                  |                 | 100           | 0      | Refer To Test Graph | Pass  |



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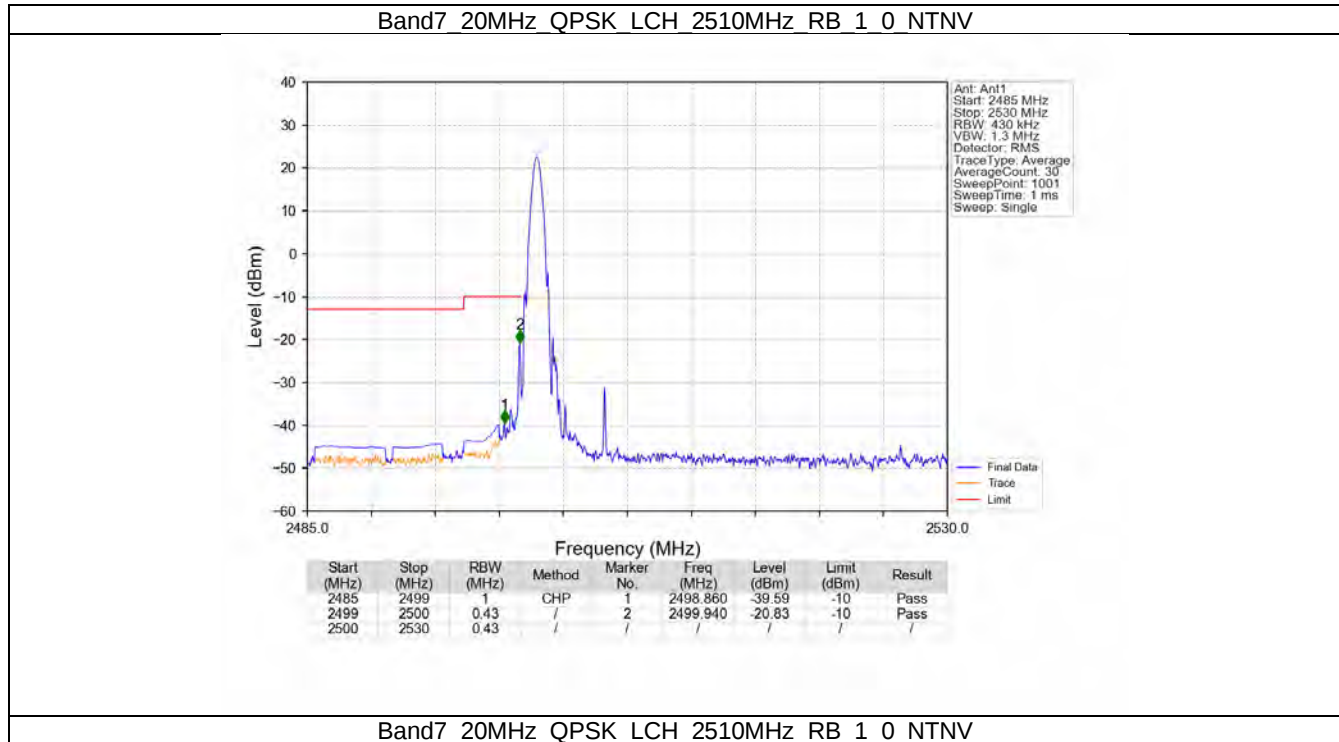
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## 5.4.2 Test Graph



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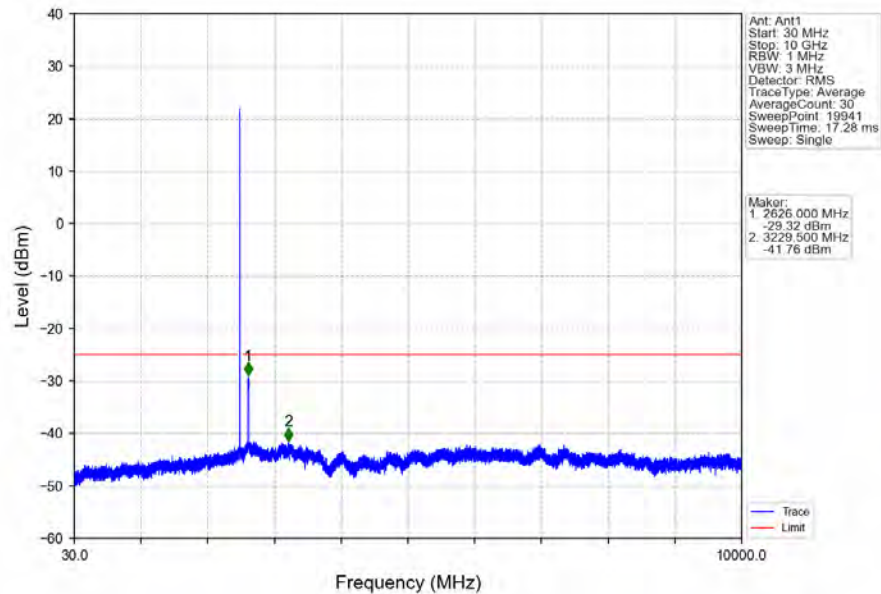


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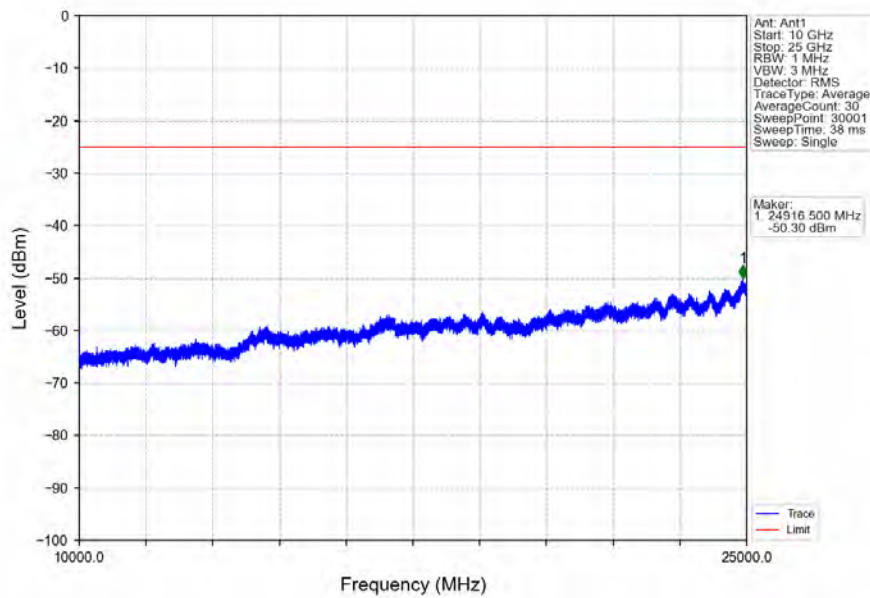
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Band7\_20MHz\_QPSK\_LCH\_2510MHz\_RB\_1\_0\_NTNV



Band7\_20MHz\_QPSK\_LCH\_2510MHz\_RB\_1\_0\_NTNV



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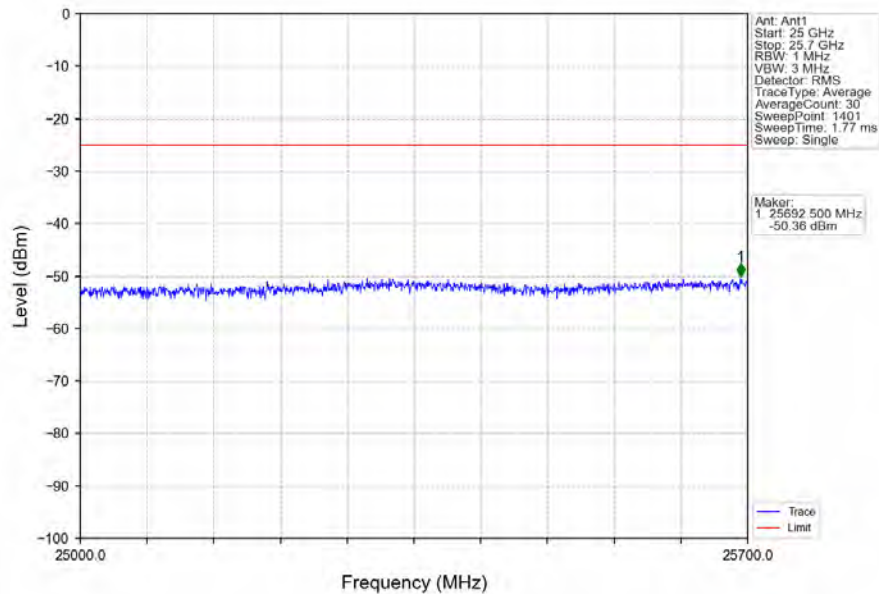


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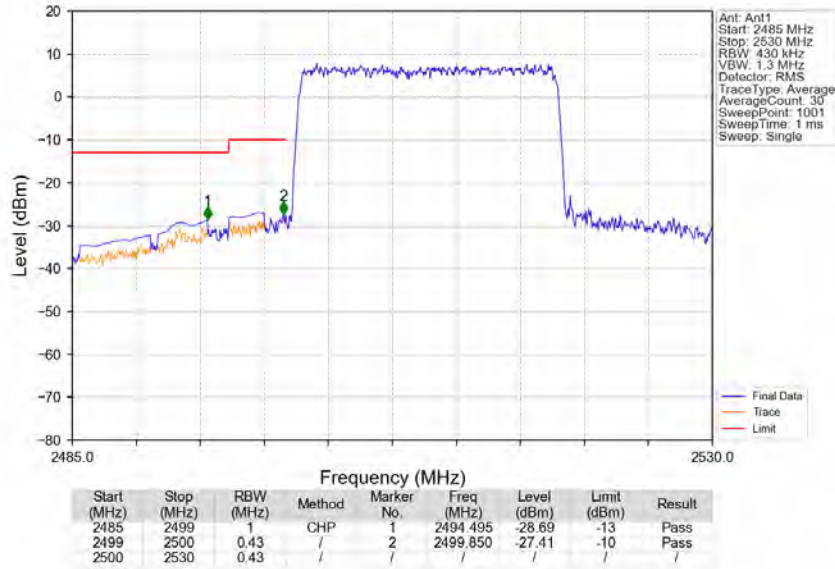
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Band7\_20MHz\_QPSK\_MCH\_2535MHz\_RB\_1\_0\_NTNV



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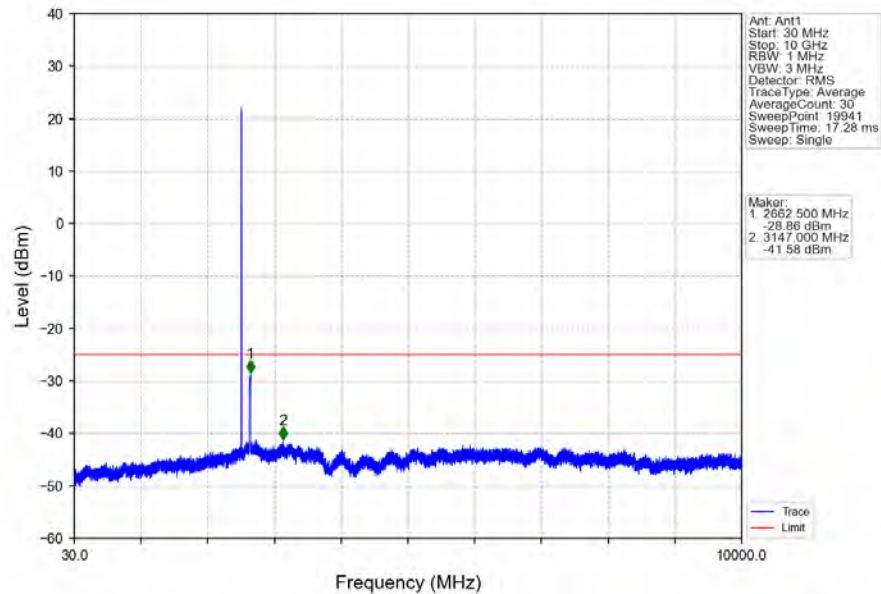


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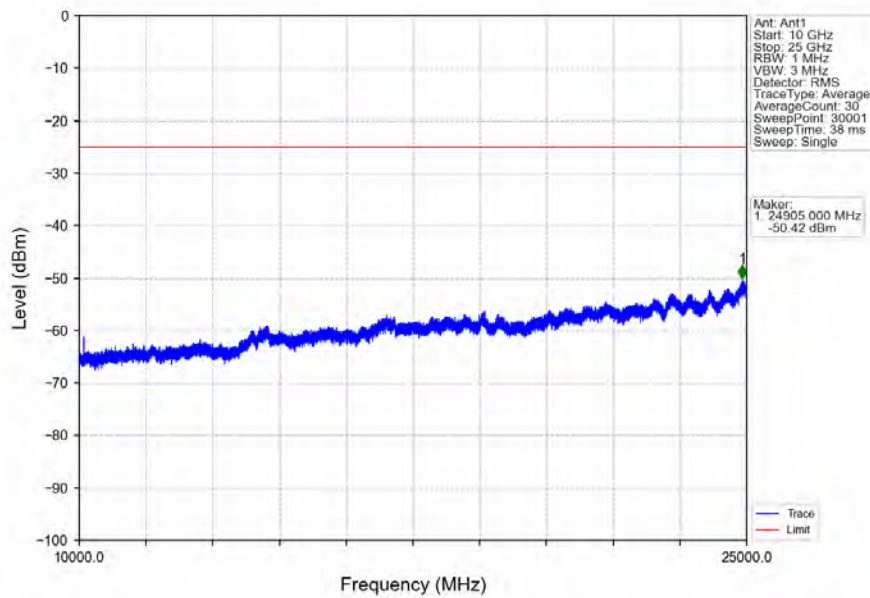
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Band7\_20MHz\_QPSK\_MCH\_2535MHz\_RB\_1\_0\_NTNV



Band7\_20MHz\_QPSK\_MCH\_2535MHz\_RB\_1\_0\_NTNV



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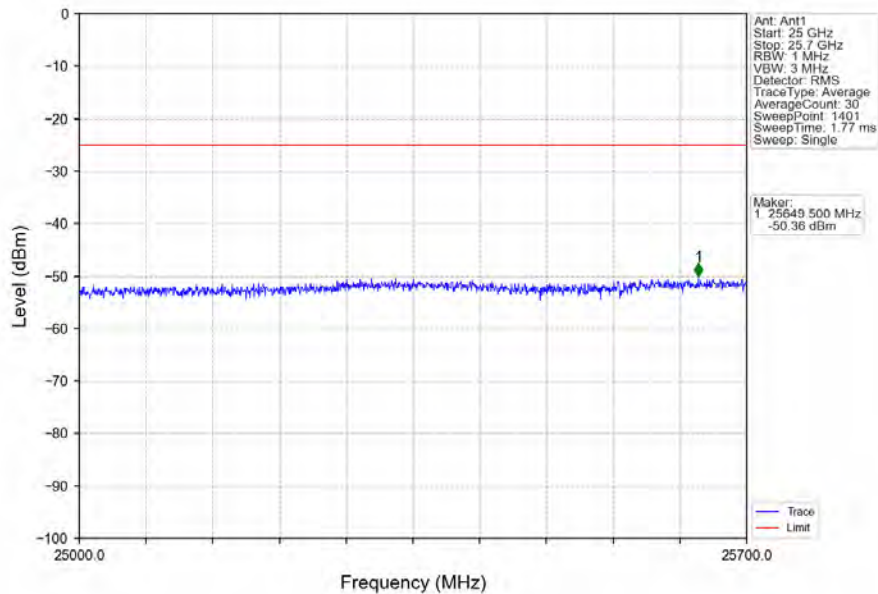


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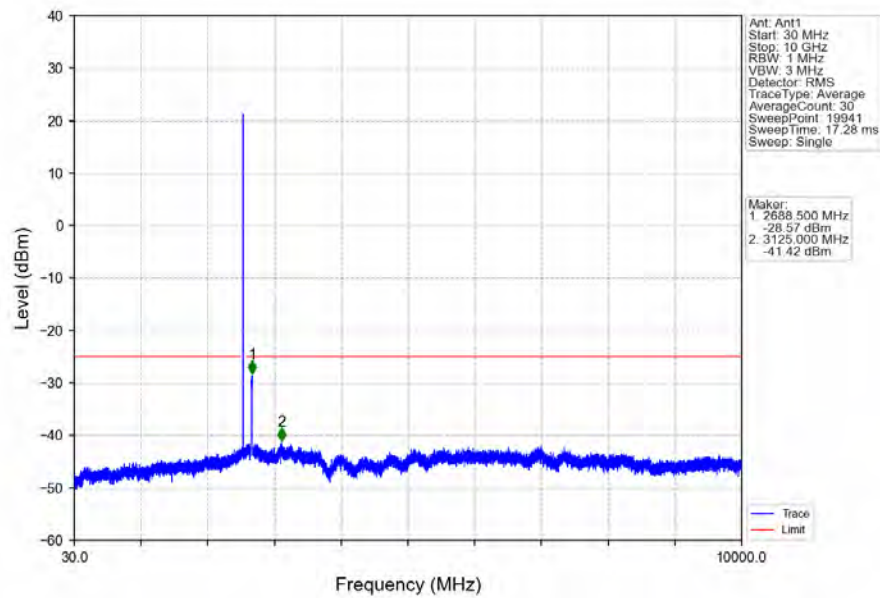
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Band7\_20MHz\_QPSK\_HCH\_2560MHz\_RB\_1\_0\_NTNV



Band7\_20MHz\_QPSK\_HCH\_2560MHz\_RB\_1\_0\_NTNV



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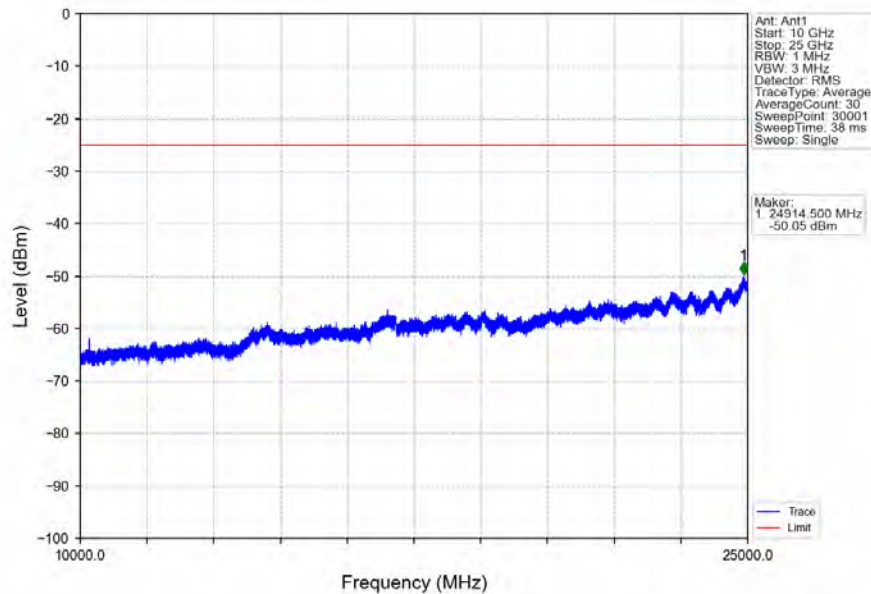


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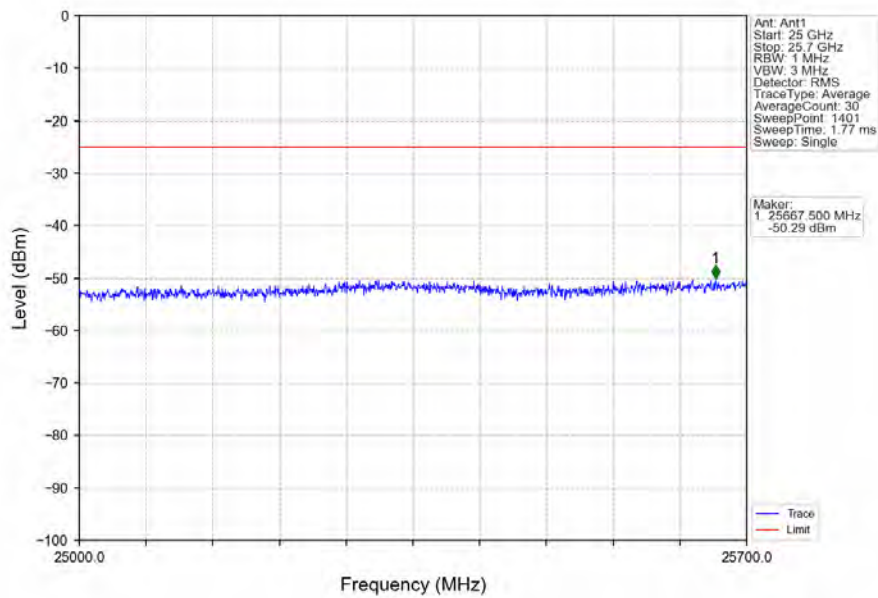
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Band7\_20MHz\_QPSK\_HCH\_2560MHz\_RB\_1\_99\_NTNV



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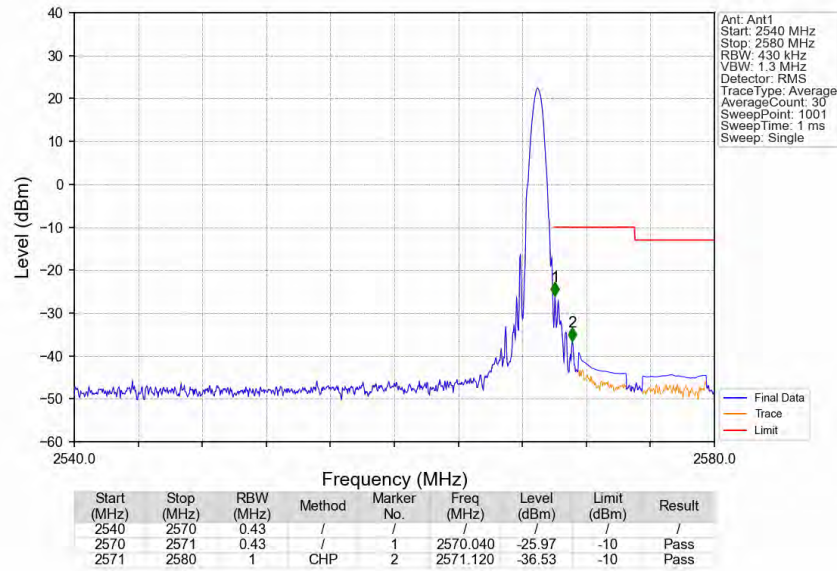


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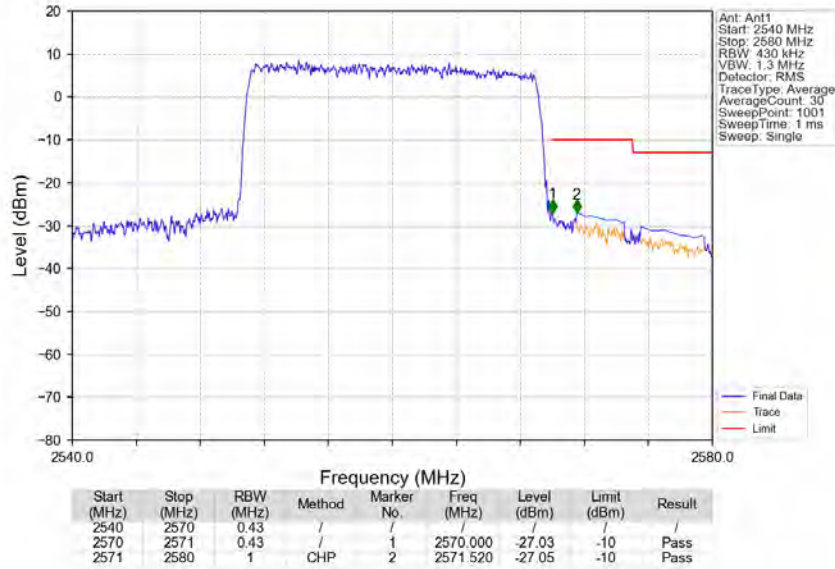
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Band7\_20MHz\_16QAM\_LCH\_2510MHz\_RB\_1\_0\_NTNV



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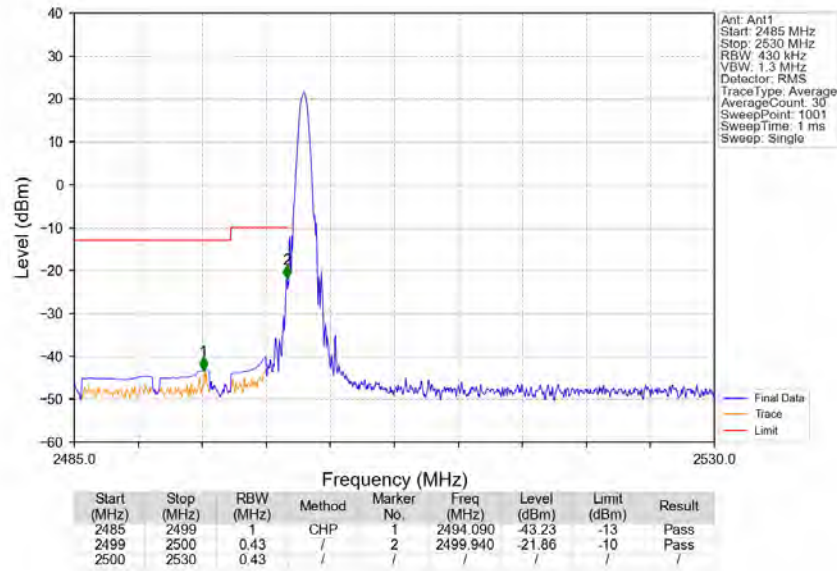


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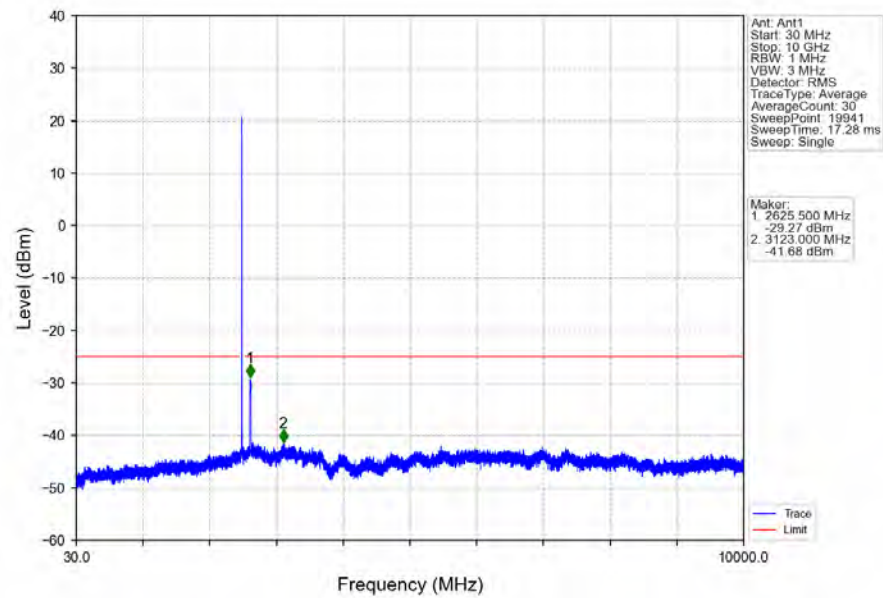
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Band7 20MHz 16QAM LCH 2510MHz RB 1 0 NTNV



Band7 20MHz 16QAM LCH 2510MHz RB 1 0 NTNV



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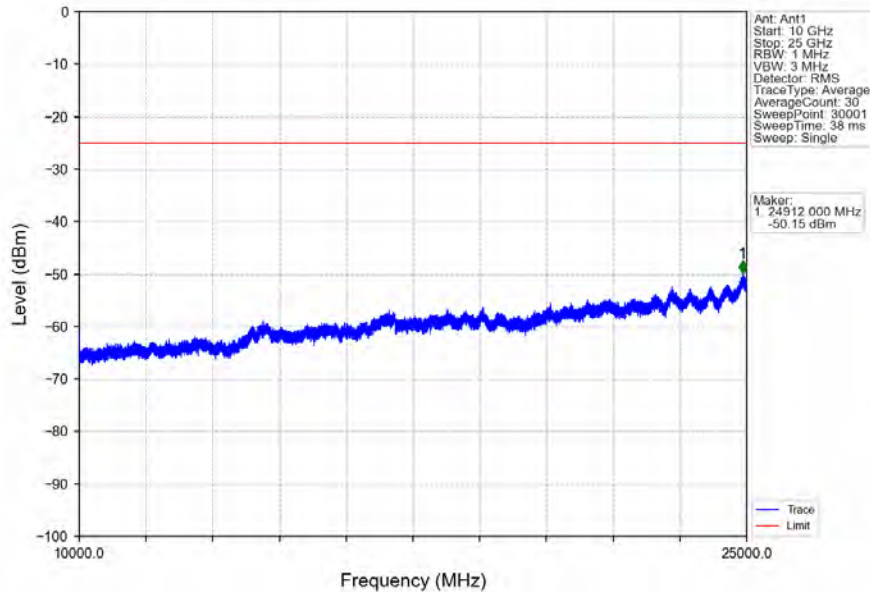


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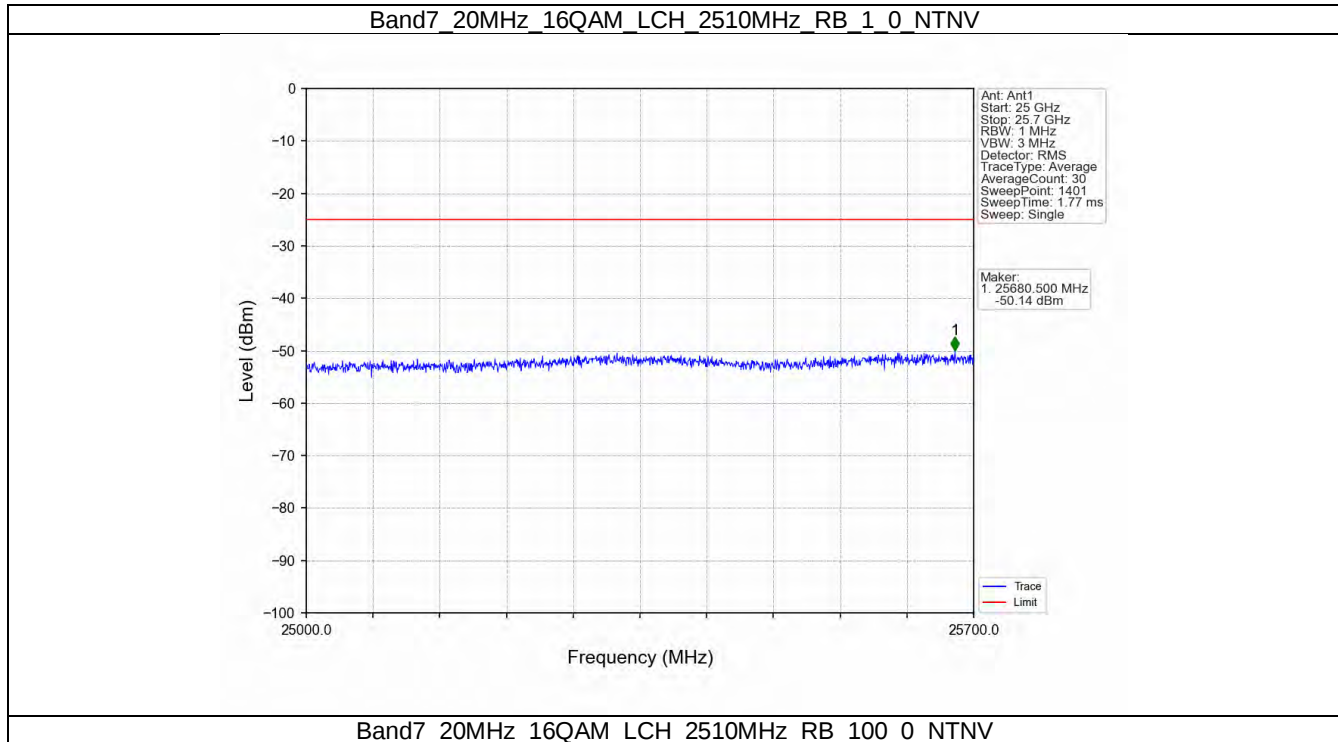


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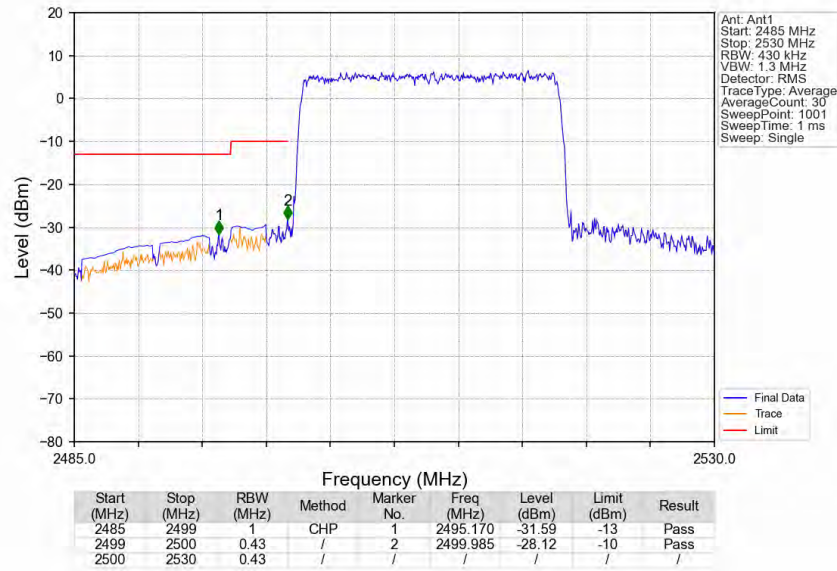


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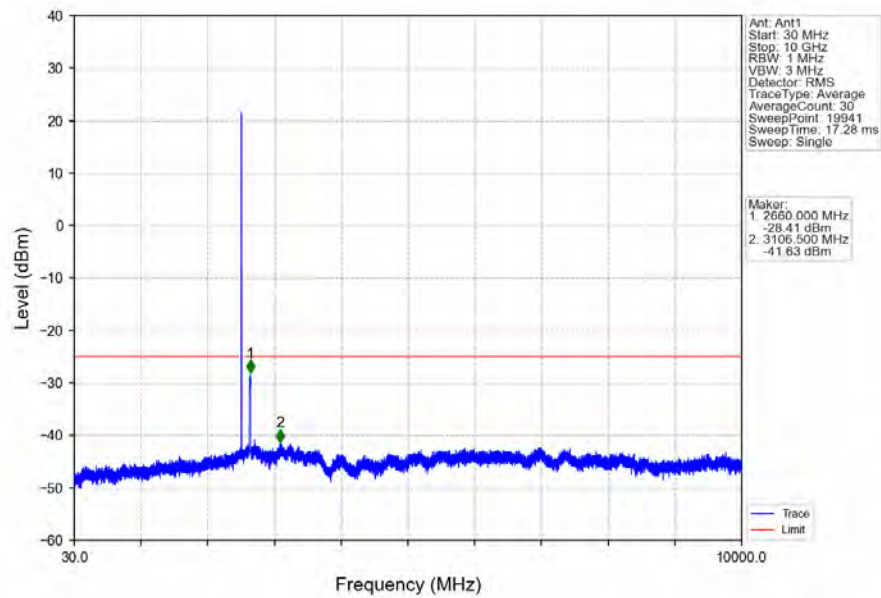
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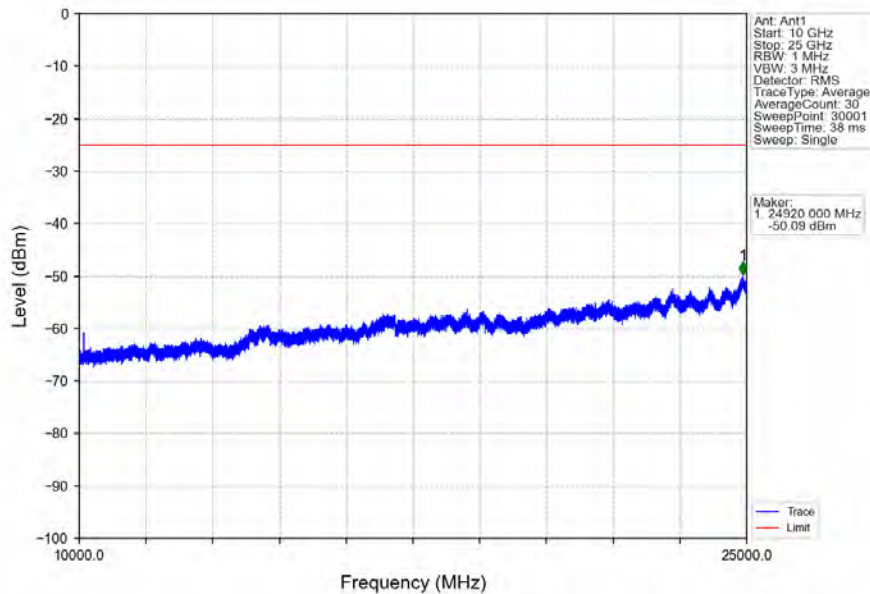


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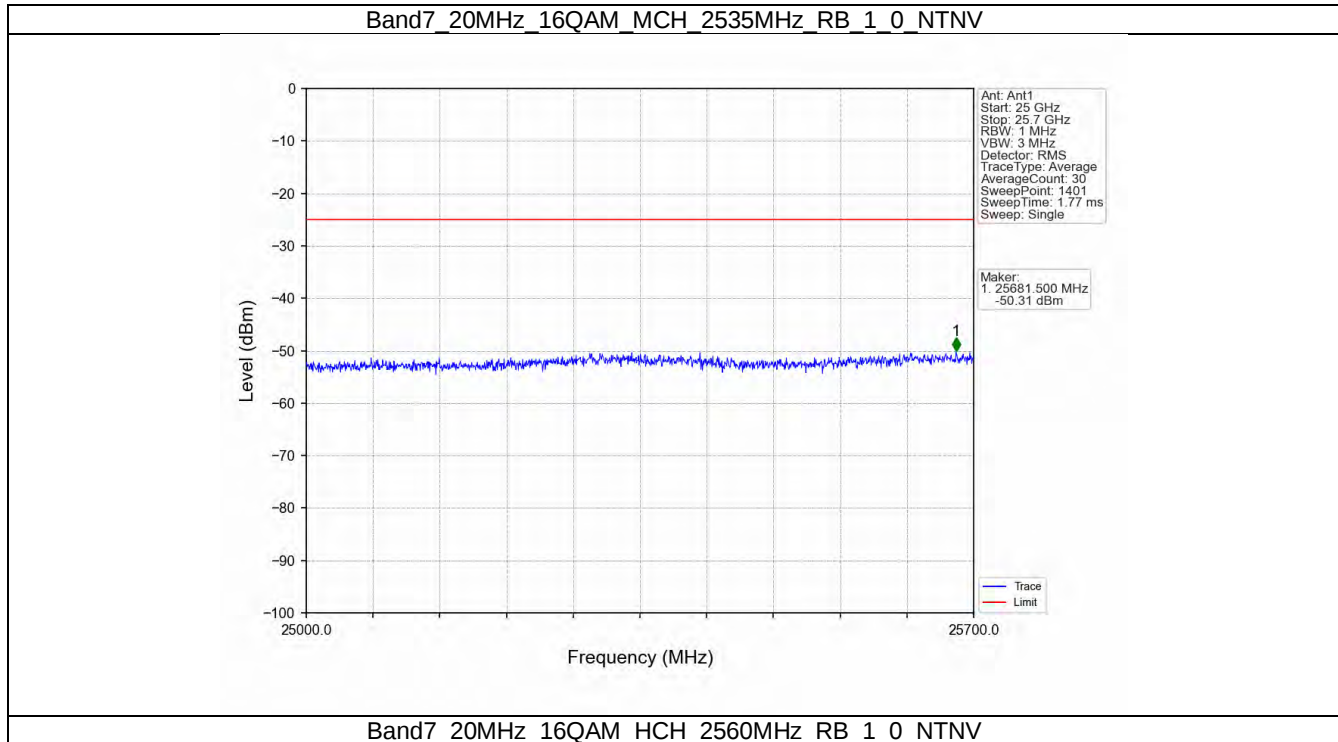


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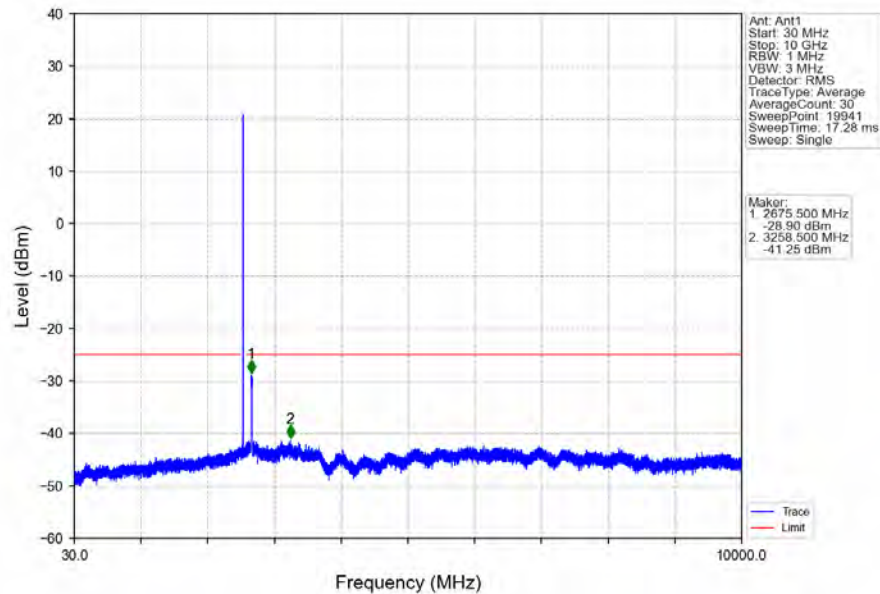


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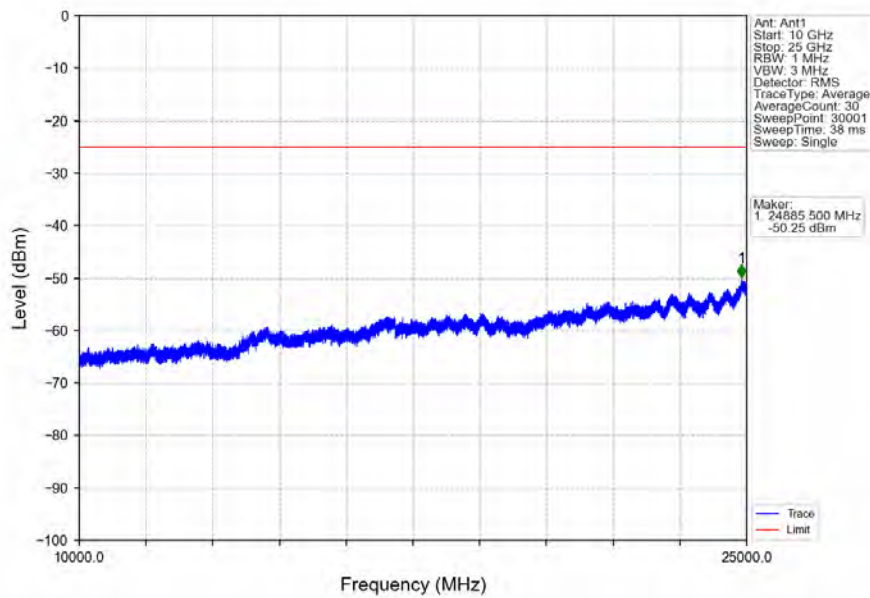
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Band7\_20MHz\_16QAM\_HCH\_2560MHz\_RB\_1\_0\_NTNV



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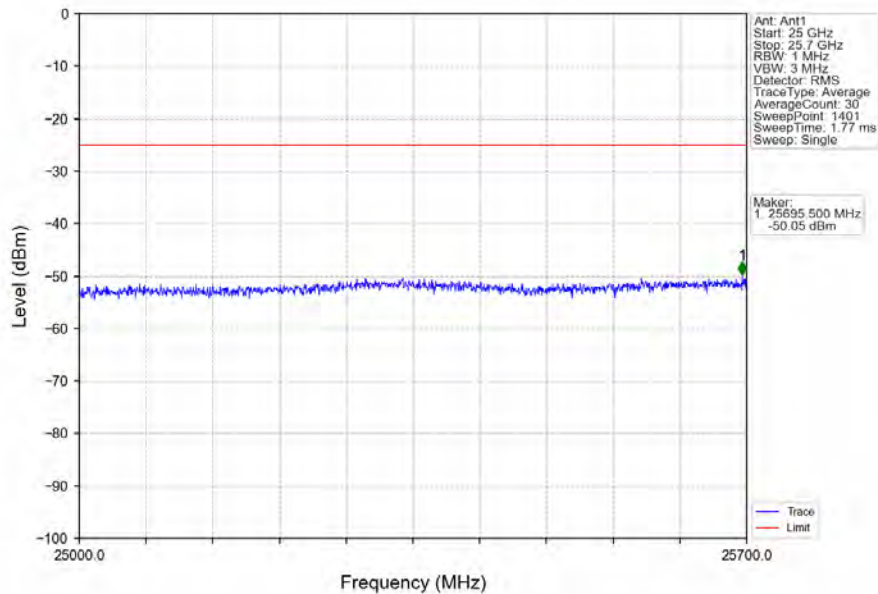


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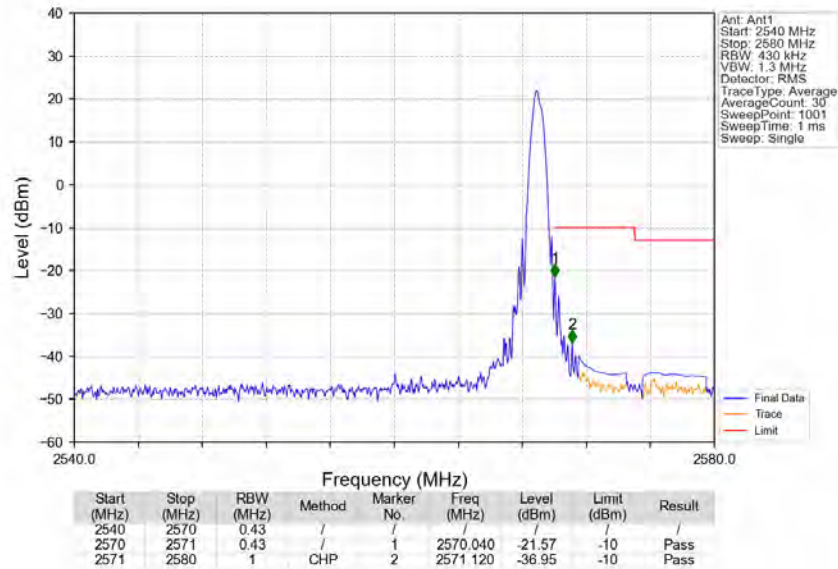
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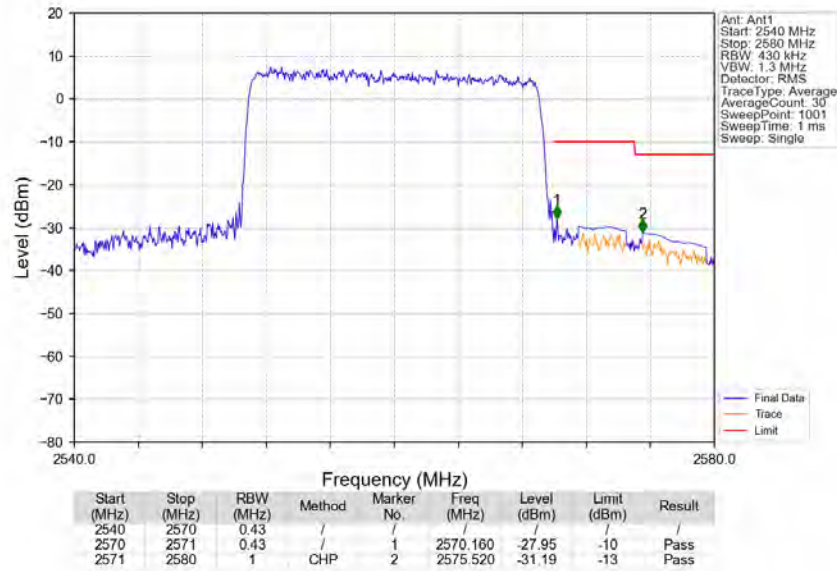


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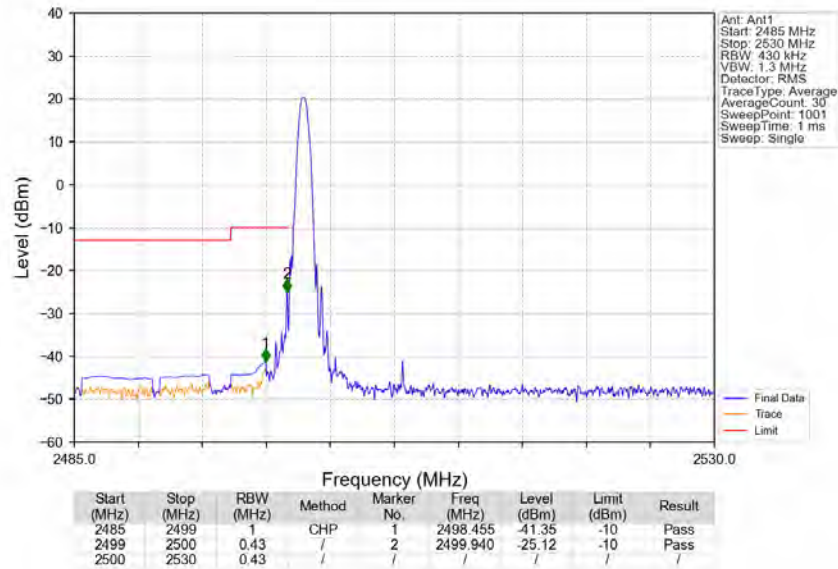
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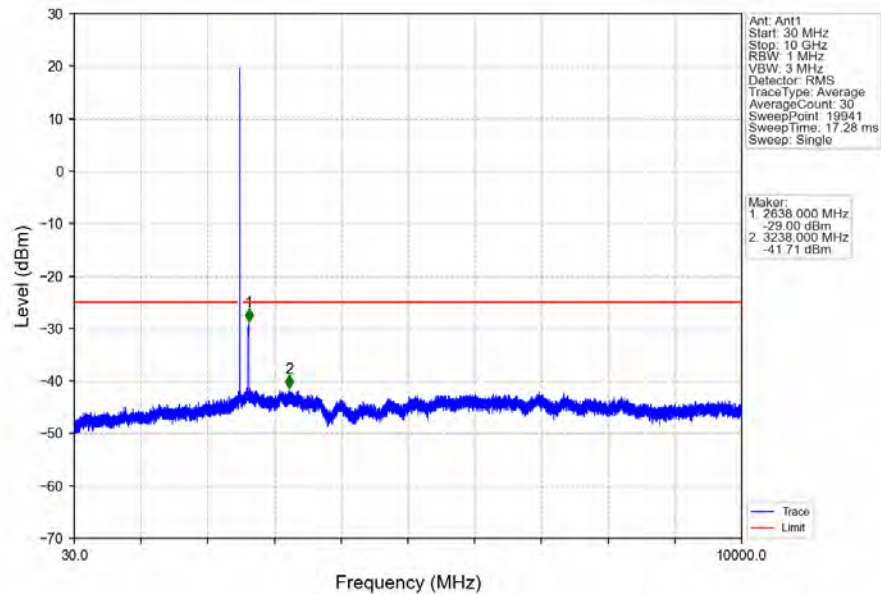


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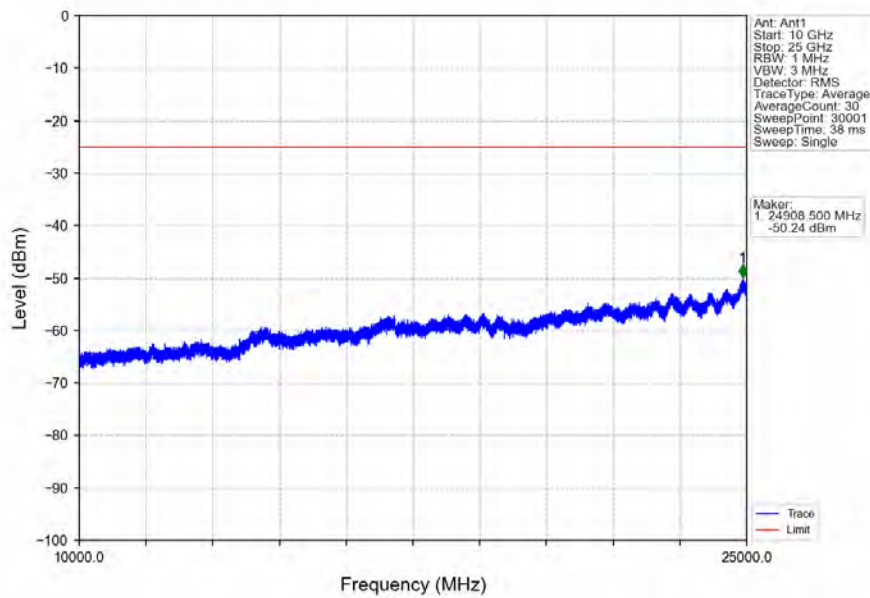
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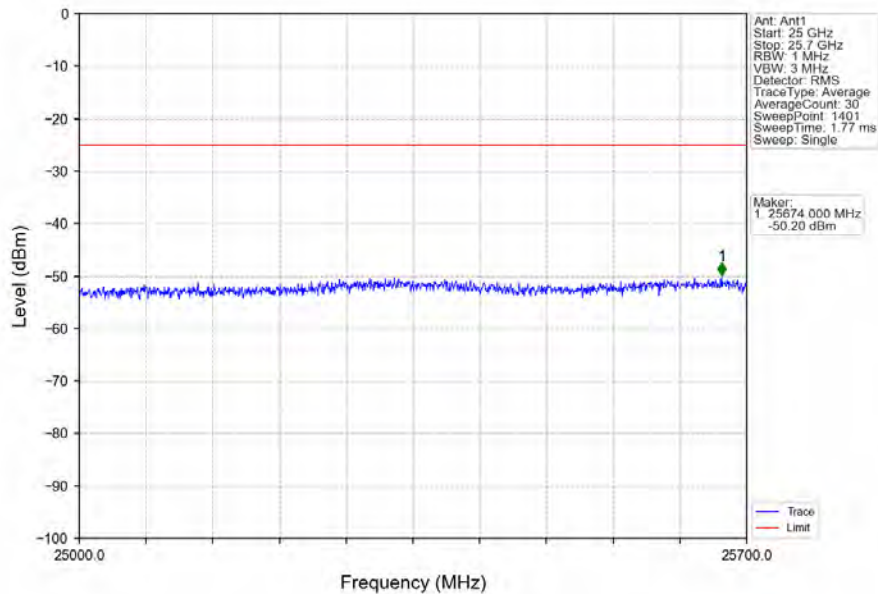


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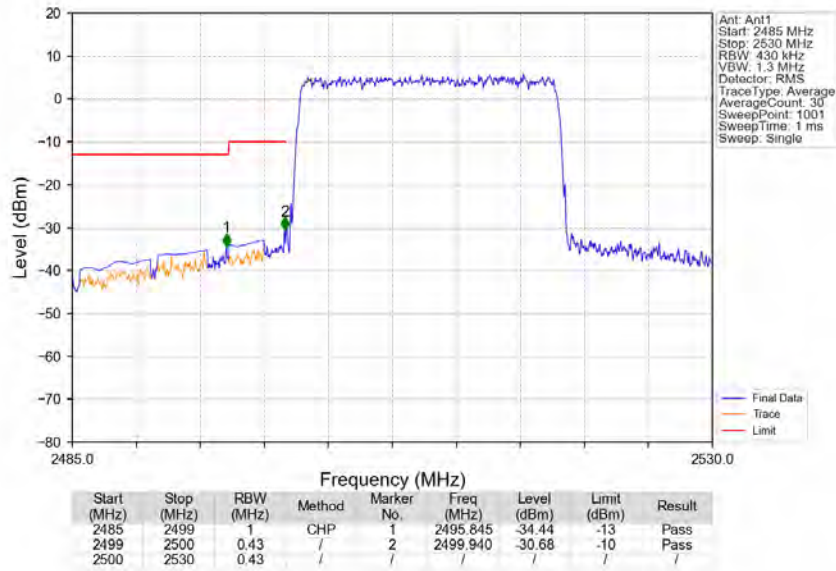
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Band7\_20MHz\_64QAM\_LCH\_2510MHz\_RB\_100\_0\_NTNV



Band7\_20MHz\_64QAM\_MCH\_2535MHz\_RB\_1\_0\_NTNV



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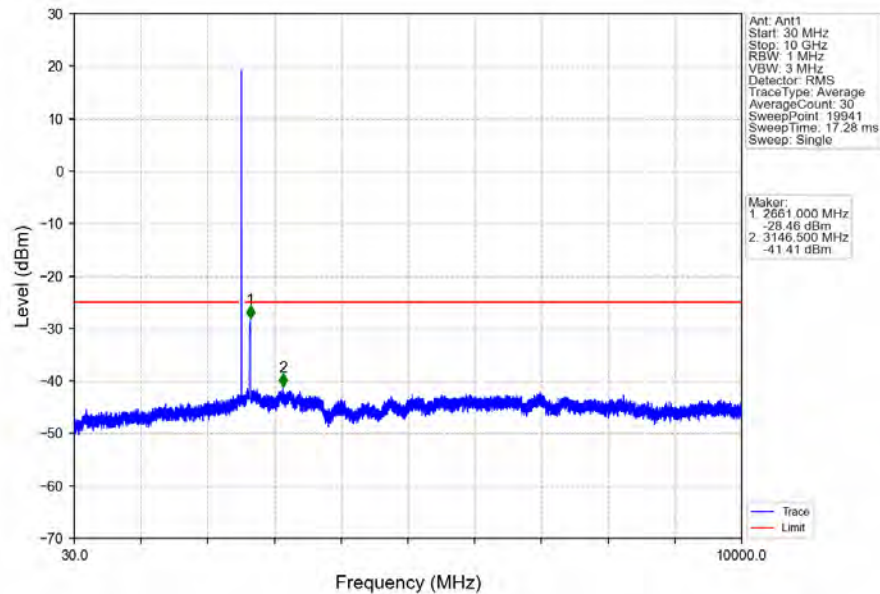


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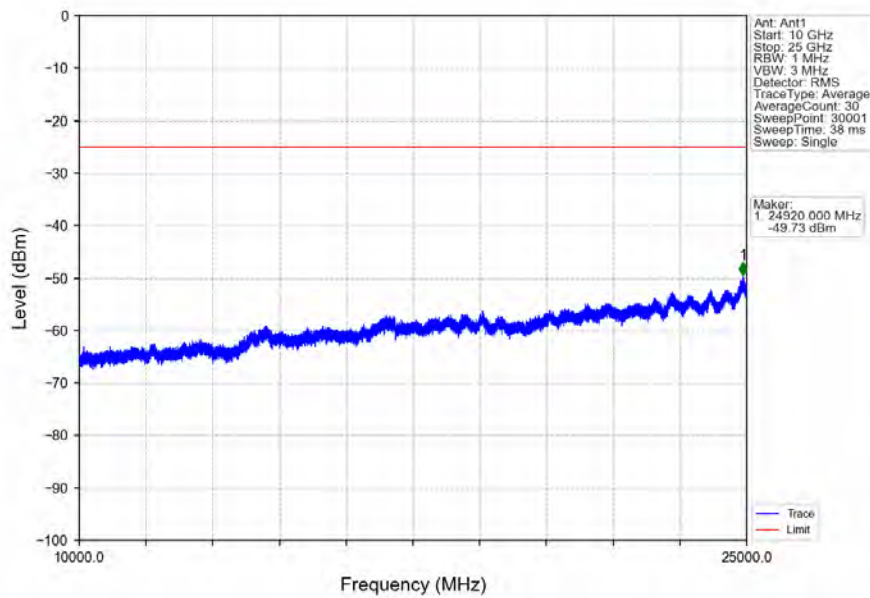
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Band7\_20MHz\_64QAM\_MCH\_2535MHz\_RB\_1\_0\_NTNV



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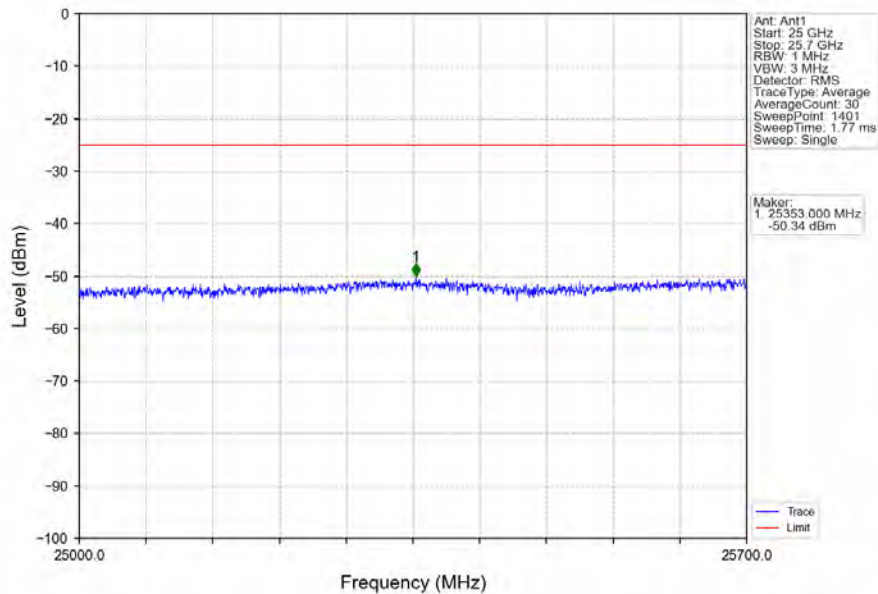


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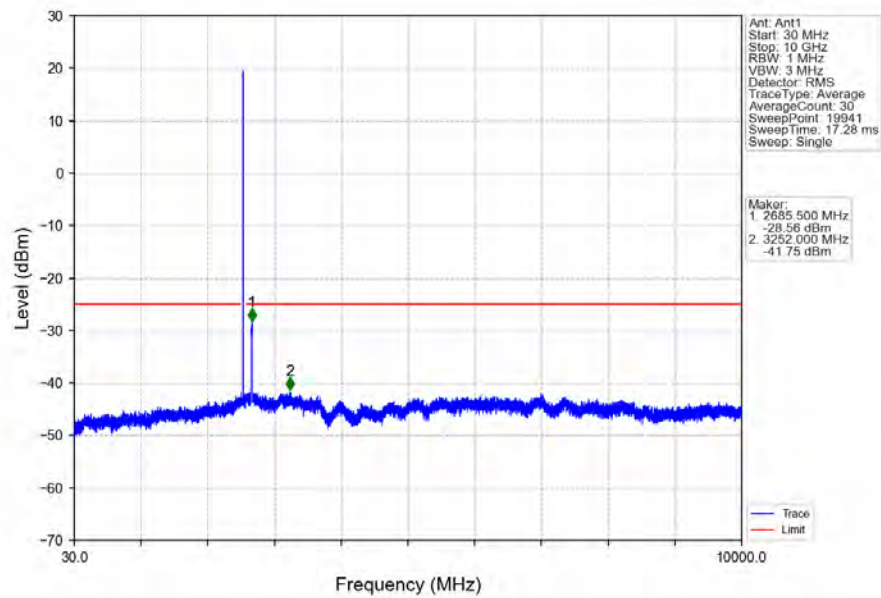
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Band7 20MHz 64QAM HCH 2560MHz RB 1 0 NTNV



Band7 20MHz 64QAM HCH 2560MHz RB 1 0 NTNV



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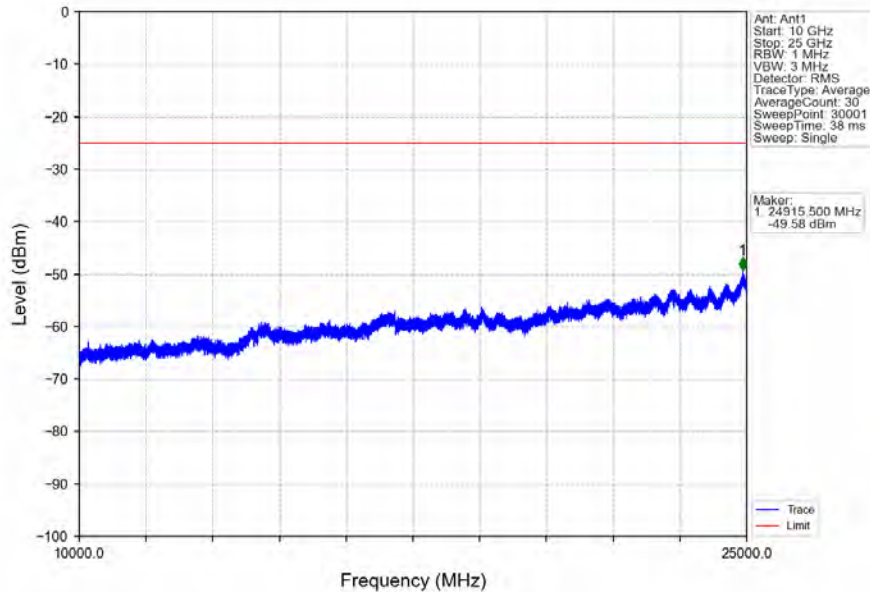


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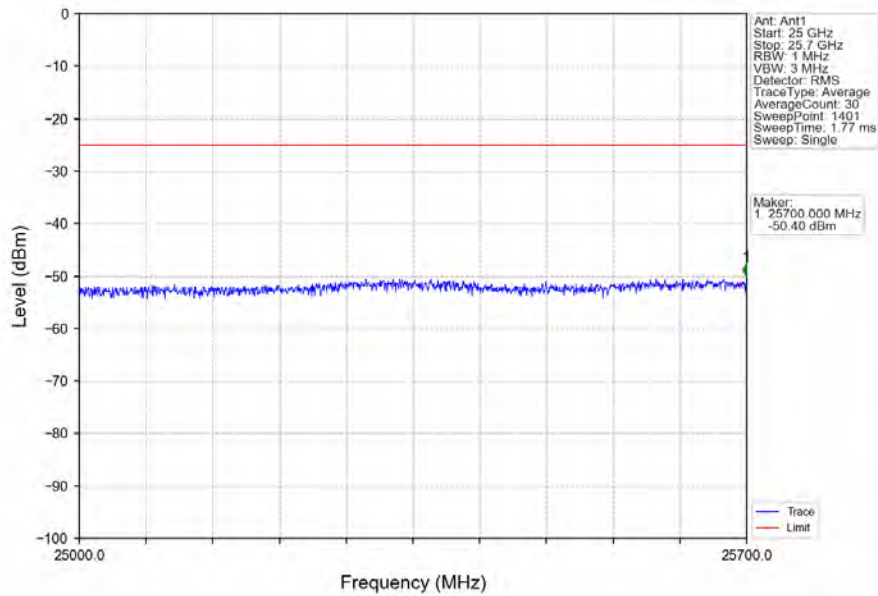
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Band7\_20MHz\_64QAM\_HCH\_2560MHz\_RB\_1\_0\_NTNV



Band7\_20MHz\_64QAM\_HCH\_2560MHz\_RB\_1\_99\_NTNV



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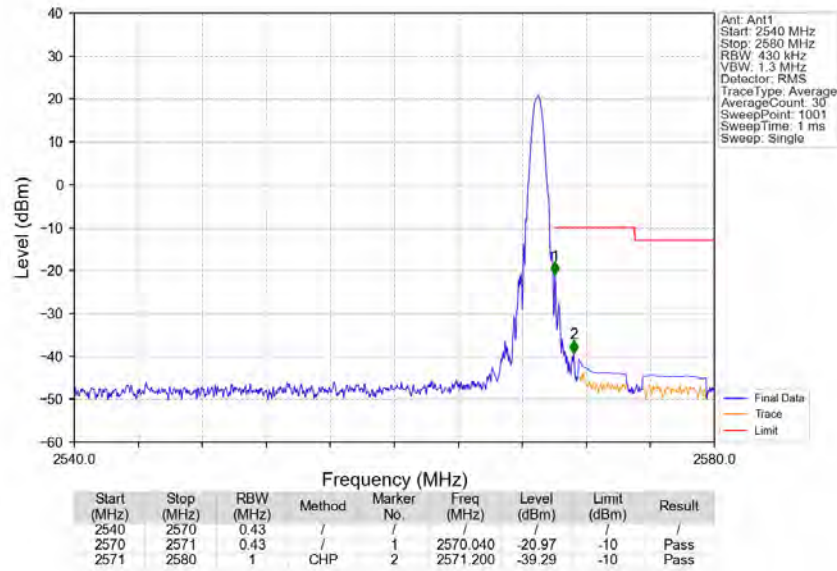


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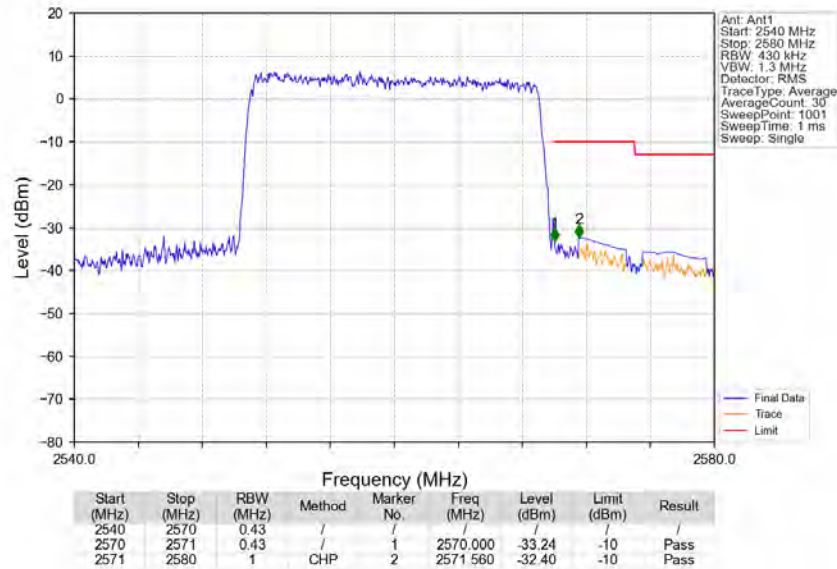
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Band7 20MHz 64QAM HCH 2560MHz RB 100 0 NTV



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## 6. Field Strength of Spurious Radiation

**LTE Band 7-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0**

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 5002            | -52.87     | -25         | -27.87          | -58.75           | 4.26            | 10.14              | Horizontal         | Pass   |
| 7503            | -48.49     | -25         | -23.49          | -56.015          | 4.22            | 11.74              | Horizontal         | Pass   |
| 10004           | -46.16     | -25         | -21.16          | -54.11           | 5.08            | 13.03              | Horizontal         | Pass   |
| 5002            | -51.92     | -25         | -26.92          | -57.8            | 4.26            | 10.14              | Vertical           | Pass   |
| 7503            | -49.07     | -25         | -24.07          | -56.595          | 4.22            | 11.74              | Vertical           | Pass   |
| 10004           | -46.01     | -25         | -21.01          | -53.96           | 5.08            | 13.03              | Vertical           | Pass   |

**LTE Band 7-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0**

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 5052            | -52.5      | -25         | -27.5           | -58.38           | 4.26            | 10.14              | Horizontal         | Pass   |
| 7578            | -48.92     | -25         | -23.92          | -56.445          | 4.22            | 11.74              | Horizontal         | Pass   |
| 10104           | -45.87     | -25         | -20.87          | -53.82           | 5.08            | 13.03              | Horizontal         | Pass   |
| 5052            | -53.26     | -25         | -28.26          | -59.14           | 4.26            | 10.14              | Vertical           | Pass   |
| 7578            | -48.85     | -25         | -23.85          | -56.375          | 4.22            | 11.74              | Vertical           | Pass   |
| 10104           | -45.65     | -25         | -20.65          | -53.6            | 5.08            | 13.03              | Vertical           | Pass   |

**LTE Band 7-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0**

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 5102            | -52.68     | -25         | -27.68          | -58.56           | 4.26            | 10.14              | Horizontal         | Pass   |
| 7653            | -49.13     | -25         | -24.13          | -56.655          | 4.22            | 11.74              | Horizontal         | Pass   |
| 10204           | -47.5      | -25         | -22.5           | -55.45           | 5.08            | 13.03              | Horizontal         | Pass   |
| 5102            | -52.6      | -25         | -27.6           | -58.48           | 4.26            | 10.14              | Vertical           | Pass   |
| 7653            | -48.78     | -25         | -23.78          | -56.305          | 4.22            | 11.74              | Vertical           | Pass   |
| 10204           | -47.54     | -25         | -22.54          | -55.49           | 5.08            | 13.03              | Vertical           | Pass   |

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