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# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result Ant1

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm/10MHz) | EIRP (dBm/10MHz) | Limit (dBm/10MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------|------------------|-------------------|---------|
| Band48 | 5MHz      | QPSK       | L       | 1RB0             | 19.08              | 22.48            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | L       | 1RB12            | 19.13              | 22.53            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | L       | 1RB24            | 19.08              | 22.48            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | L       | 25RB0            | 19.2               | 22.6             | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | M       | 1RB0             | 19.05              | 22.45            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | M       | 1RB12            | 19.15              | 22.55            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | M       | 1RB24            | 19.02              | 22.42            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | M       | 25RB0            | 19.22              | 22.62            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | H       | 1RB0             | 19.02              | 22.42            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | H       | 1RB12            | 19.11              | 22.51            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | H       | 1RB24            | 19.04              | 22.44            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | H       | 25RB0            | 19.19              | 22.59            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | L       | 1RB0             | 19.49              | 22.89            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | L       | 1RB12            | 19.5               | 22.9             | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | L       | 1RB24            | 19.51              | 22.91            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | L       | 25RB0            | 19.17              | 22.57            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | M       | 1RB0             | 19.36              | 22.76            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | M       | 1RB12            | 19.44              | 22.84            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | M       | 1RB24            | 19.31              | 22.71            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | M       | 25RB0            | 19.12              | 22.52            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | H       | 1RB0             | 19.41              | 22.81            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | H       | 1RB12            | 19.38              | 22.78            | 23                | PASS    |

|        |       |       |   |       |       |       |    |      |
|--------|-------|-------|---|-------|-------|-------|----|------|
| Band48 | 5MHz  | 16QAM | H | 1RB24 | 19.46 | 22.86 | 23 | PASS |
| Band48 | 5MHz  | 16QAM | H | 25RB0 | 19.11 | 22.51 | 23 | PASS |
| Band48 | 5MHz  | 64QAM | L | 1RB0  | 19.28 | 22.68 | 23 | PASS |
| Band48 | 5MHz  | 64QAM | L | 1RB12 | 19.28 | 22.68 | 23 | PASS |
| Band48 | 5MHz  | 64QAM | L | 1RB24 | 19.22 | 22.62 | 23 | PASS |
| Band48 | 5MHz  | 64QAM | L | 25RB0 | 19.29 | 22.69 | 23 | PASS |
| Band48 | 5MHz  | 64QAM | M | 1RB0  | 19.14 | 22.54 | 23 | PASS |
| Band48 | 5MHz  | 64QAM | M | 1RB12 | 19.27 | 22.67 | 23 | PASS |
| Band48 | 5MHz  | 64QAM | M | 1RB24 | 19.18 | 22.58 | 23 | PASS |
| Band48 | 5MHz  | 64QAM | M | 25RB0 | 19.23 | 22.63 | 23 | PASS |
| Band48 | 5MHz  | 64QAM | H | 1RB0  | 19.19 | 22.59 | 23 | PASS |
| Band48 | 5MHz  | 64QAM | H | 1RB12 | 19.21 | 22.61 | 23 | PASS |
| Band48 | 5MHz  | 64QAM | H | 1RB24 | 19.13 | 22.53 | 23 | PASS |
| Band48 | 5MHz  | 64QAM | H | 25RB0 | 19.31 | 22.71 | 23 | PASS |
| Band48 | 10MHz | QPSK  | L | 1RB0  | 19.1  | 22.5  | 23 | PASS |
| Band48 | 10MHz | QPSK  | L | 1RB24 | 18.67 | 22.07 | 23 | PASS |
| Band48 | 10MHz | QPSK  | L | 1RB49 | 18.54 | 21.94 | 23 | PASS |
| Band48 | 10MHz | QPSK  | L | 50RB0 | 18.92 | 22.32 | 23 | PASS |
| Band48 | 10MHz | QPSK  | M | 1RB0  | 18.64 | 22.04 | 23 | PASS |
| Band48 | 10MHz | QPSK  | M | 1RB24 | 18.65 | 22.05 | 23 | PASS |
| Band48 | 10MHz | QPSK  | M | 1RB49 | 18.38 | 21.78 | 23 | PASS |
| Band48 | 10MHz | QPSK  | M | 50RB0 | 18.53 | 21.93 | 23 | PASS |
| Band48 | 10MHz | QPSK  | H | 1RB0  | 18.33 | 21.73 | 23 | PASS |
| Band48 | 10MHz | QPSK  | H | 1RB24 | 18.28 | 21.68 | 23 | PASS |
| Band48 | 10MHz | QPSK  | H | 1RB49 | 18.08 | 21.48 | 23 | PASS |
| Band48 | 10MHz | QPSK  | H | 50RB0 | 18.24 | 21.64 | 23 | PASS |

|        |       |       |   |       |       |       |    |      |
|--------|-------|-------|---|-------|-------|-------|----|------|
| Band48 | 10MHz | 16QAM | L | 1RB0  | 19.4  | 22.8  | 23 | PASS |
| Band48 | 10MHz | 16QAM | L | 1RB24 | 19.18 | 22.58 | 23 | PASS |
| Band48 | 10MHz | 16QAM | L | 1RB49 | 18.92 | 22.32 | 23 | PASS |
| Band48 | 10MHz | 16QAM | L | 50RB0 | 18.97 | 22.37 | 23 | PASS |
| Band48 | 10MHz | 16QAM | M | 1RB0  | 19.09 | 22.49 | 23 | PASS |
| Band48 | 10MHz | 16QAM | M | 1RB24 | 19    | 22.4  | 23 | PASS |
| Band48 | 10MHz | 16QAM | M | 1RB49 | 18.77 | 22.17 | 23 | PASS |
| Band48 | 10MHz | 16QAM | M | 50RB0 | 18.59 | 21.99 | 23 | PASS |
| Band48 | 10MHz | 16QAM | H | 1RB0  | 18.69 | 22.09 | 23 | PASS |
| Band48 | 10MHz | 16QAM | H | 1RB24 | 18.57 | 21.97 | 23 | PASS |
| Band48 | 10MHz | 16QAM | H | 1RB49 | 18.49 | 21.89 | 23 | PASS |
| Band48 | 10MHz | 16QAM | H | 50RB0 | 18.32 | 21.72 | 23 | PASS |
| Band48 | 10MHz | 64QAM | L | 1RB0  | 19.3  | 22.7  | 23 | PASS |
| Band48 | 10MHz | 64QAM | L | 1RB24 | 19.1  | 22.5  | 23 | PASS |
| Band48 | 10MHz | 64QAM | L | 1RB49 | 18.92 | 22.32 | 23 | PASS |
| Band48 | 10MHz | 64QAM | L | 50RB0 | 18.97 | 22.37 | 23 | PASS |
| Band48 | 10MHz | 64QAM | M | 1RB0  | 19.05 | 22.45 | 23 | PASS |
| Band48 | 10MHz | 64QAM | M | 1RB24 | 18.95 | 22.35 | 23 | PASS |
| Band48 | 10MHz | 64QAM | M | 1RB49 | 18.71 | 22.11 | 23 | PASS |
| Band48 | 10MHz | 64QAM | M | 50RB0 | 18.65 | 22.05 | 23 | PASS |
| Band48 | 10MHz | 64QAM | H | 1RB0  | 18.72 | 22.12 | 23 | PASS |
| Band48 | 10MHz | 64QAM | H | 1RB24 | 18.59 | 21.99 | 23 | PASS |
| Band48 | 10MHz | 64QAM | H | 1RB49 | 18.41 | 21.81 | 23 | PASS |
| Band48 | 10MHz | 64QAM | H | 50RB0 | 18.29 | 21.69 | 23 | PASS |
| Band48 | 15MHz | QPSK  | L | 1RB0  | 19.03 | 22.43 | 23 | PASS |
| Band48 | 15MHz | QPSK  | L | 1RB38 | 18.7  | 22.1  | 23 | PASS |

|        |       |       |   |       |       |       |    |      |
|--------|-------|-------|---|-------|-------|-------|----|------|
| Band48 | 15MHz | QPSK  | L | 1RB74 | 18.53 | 21.93 | 23 | PASS |
| Band48 | 15MHz | QPSK  | L | 75RB0 | 18.93 | 22.33 | 23 | PASS |
| Band48 | 15MHz | QPSK  | M | 1RB0  | 18.82 | 22.22 | 23 | PASS |
| Band48 | 15MHz | QPSK  | M | 1RB38 | 18.54 | 21.94 | 23 | PASS |
| Band48 | 15MHz | QPSK  | M | 1RB74 | 18.37 | 21.77 | 23 | PASS |
| Band48 | 15MHz | QPSK  | M | 75RB0 | 18.67 | 22.07 | 23 | PASS |
| Band48 | 15MHz | QPSK  | H | 1RB0  | 18.56 | 21.96 | 23 | PASS |
| Band48 | 15MHz | QPSK  | H | 1RB38 | 18.18 | 21.58 | 23 | PASS |
| Band48 | 15MHz | QPSK  | H | 1RB74 | 18.1  | 21.5  | 23 | PASS |
| Band48 | 15MHz | QPSK  | H | 75RB0 | 18.36 | 21.76 | 23 | PASS |
| Band48 | 15MHz | 16QAM | L | 1RB0  | 19.27 | 22.67 | 23 | PASS |
| Band48 | 15MHz | 16QAM | L | 1RB38 | 19.08 | 22.48 | 23 | PASS |
| Band48 | 15MHz | 16QAM | L | 1RB74 | 18.8  | 22.2  | 23 | PASS |
| Band48 | 15MHz | 16QAM | L | 75RB0 | 18.94 | 22.34 | 23 | PASS |
| Band48 | 15MHz | 16QAM | M | 1RB0  | 19.19 | 22.59 | 23 | PASS |
| Band48 | 15MHz | 16QAM | M | 1RB38 | 18.97 | 22.37 | 23 | PASS |
| Band48 | 15MHz | 16QAM | M | 1RB74 | 18.6  | 22    | 23 | PASS |
| Band48 | 15MHz | 16QAM | M | 75RB0 | 18.69 | 22.09 | 23 | PASS |
| Band48 | 15MHz | 16QAM | H | 1RB0  | 18.9  | 22.3  | 23 | PASS |
| Band48 | 15MHz | 16QAM | H | 1RB38 | 18.52 | 21.92 | 23 | PASS |
| Band48 | 15MHz | 16QAM | H | 1RB74 | 18.19 | 21.59 | 23 | PASS |
| Band48 | 15MHz | 16QAM | H | 75RB0 | 18.38 | 21.78 | 23 | PASS |
| Band48 | 15MHz | 64QAM | L | 1RB0  | 19.31 | 22.71 | 23 | PASS |
| Band48 | 15MHz | 64QAM | L | 1RB38 | 19.13 | 22.53 | 23 | PASS |
| Band48 | 15MHz | 64QAM | L | 1RB74 | 18.85 | 22.25 | 23 | PASS |
| Band48 | 15MHz | 64QAM | L | 75RB0 | 18.95 | 22.35 | 23 | PASS |

|        |       |       |   |        |       |       |    |      |
|--------|-------|-------|---|--------|-------|-------|----|------|
| Band48 | 15MHz | 64QAM | M | 1RB0   | 19.11 | 22.51 | 23 | PASS |
| Band48 | 15MHz | 64QAM | M | 1RB38  | 19.05 | 22.45 | 23 | PASS |
| Band48 | 15MHz | 64QAM | M | 1RB74  | 18.63 | 22.03 | 23 | PASS |
| Band48 | 15MHz | 64QAM | M | 75RB0  | 18.73 | 22.13 | 23 | PASS |
| Band48 | 15MHz | 64QAM | H | 1RB0   | 18.88 | 22.28 | 23 | PASS |
| Band48 | 15MHz | 64QAM | H | 1RB38  | 18.65 | 22.05 | 23 | PASS |
| Band48 | 15MHz | 64QAM | H | 1RB74  | 18.41 | 21.81 | 23 | PASS |
| Band48 | 15MHz | 64QAM | H | 75RB0  | 18.46 | 21.86 | 23 | PASS |
| Band48 | 20MHz | QPSK  | L | 1RB0   | 18.8  | 22.2  | 23 | PASS |
| Band48 | 20MHz | QPSK  | L | 1RB49  | 18.53 | 21.93 | 23 | PASS |
| Band48 | 20MHz | QPSK  | L | 1RB99  | 18.36 | 21.76 | 23 | PASS |
| Band48 | 20MHz | QPSK  | L | 100RB0 | 18.69 | 22.09 | 23 | PASS |
| Band48 | 20MHz | QPSK  | M | 1RB0   | 18.7  | 22.1  | 23 | PASS |
| Band48 | 20MHz | QPSK  | M | 1RB49  | 18.37 | 21.77 | 23 | PASS |
| Band48 | 20MHz | QPSK  | M | 1RB99  | 18.1  | 21.5  | 23 | PASS |
| Band48 | 20MHz | QPSK  | M | 100RB0 | 18.55 | 21.95 | 23 | PASS |
| Band48 | 20MHz | QPSK  | H | 1RB0   | 18.45 | 21.85 | 23 | PASS |
| Band48 | 20MHz | QPSK  | H | 1RB49  | 18.28 | 21.68 | 23 | PASS |
| Band48 | 20MHz | QPSK  | H | 1RB99  | 18.22 | 21.62 | 23 | PASS |
| Band48 | 20MHz | QPSK  | H | 100RB0 | 18.49 | 21.89 | 23 | PASS |
| Band48 | 20MHz | 16QAM | L | 1RB0   | 19.22 | 22.62 | 23 | PASS |
| Band48 | 20MHz | 16QAM | L | 1RB49  | 18.91 | 22.31 | 23 | PASS |
| Band48 | 20MHz | 16QAM | L | 1RB99  | 18.69 | 22.09 | 23 | PASS |
| Band48 | 20MHz | 16QAM | L | 100RB0 | 18.68 | 22.08 | 23 | PASS |
| Band48 | 20MHz | 16QAM | M | 1RB0   | 19.04 | 22.44 | 23 | PASS |
| Band48 | 20MHz | 16QAM | M | 1RB49  | 19.19 | 22.59 | 23 | PASS |

|        |       |       |   |        |       |       |    |      |
|--------|-------|-------|---|--------|-------|-------|----|------|
| Band48 | 20MHz | 16QAM | M | 1RB99  | 18.37 | 21.77 | 23 | PASS |
| Band48 | 20MHz | 16QAM | M | 100RB0 | 18.54 | 21.94 | 23 | PASS |
| Band48 | 20MHz | 16QAM | H | 1RB0   | 18.77 | 22.17 | 23 | PASS |
| Band48 | 20MHz | 16QAM | H | 1RB49  | 18.69 | 22.09 | 23 | PASS |
| Band48 | 20MHz | 16QAM | H | 1RB99  | 18.45 | 21.85 | 23 | PASS |
| Band48 | 20MHz | 16QAM | H | 100RB0 | 18.48 | 21.88 | 23 | PASS |
| Band48 | 20MHz | 64QAM | L | 1RB0   | 19.13 | 22.53 | 23 | PASS |
| Band48 | 20MHz | 64QAM | L | 1RB49  | 18.84 | 22.24 | 23 | PASS |
| Band48 | 20MHz | 64QAM | L | 1RB99  | 18.62 | 22.02 | 23 | PASS |
| Band48 | 20MHz | 64QAM | L | 100RB0 | 18.67 | 22.07 | 23 | PASS |
| Band48 | 20MHz | 64QAM | M | 1RB0   | 19.01 | 22.41 | 23 | PASS |
| Band48 | 20MHz | 64QAM | M | 1RB49  | 18.78 | 22.18 | 23 | PASS |
| Band48 | 20MHz | 64QAM | M | 1RB99  | 18.47 | 21.87 | 23 | PASS |
| Band48 | 20MHz | 64QAM | M | 100RB0 | 18.58 | 21.98 | 23 | PASS |
| Band48 | 20MHz | 64QAM | H | 1RB0   | 18.82 | 22.22 | 23 | PASS |
| Band48 | 20MHz | 64QAM | H | 1RB49  | 18.68 | 22.08 | 23 | PASS |
| Band48 | 20MHz | 64QAM | H | 1RB99  | 18.42 | 21.82 | 23 | PASS |
| Band48 | 20MHz | 64QAM | H | 100RB0 | 18.5  | 21.9  | 23 | PASS |

## 2. Frequency Stability

### 2.4 B48\_20MHz

#### 2.4.1 Test Result

| Band: 48 / Bandwidth: 20MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 3560            | 100           | 0      | 20         | 3.27          | -2.262           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -4.051           | -0.0011               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | 0.401            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | 0.657            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -3.775           | -0.0011               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | 0.186            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -2.069           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | 0.736            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -2.171           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -3.532           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -0.755           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             | 3625            | 100           | 0      | 20         | 3.27          | 3.855            | 0.0011                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 4.611            | 0.0013                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | 0.709            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -0.651           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | 0.412            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | 3.928            | 0.0011                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -0.449           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | 3.389            | 0.0009                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | 0.357            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -0.188           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | 3.525            | 0.0010                | -2.5 to 2.5 | Pass    |
|                             | 3690            | 100           | 0      | 20         | 3.27          | -0.888           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -2.331           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | 2.725            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | 1.355            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | 1.443            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | 3.570            | 0.0010                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | 0.190            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | 0.965            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | 0.730            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | 0.533            | 0.0001                | -2.5 to 2.5 | Pass    |
| 16QAM                       | 3560            | 100           | 0      | 20         | 3.27          | 1.786            | 0.0005                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -3.012           | -0.0008               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -1.990           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -2.959           | -0.0008               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -2.035           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -4.190           | -0.0012               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | 0.962            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -2.475           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -0.210           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | 1.395            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -2.091           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             | 3625            | 100           | 0      | 20         | 3.27          | 1.910            | 0.0005                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 4.187            | 0.0012                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | 0.678            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | 3.640            | 0.0010                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | 3.851            | 0.0011                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | 1.595            | 0.0004                | -2.5 to 2.5 | Pass    |



|       |      |     |   |     |      |        |         |             |      |
|-------|------|-----|---|-----|------|--------|---------|-------------|------|
|       |      |     |   | 0   | 3.85 | 1.229  | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 3.85 | 2.928  | 0.0008  | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 3.85 | 2.990  | 0.0008  | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 3.85 | 4.253  | 0.0012  | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 3.85 | 4.262  | 0.0012  | -2.5 to 2.5 | Pass |
|       | 3690 | 100 | 0 | 20  | 3.27 | 1.299  | 0.0004  | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 3.85 | 1.628  | 0.0004  | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.43 | 2.884  | 0.0008  | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 3.85 | -2.251 | -0.0006 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 3.85 | 1.436  | 0.0004  | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 3.85 | 0.729  | 0.0002  | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 3.85 | 1.486  | 0.0004  | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 3.85 | 1.989  | 0.0005  | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 3.85 | -1.537 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 3.85 | 0.831  | 0.0002  | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 3.85 | -0.822 | -0.0002 | -2.5 to 2.5 | Pass |
| 64QAM | 3560 | 100 | 0 | 20  | 3.27 | 1.622  | 0.0005  | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 3.85 | -2.291 | -0.0006 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.43 | -2.359 | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 3.85 | -2.411 | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 3.85 | 1.040  | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 3.85 | -1.754 | -0.0005 | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 3.85 | -2.284 | -0.0006 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 3.85 | -0.051 | 0.0000  | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 3.85 | -1.598 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 3.85 | 0.959  | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 3.85 | -3.002 | -0.0008 | -2.5 to 2.5 | Pass |
|       | 3625 | 100 | 0 | 20  | 3.27 | 1.872  | 0.0005  | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 3.85 | 0.066  | 0.0000  | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.43 | 4.065  | 0.0011  | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 3.85 | 1.248  | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 3.85 | 3.302  | 0.0009  | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 3.85 | -1.299 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 3.85 | 4.743  | 0.0013  | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 3.85 | 0.445  | 0.0001  | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 3.85 | 4.743  | 0.0013  | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 3.85 | 3.741  | 0.0010  | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 3.85 | 1.899  | 0.0005  | -2.5 to 2.5 | Pass |
|       | 3690 | 100 | 0 | 20  | 3.27 | 2.021  | 0.0005  | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 3.85 | 0.635  | 0.0002  | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.43 | -2.487 | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 3.85 | -1.356 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 3.85 | -2.549 | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 3.85 | 1.199  | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 3.85 | 2.121  | 0.0006  | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 3.85 | 1.299  | 0.0004  | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 3.85 | -2.962 | -0.0008 | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 3.85 | -1.567 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 3.85 | -0.115 | 0.0000  | -2.5 to 2.5 | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Band48\_OBW

##### 3.1.1 Test Result

| Band: 48 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 5               | QPSK       | 3552.5          | 25            | 0      | 4.569                        | /     | Pass    |
|                 |            | 3625            | 25            | 0      | 4.568                        | /     | Pass    |
|                 |            | 3697.5          | 25            | 0      | 4.566                        | /     | Pass    |
|                 | 16QAM      | 3552.5          | 25            | 0      | 4.567                        | /     | Pass    |
|                 |            | 3625            | 25            | 0      | 4.559                        | /     | Pass    |
|                 |            | 3697.5          | 25            | 0      | 4.558                        | /     | Pass    |
|                 | 64QAM      | 3552.5          | 25            | 0      | 4.574                        | /     | Pass    |
|                 |            | 3625            | 25            | 0      | 4.538                        | /     | Pass    |
|                 |            | 3697.5          | 25            | 0      | 4.549                        | /     | Pass    |
| 10              | QPSK       | 3555            | 50            | 0      | 9.058                        | /     | Pass    |
|                 |            | 3625            | 50            | 0      | 9.042                        | /     | Pass    |
|                 |            | 3695            | 50            | 0      | 9.078                        | /     | Pass    |
|                 | 16QAM      | 3555            | 50            | 0      | 9.082                        | /     | Pass    |
|                 |            | 3625            | 50            | 0      | 9.072                        | /     | Pass    |
|                 |            | 3695            | 50            | 0      | 9.078                        | /     | Pass    |
|                 | 64QAM      | 3555            | 50            | 0      | 9.051                        | /     | Pass    |
|                 |            | 3625            | 50            | 0      | 9.033                        | /     | Pass    |
|                 |            | 3695            | 50            | 0      | 9.041                        | /     | Pass    |
| 15              | QPSK       | 3557.5          | 75            | 0      | 13.618                       | /     | Pass    |
|                 |            | 3625            | 75            | 0      | 13.640                       | /     | Pass    |
|                 |            | 3692.5          | 75            | 0      | 13.595                       | /     | Pass    |
|                 | 16QAM      | 3557.5          | 75            | 0      | 13.637                       | /     | Pass    |
|                 |            | 3625            | 75            | 0      | 13.546                       | /     | Pass    |
|                 |            | 3692.5          | 75            | 0      | 13.611                       | /     | Pass    |
|                 | 64QAM      | 3557.5          | 75            | 0      | 13.603                       | /     | Pass    |
|                 |            | 3625            | 75            | 0      | 13.567                       | /     | Pass    |
|                 |            | 3692.5          | 75            | 0      | 13.561                       | /     | Pass    |
| 20              | QPSK       | 3560            | 100           | 0      | 18.142                       | /     | Pass    |
|                 |            | 3625            | 100           | 0      | 18.057                       | /     | Pass    |
|                 |            | 3690            | 100           | 0      | 18.117                       | /     | Pass    |
|                 | 16QAM      | 3560            | 100           | 0      | 18.161                       | /     | Pass    |
|                 |            | 3625            | 100           | 0      | 18.041                       | /     | Pass    |
|                 |            | 3690            | 100           | 0      | 18.045                       | /     | Pass    |
|                 | 64QAM      | 3560            | 100           | 0      | 18.129                       | /     | Pass    |
|                 |            | 3625            | 100           | 0      | 18.023                       | /     | Pass    |
|                 |            | 3690            | 100           | 0      | 18.083                       | /     | Pass    |

#### 3.2 Band48\_XDB

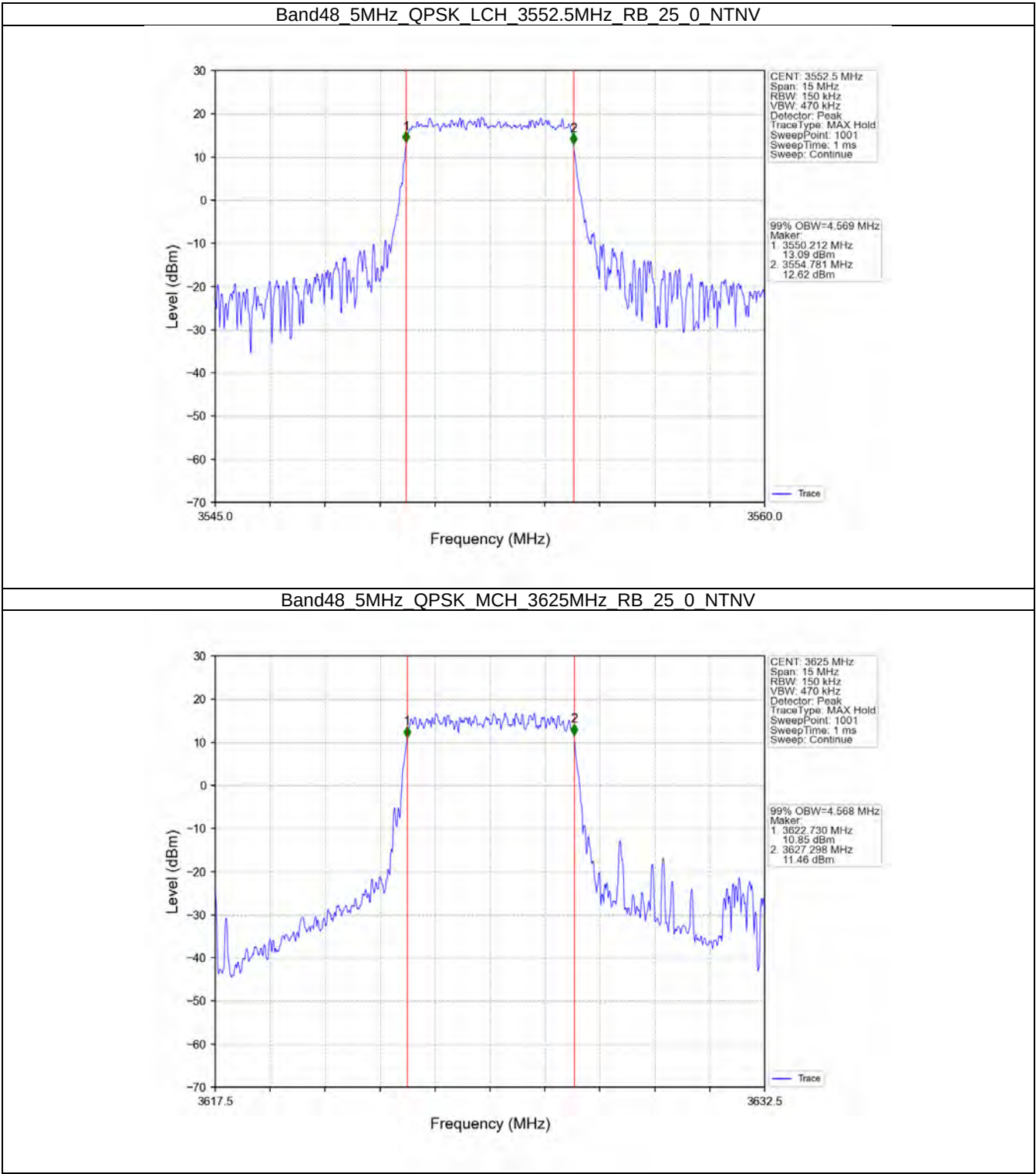
##### 3.2.1 Test Result

| Band: 48 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 5               | QPSK       | 3552.5          | 25            | 0      | 5.256                | /     | Pass    |
|                 |            | 3625            | 25            | 0      | 5.172                | /     | Pass    |
|                 |            | 3697.5          | 25            | 0      | 5.090                | /     | Pass    |

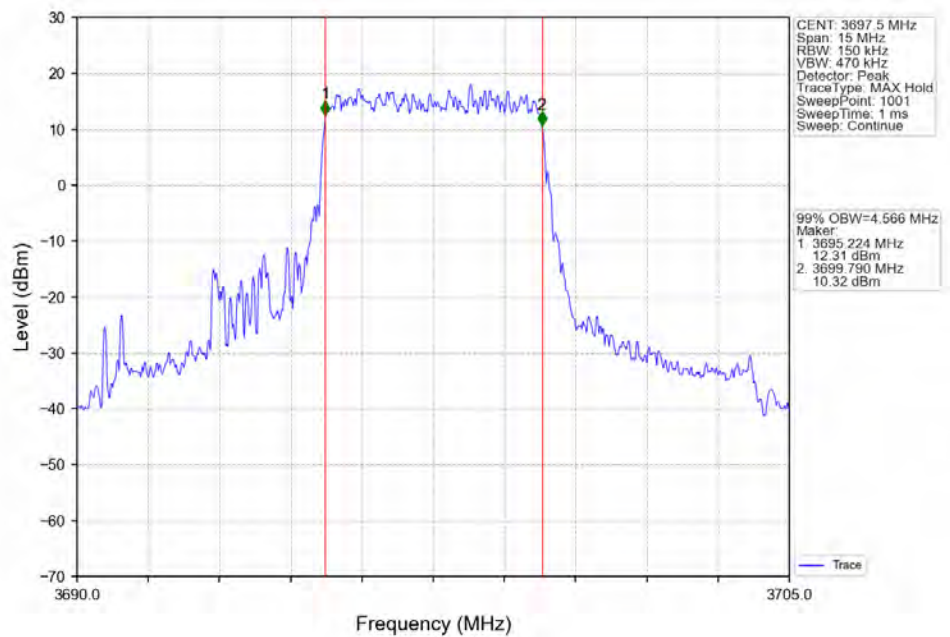
|    |       |        |     |   |        |   |      |
|----|-------|--------|-----|---|--------|---|------|
|    | 16QAM | 3552.5 | 25  | 0 | 5.452  | / | Pass |
|    |       | 3625   | 25  | 0 | 5.120  | / | Pass |
|    |       | 3697.5 | 25  | 0 | 5.100  | / | Pass |
|    | 64QAM | 3552.5 | 25  | 0 | 5.257  | / | Pass |
|    |       | 3625   | 25  | 0 | 5.449  | / | Pass |
|    |       | 3697.5 | 25  | 0 | 5.100  | / | Pass |
| 10 | QPSK  | 3555   | 50  | 0 | 10.182 | / | Pass |
|    |       | 3625   | 50  | 0 | 9.895  | / | Pass |
|    |       | 3695   | 50  | 0 | 11.427 | / | Pass |
|    | 16QAM | 3555   | 50  | 0 | 10.244 | / | Pass |
|    |       | 3625   | 50  | 0 | 10.052 | / | Pass |
|    |       | 3695   | 50  | 0 | 10.010 | / | Pass |
|    | 64QAM | 3555   | 50  | 0 | 10.862 | / | Pass |
|    |       | 3625   | 50  | 0 | 9.942  | / | Pass |
|    |       | 3695   | 50  | 0 | 10.013 | / | Pass |
| 15 | QPSK  | 3557.5 | 75  | 0 | 16.254 | / | Pass |
|    |       | 3625   | 75  | 0 | 14.904 | / | Pass |
|    |       | 3692.5 | 75  | 0 | 14.949 | / | Pass |
|    | 16QAM | 3557.5 | 75  | 0 | 15.563 | / | Pass |
|    |       | 3625   | 75  | 0 | 14.986 | / | Pass |
|    |       | 3692.5 | 75  | 0 | 15.229 | / | Pass |
|    | 64QAM | 3557.5 | 75  | 0 | 16.397 | / | Pass |
|    |       | 3625   | 75  | 0 | 14.906 | / | Pass |
|    |       | 3692.5 | 75  | 0 | 15.119 | / | Pass |
| 20 | QPSK  | 3560   | 100 | 0 | 20.167 | / | Pass |
|    |       | 3625   | 100 | 0 | 19.839 | / | Pass |
|    |       | 3690   | 100 | 0 | 19.851 | / | Pass |
|    | 16QAM | 3560   | 100 | 0 | 20.885 | / | Pass |
|    |       | 3625   | 100 | 0 | 19.777 | / | Pass |
|    |       | 3690   | 100 | 0 | 19.659 | / | Pass |
|    | 64QAM | 3560   | 100 | 0 | 20.034 | / | Pass |
|    |       | 3625   | 100 | 0 | 19.889 | / | Pass |
|    |       | 3690   | 100 | 0 | 19.957 | / | Pass |

3.1 Band48\_OBW

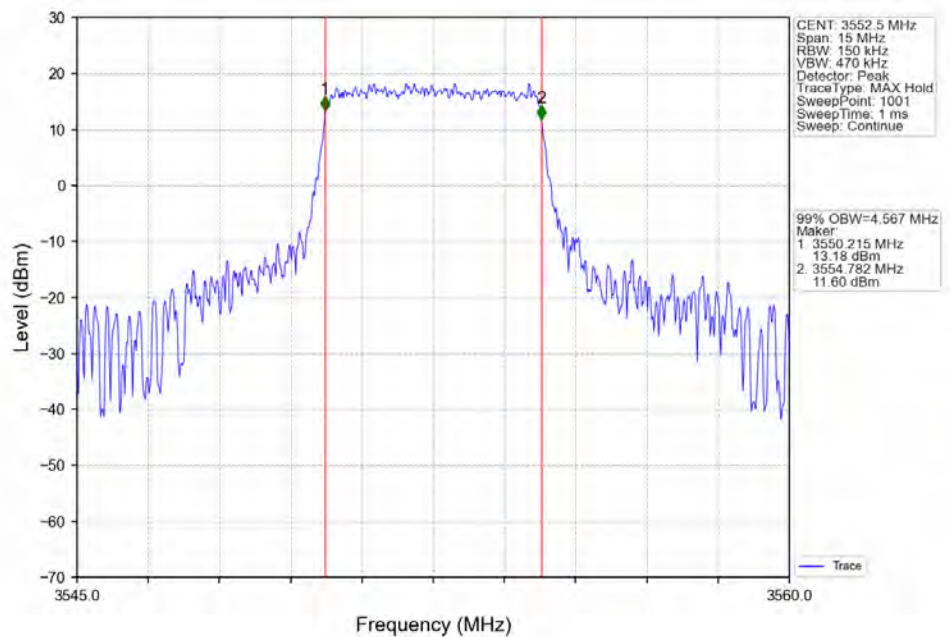
3.1.2 Test Graph



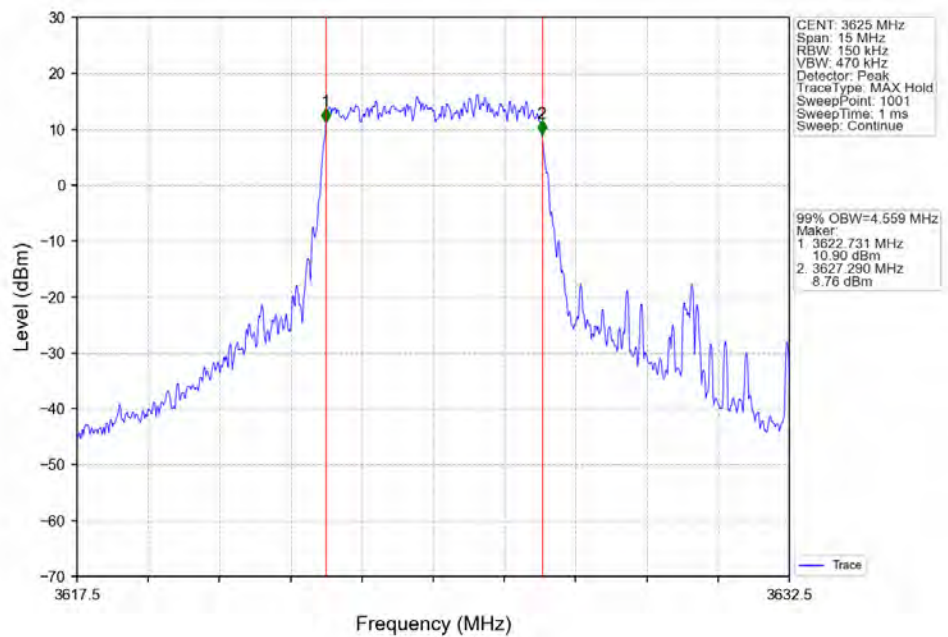
Band48 5MHz QPSK HCH 3697.5MHz RB 25 0 NTNV



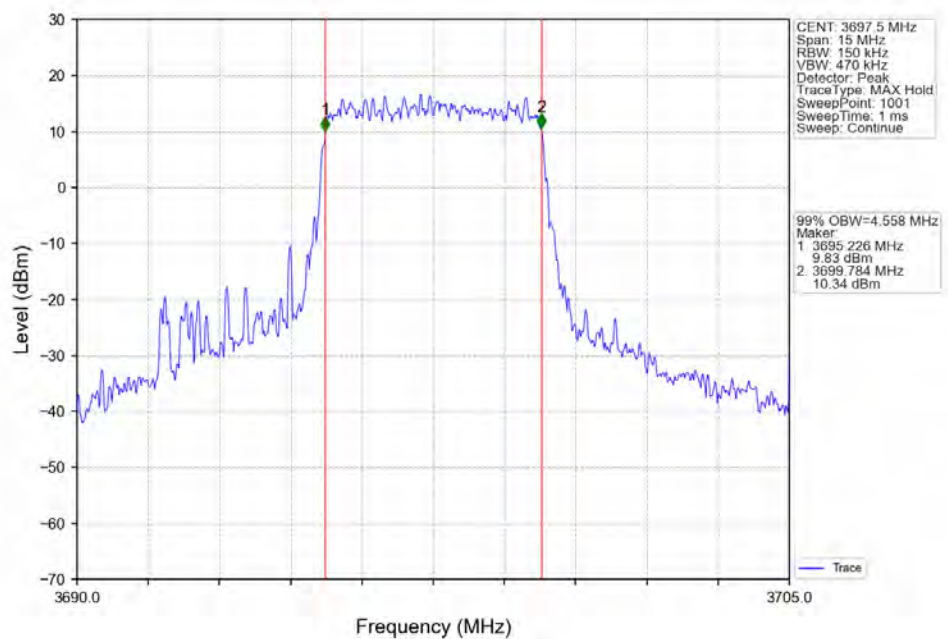
Band48 5MHz 16QAM LCH 3552.5MHz RB 25 0 NTNV



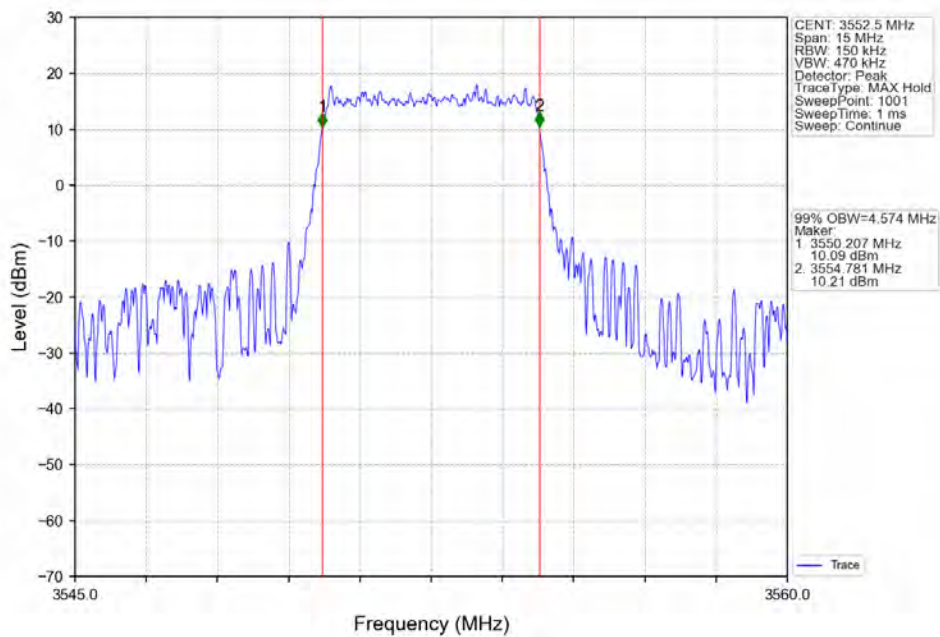
Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV



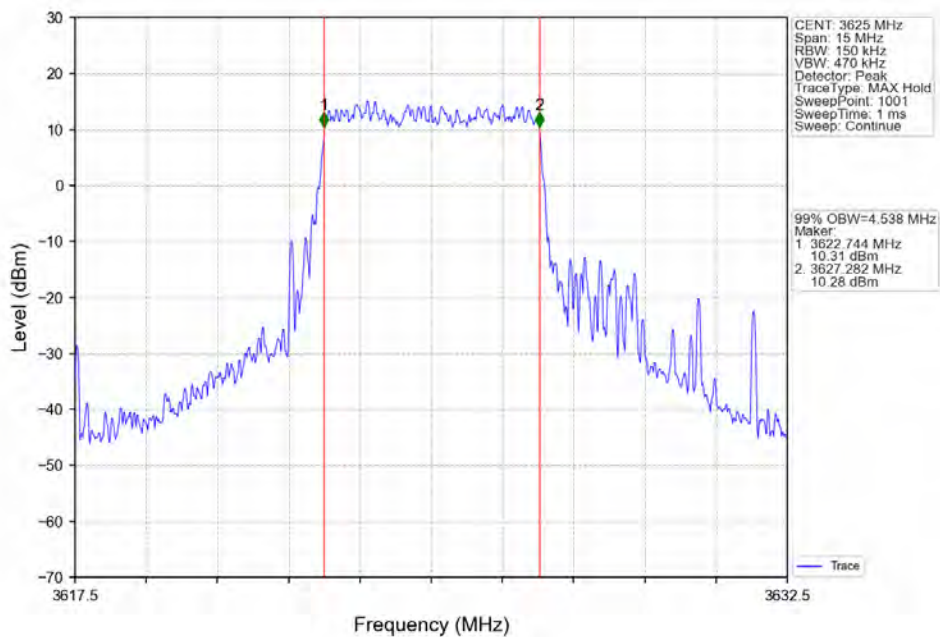
Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



Band48 5MHz 64QAM LCH 3552.5MHz RB 25 0 NTN

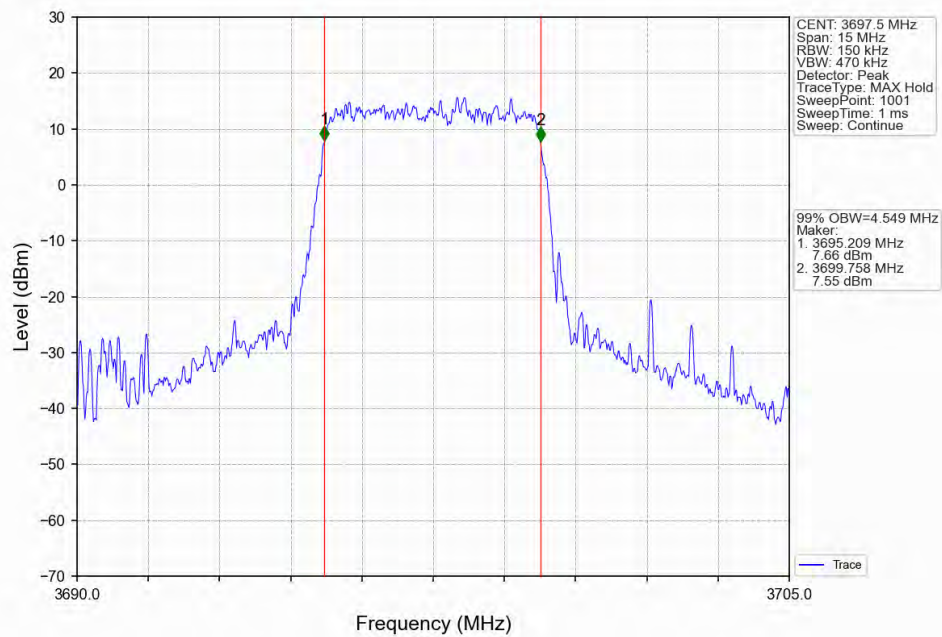


Band48 5MHz 64QAM MCH 3625MHz RB 25 0 NTN

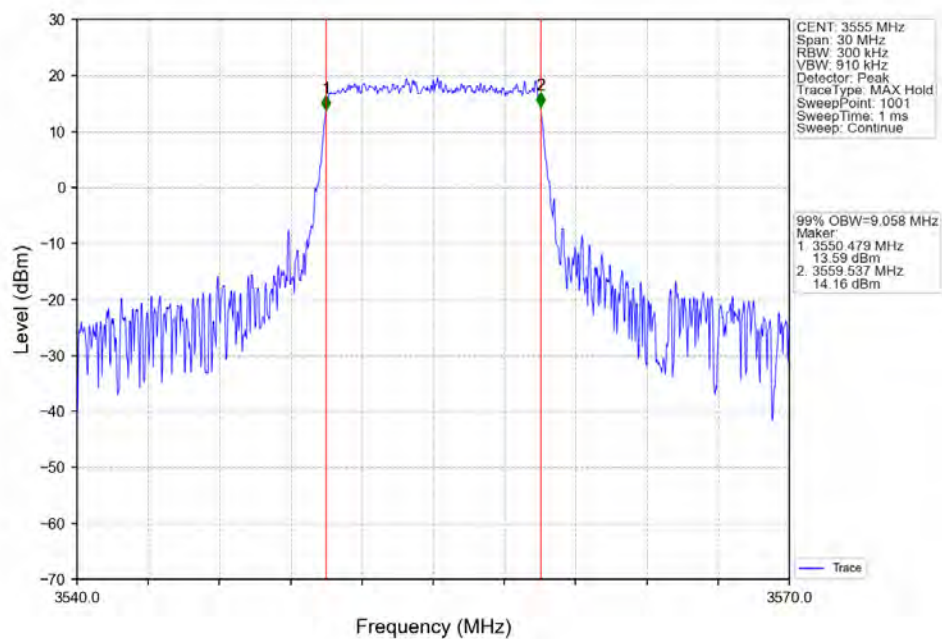




Band48 5MHz 64QAM HCH 3697.5MHz RB 25 0 NTN

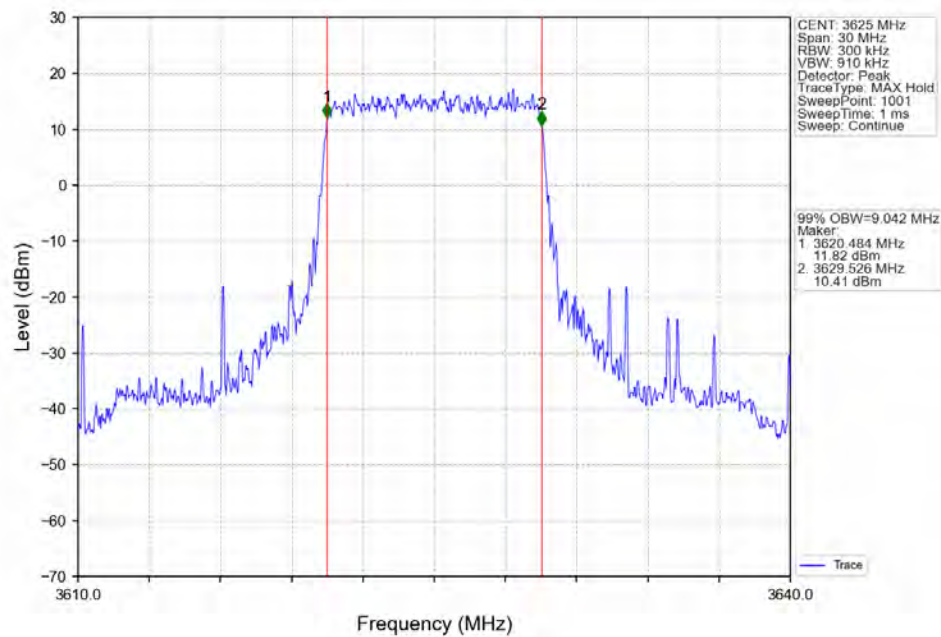


Band48 10MHz QPSK LCH 3555MHz RB 50 0 NTN

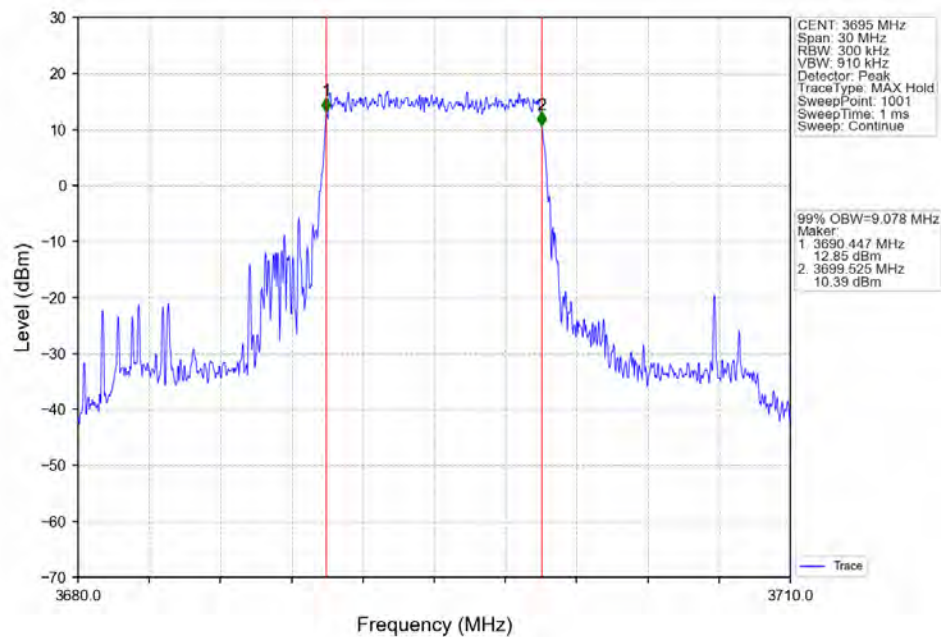




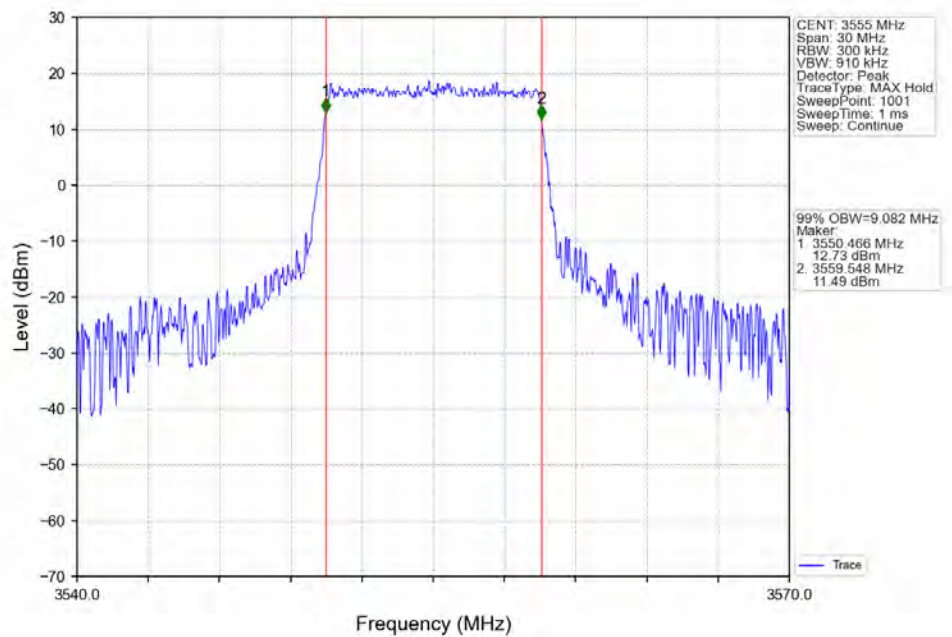
Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_50\_0\_NTNV



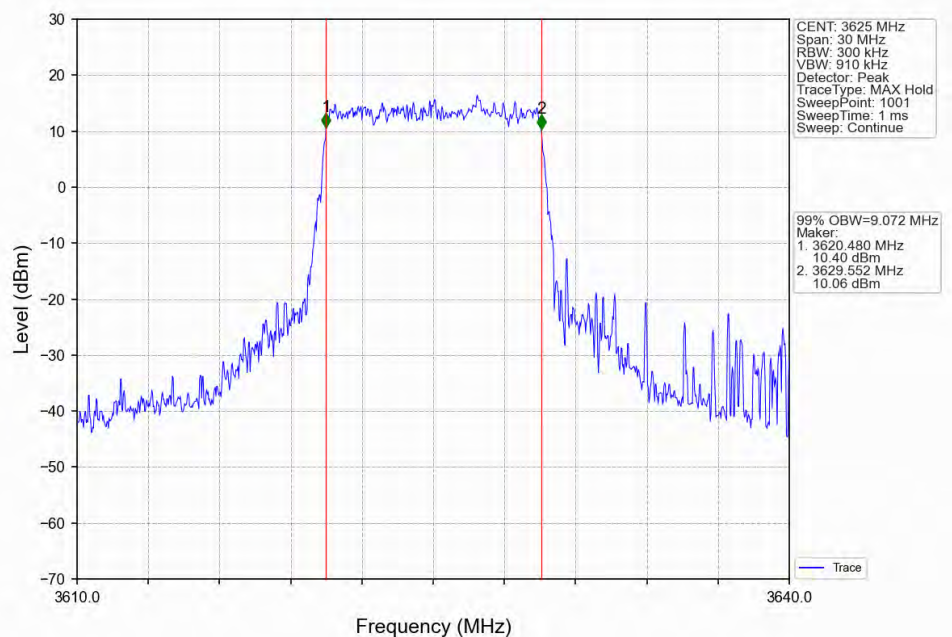
Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV



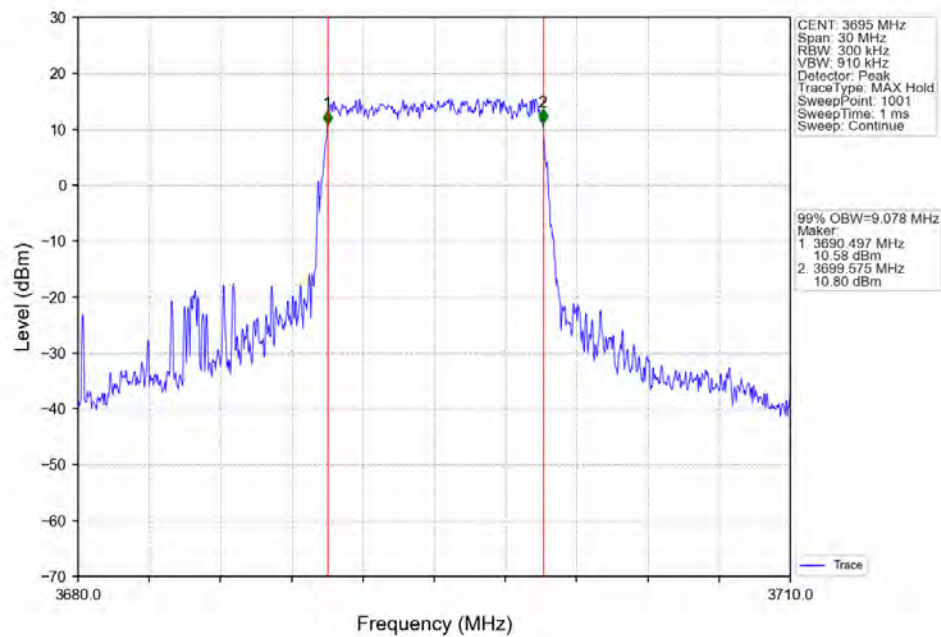
Band48 10MHz 16QAM LCH 3555MHz RB 50 0 NTNV



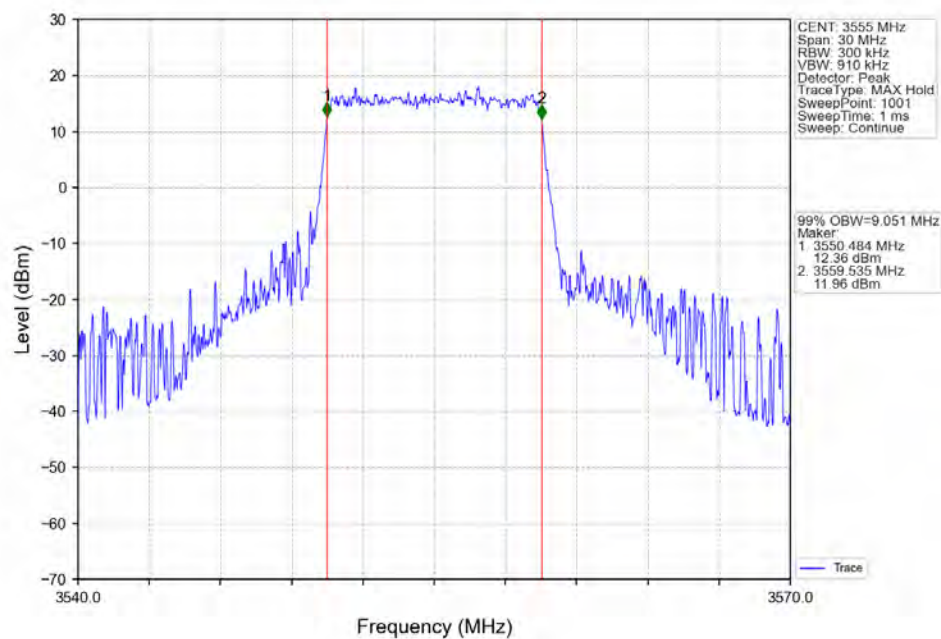
Band48 10MHz 16QAM MCH 3625MHz RB 50 0 NTNV

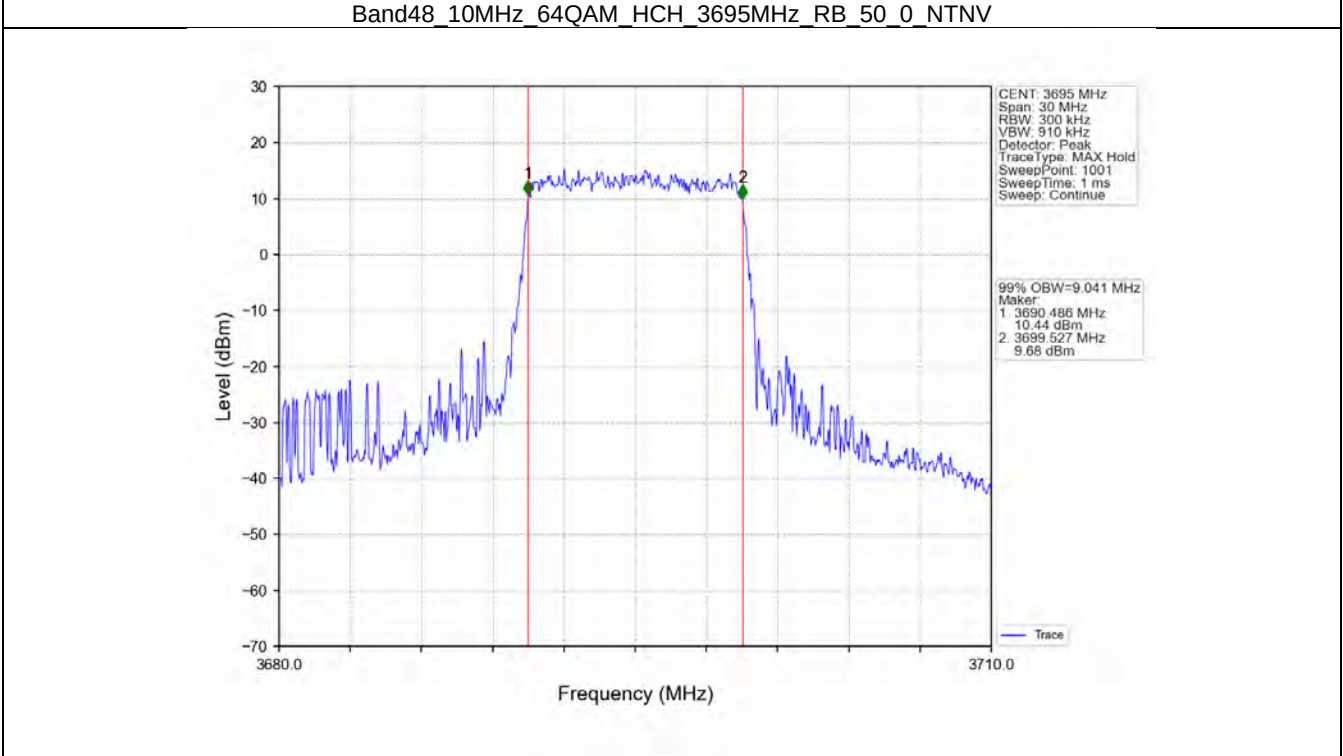
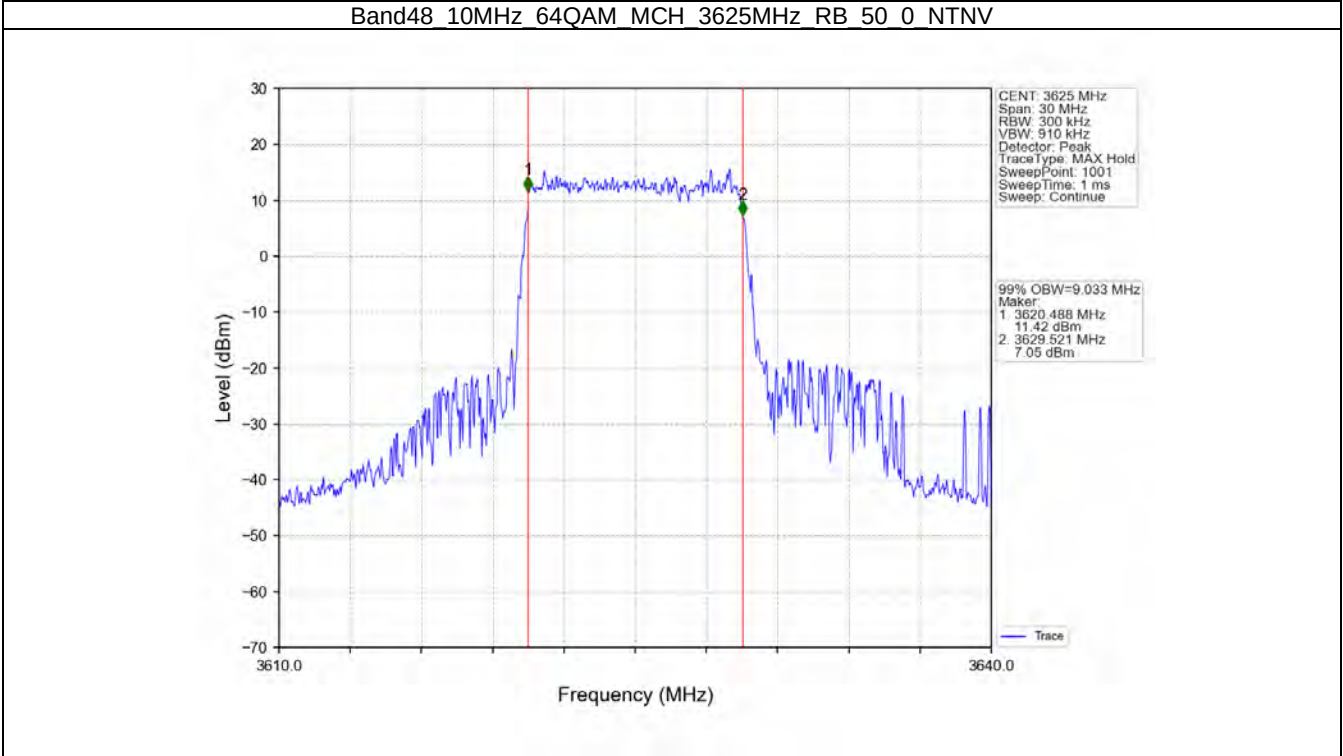


Band48 10MHz 16QAM HCH 3695MHz RB 50 0 NTNV

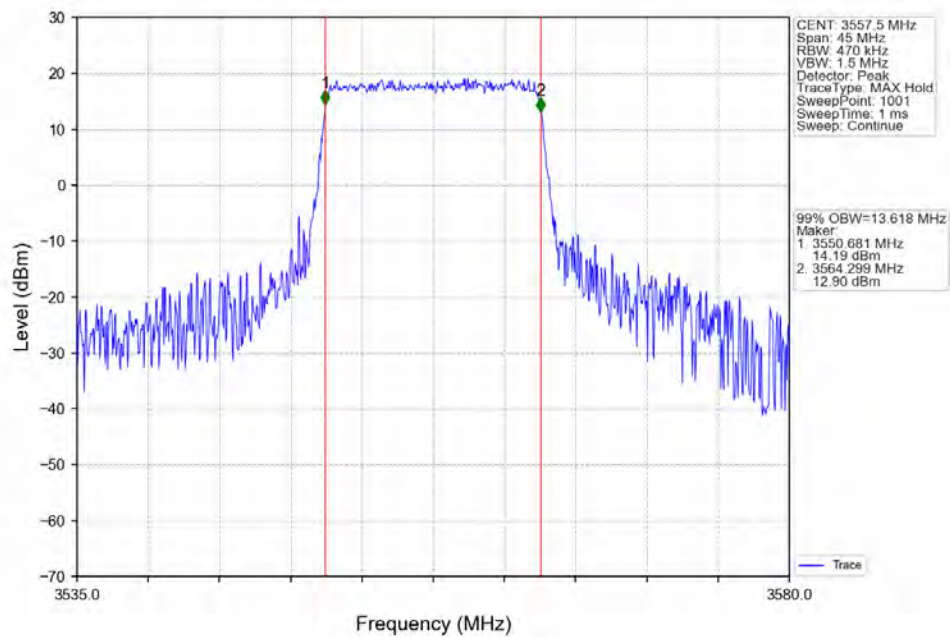


Band48 10MHz 64QAM LCH 3555MHz RB 50 0 NTNV

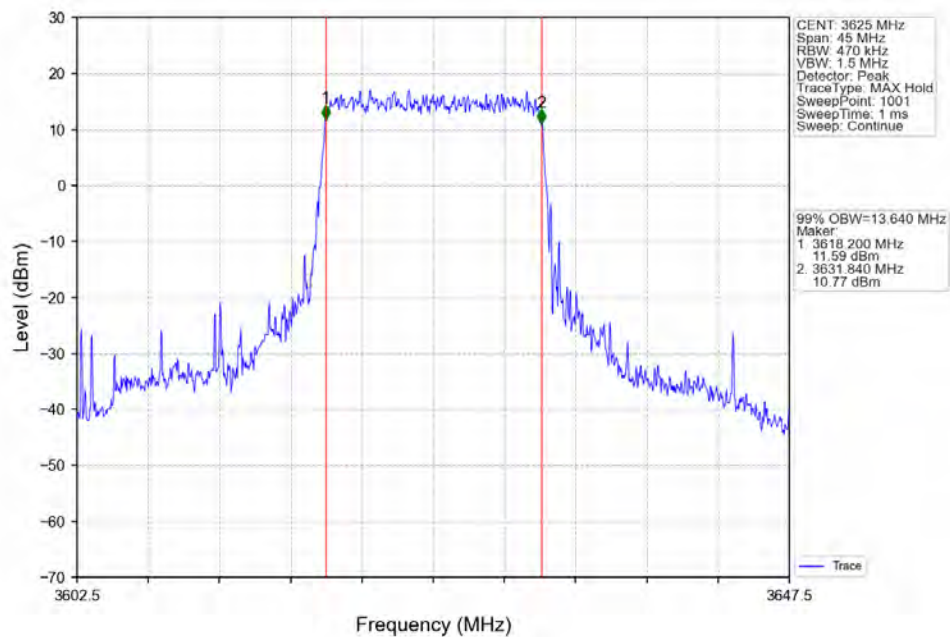




Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV

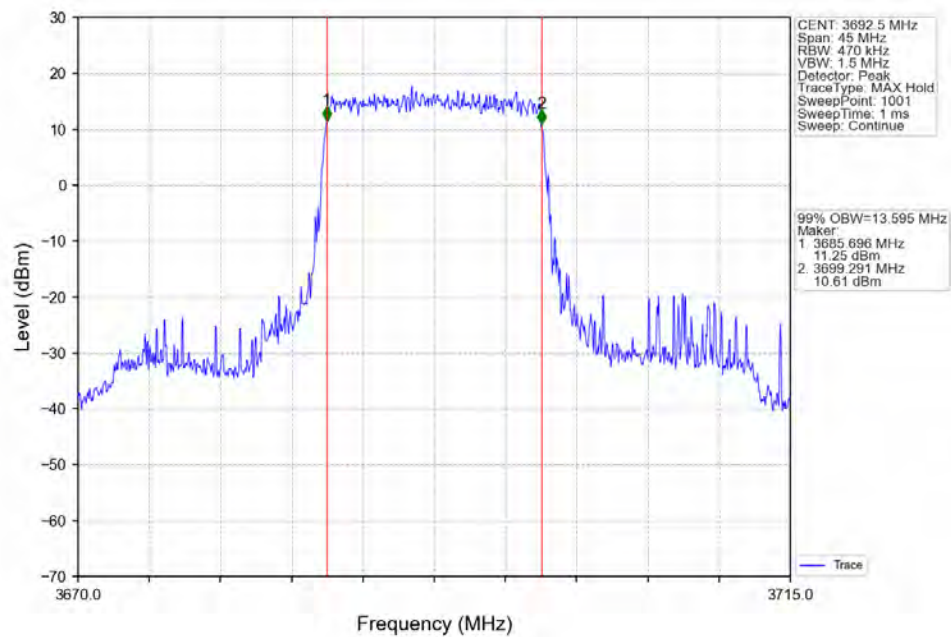


Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_75\_0\_NTNV

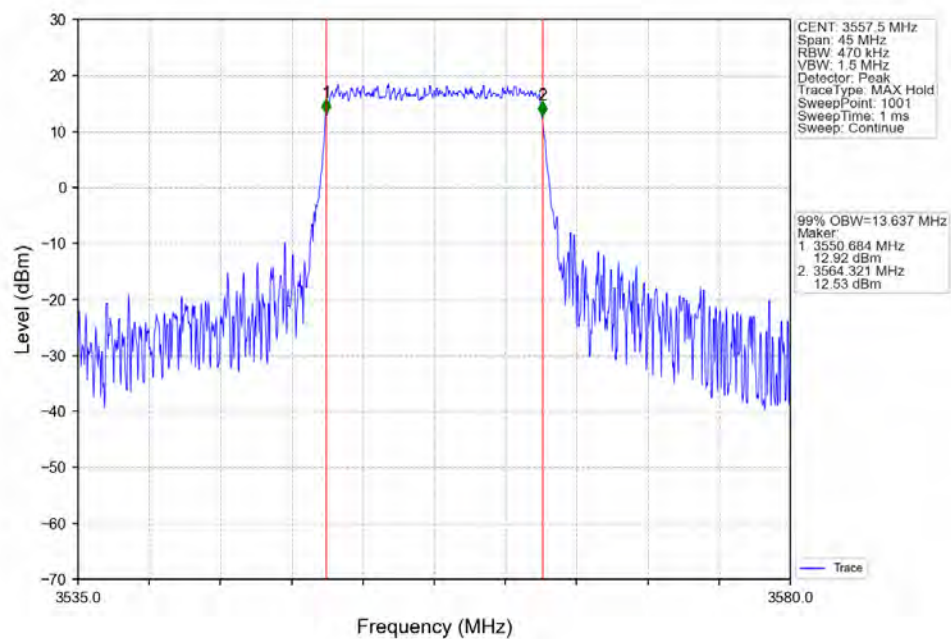




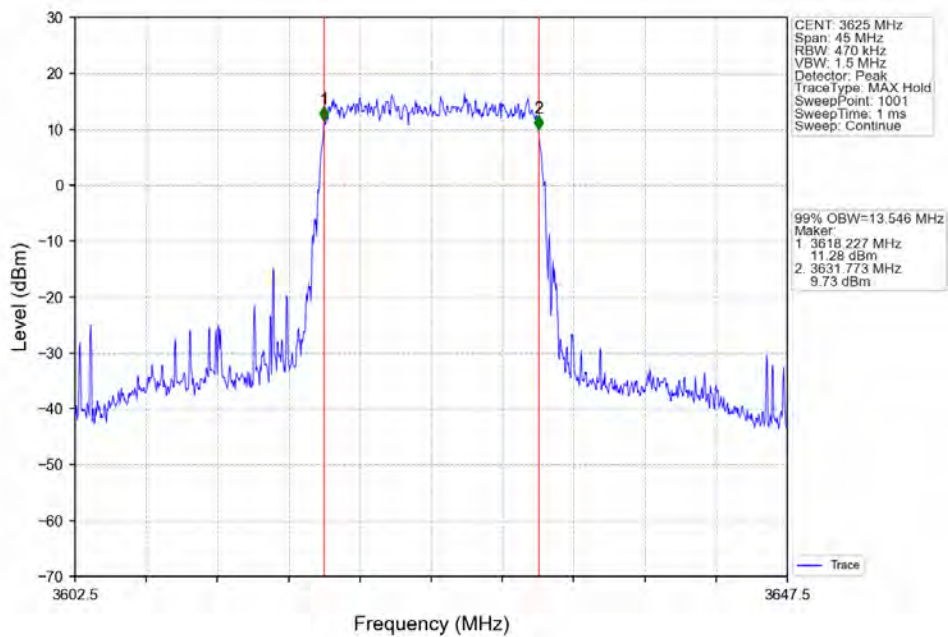
Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



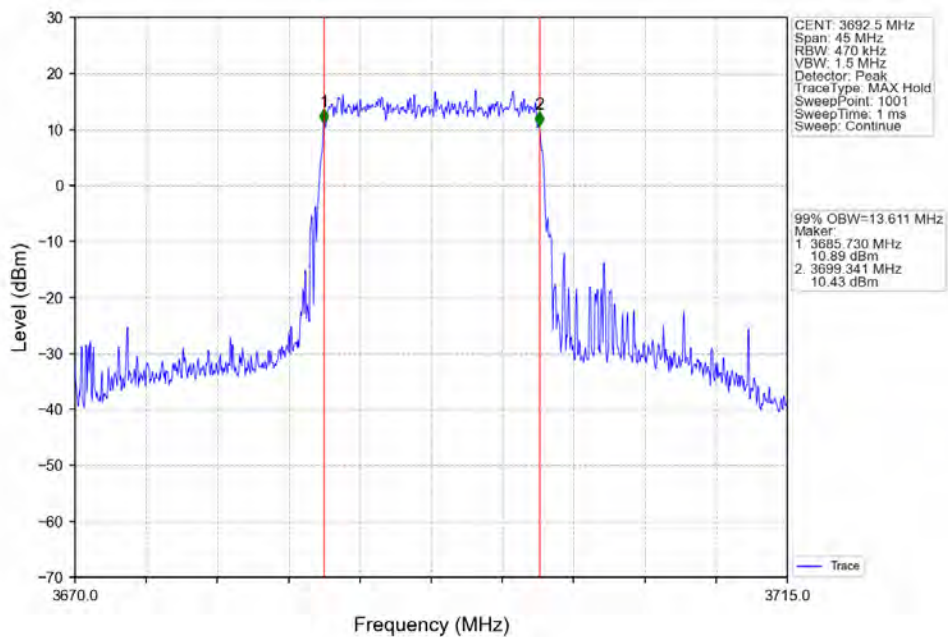
Band48\_15MHz\_16QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



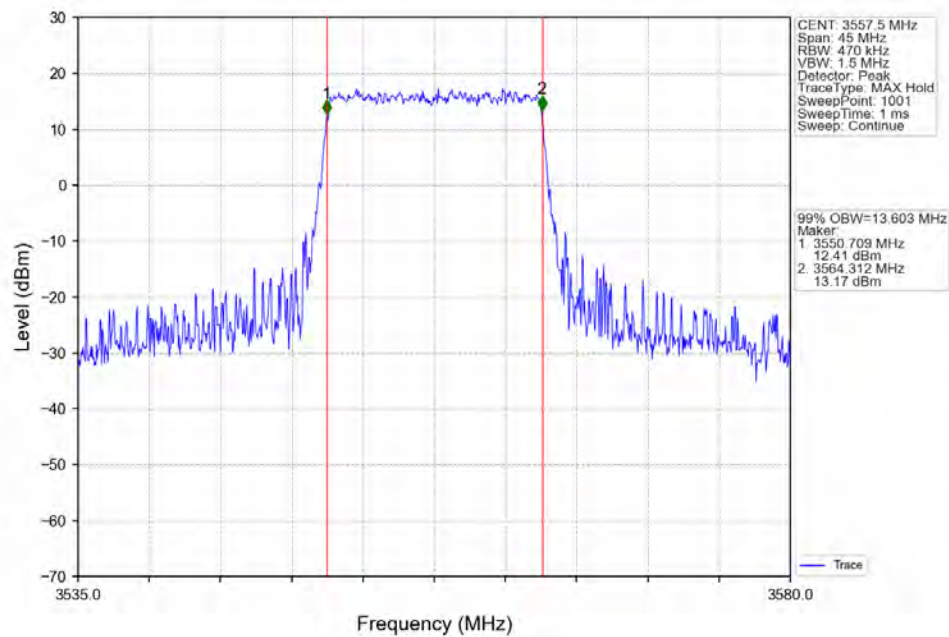
Band48\_15MHz\_16QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV



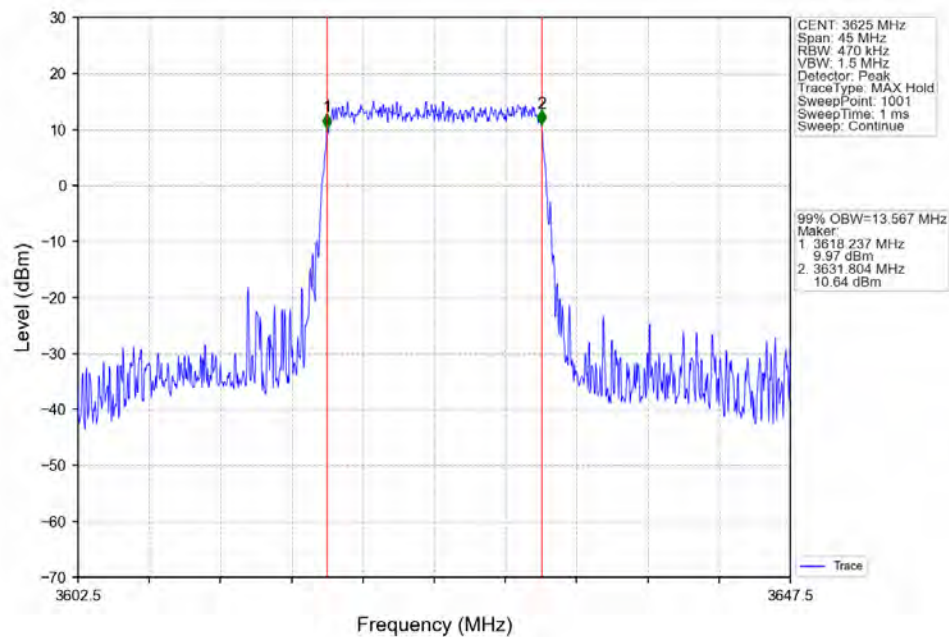
Band48\_15MHz\_16QAM\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



Band48\_15MHz\_64QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV

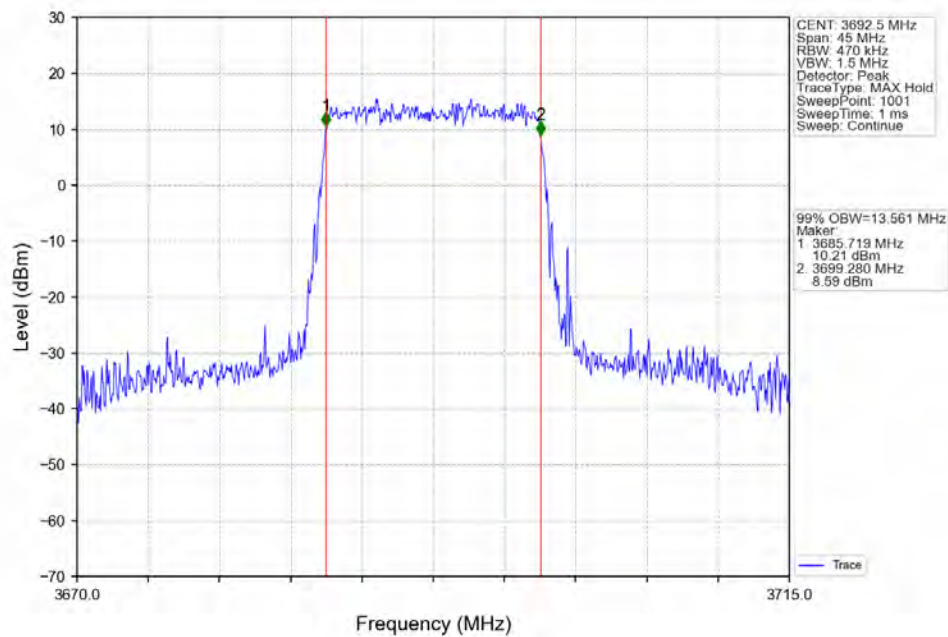


Band48\_15MHz\_64QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV

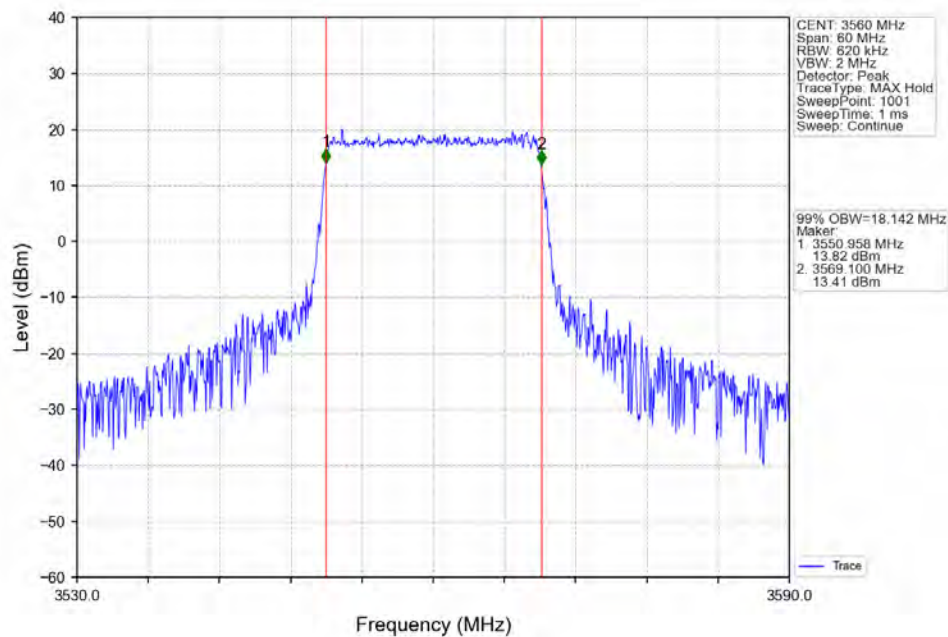


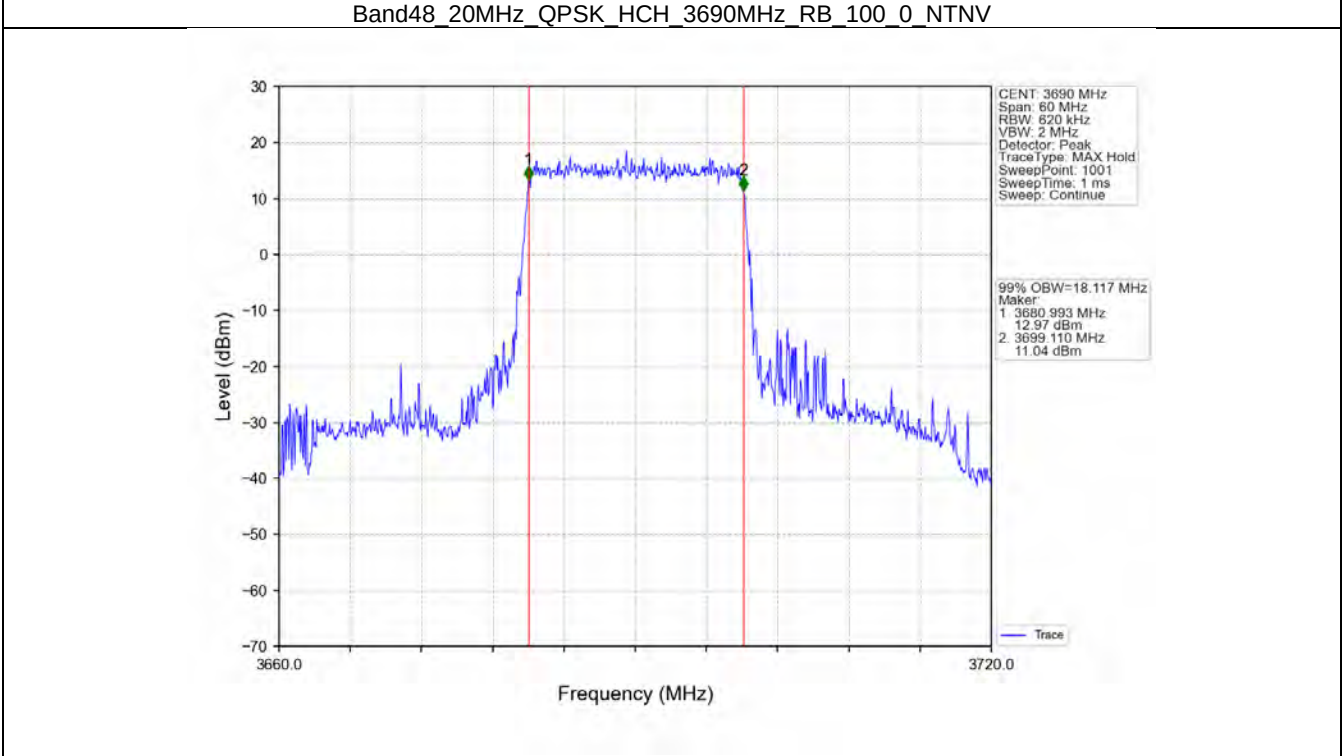
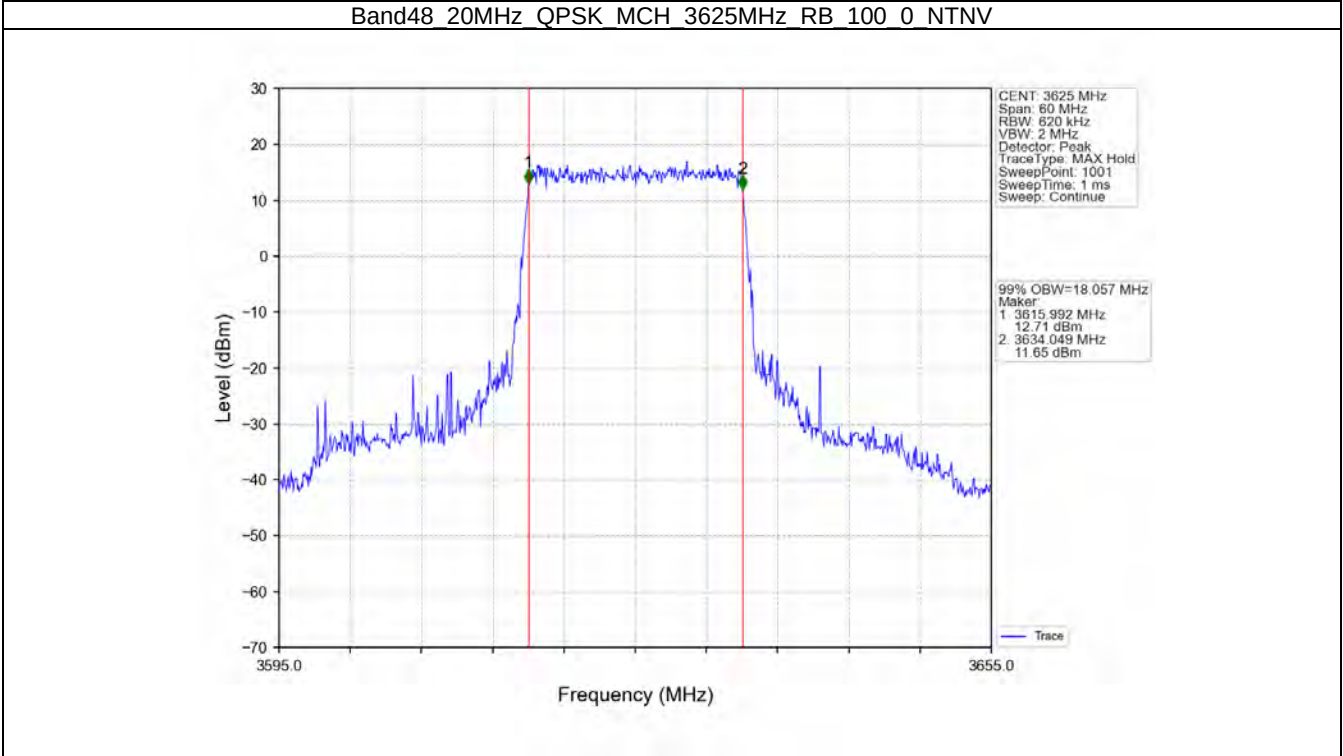


Band48\_15MHz\_64QAM\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV

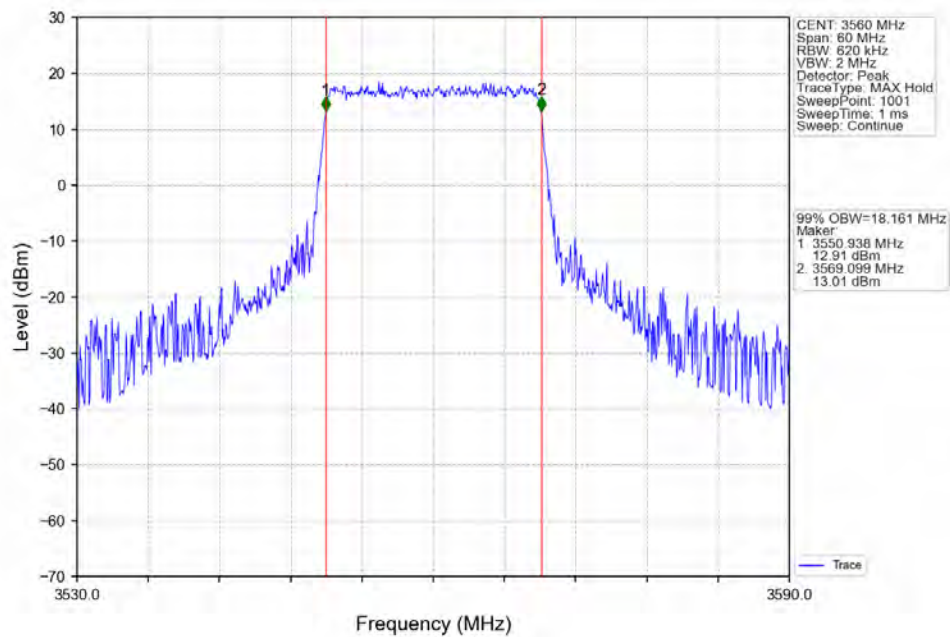


Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_100\_0\_NTNV

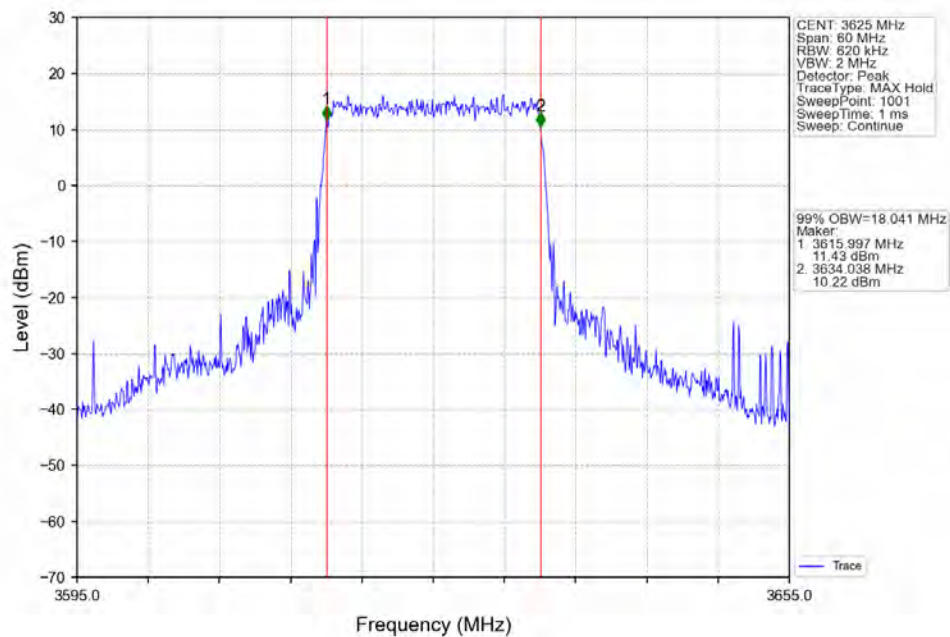




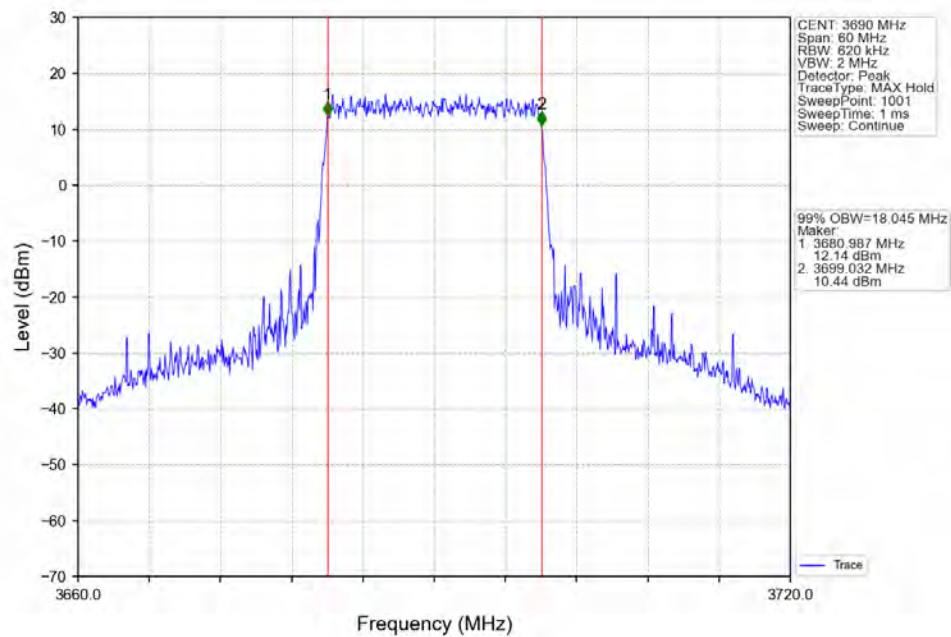
Band48 20MHz 16QAM LCH 3560MHz RB 100 0 NTN



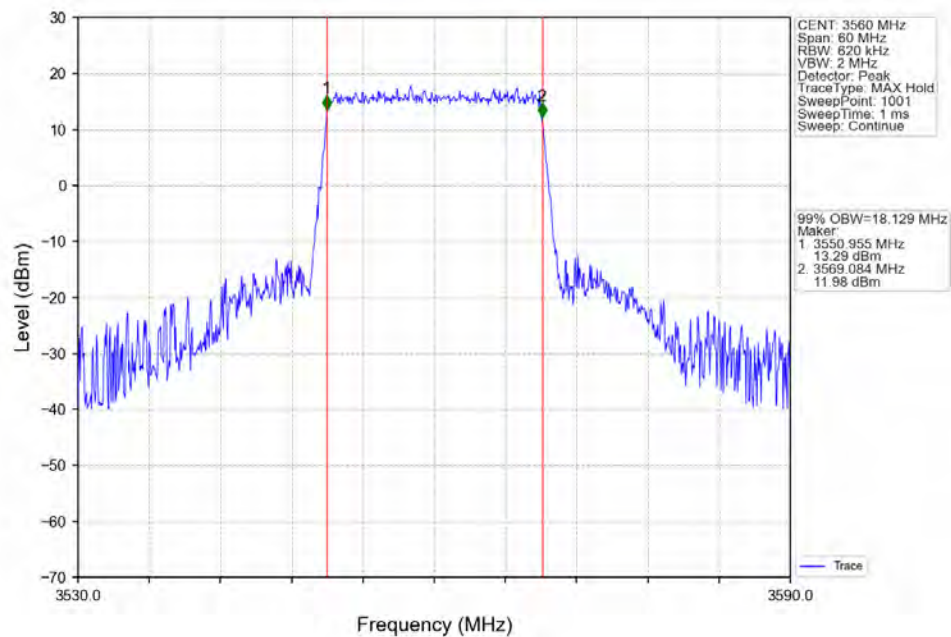
Band48 20MHz 16QAM MCH 3625MHz RB 100 0 NTN



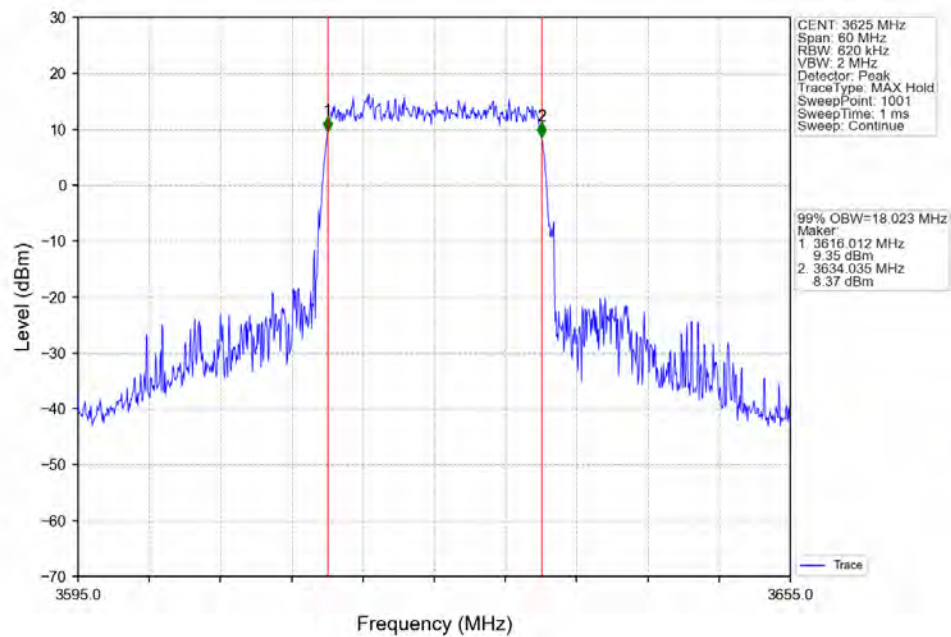
Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



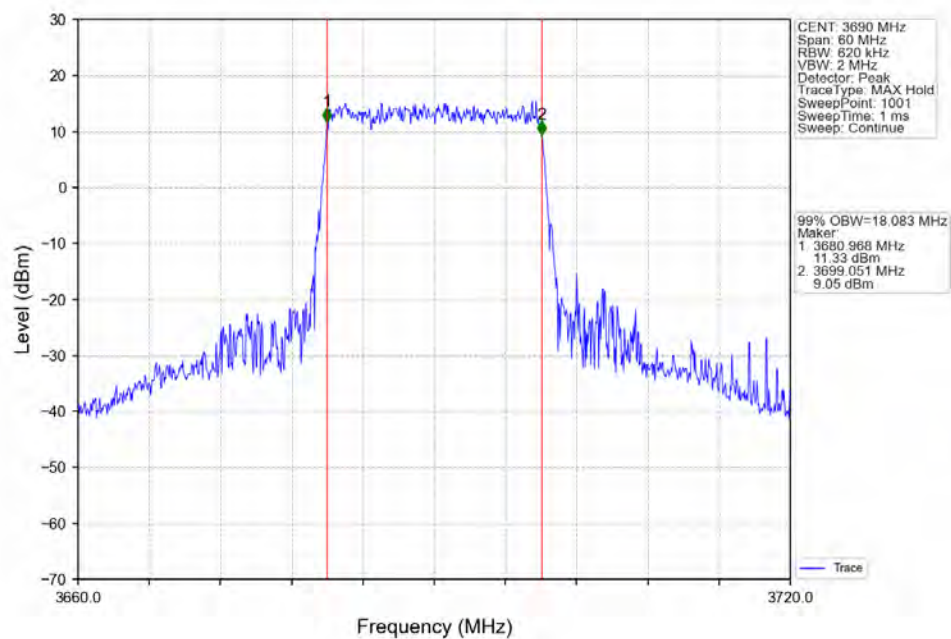
Band48\_20MHz\_64QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_64QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



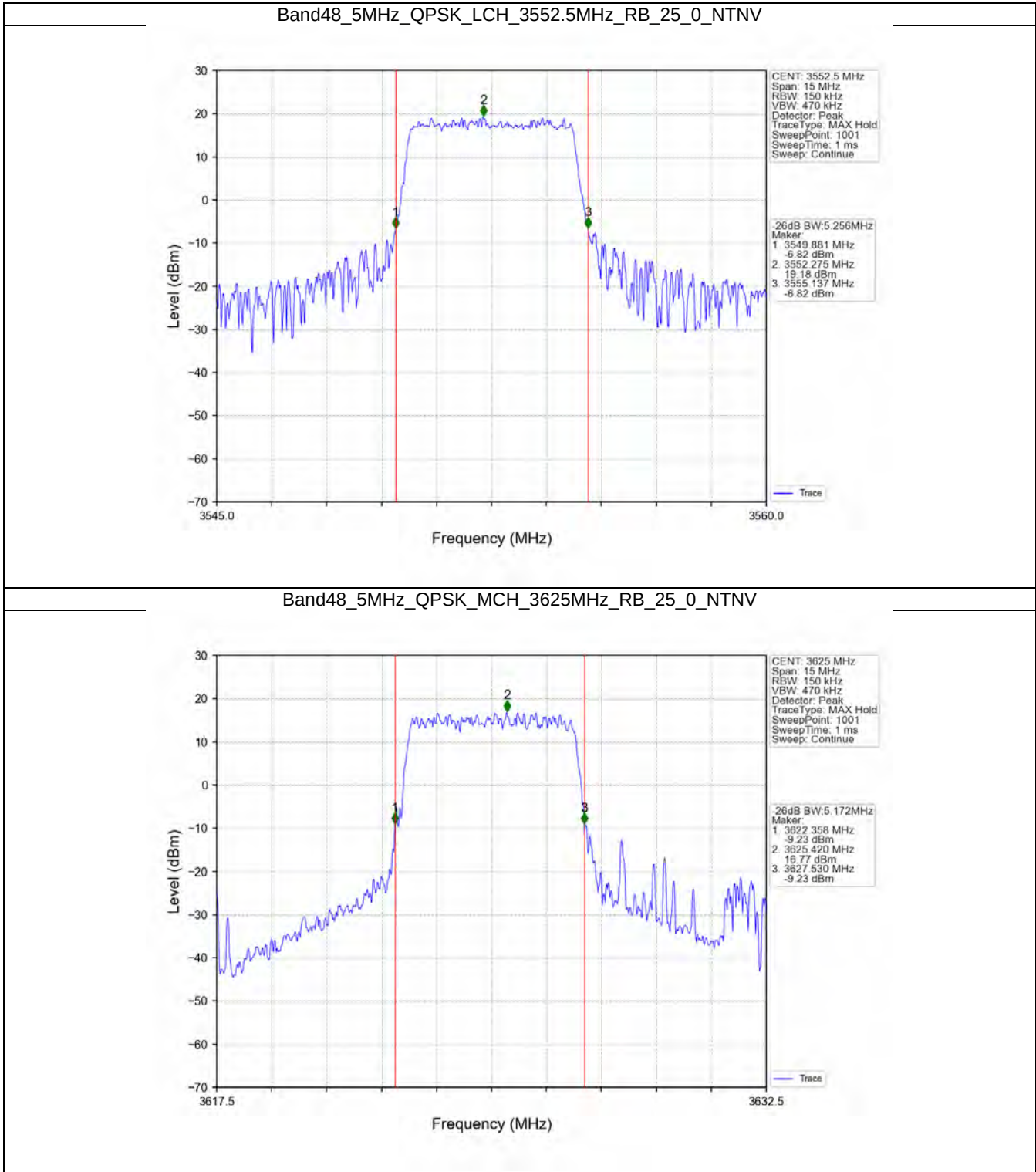
Band48\_20MHz\_64QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



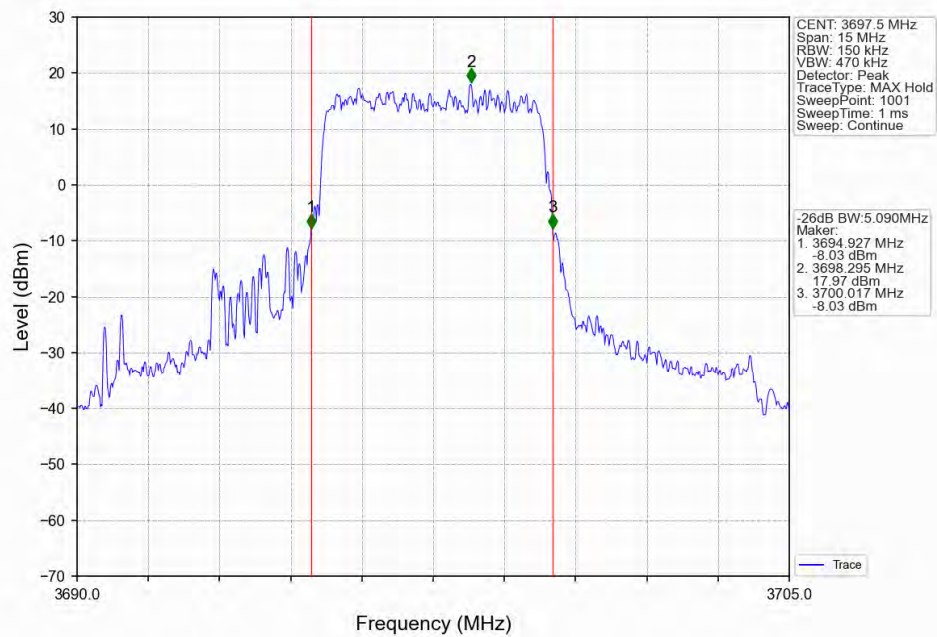


3.2 Band48\_XDB

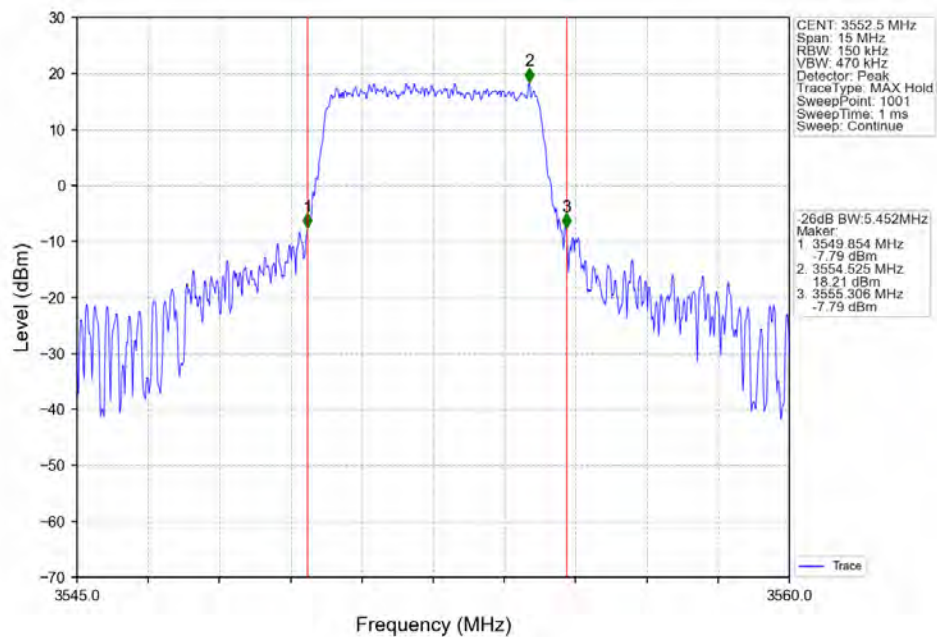
3.2.2 Test Graph



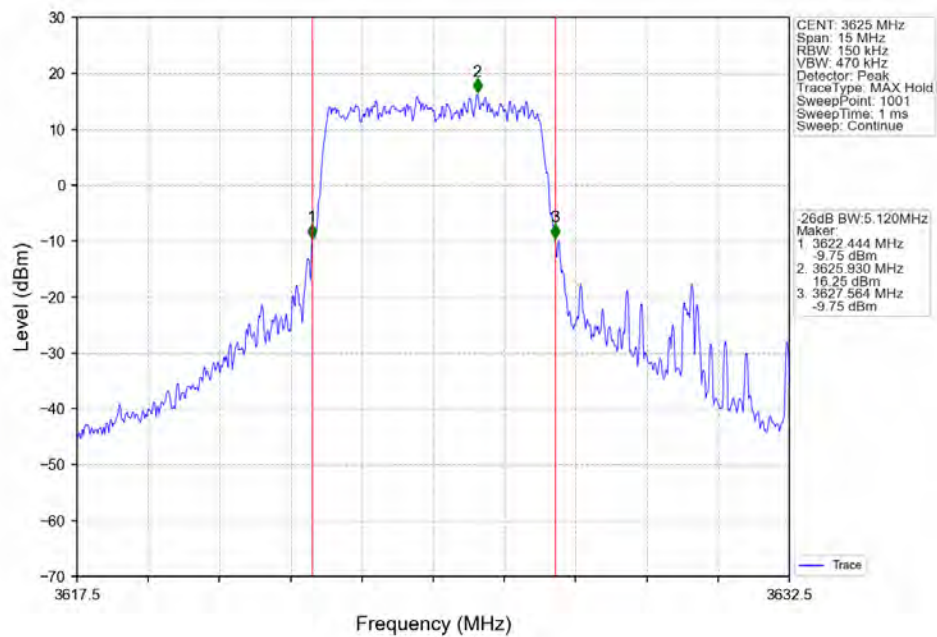
Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



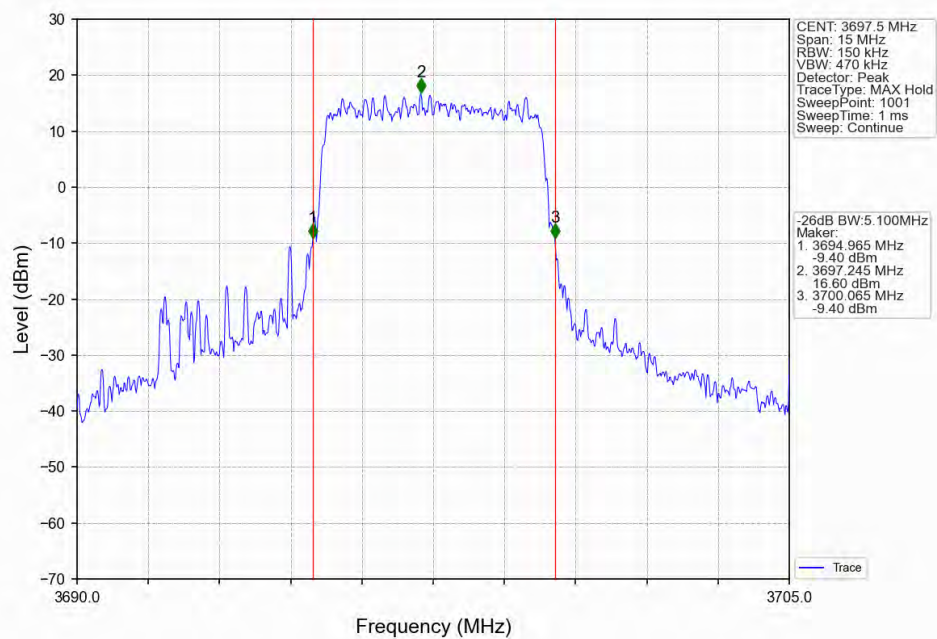
Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



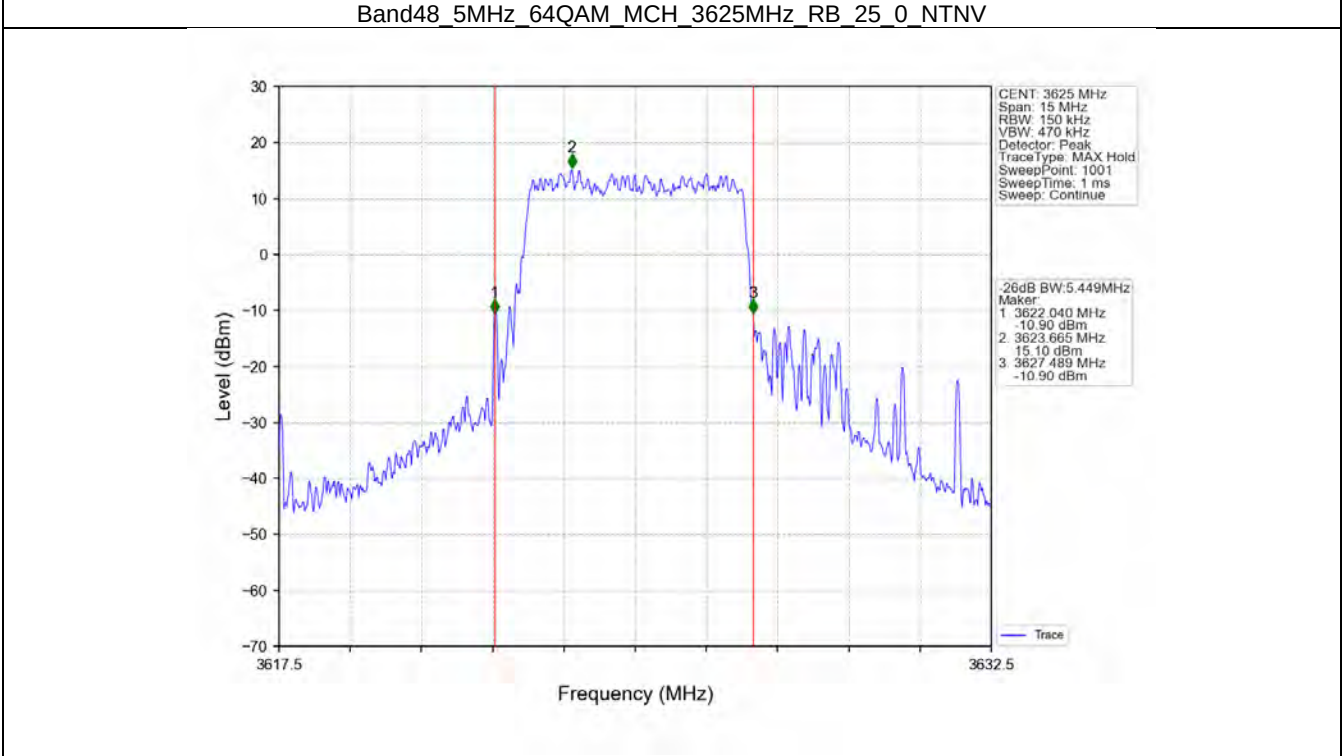
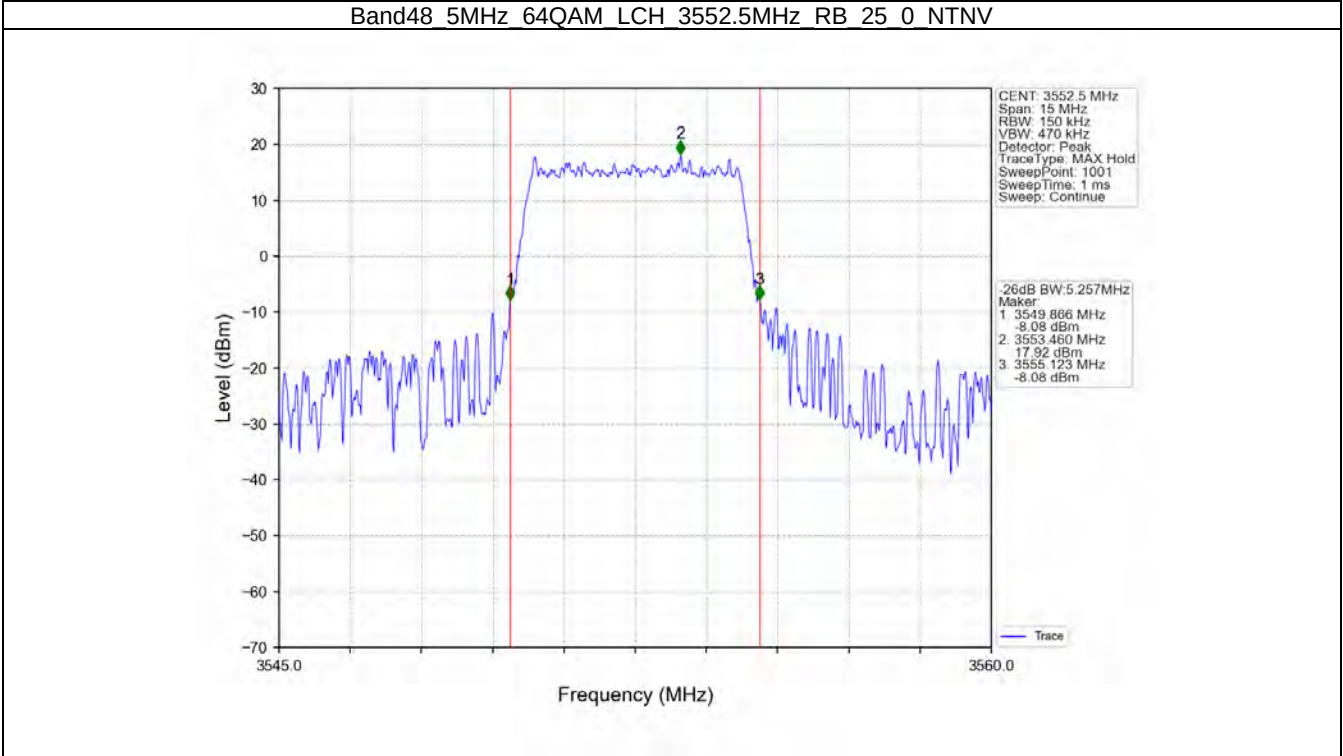
Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV



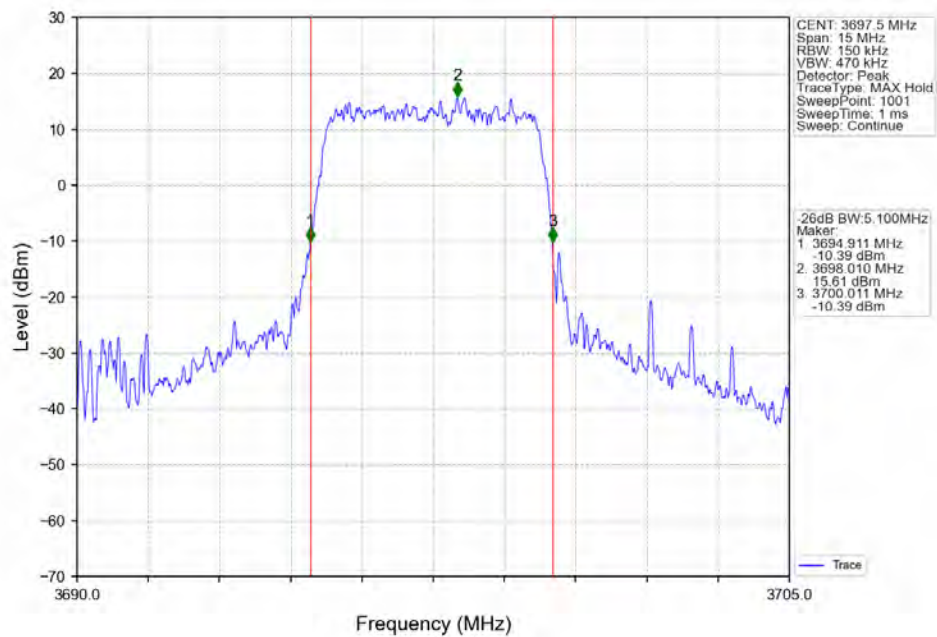
Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



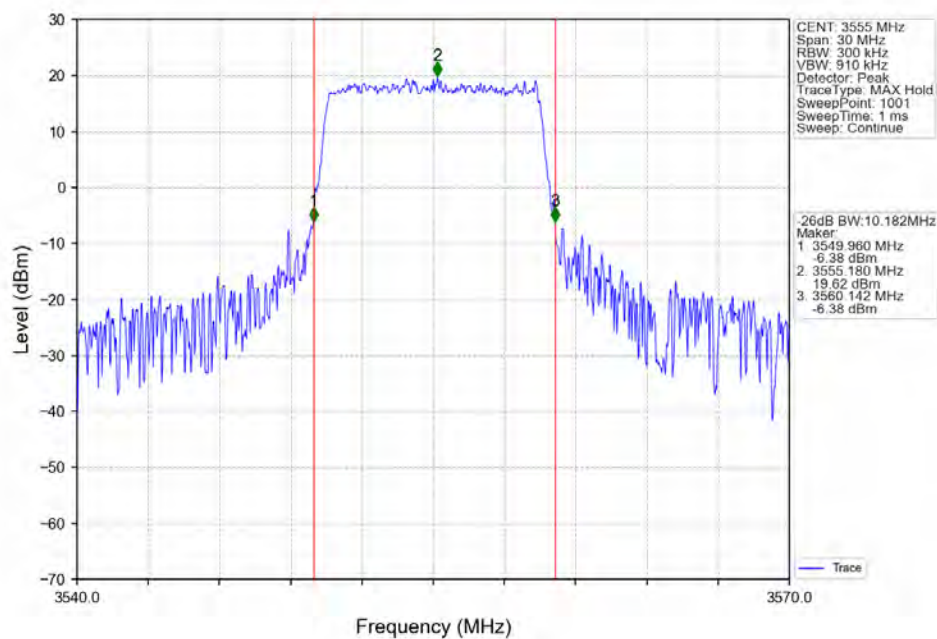




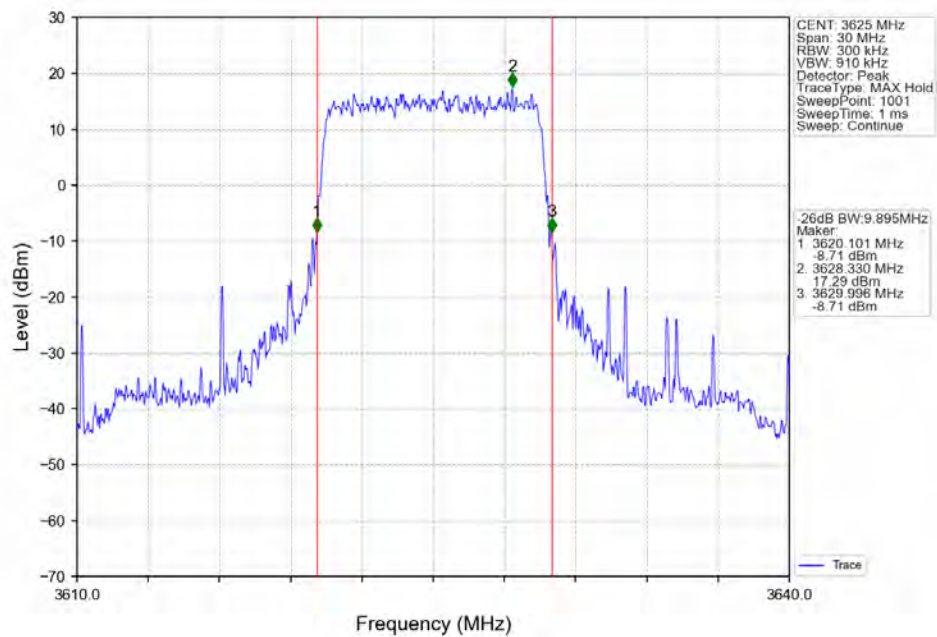
Band48 5MHz 64QAM HCH 3697.5MHz RB 25 0 NTN



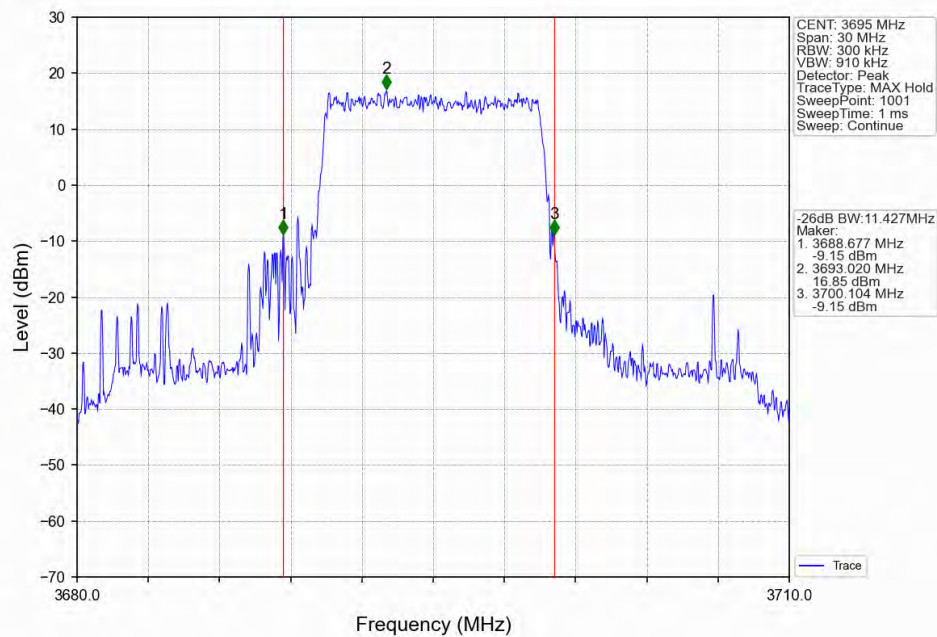
Band48 10MHz QPSK LCH 3555MHz RB 50 0 NTN



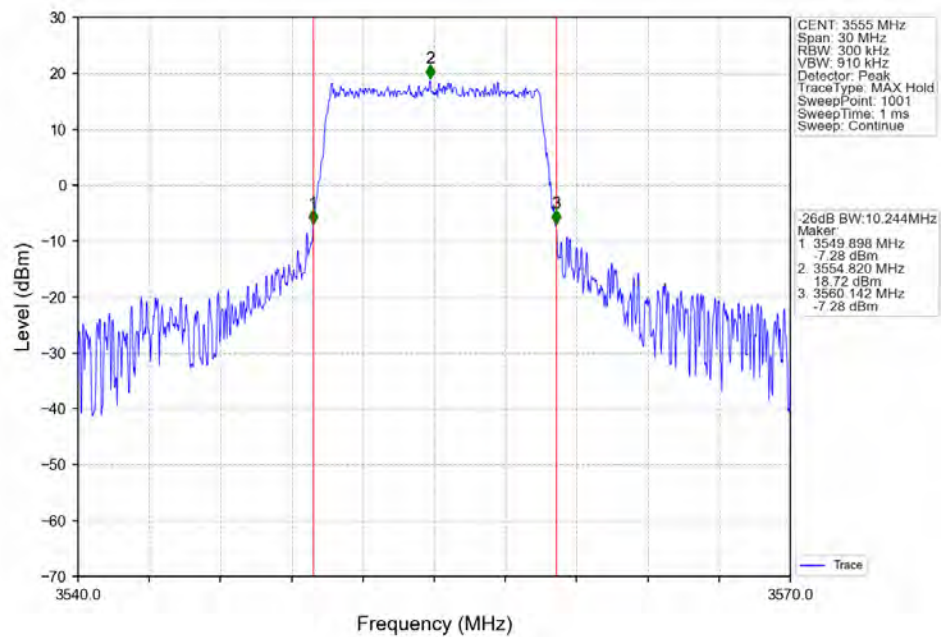
Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_50\_0\_NTNV



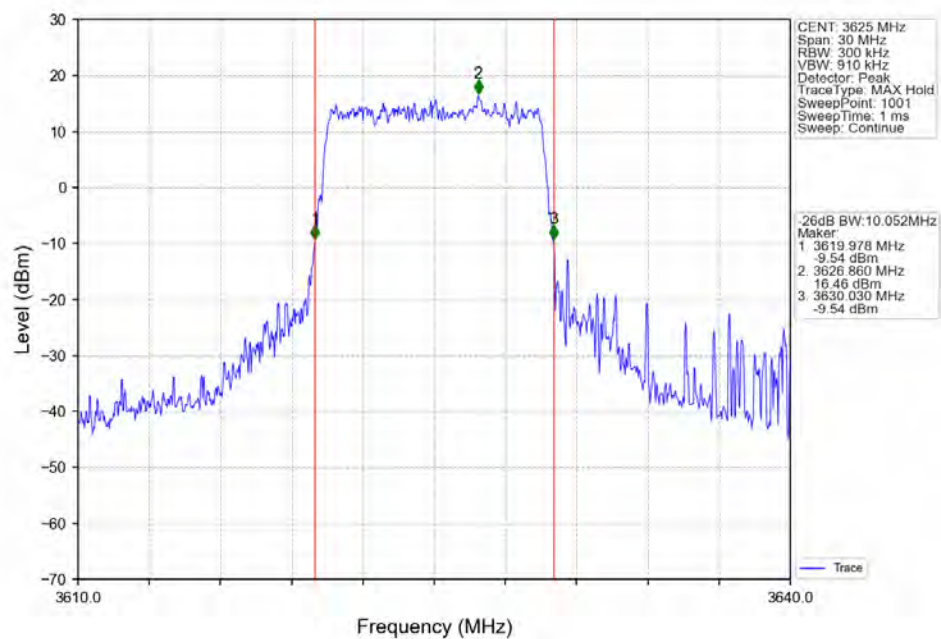
Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV



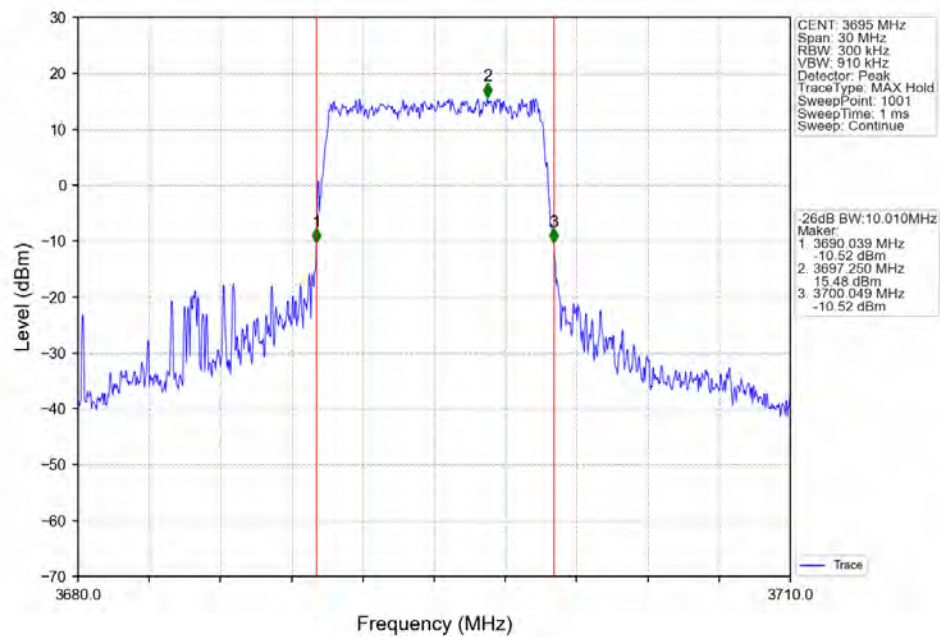
Band48 10MHz 16QAM LCH 3555MHz RB 50 0 NTNV



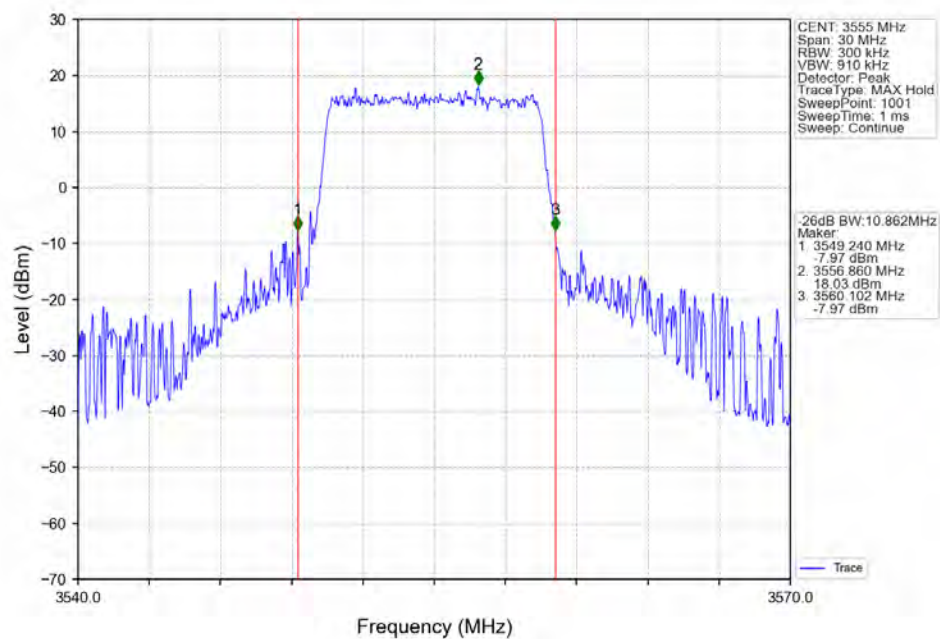
Band48 10MHz 16QAM MCH 3625MHz RB 50 0 NTNV



Band48 10MHz 16QAM HCH 3695MHz RB 50 0 NTNV

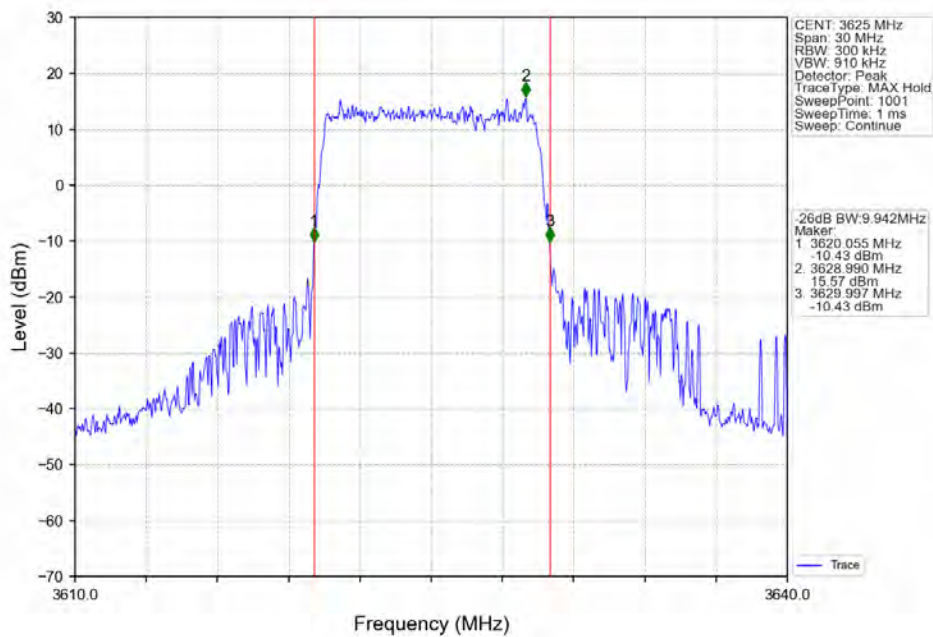


Band48 10MHz 64QAM LCH 3555MHz RB 50 0 NTNV

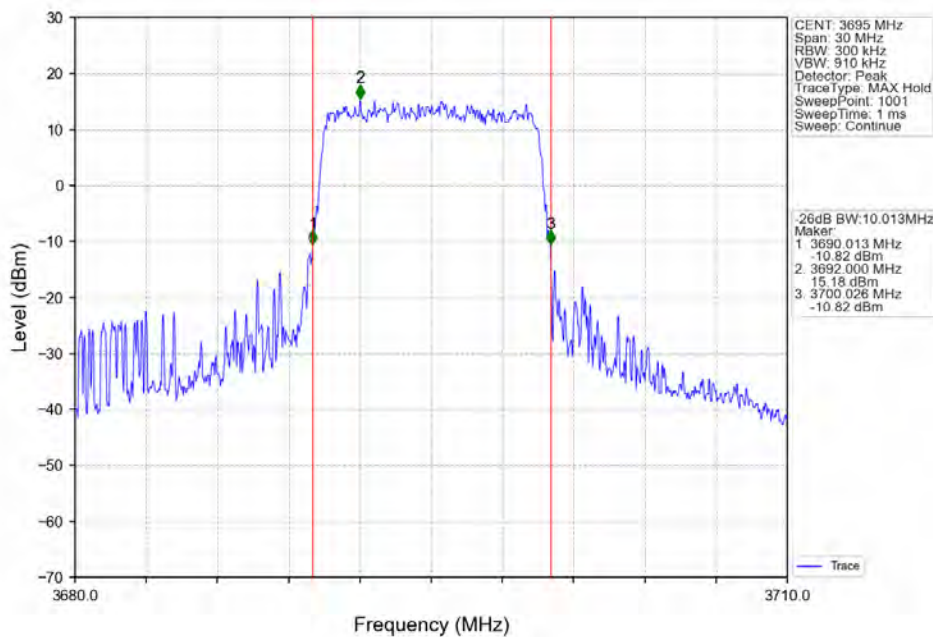




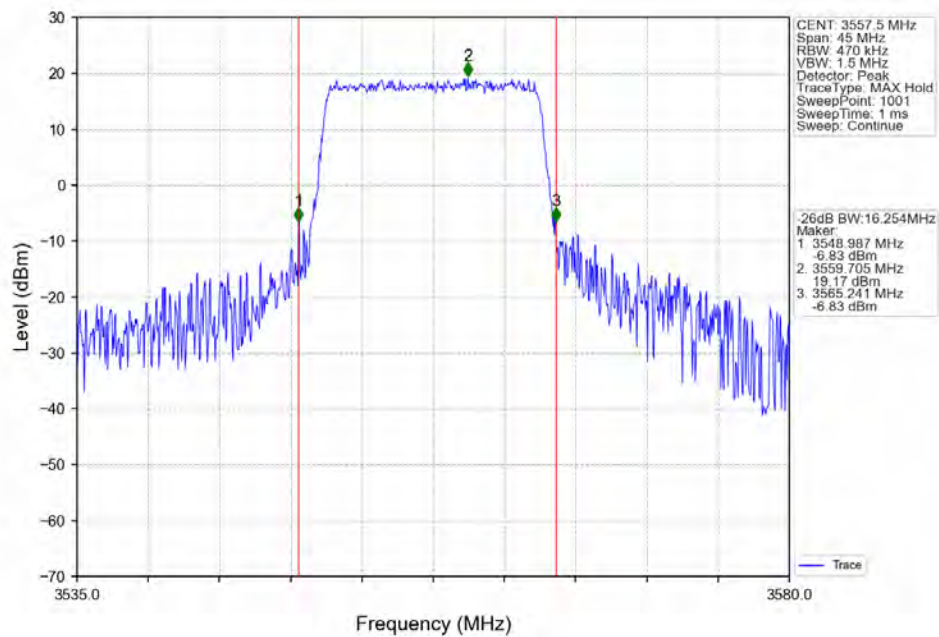
Band48 10MHz 64QAM MCH 3625MHz RB 50 0 NTNV



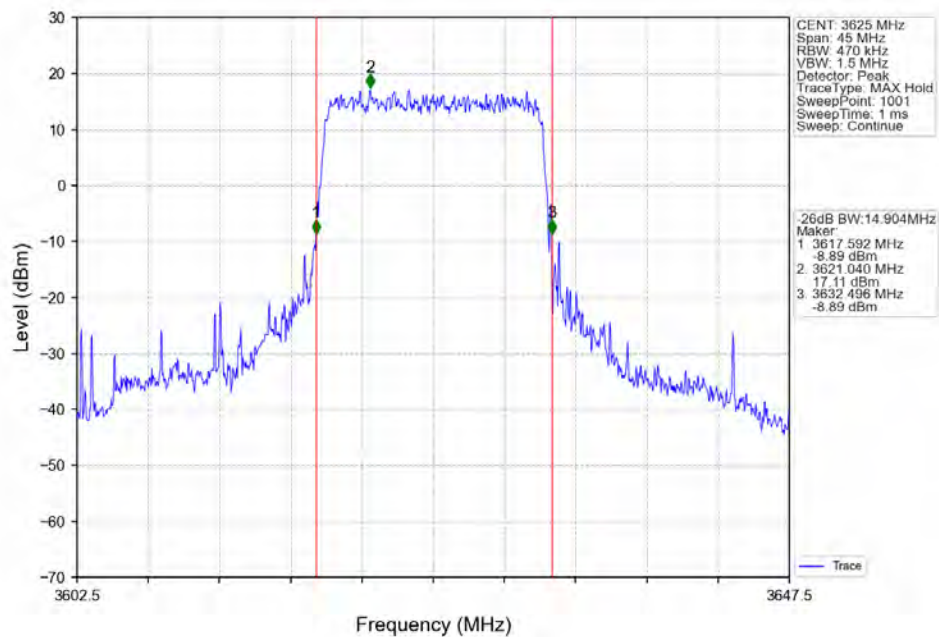
Band48 10MHz 64QAM HCH 3695MHz RB 50 0 NTNV



Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV

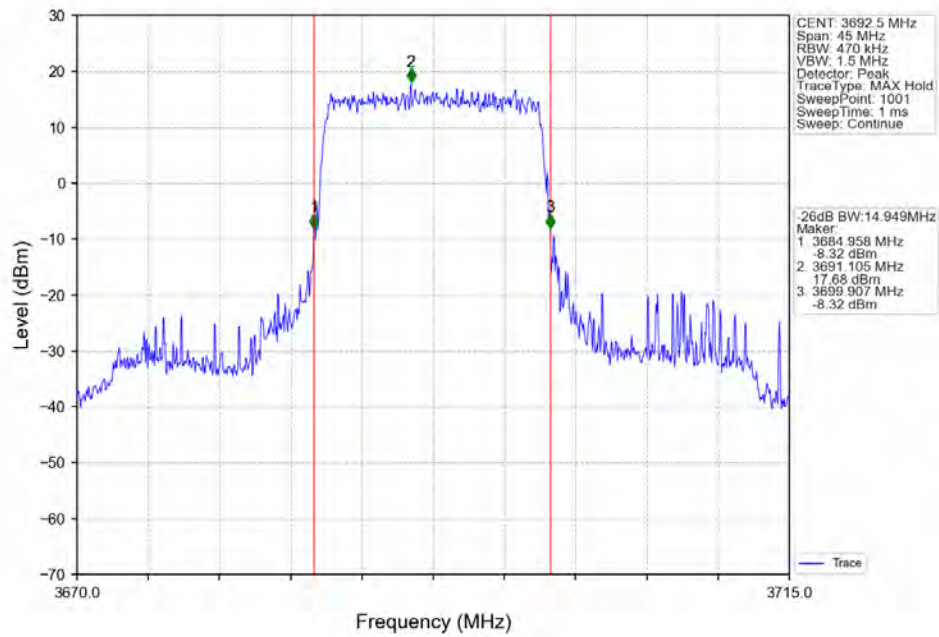


Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_75\_0\_NTNV

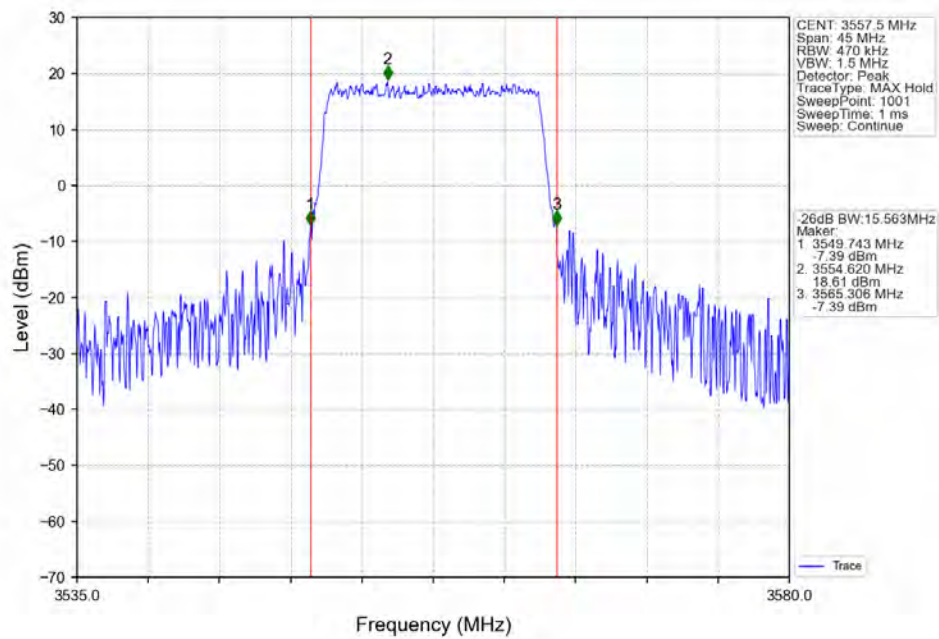




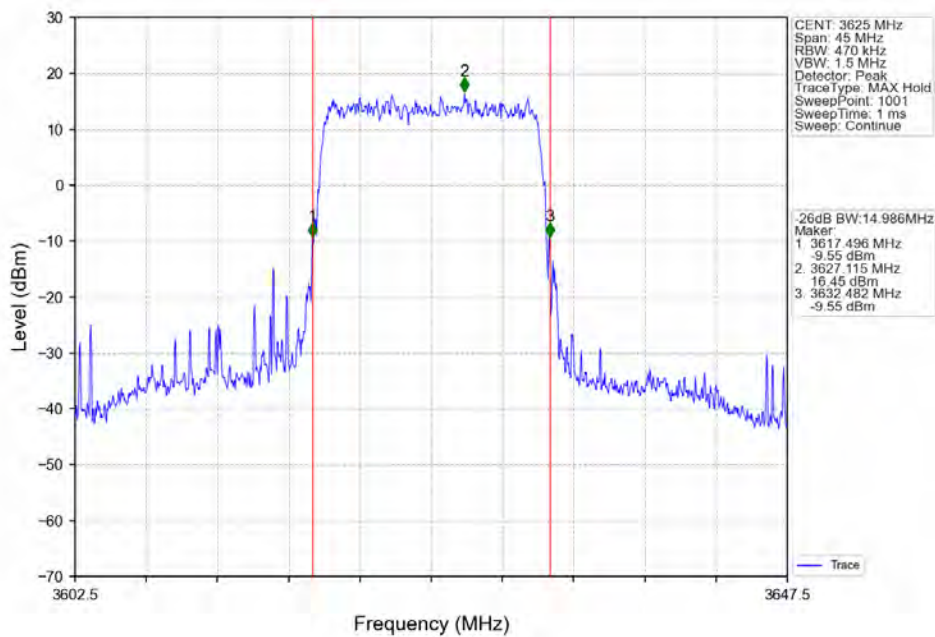
Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



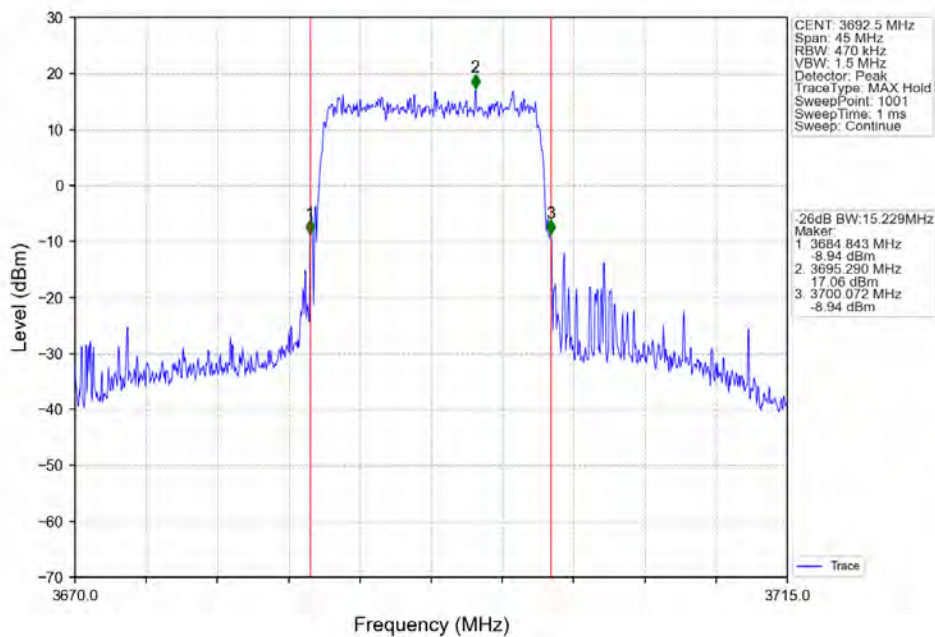
Band48\_15MHz\_16QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



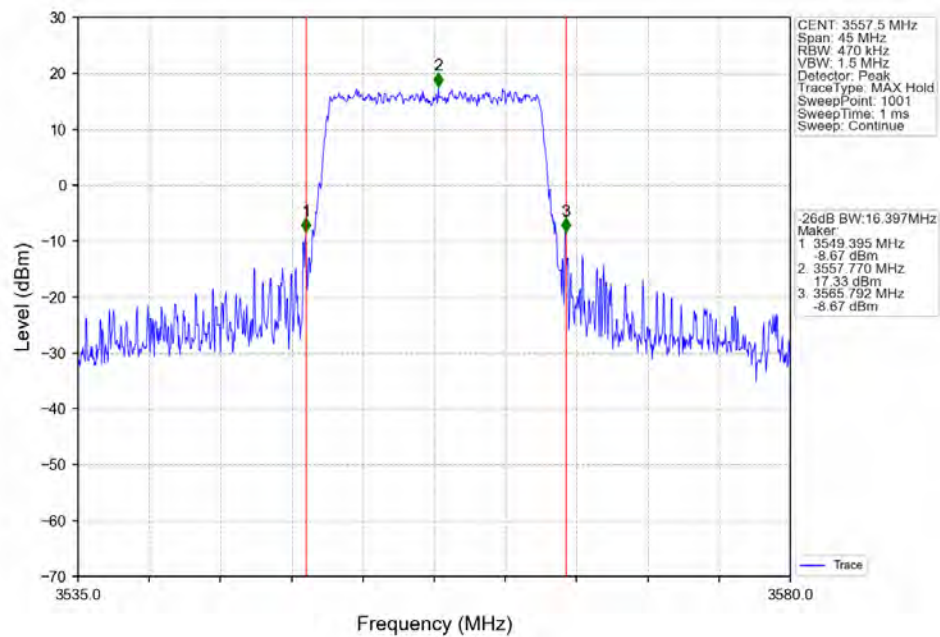
Band48\_15MHz\_16QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV



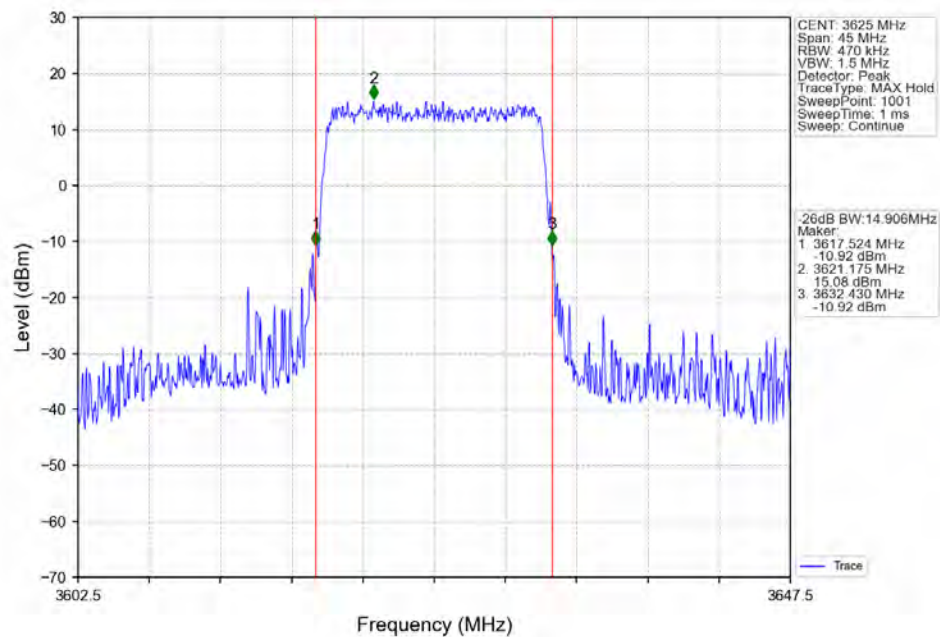
Band48\_15MHz\_16QAM\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



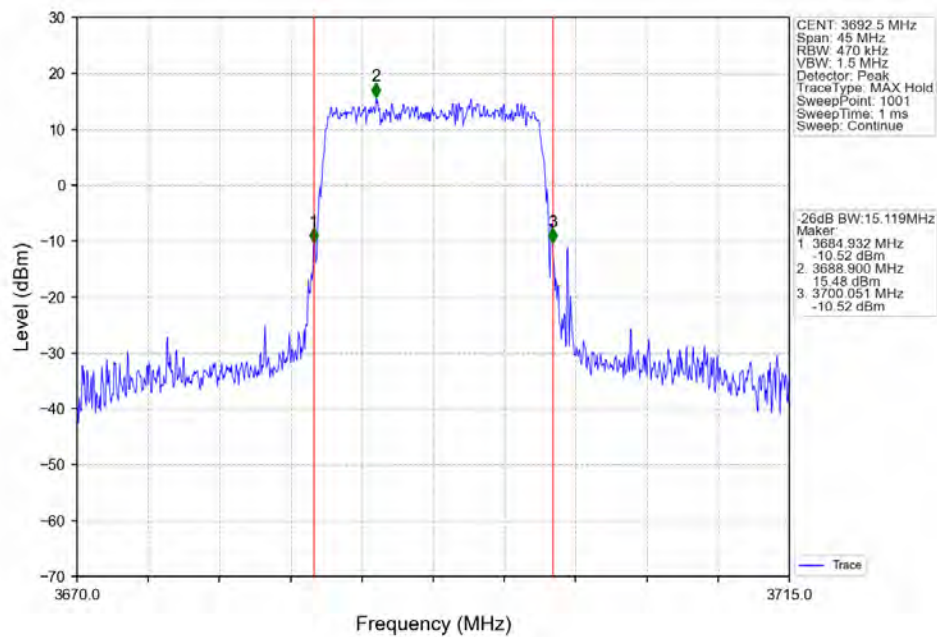
Band48\_15MHz\_64QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



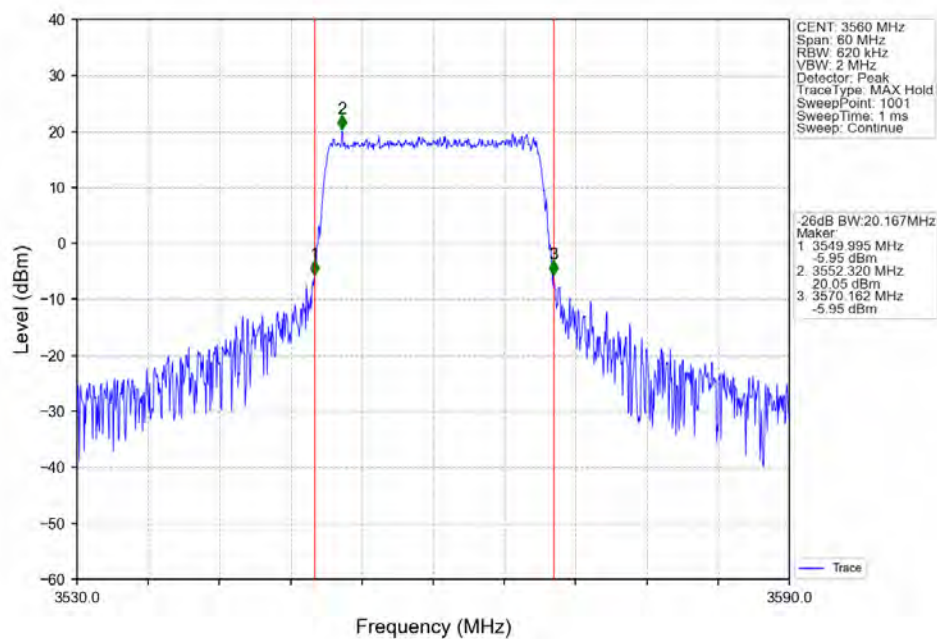
Band48\_15MHz\_64QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV



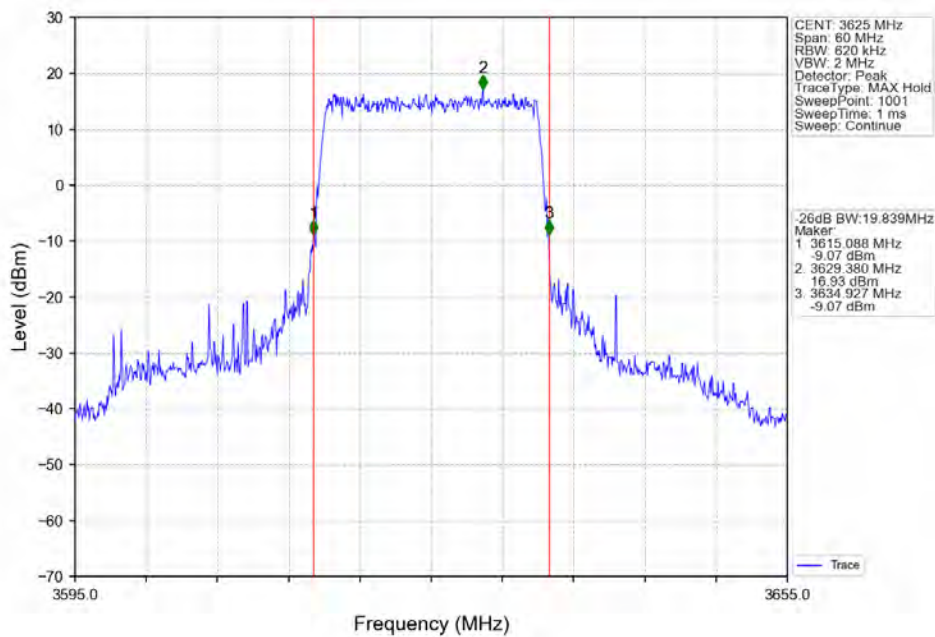
Band48\_15MHz\_64QAM\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



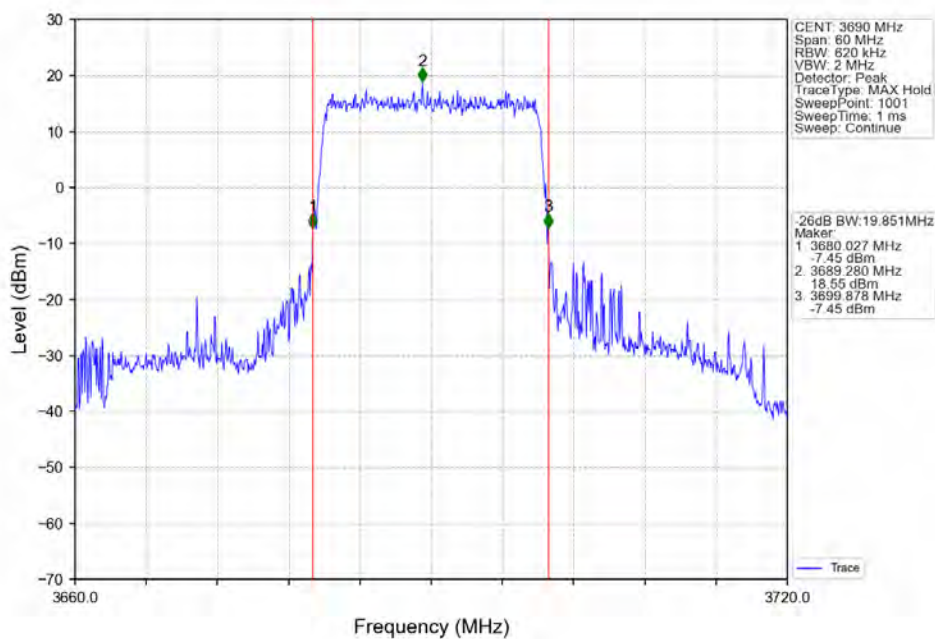
Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_100\_0\_NTNV



Band48 20MHz QPSK MCH 3625MHz RB 100 0 NTNV

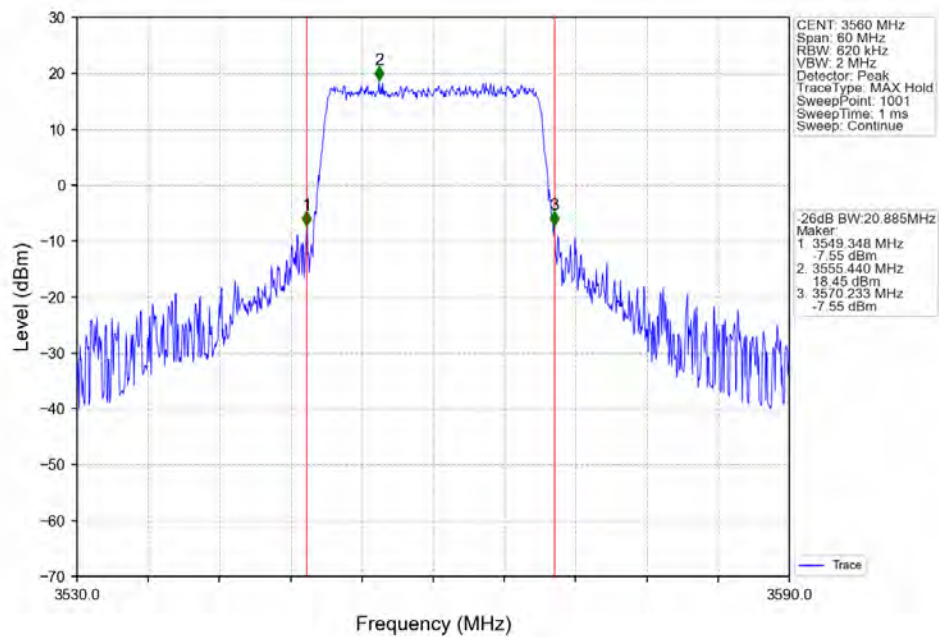


Band48 20MHz QPSK HCH 3690MHz RB 100 0 NTNV

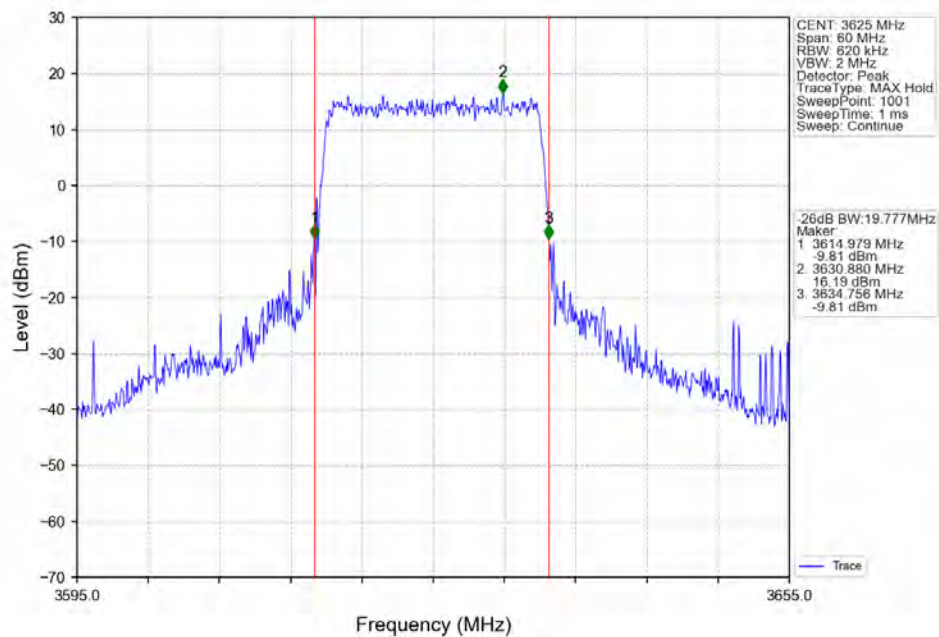




Band48 20MHz 16QAM LCH 3560MHz RB 100 0 NTN

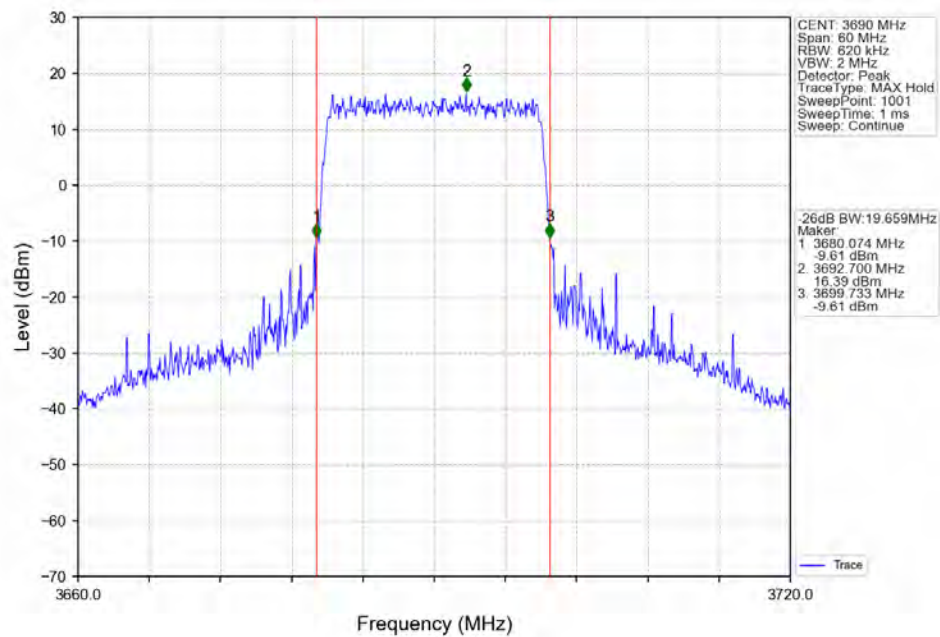


Band48 20MHz 16QAM MCH 3625MHz RB 100 0 NTN

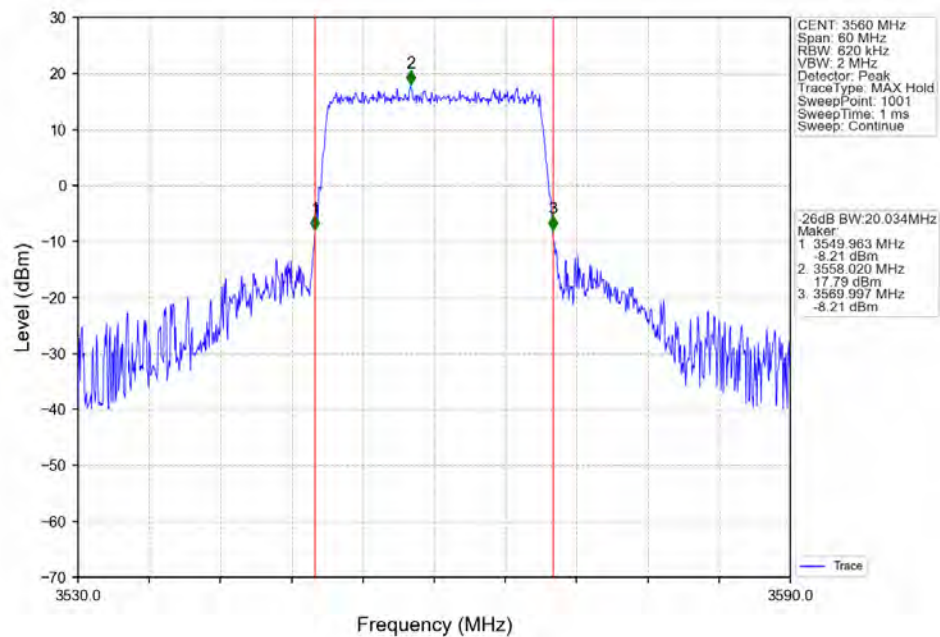




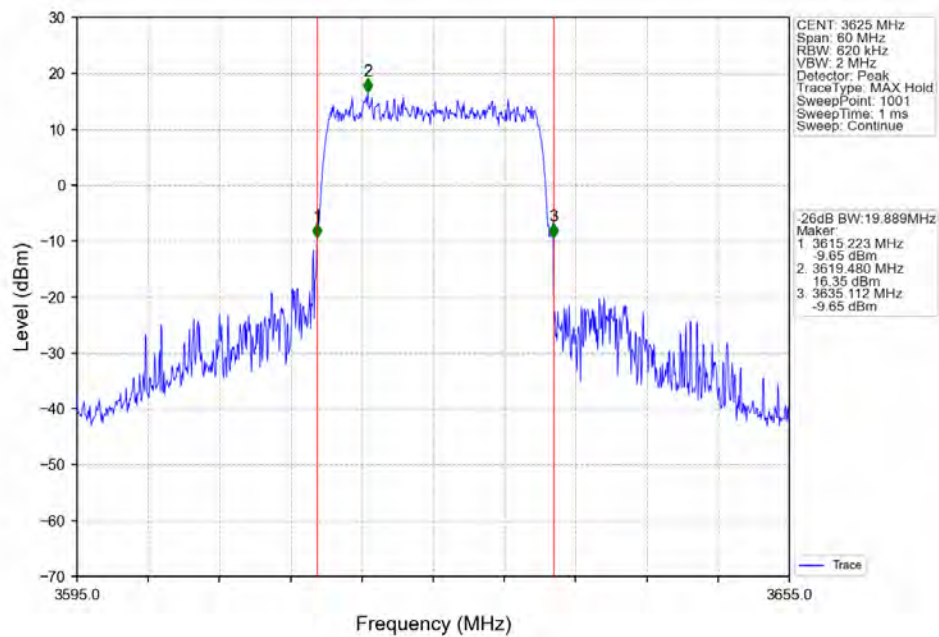
Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



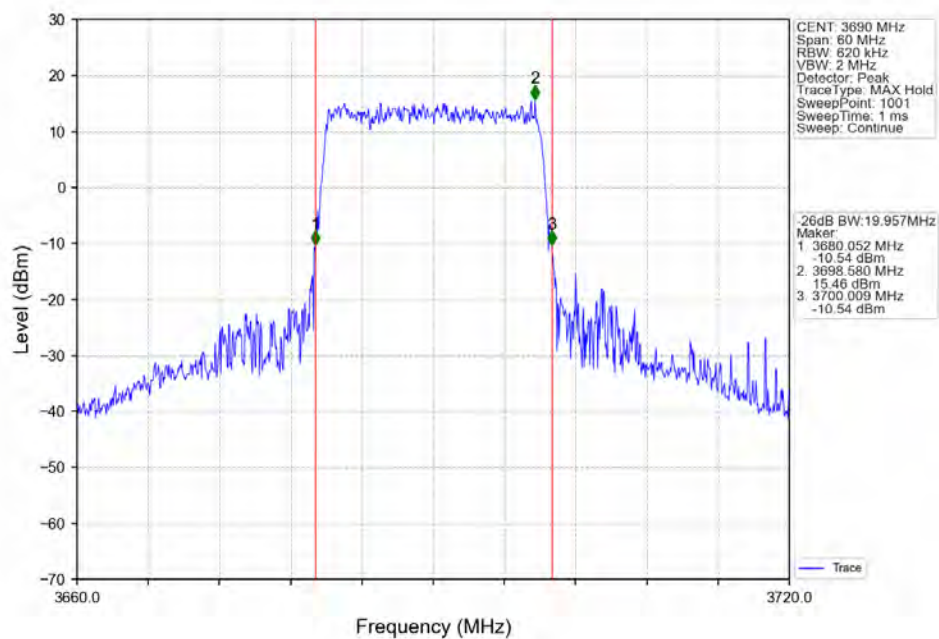
Band48\_20MHz\_64QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_64QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_64QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



## 4. Peak-Average Ratio

### 4.1 B48\_5MHz

#### 4.1.1 Test Result

| Band: 48 / Bandwidth: 5MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 3552.5          | 25            | 0      | 7.05                    | <=13  | Pass    |
|                                   | 3625            | 25            | 0      | 7.10                    | <=13  | Pass    |
|                                   | 3697.5          | 25            | 0      | 7.20                    | <=13  | Pass    |
| 16QAM                             | 3552.5          | 25            | 0      | 8.03                    | <=13  | Pass    |
|                                   | 3625            | 25            | 0      | 8.33                    | <=13  | Pass    |
|                                   | 3697.5          | 25            | 0      | 8.41                    | <=13  | Pass    |
| 64QAM                             | 3552.5          | 25            | 0      | 12.43                   | <=13  | Pass    |
|                                   | 3625            | 25            | 0      | 12.85                   | <=13  | Pass    |
|                                   | 3697.5          | 25            | 0      | 12.54                   | <=13  | Pass    |

### 4.2 B48\_10MHz

#### 4.2.1 Test Result

| Band: 48 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 3555            | 50            | 0      | 6.84                    | <=13  | Pass    |
|                                    | 3625            | 50            | 0      | 7.07                    | <=13  | Pass    |
|                                    | 3695            | 50            | 0      | 7.06                    | <=13  | Pass    |
| 16QAM                              | 3555            | 50            | 0      | 8.06                    | <=13  | Pass    |
|                                    | 3625            | 50            | 0      | 8.09                    | <=13  | Pass    |
|                                    | 3695            | 50            | 0      | 8.13                    | <=13  | Pass    |
| 64QAM                              | 3555            | 50            | 0      | 12.43                   | <=13  | Pass    |
|                                    | 3625            | 50            | 0      | 12.57                   | <=13  | Pass    |
|                                    | 3695            | 50            | 0      | 12.87                   | <=13  | Pass    |

### 4.3 B48\_15MHz

#### 4.3.1 Test Result

| Band: 48 / Bandwidth: 15MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 3557.5          | 75            | 0      | 6.90                    | <=13  | Pass    |
|                                    | 3625            | 75            | 0      | 7.05                    | <=13  | Pass    |
|                                    | 3692.5          | 75            | 0      | 7.30                    | <=13  | Pass    |
| 16QAM                              | 3557.5          | 75            | 0      | 8.50                    | <=13  | Pass    |
|                                    | 3625            | 75            | 0      | 8.61                    | <=13  | Pass    |
|                                    | 3692.5          | 75            | 0      | 8.51                    | <=13  | Pass    |
| 64QAM                              | 3557.5          | 75            | 0      | 11.21                   | <=13  | Pass    |
|                                    | 3625            | 75            | 0      | 8.68                    | <=13  | Pass    |
|                                    | 3692.5          | 75            | 0      | 11.34                   | <=13  | Pass    |

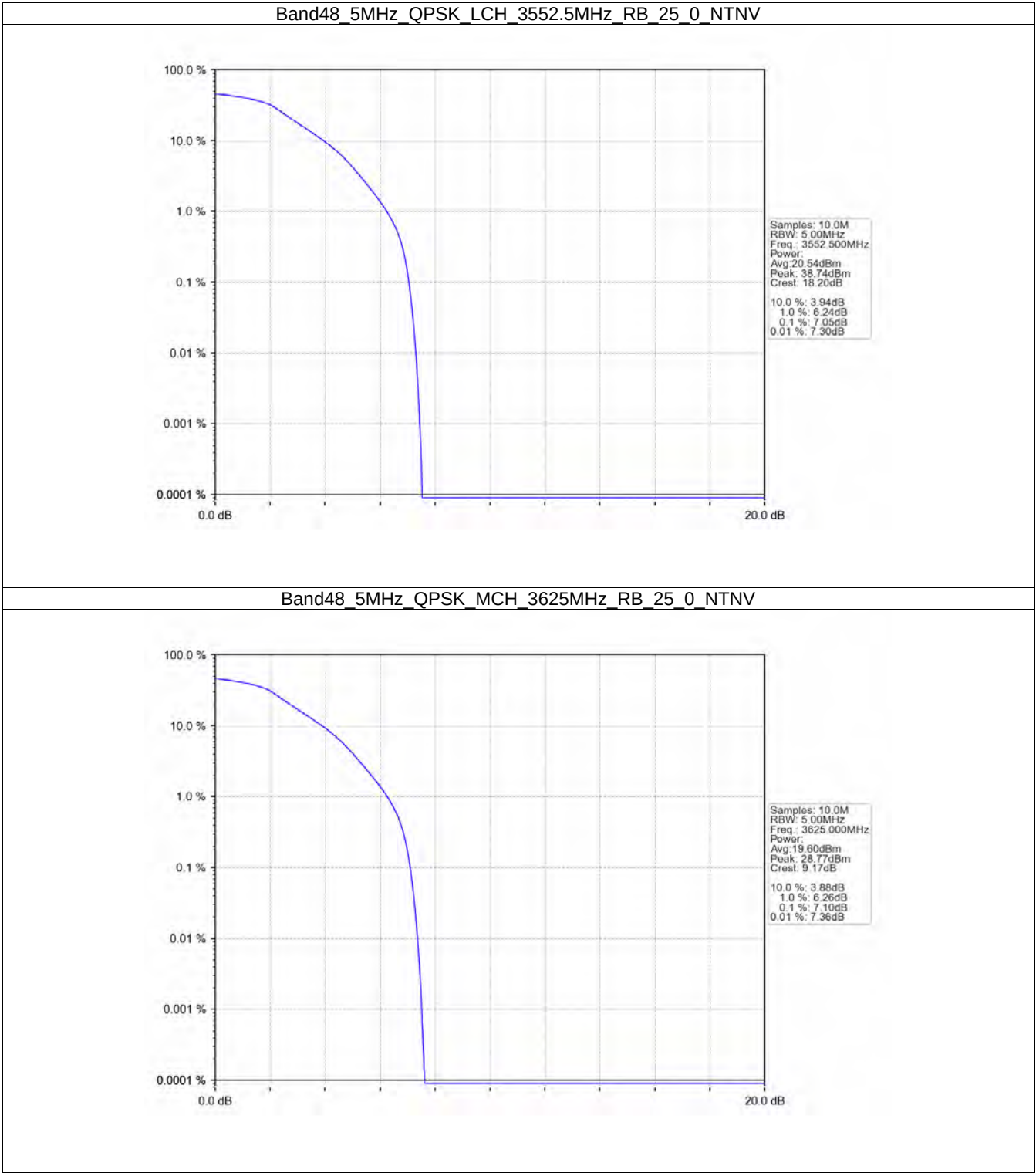
## 4.4 B48\_20MHz

### 4.4.1 Test Result

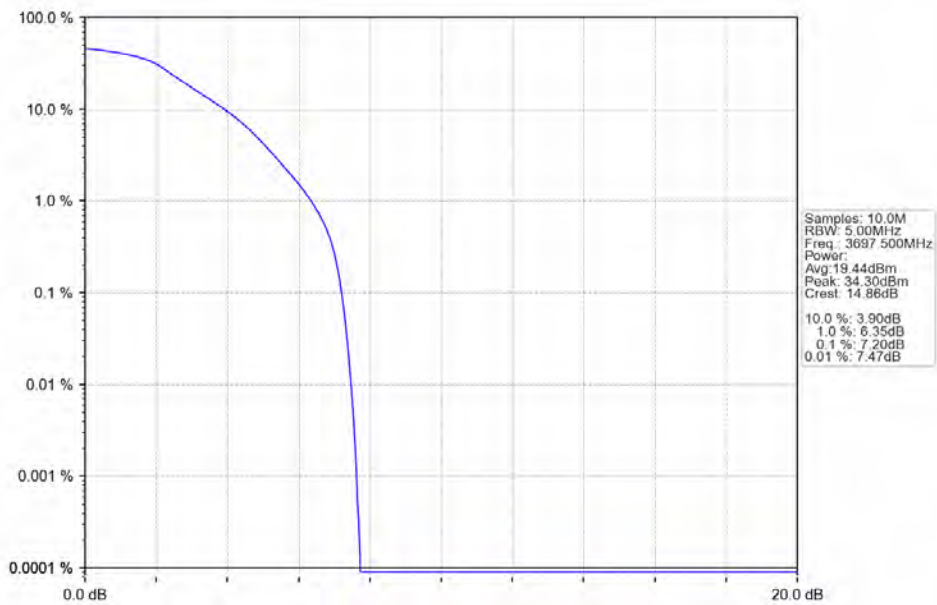
| Band: 48 / Bandwidth: 20MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 3560            | 100           | 0      | 7.00                    | <=13  | Pass    |
|                                    | 3625            | 100           | 0      | 7.01                    | <=13  | Pass    |
|                                    | 3690            | 100           | 0      | 7.10                    | <=13  | Pass    |
| 16QAM                              | 3560            | 100           | 0      | 8.06                    | <=13  | Pass    |
|                                    | 3625            | 100           | 0      | 8.15                    | <=13  | Pass    |
|                                    | 3690            | 100           | 0      | 7.95                    | <=13  | Pass    |
| 64QAM                              | 3560            | 100           | 0      | 10.66                   | <=13  | Pass    |
|                                    | 3625            | 100           | 0      | 10.86                   | <=13  | Pass    |
|                                    | 3690            | 100           | 0      | 10.89                   | <=13  | Pass    |

## 4.1 B48\_5MHz

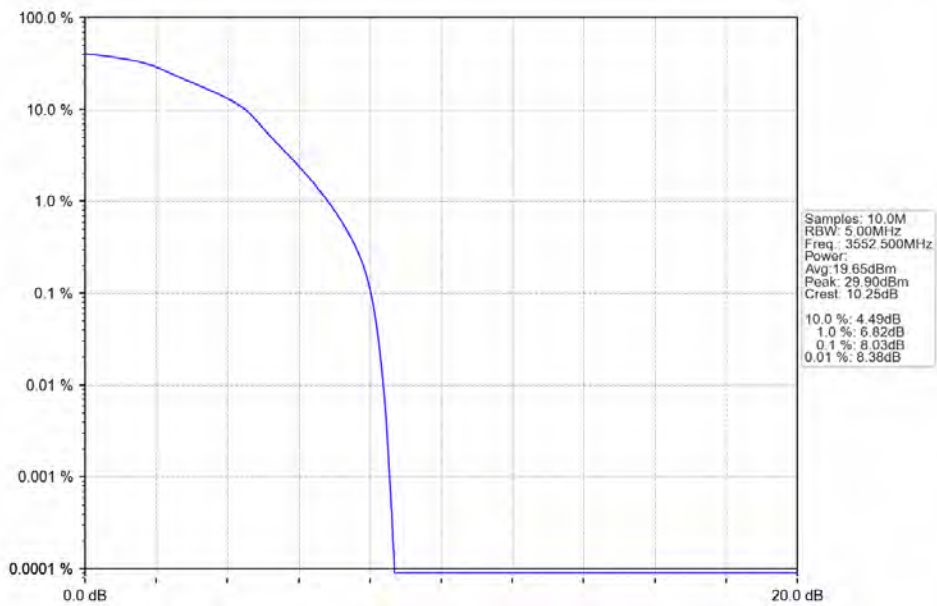
4.1.2 Test Graph



Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV

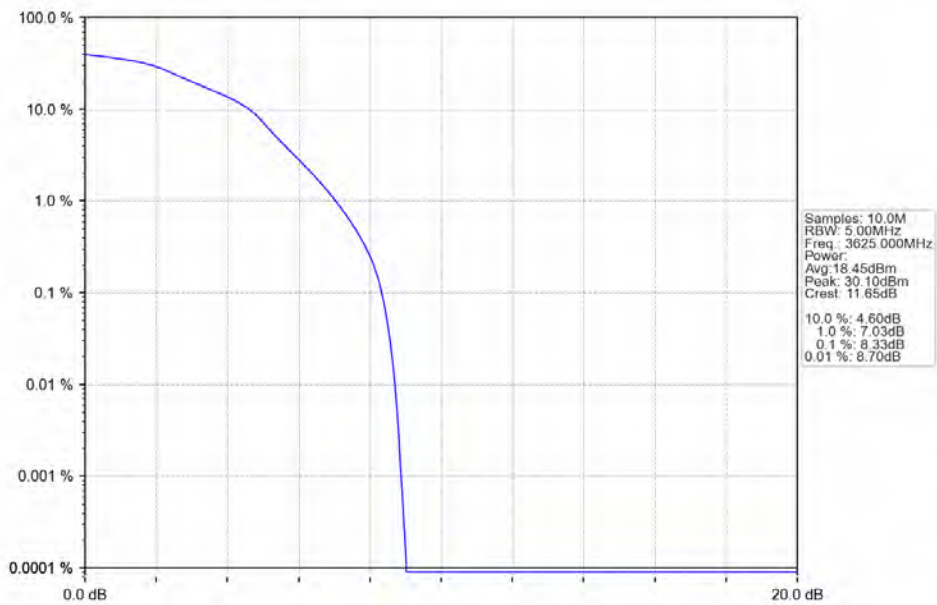


Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV

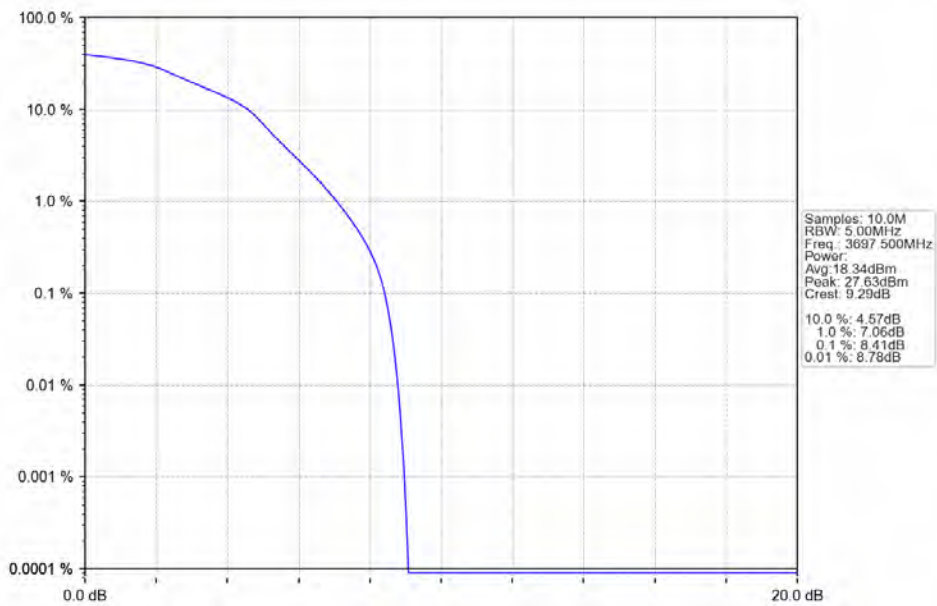




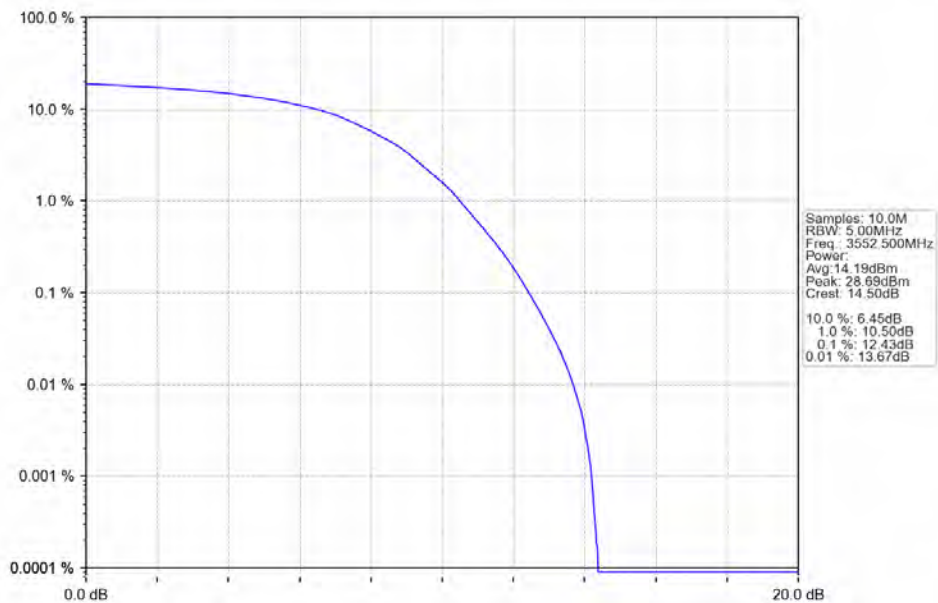
Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV



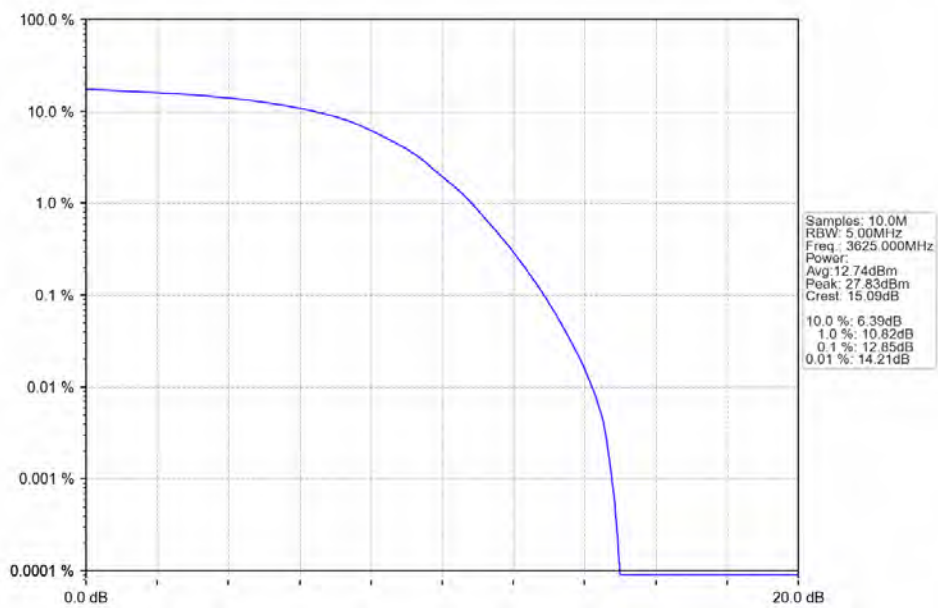
Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV

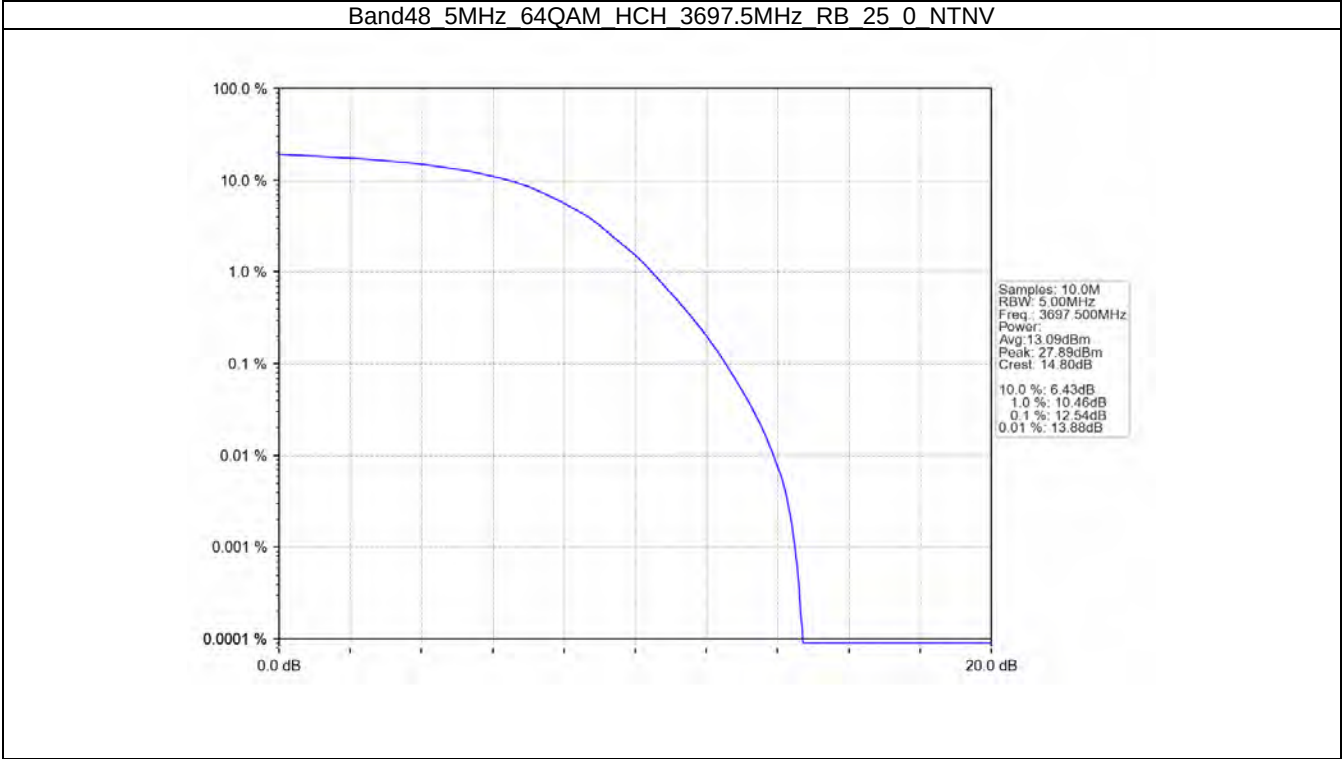


Band48 5MHz 64QAM LCH 3552.5MHz RB 25 0 NTNV



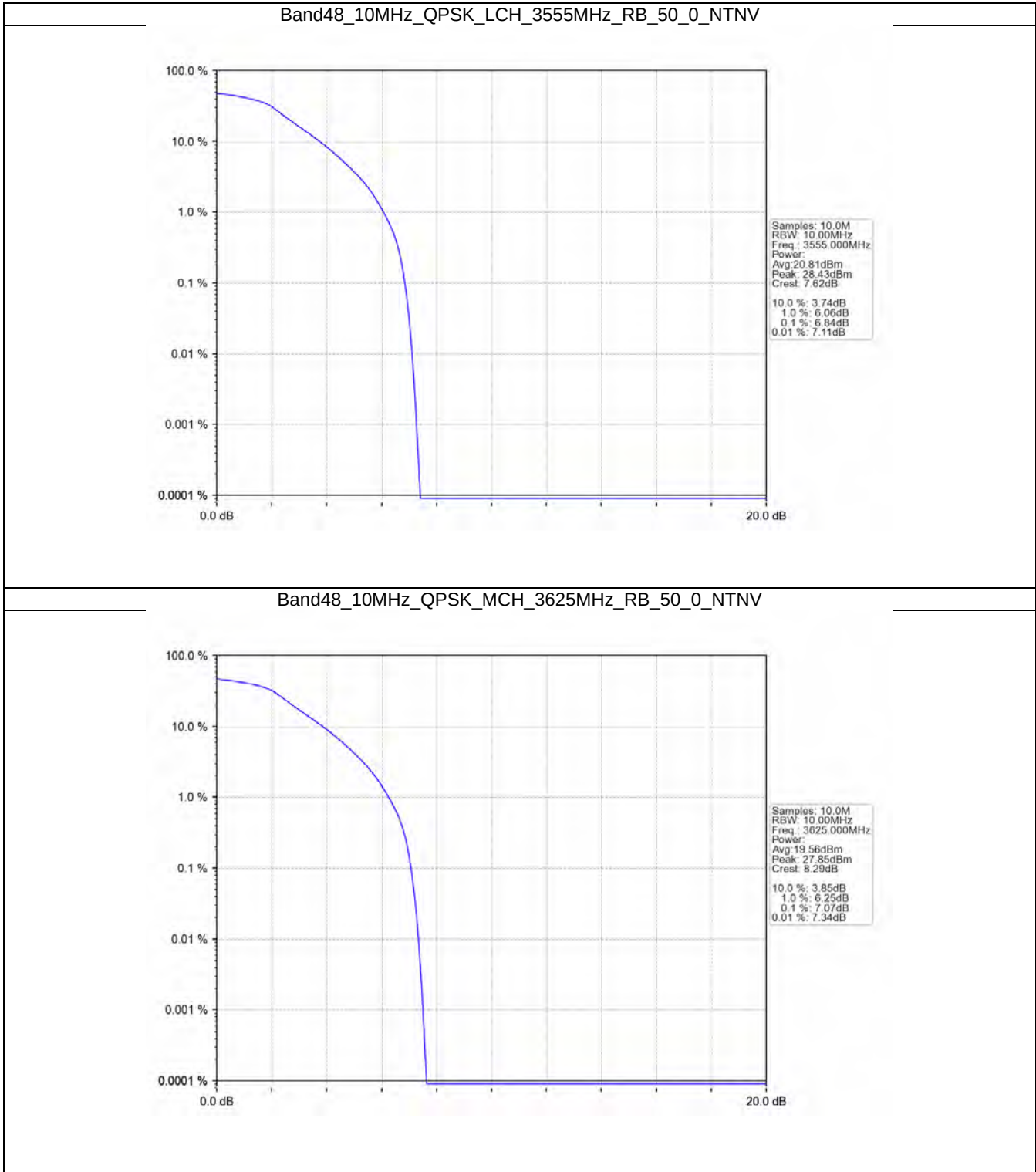
Band48 5MHz 64QAM MCH 3625MHz RB 25 0 NTNV



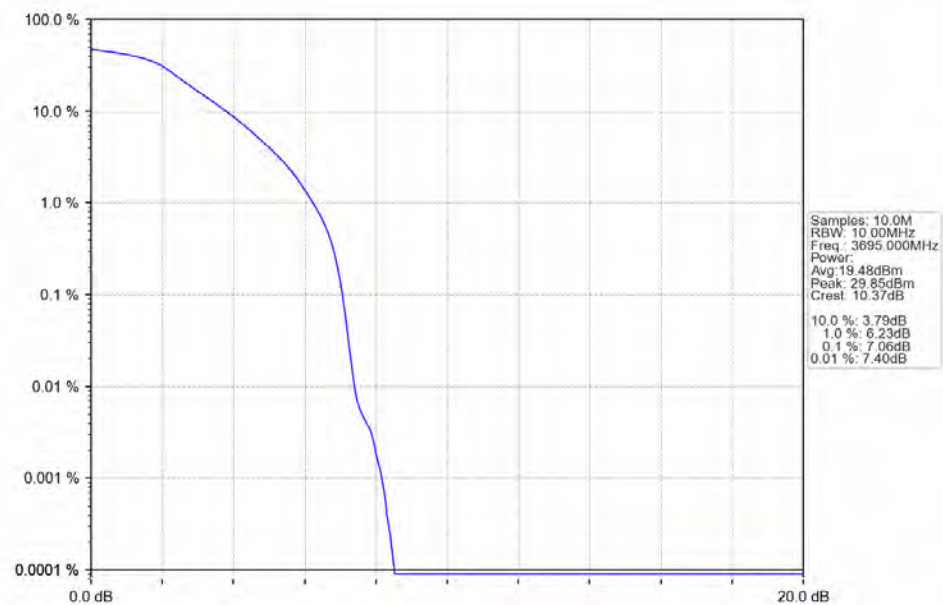


4.2 B48\_10MHz

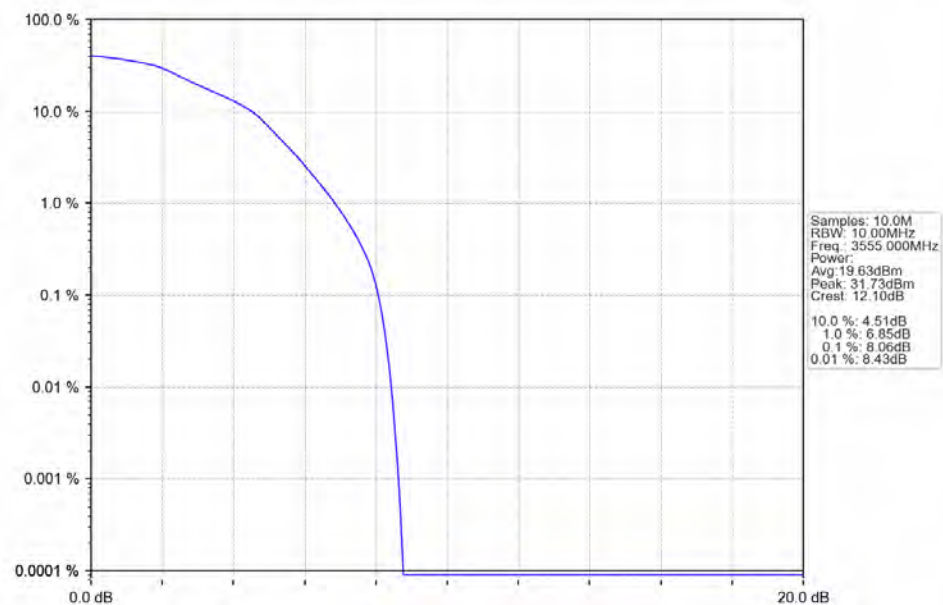
4.2.2 Test Graph



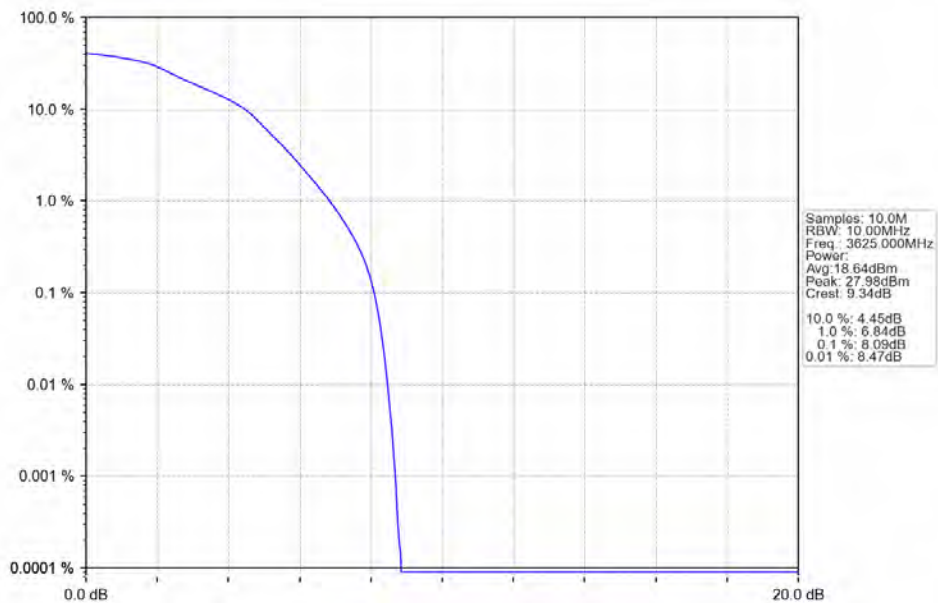
Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV



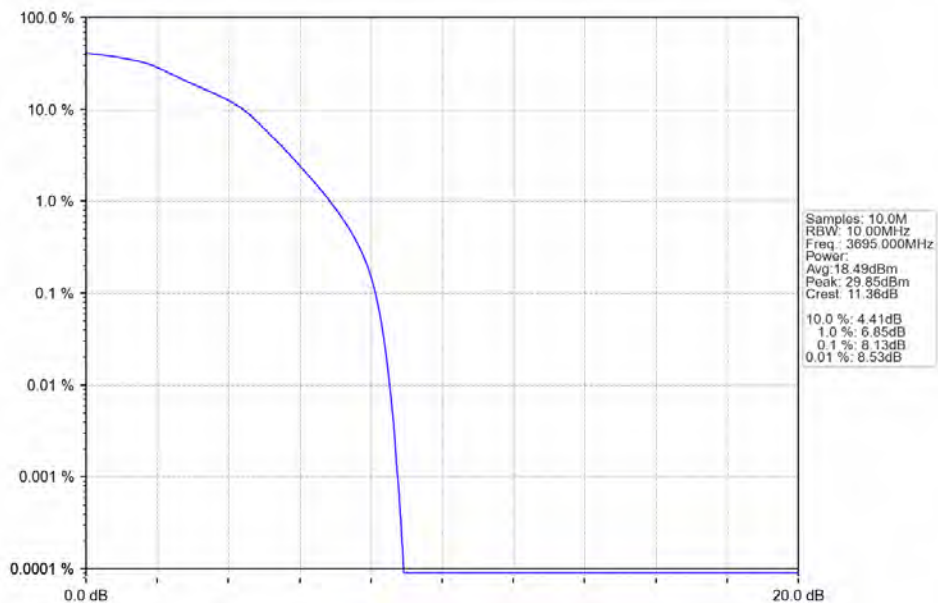
Band48\_10MHz\_16QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV



Band48 10MHz 16QAM MCH 3625MHz RB 50 0 NTNV

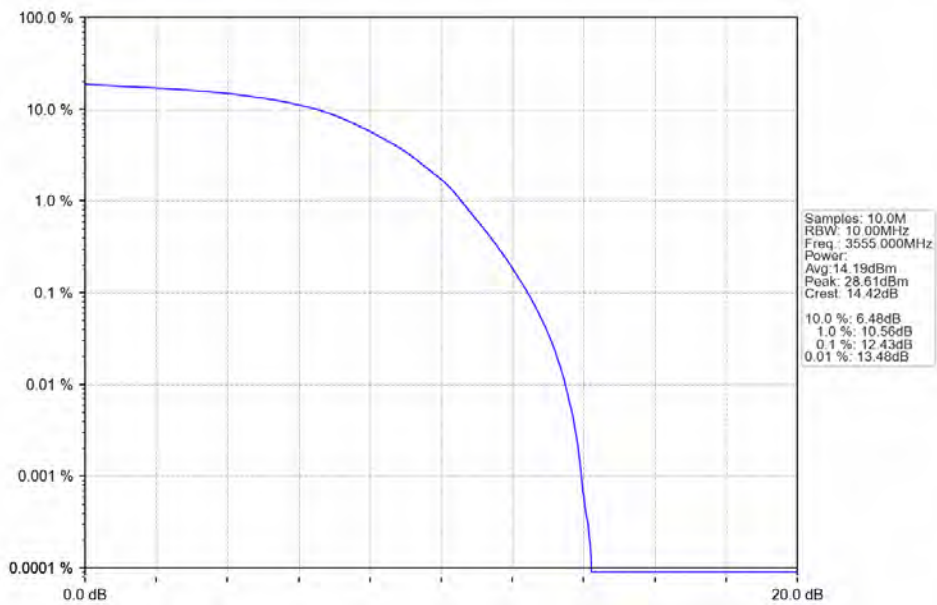


Band48 10MHz 16QAM HCH 3695MHz RB 50 0 NTNV

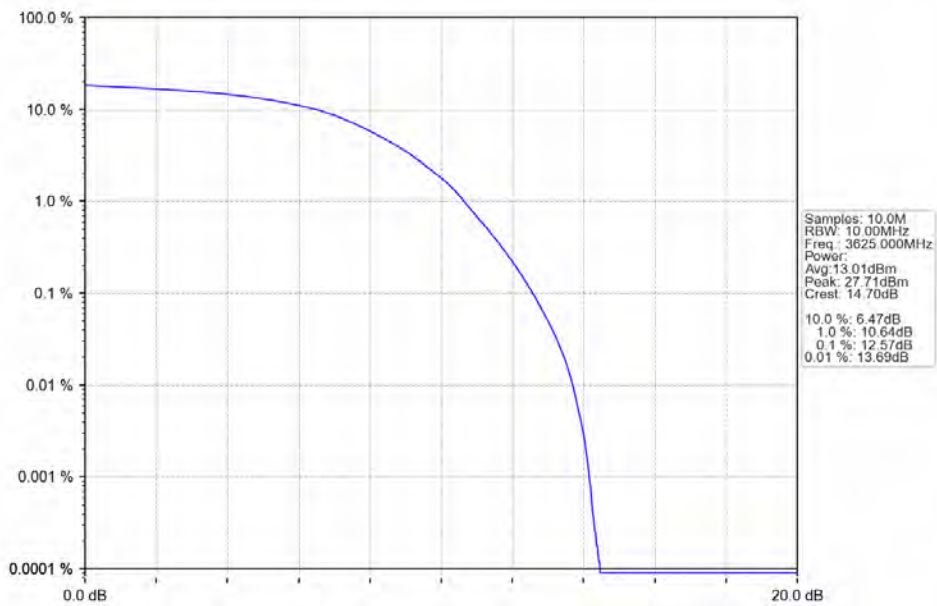


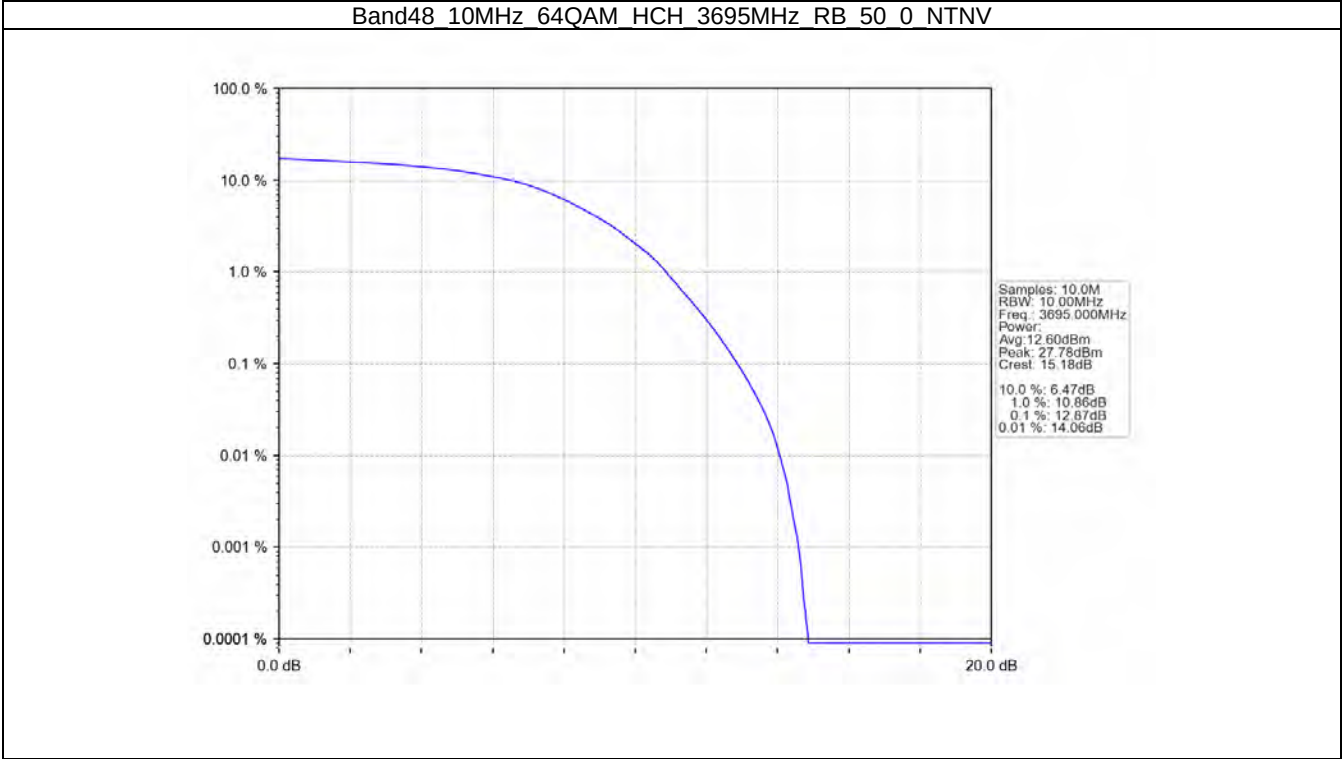


Band48\_10MHz\_64QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV



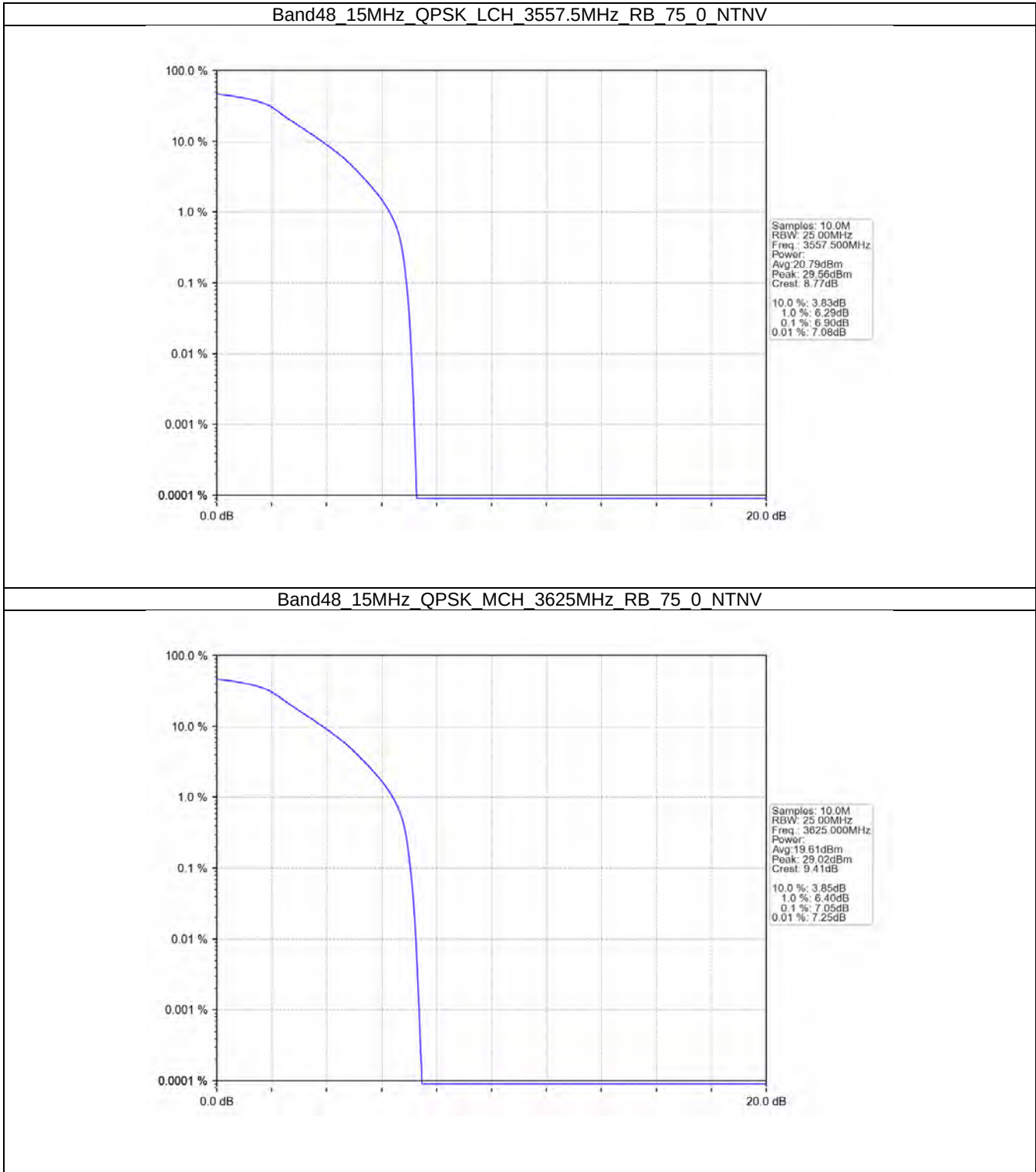
Band48\_10MHz\_64QAM\_MCH\_3625MHz\_RB\_50\_0\_NTNV



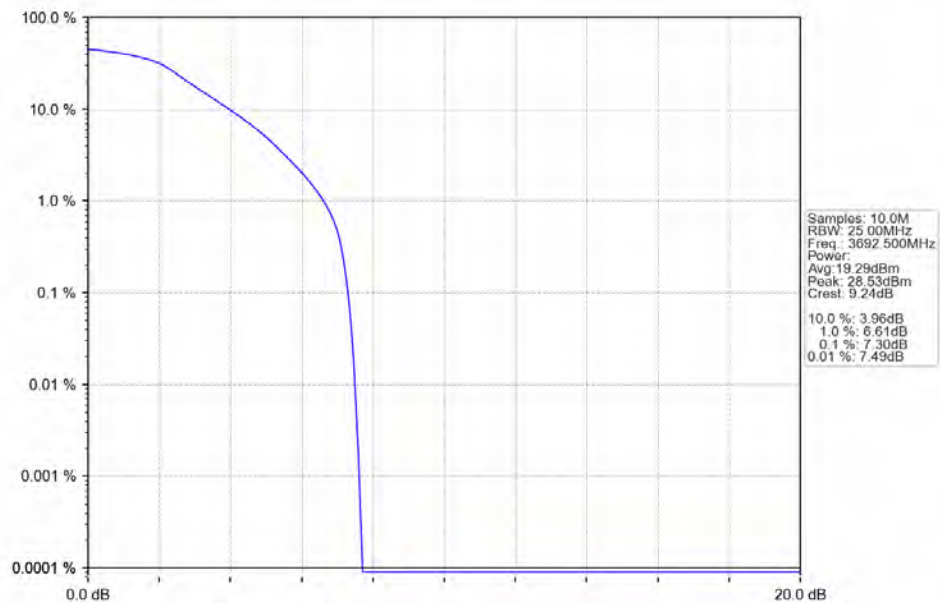


4.3 B48\_15MHz

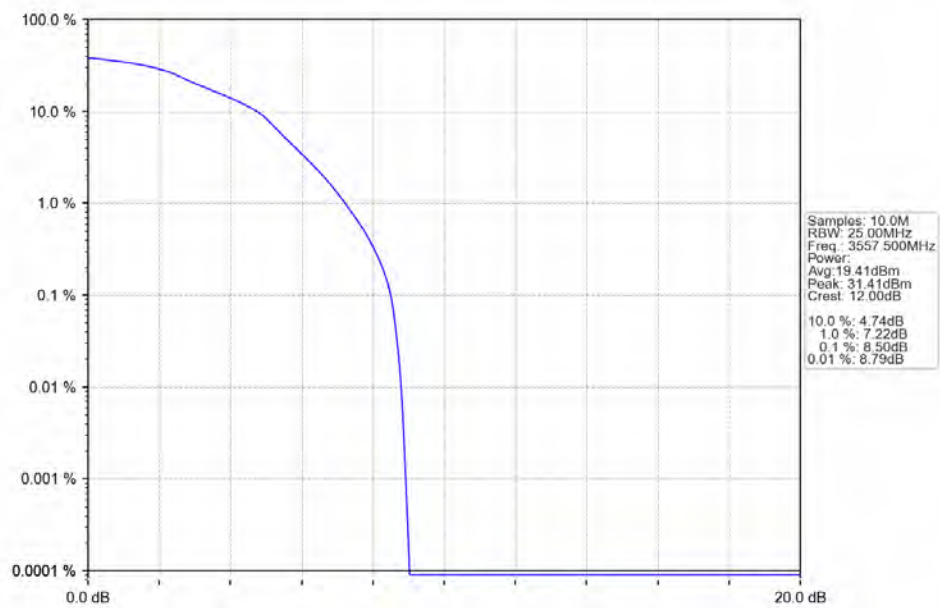
4.3.2 Test Graph



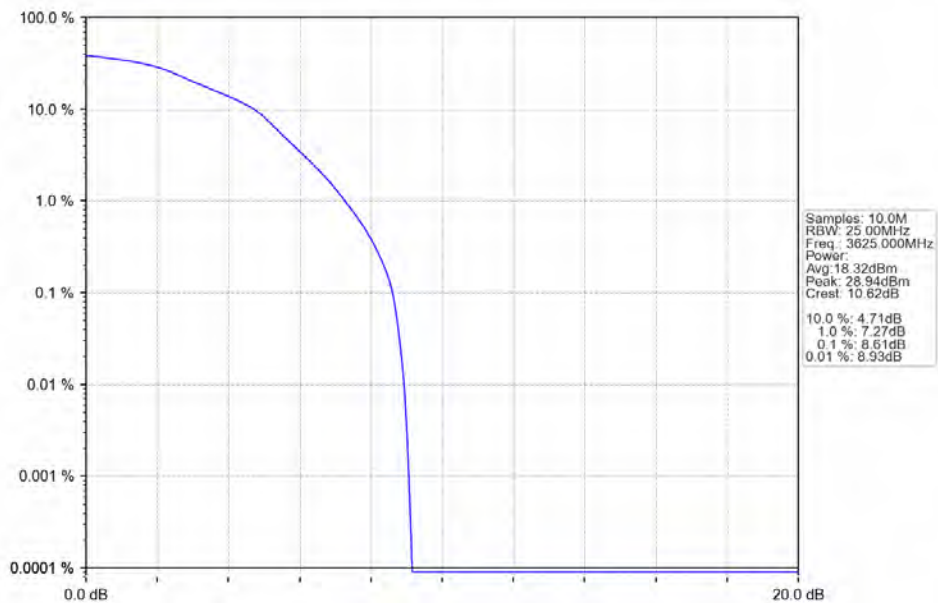
Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



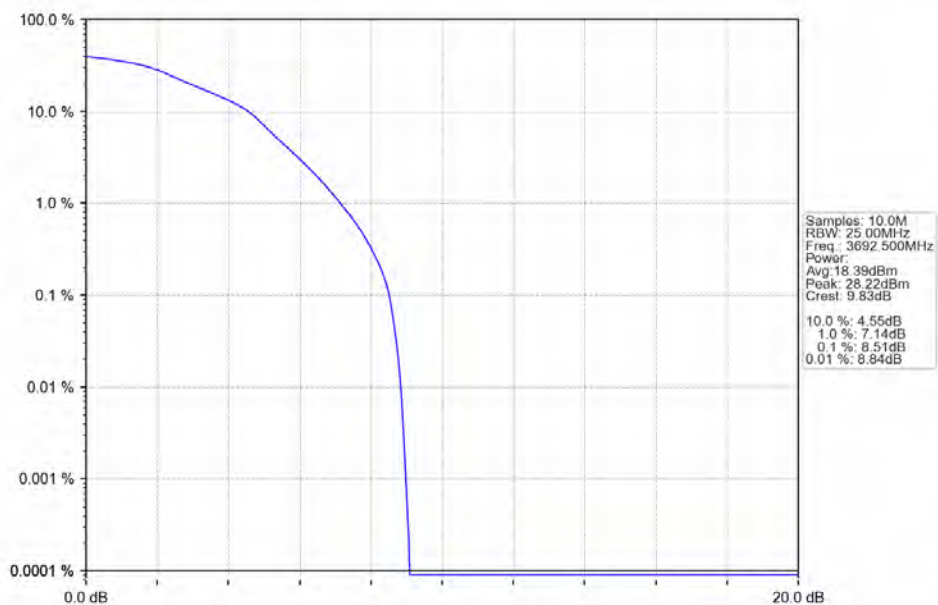
Band48\_15MHz\_16QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



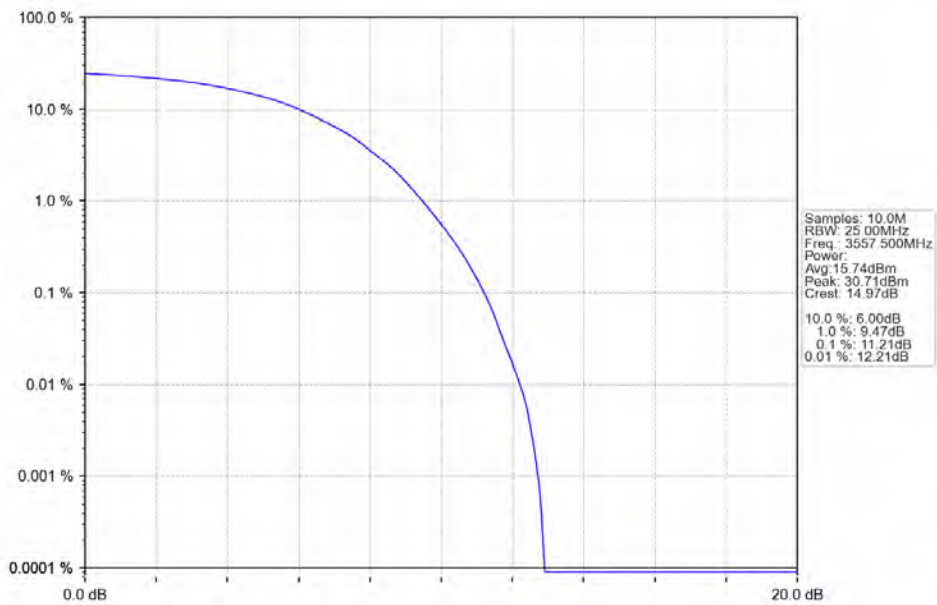
Band48 15MHz 16QAM MCH 3625MHz RB 75 0 NTNV



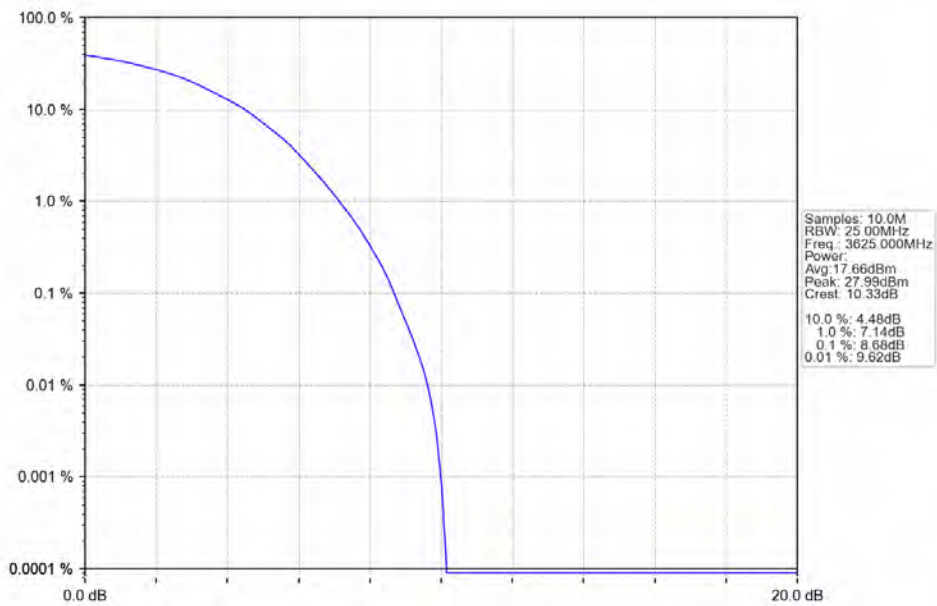
Band48 15MHz 16QAM HCH 3692.5MHz RB 75 0 NTNV



Band48\_15MHz\_64QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV

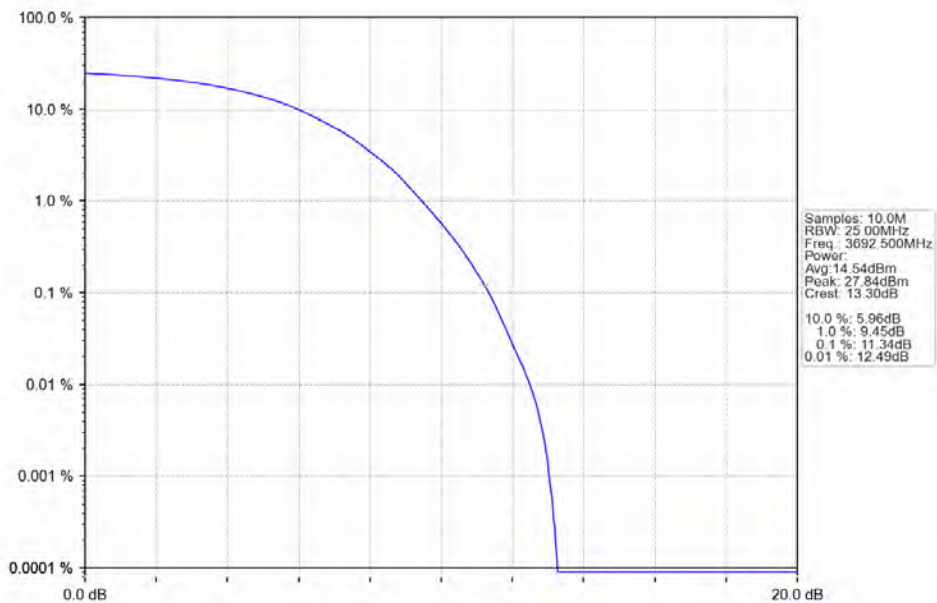


Band48\_15MHz\_64QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV



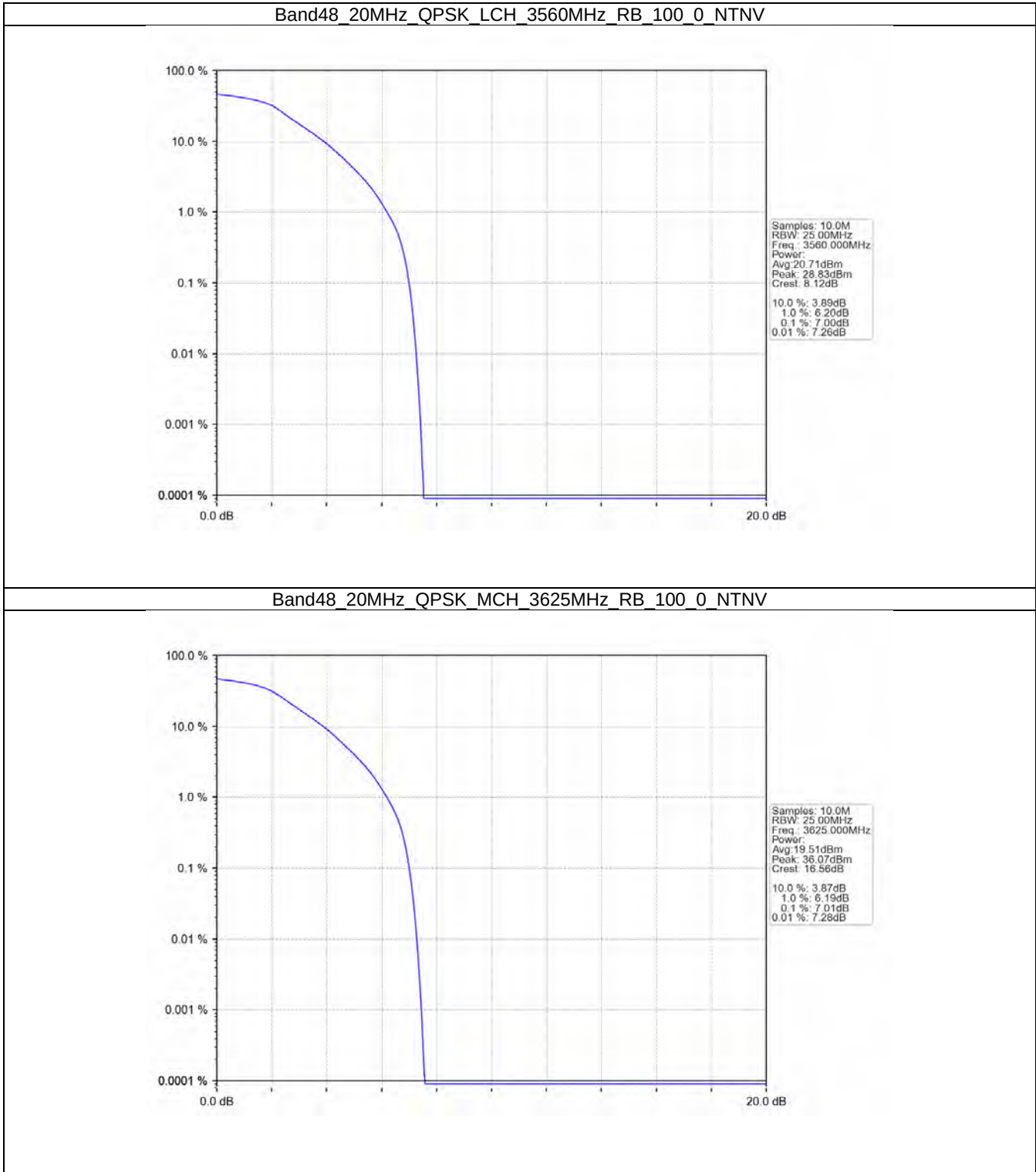


Band48 15MHz 64QAM HCH 3692.5MHz RB 75 0 NTNV

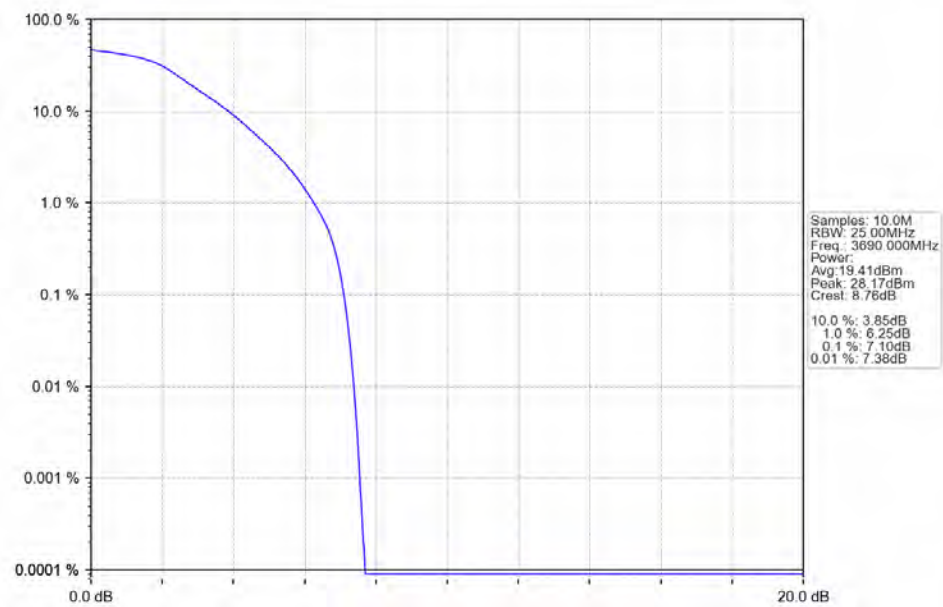


4.4 B48\_20MHz

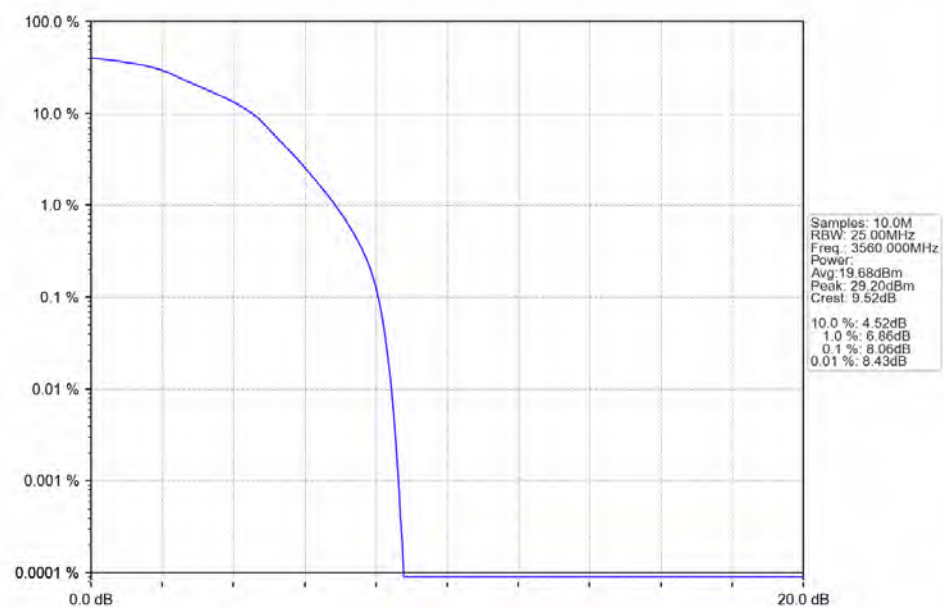
4.4.2 Test Graph



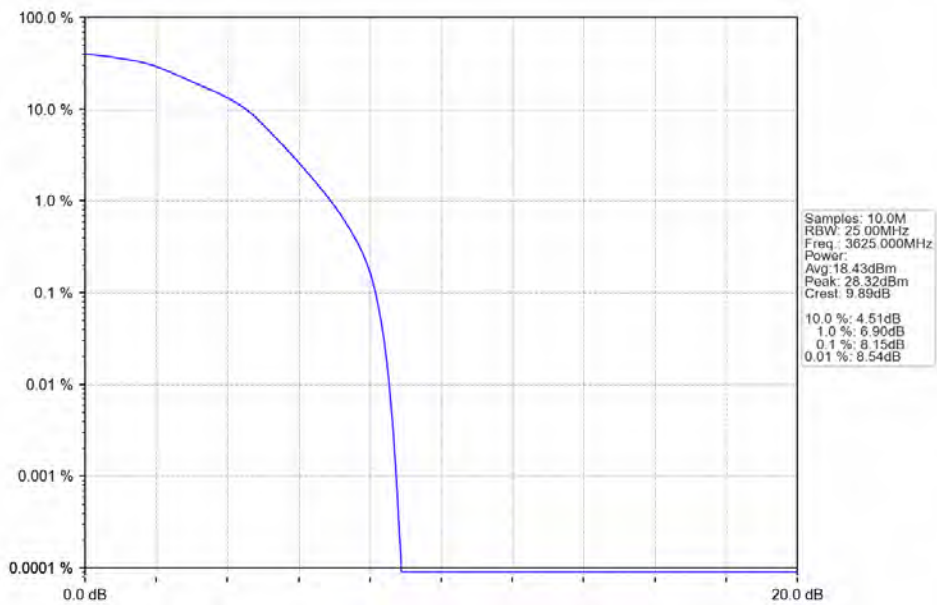
Band48 20MHz QPSK HCH 3690MHz RB 100 0 NTV



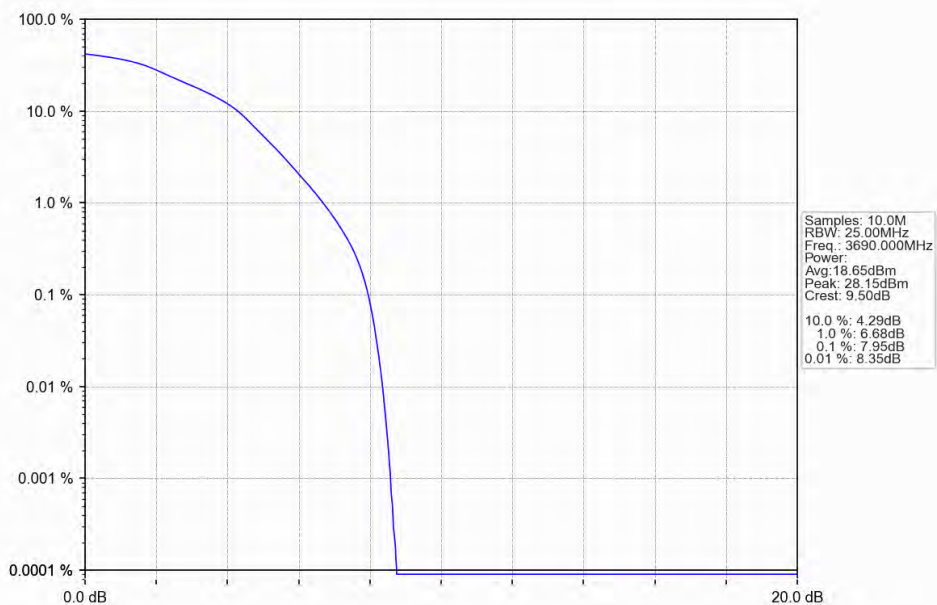
Band48 20MHz 16QAM LCH 3560MHz RB 100 0 NTV



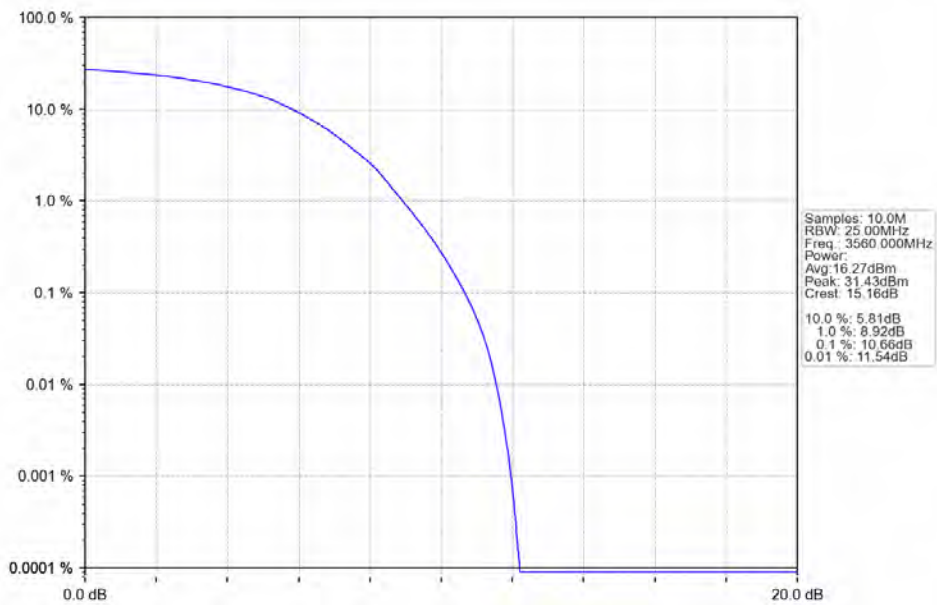
Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



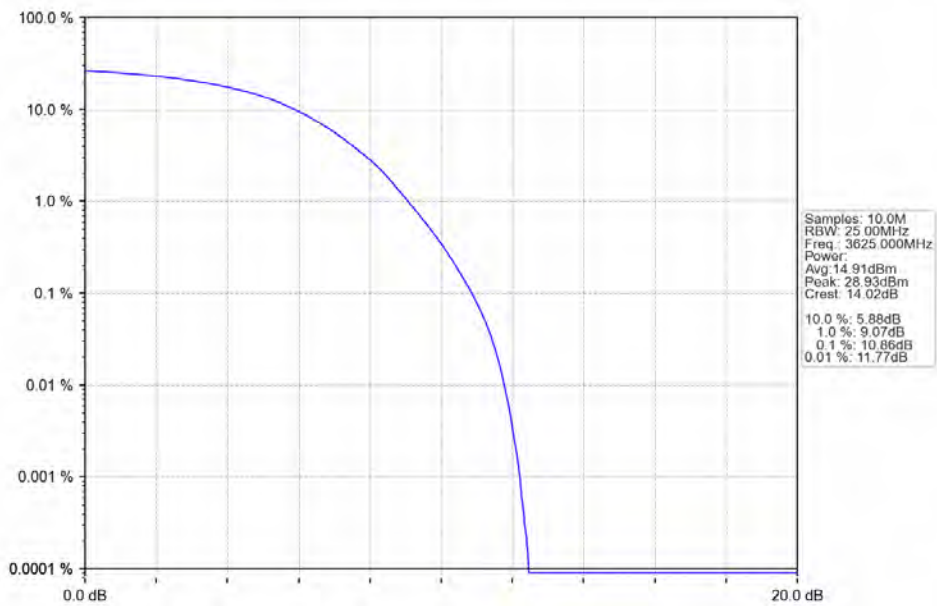
Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_64QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_64QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV







## 5. Spurious Emission

### 5.1 B48\_5MHz

#### 5.1.1 Test Result

| Band: 48 / Bandwidth: 5MHz / NTV |                 |               |        |                     |       |         |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                  |                 | Size          | Offset | Result              | Limit |         |
| QPSK                             | 3552.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                  | 3625            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  | 3697.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |

### 5.2 B48\_10MHz

#### 5.2.1 Test Result

| Band: 48 / Bandwidth: 10MHz / NTNV |                 |               |        |                     |       |         |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                    |                 | Size          | Offset | Result              | Limit |         |
| QPSK                               | 3555            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    |                 | 50            | 0      | Refer To Test Graph |       | Pass    |
|                                    | 3625            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    | 3695            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    |                 |               | 49     | Refer To Test Graph |       | Pass    |
|                                    |                 | 50            | 0      | Refer To Test Graph |       | Pass    |

### 5.3 B48\_15MHz

#### 5.3.1 Test Result

| Band: 48 / Bandwidth: 15MHz / NTNV |                 |               |        |                     |       |         |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                    |                 | Size          | Offset | Result              | Limit |         |
| QPSK                               | 3557.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    |                 | 75            | 0      | Refer To Test Graph |       | Pass    |
|                                    | 3625            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    | 3692.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    |                 |               | 74     | Refer To Test Graph |       | Pass    |
|                                    |                 | 75            | 0      | Refer To Test Graph |       | Pass    |

### 5.4 B48\_20MHz

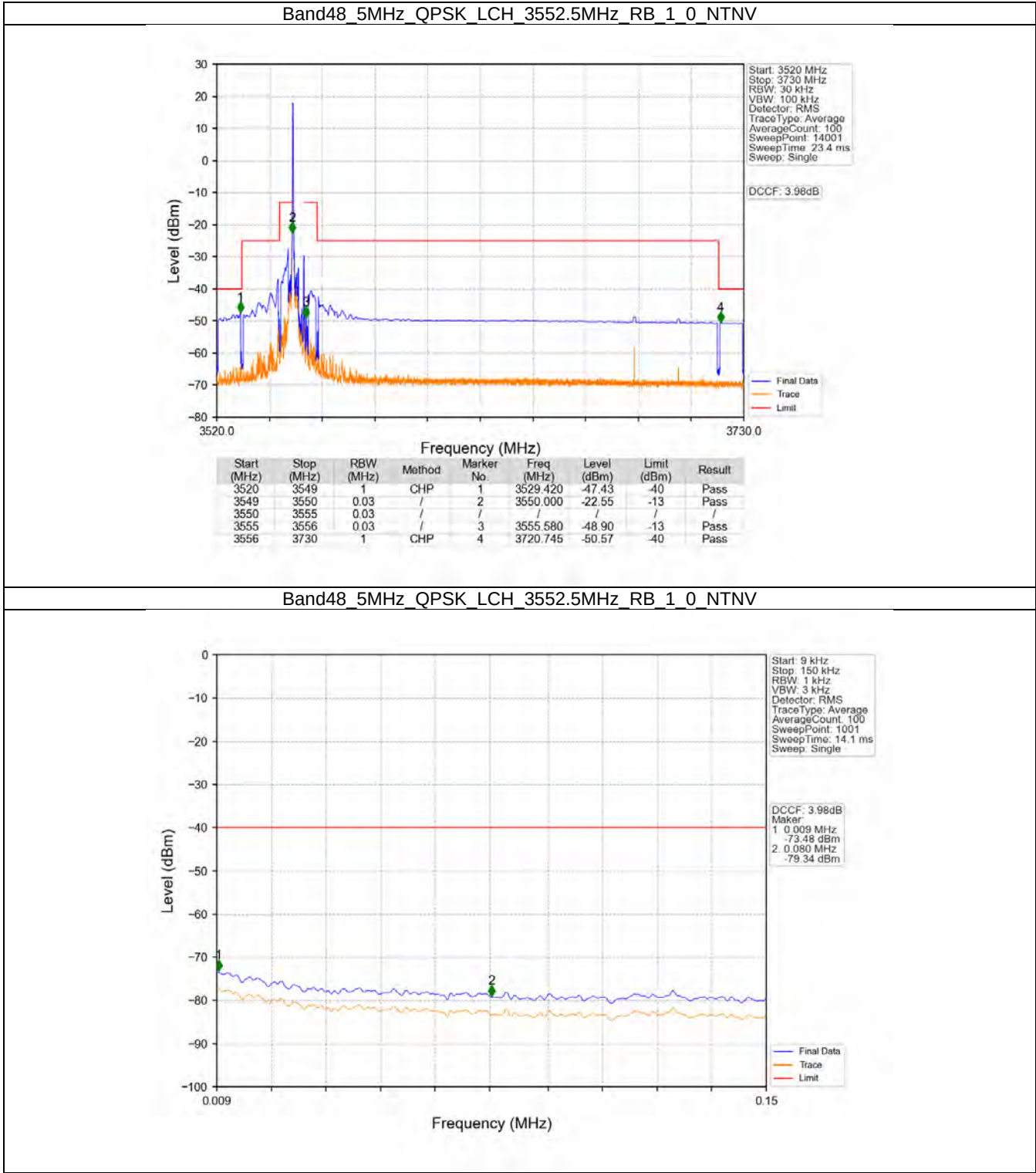
#### 5.4.1 Test Result

| Band: 48 / Bandwidth: 20MHz / NTNV |           |               |                   |         |
|------------------------------------|-----------|---------------|-------------------|---------|
| Modulation                         | Frequency | RB Allocation | Spurious Emission | Verdict |

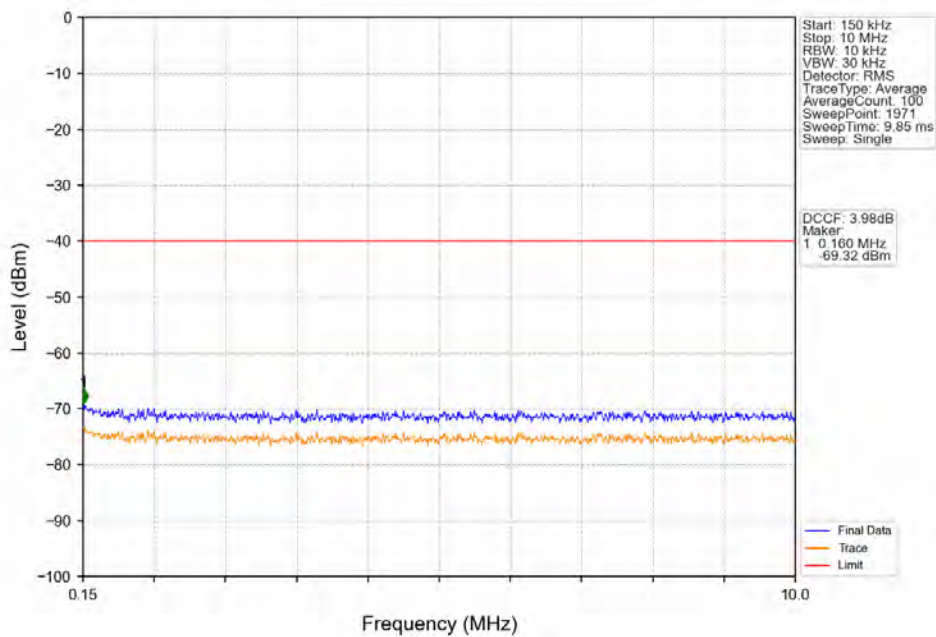
|      | (MHz) | Size | Offset | Result              | Limit |      |
|------|-------|------|--------|---------------------|-------|------|
| QPSK | 3560  | 1    | 0      | Refer To Test Graph |       | Pass |
|      |       | 100  | 0      | Refer To Test Graph |       | Pass |
|      | 3625  | 1    | 0      | Refer To Test Graph |       | Pass |
|      | 3690  | 1    | 0      | Refer To Test Graph |       | Pass |
|      |       |      | 99     | Refer To Test Graph |       | Pass |
|      |       | 100  | 0      | Refer To Test Graph |       | Pass |

5.1 B48\_5MHz

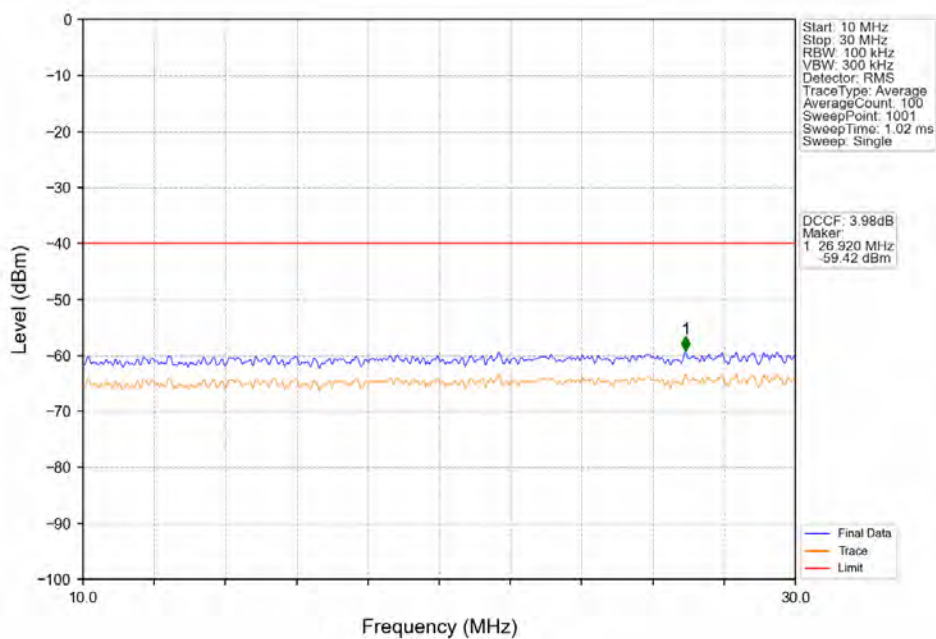
5.1.2 Test Graph



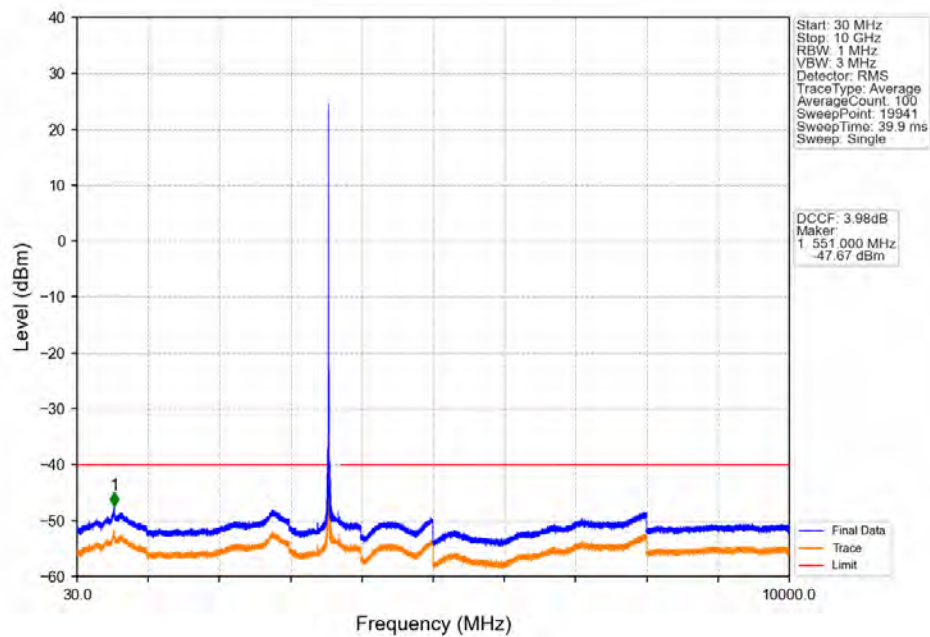
Band48\_5MHz\_QPSK\_LCH\_3552.5MHz\_RB\_1\_0\_NTNV



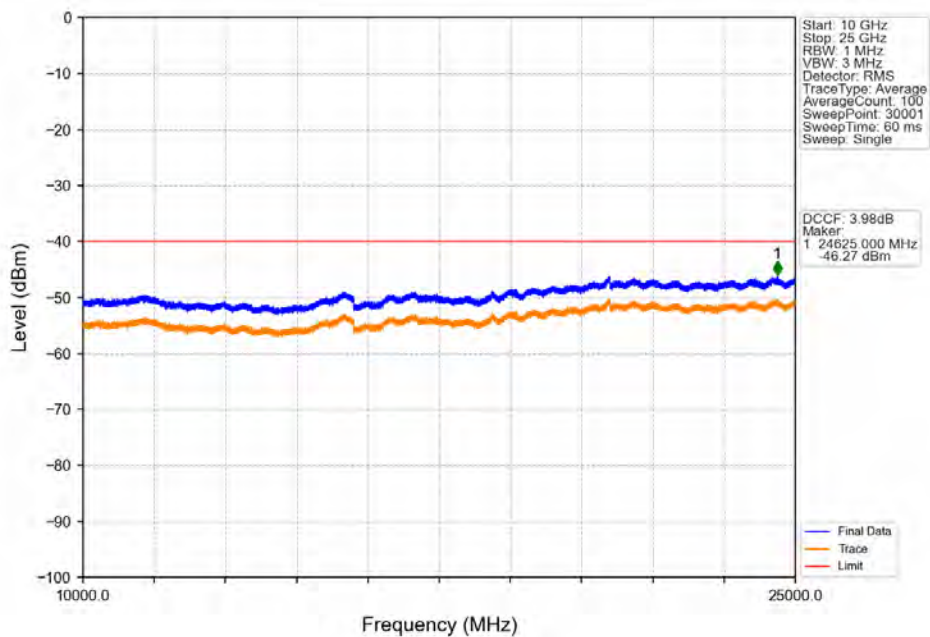
Band48\_5MHz\_QPSK\_LCH\_3552.5MHz\_RB\_1\_0\_NTNV



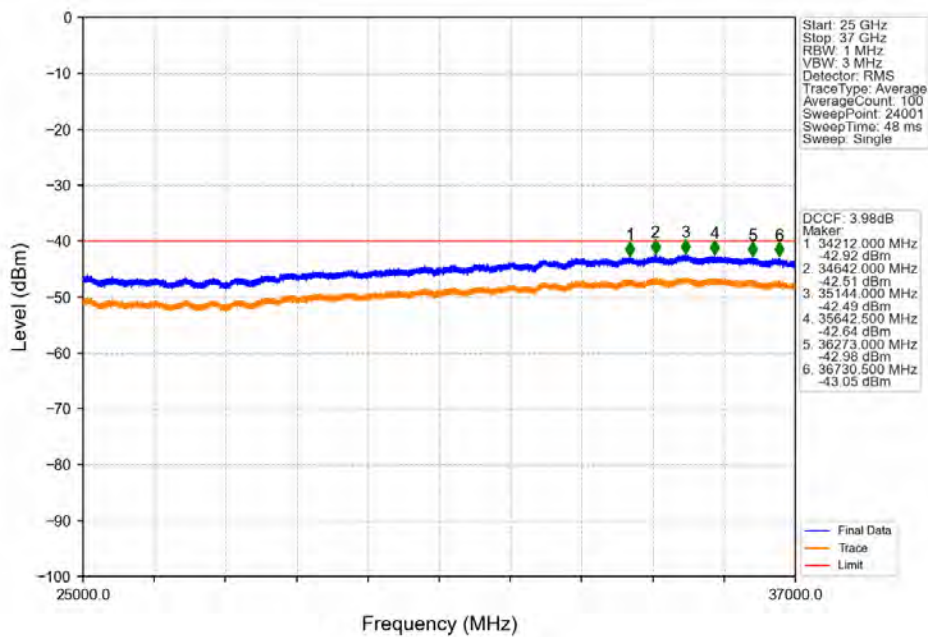
Band48\_5MHz\_QPSK\_LCH\_3552.5MHz\_RB\_1\_0\_NTNV



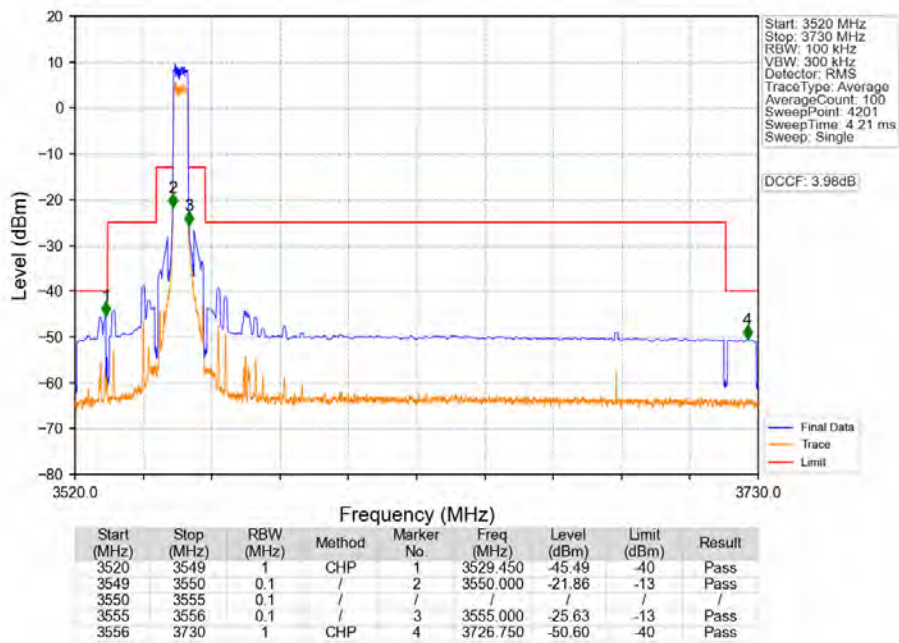
Band48\_5MHz\_QPSK\_LCH\_3552.5MHz\_RB\_1\_0\_NTNV



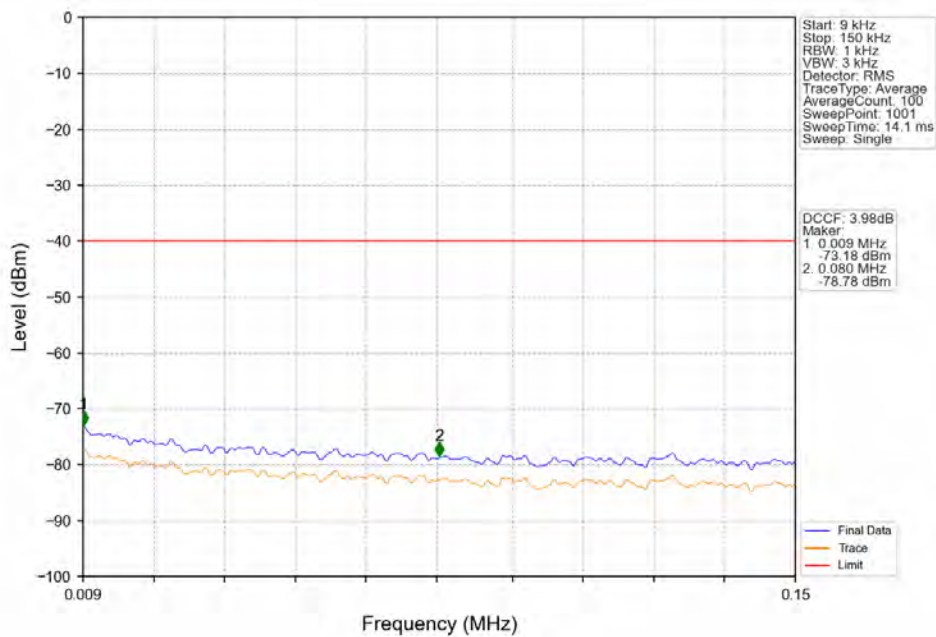
Band48 5MHz QPSK LCH 3552.5MHz RB 1 0 NTNV



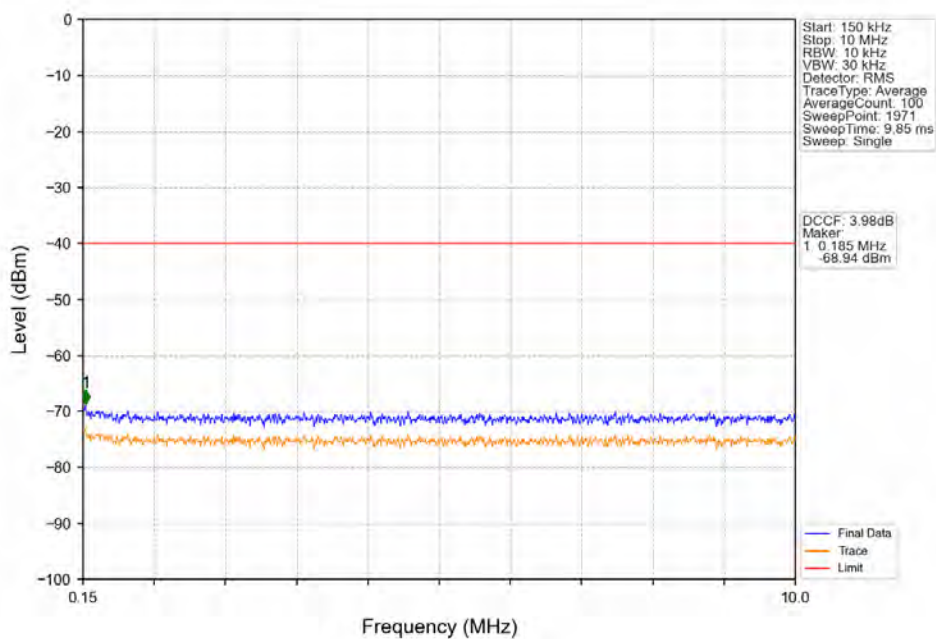
Band48\_5MHz\_QPSK\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



Band48 5MHz QPSK MCH 3625MHz RB 1 0 NTNV

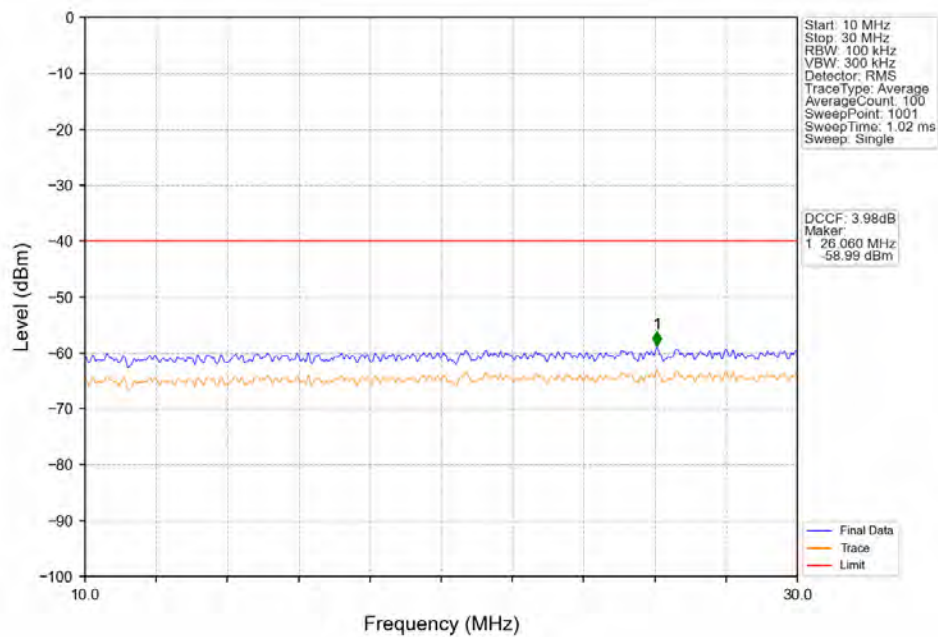


Band48 5MHz QPSK MCH 3625MHz RB 1 0 NTNV

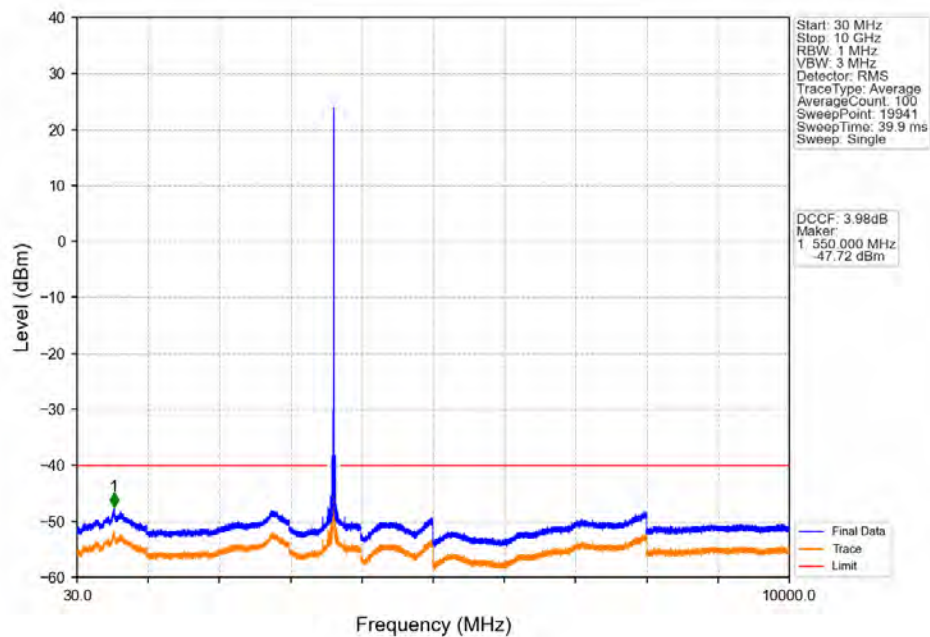




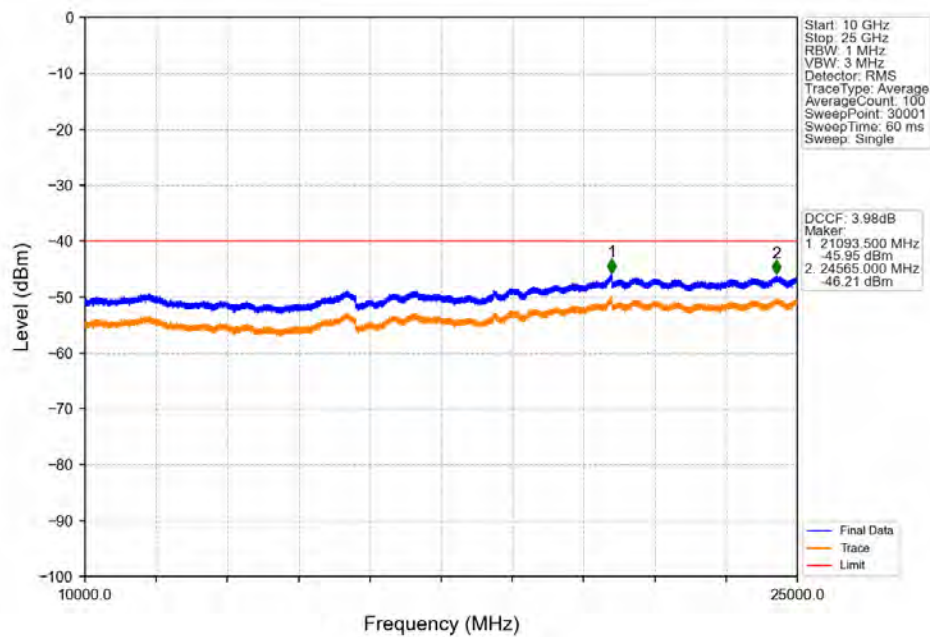
Band48 5MHz QPSK MCH 3625MHz RB 1 0 NTN



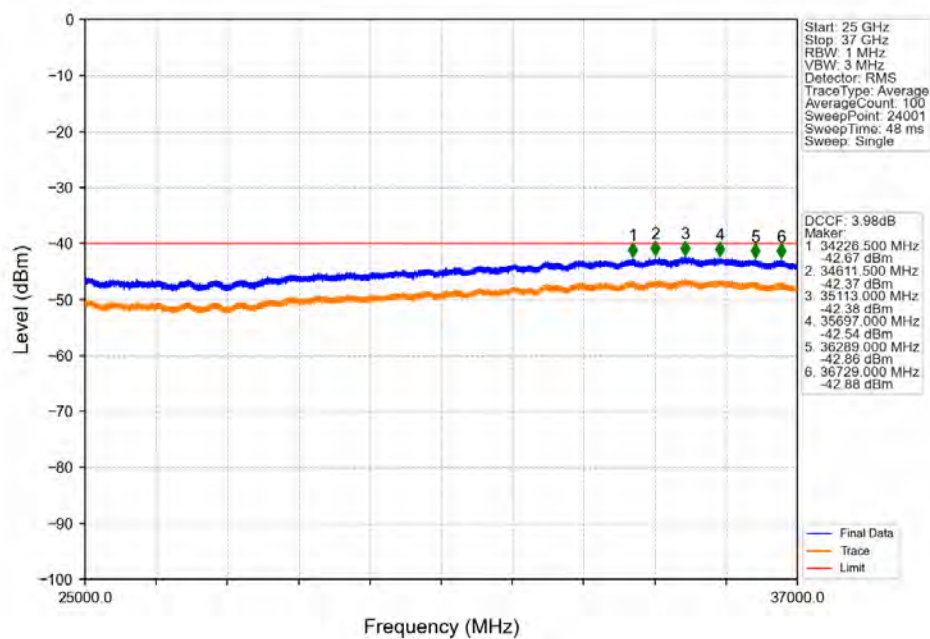
Band48 5MHz QPSK MCH 3625MHz RB 1 0 NTN



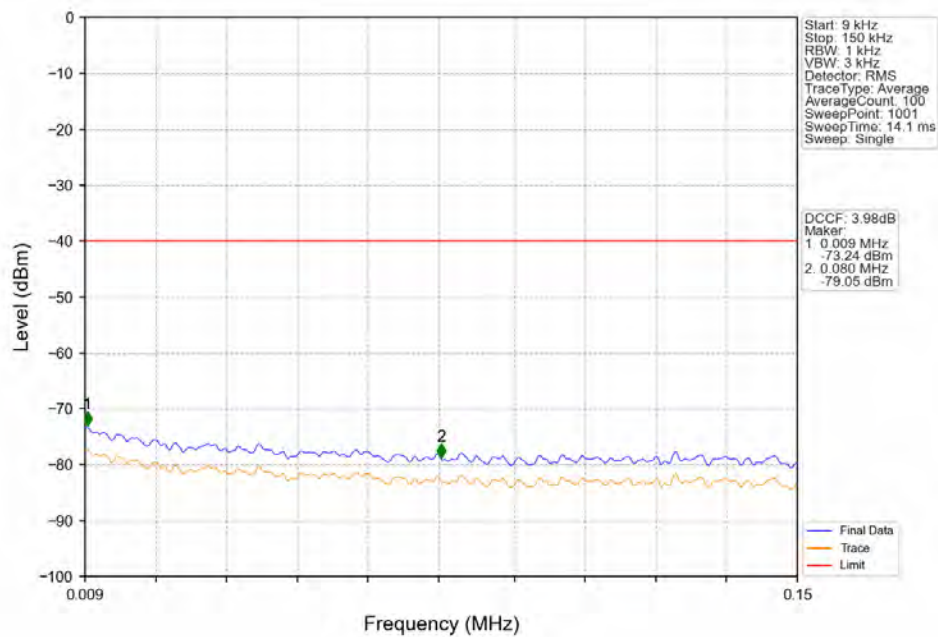
Band48 5MHz QPSK MCH 3625MHz RB 1 0 NTN



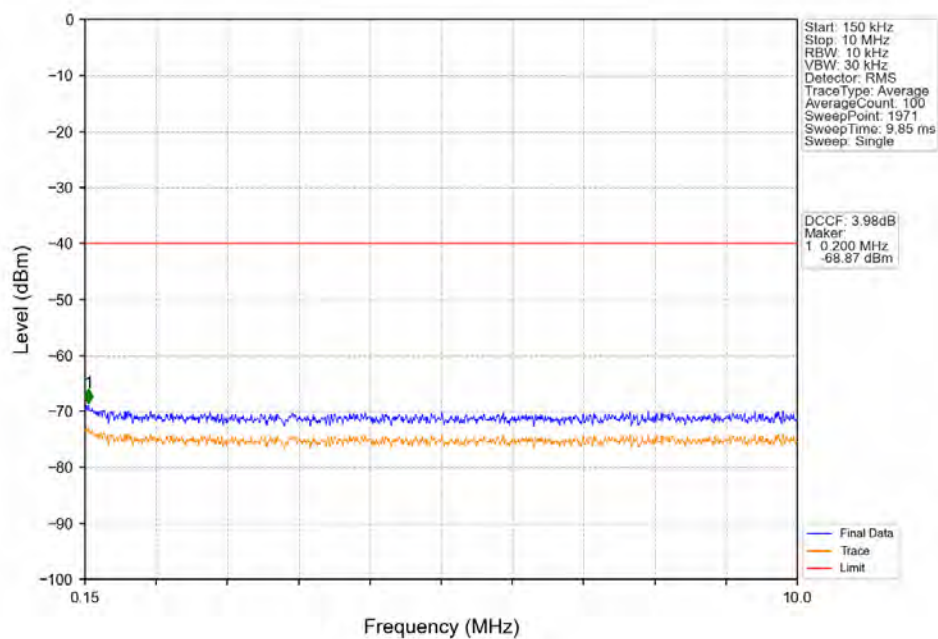
Band48 5MHz QPSK MCH 3625MHz RB 1 0 NTN



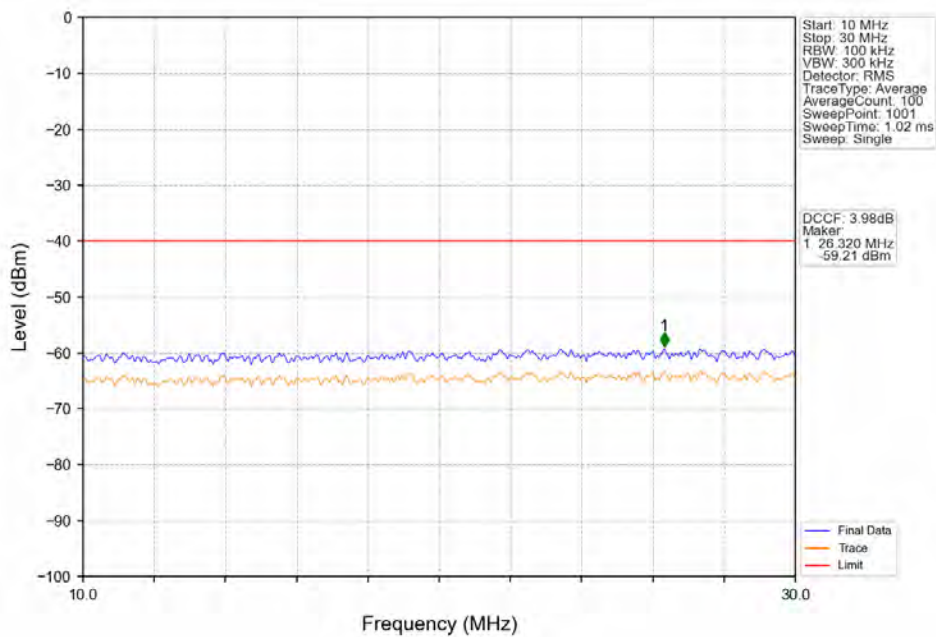
Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_1\_0\_NTNV



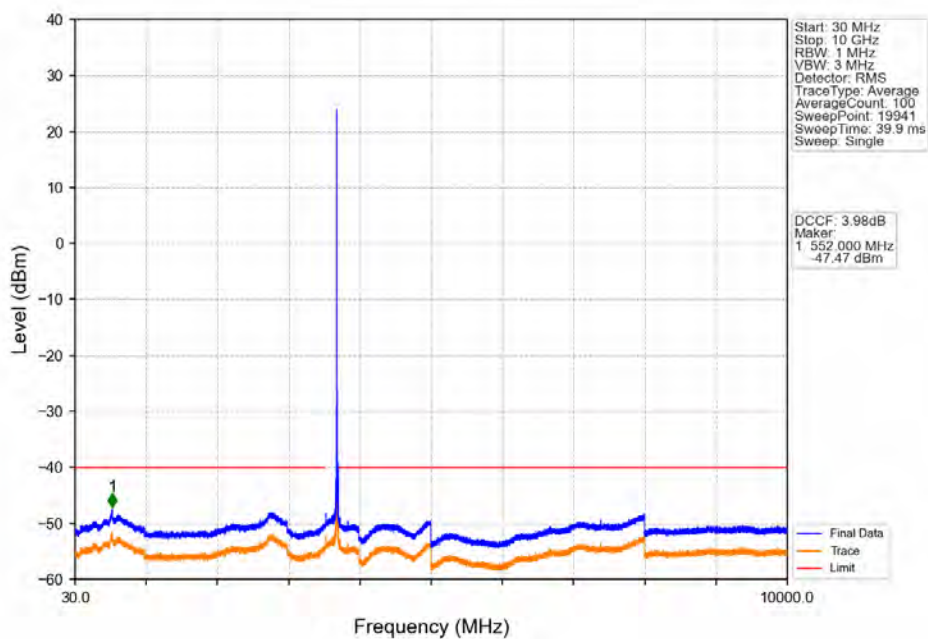
Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_1\_0\_NTNV



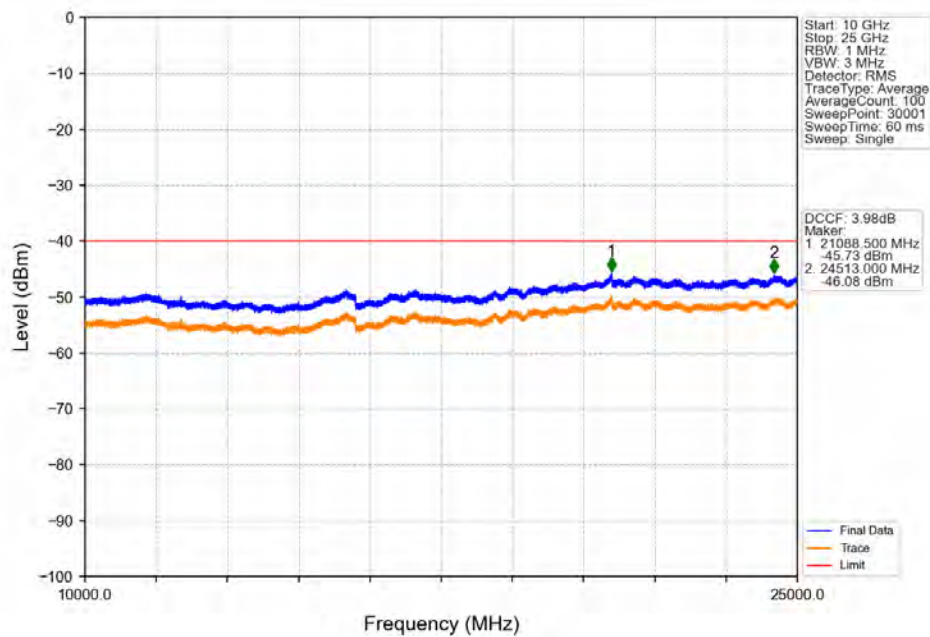
Band48 5MHz QPSK HCH 3697.5MHz RB 1 0 NTV



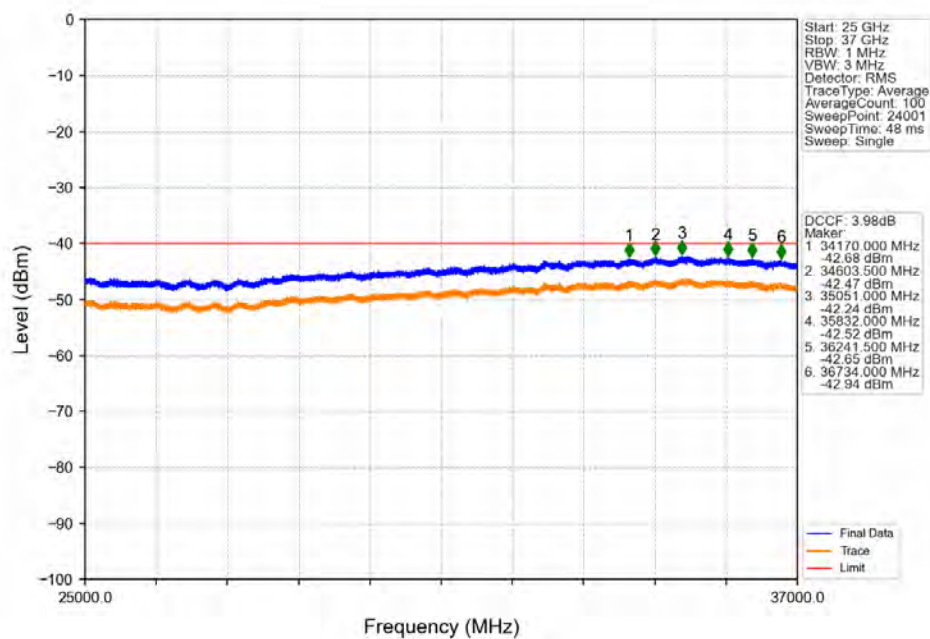
Band48 5MHz QPSK HCH 3697.5MHz RB 1 0 NTV



Band48 5MHz QPSK HCH 3697.5MHz RB 1 0 NTNV

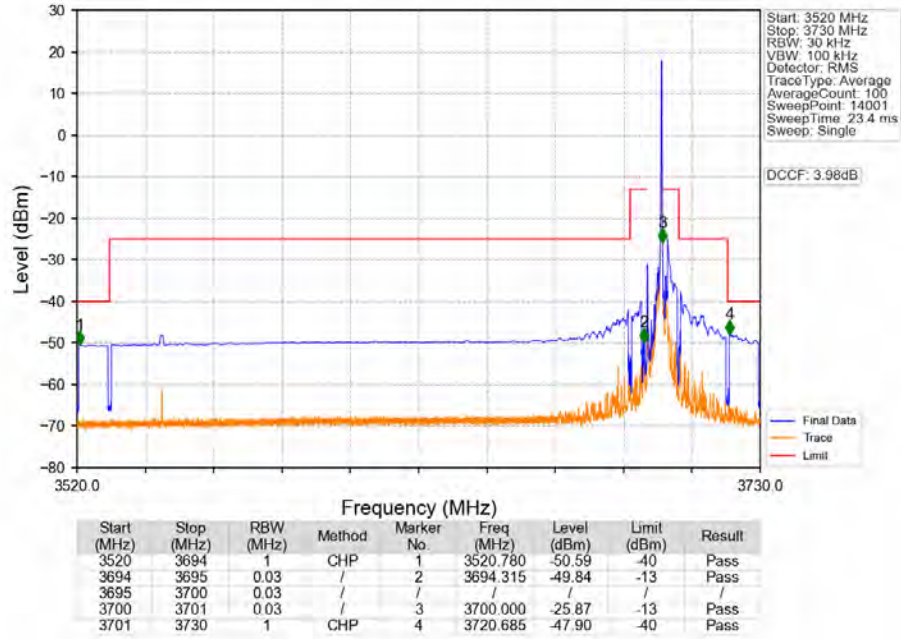


Band48 5MHz QPSK HCH 3697.5MHz RB 1 0 NTNV

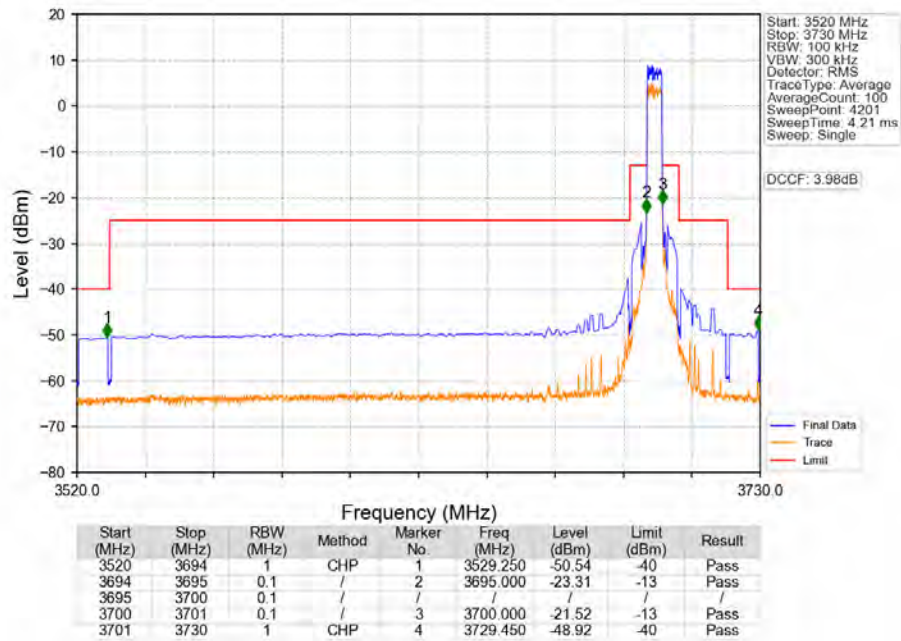




## Band48 5MHz QPSK HCH 3697.5MHz RB 1 24 NTNV

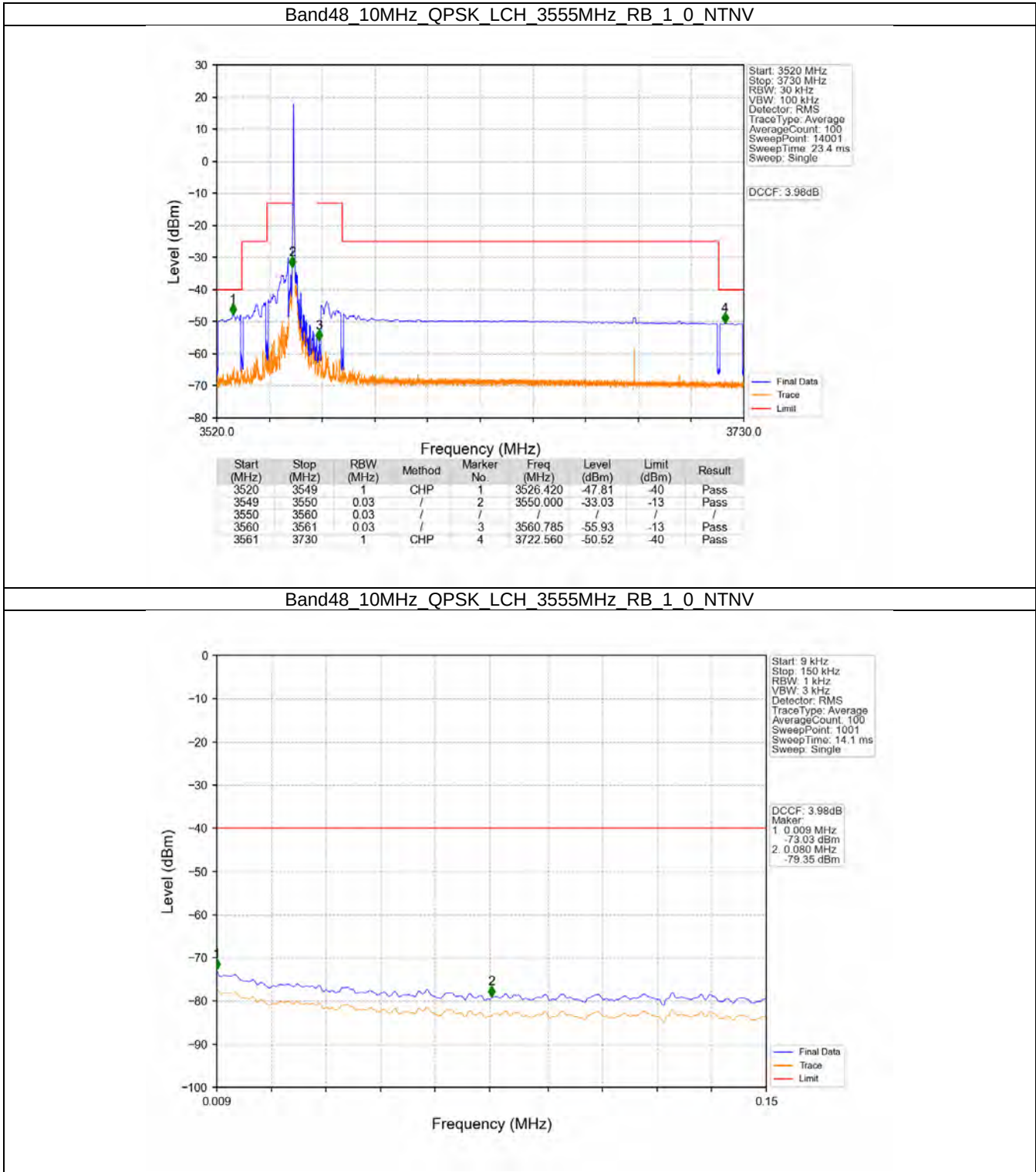


## Band48 5MHz QPSK HCH 3697.5MHz RB 25 0 NTNV



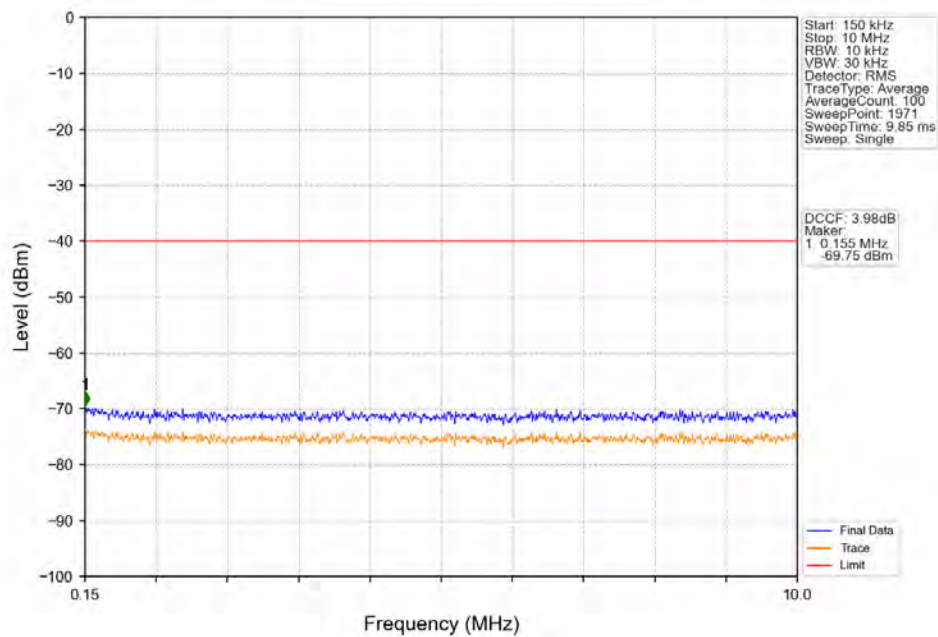
5.2 B48\_10MHz

5.2.2 Test Graph

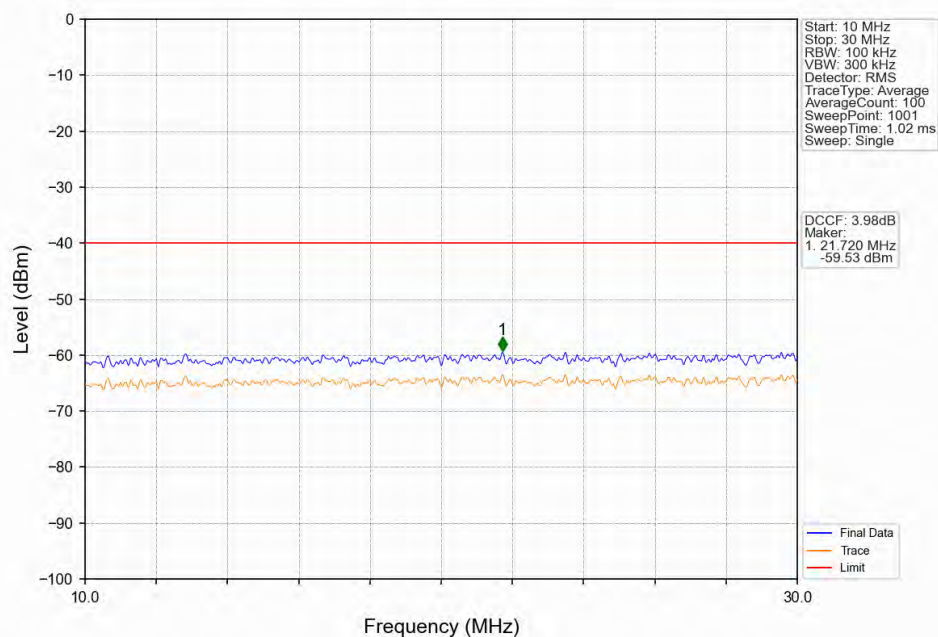




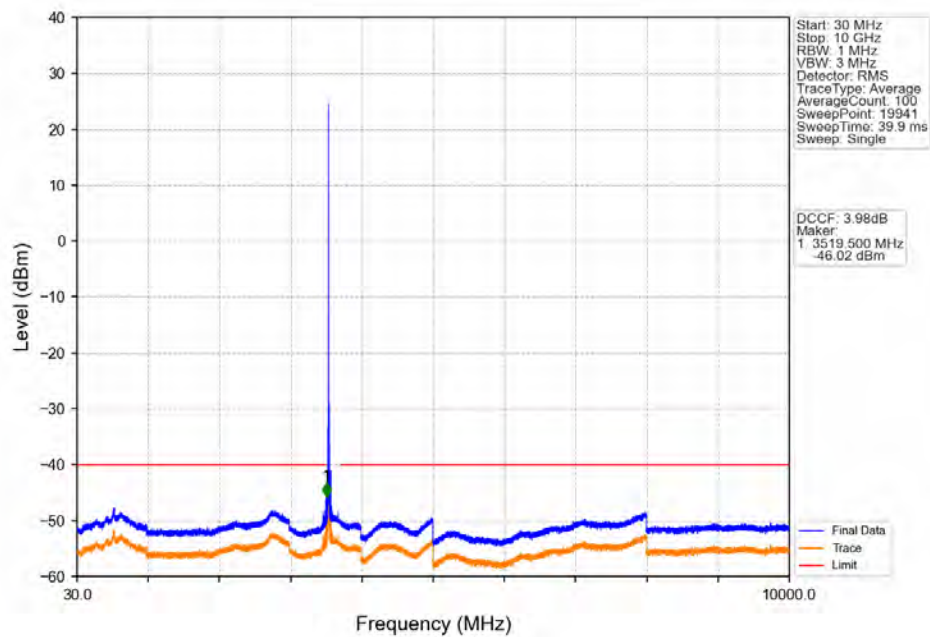
Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_1\_0\_NTNV



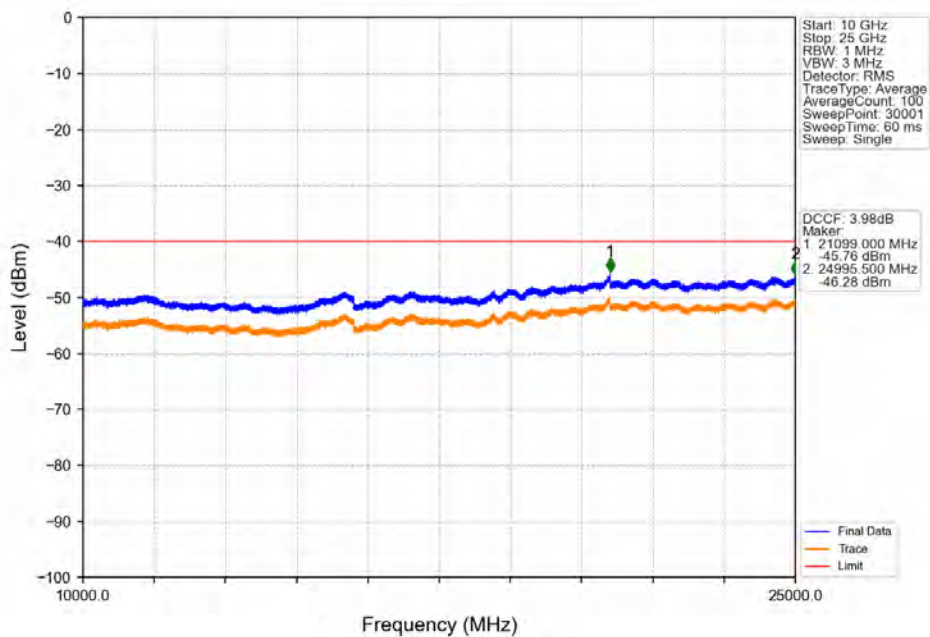
Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_1\_0\_NTNV



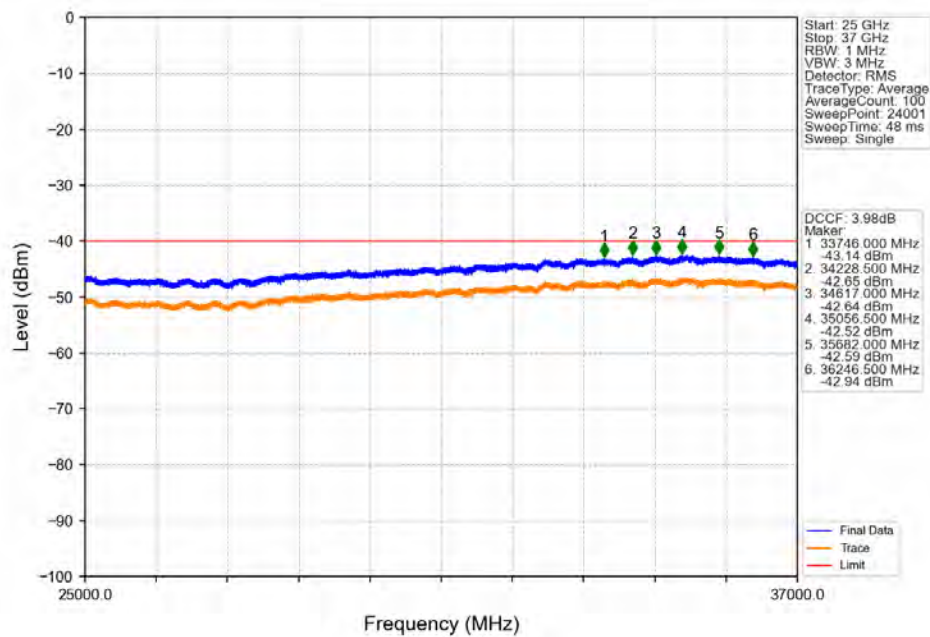
Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_1\_0\_NTNV



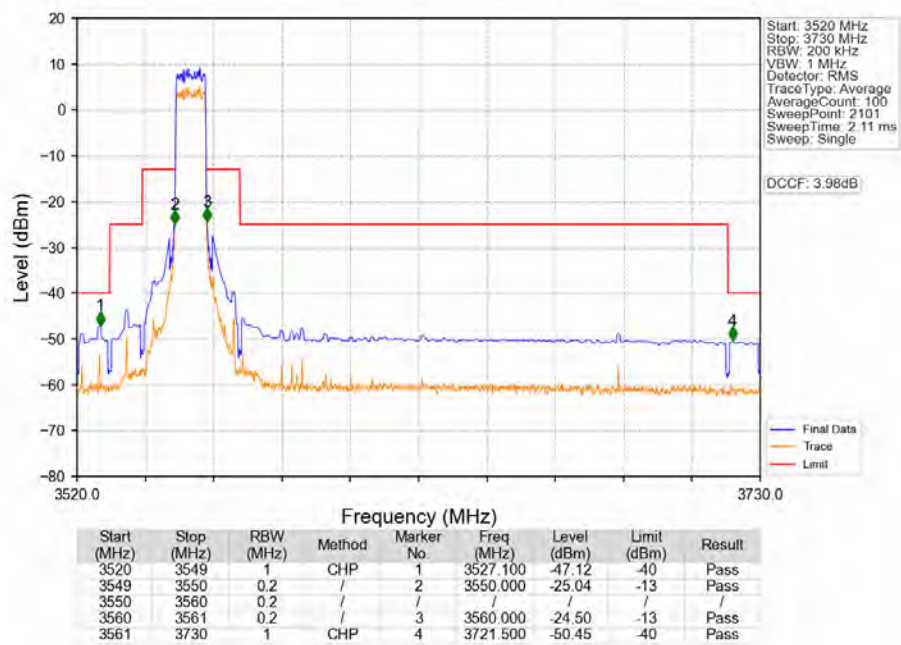
Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_1\_0\_NTNV



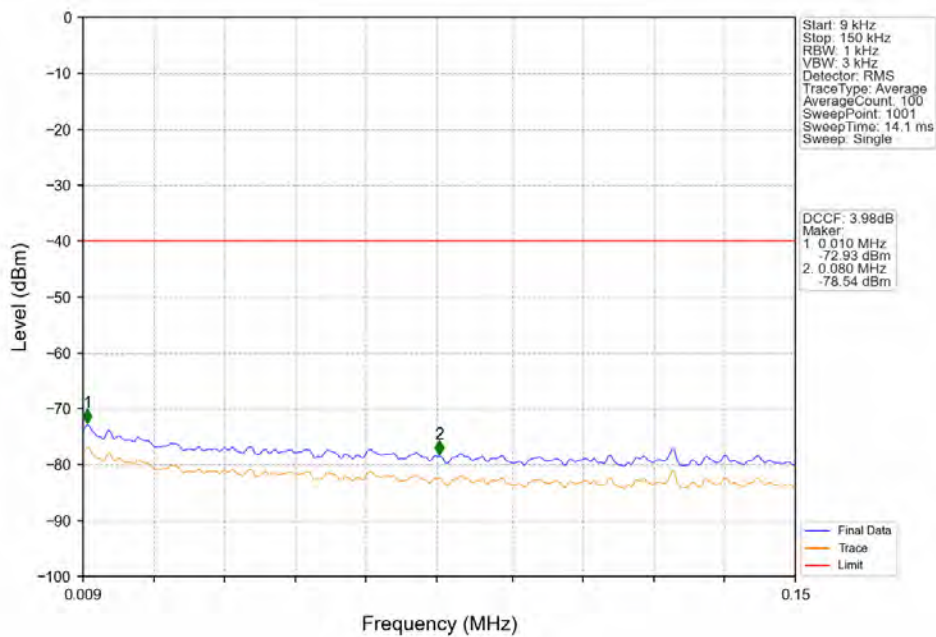
Band48 10MHz QPSK LCH 3555MHz RB 1 0 NTN



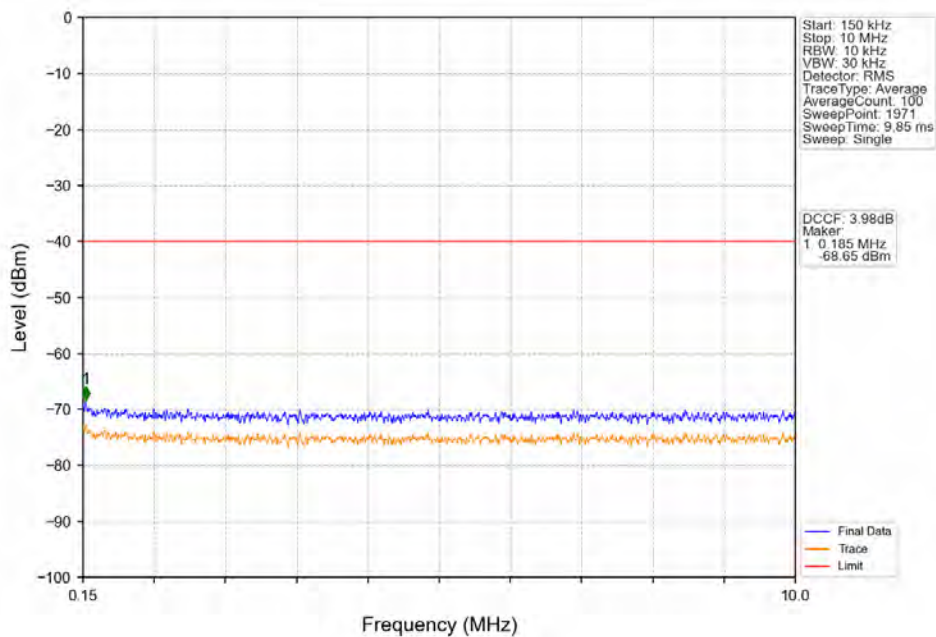
Band48 10MHz QPSK LCH 3555MHz RB 50 0 NTN



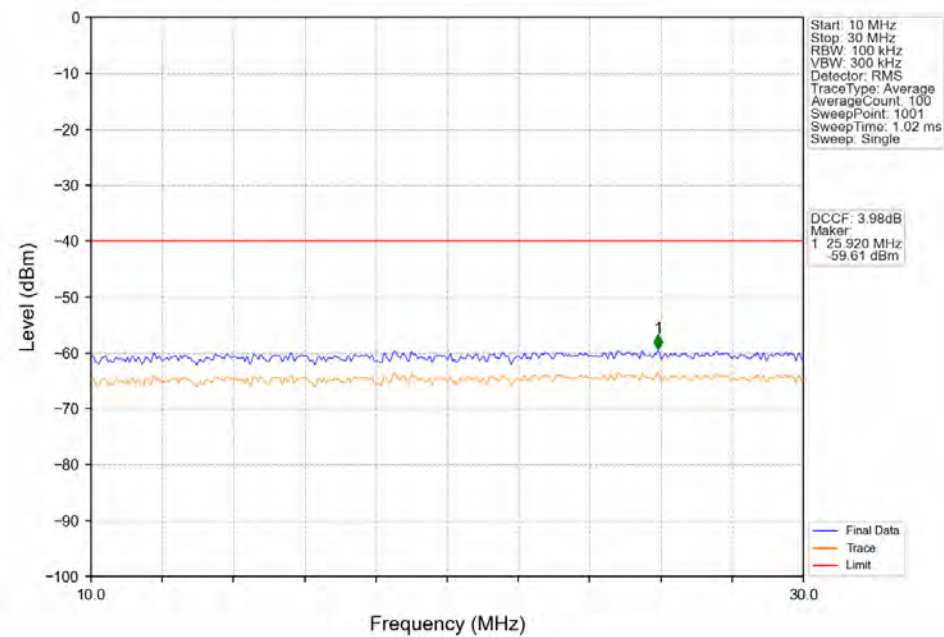
Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



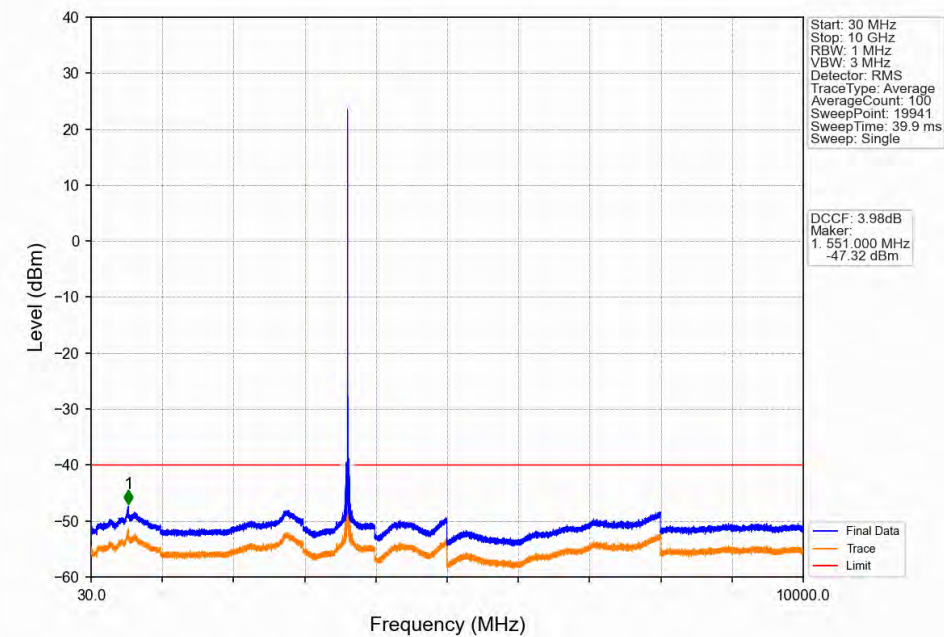
Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

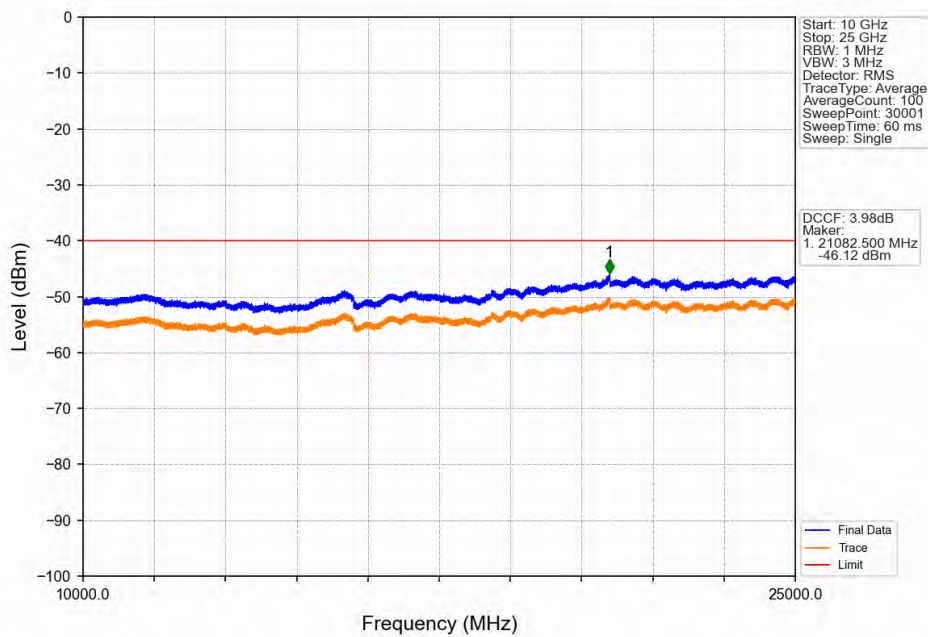


Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

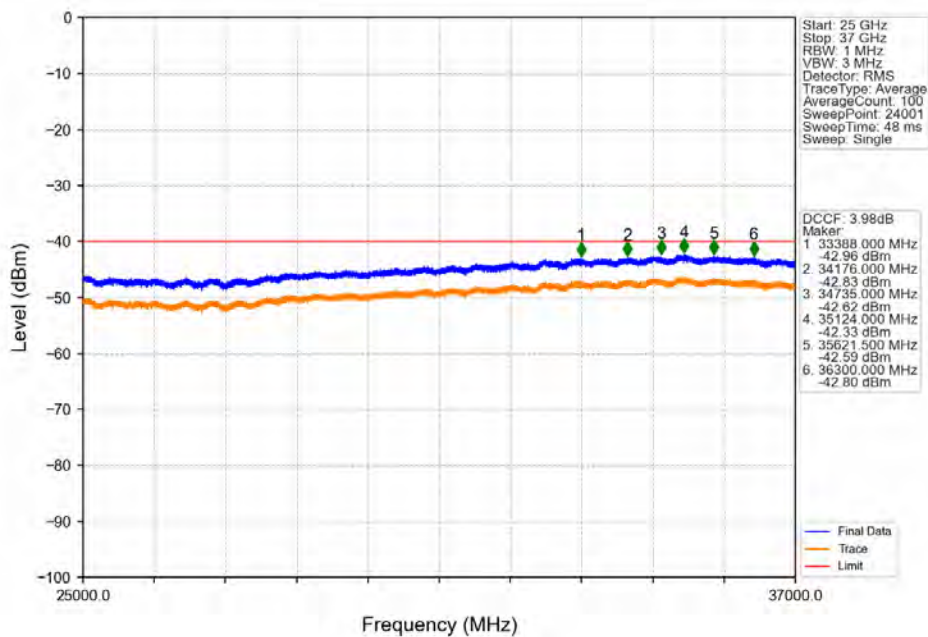




Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

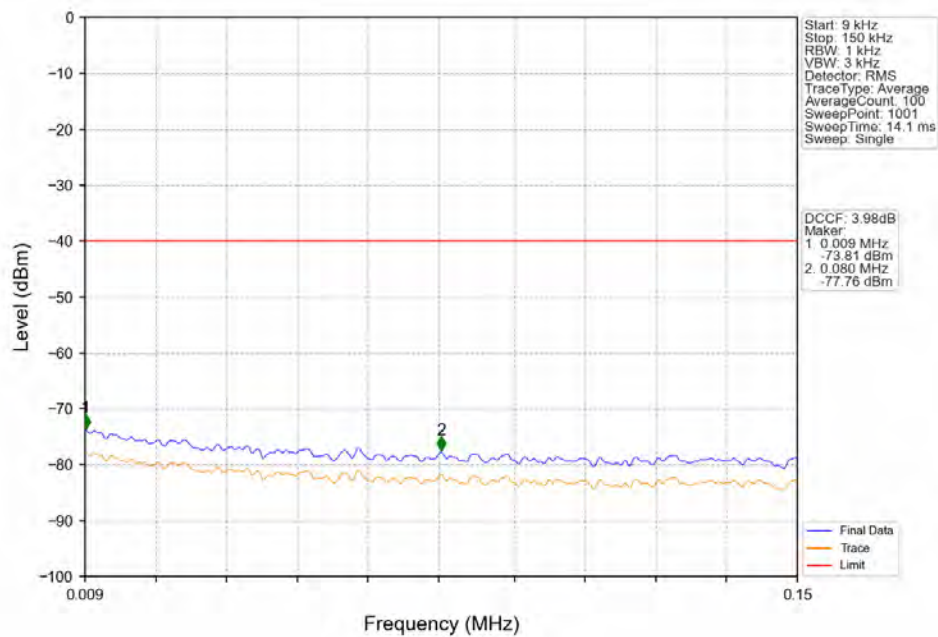


Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

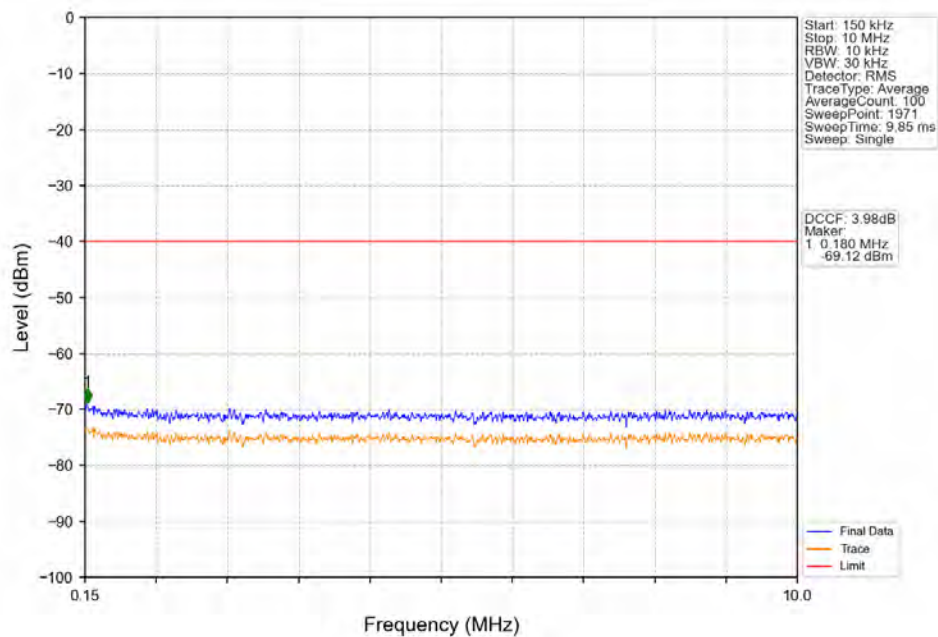




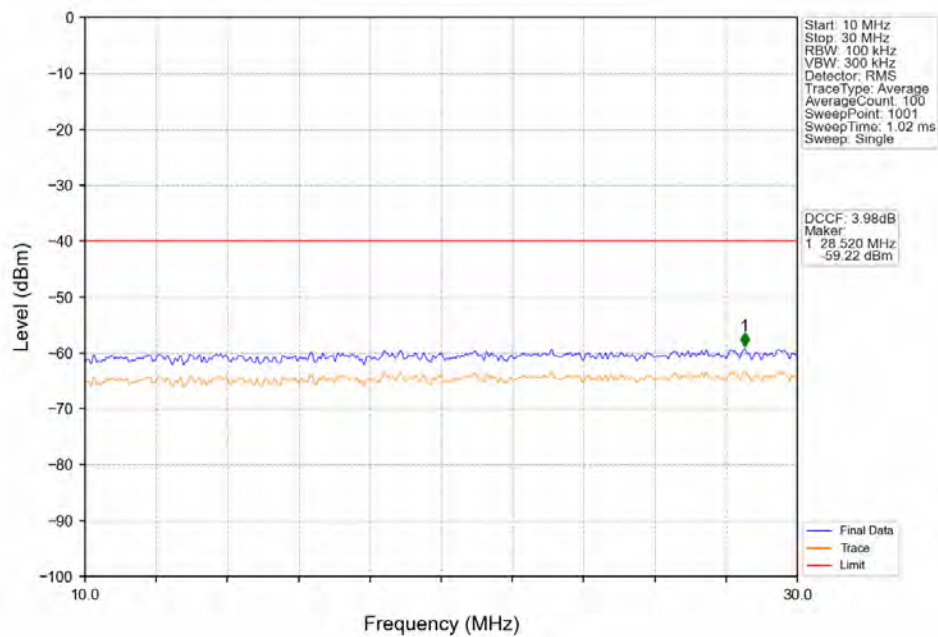
Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_1\_0\_NTNV



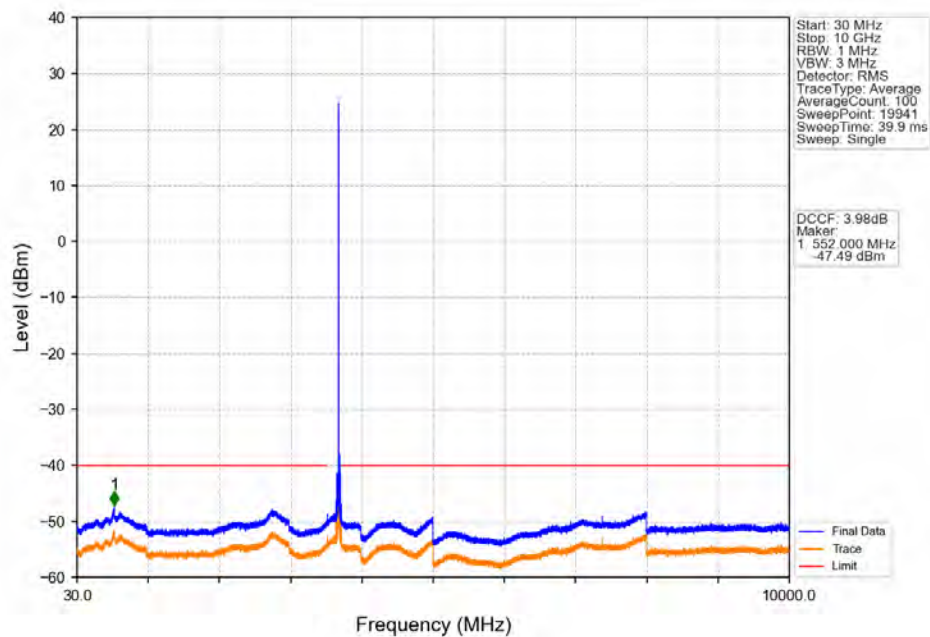
Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_1\_0\_NTNV



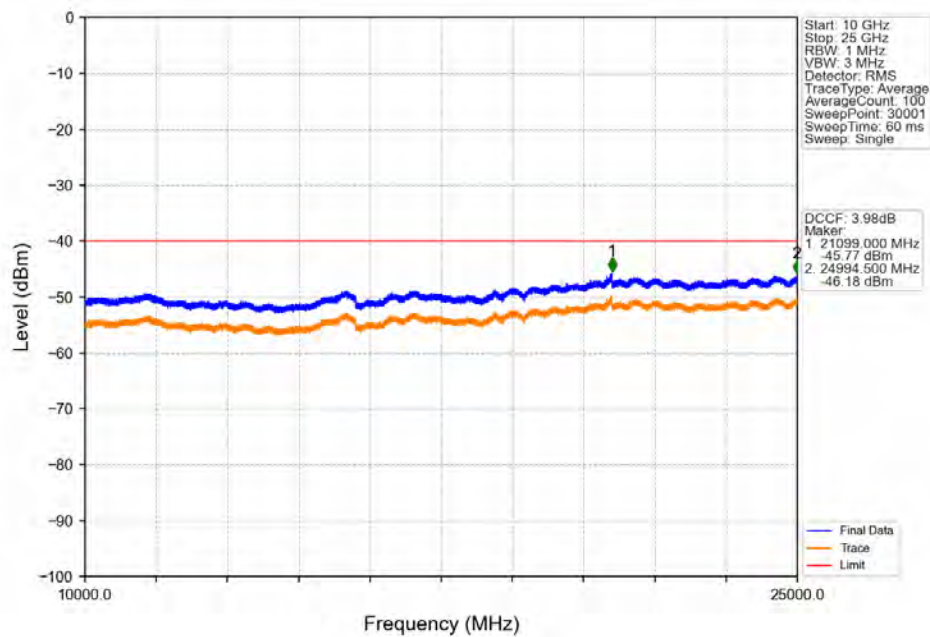
Band48 10MHz QPSK HCH 3695MHz RB 1 0 NTNV



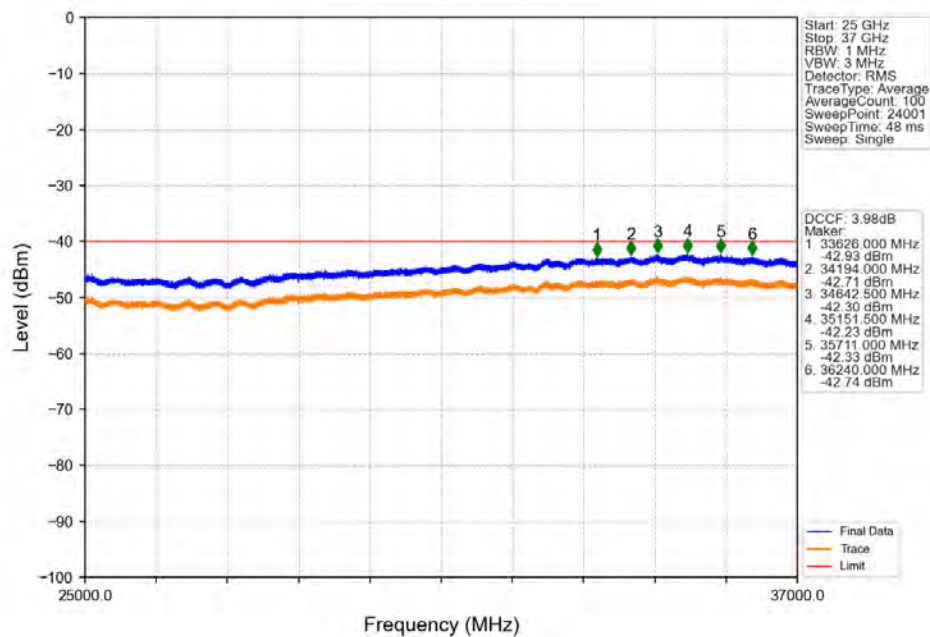
Band48 10MHz QPSK HCH 3695MHz RB 1 0 NTNV



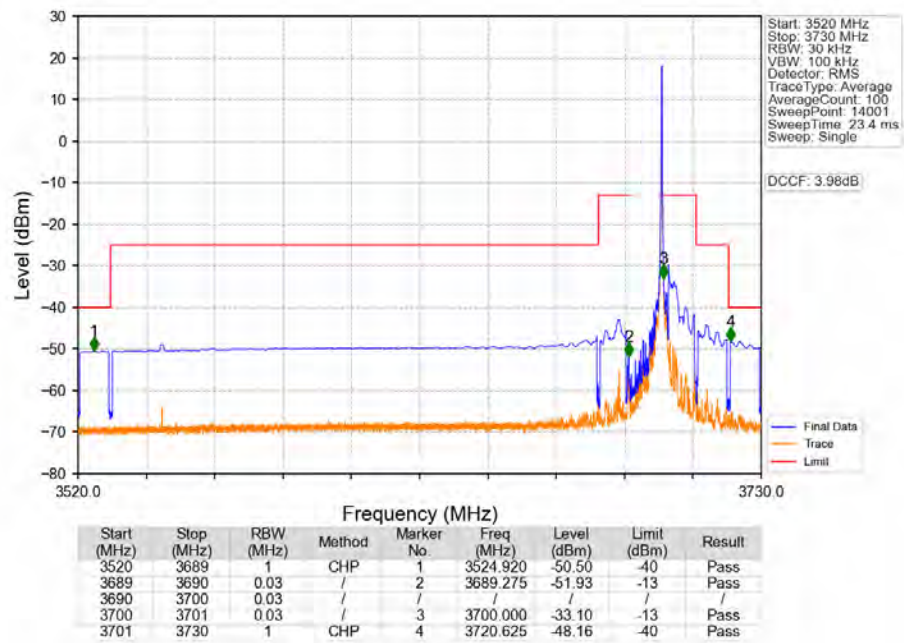
Band48 10MHz QPSK HCH 3695MHz RB 1 0 NTNV



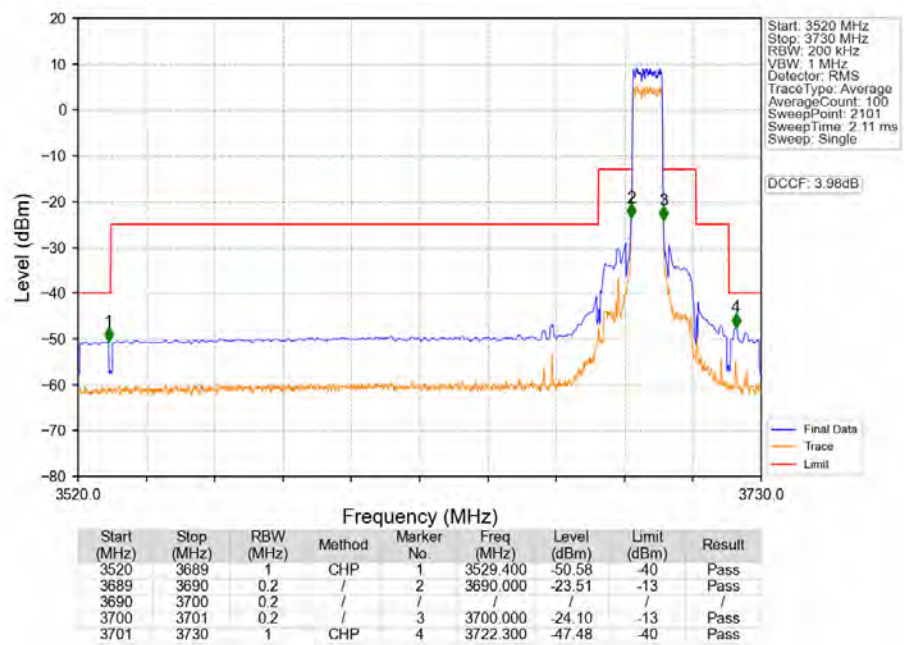
Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_1\_0 NTNV



Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_1\_49\_NTNV

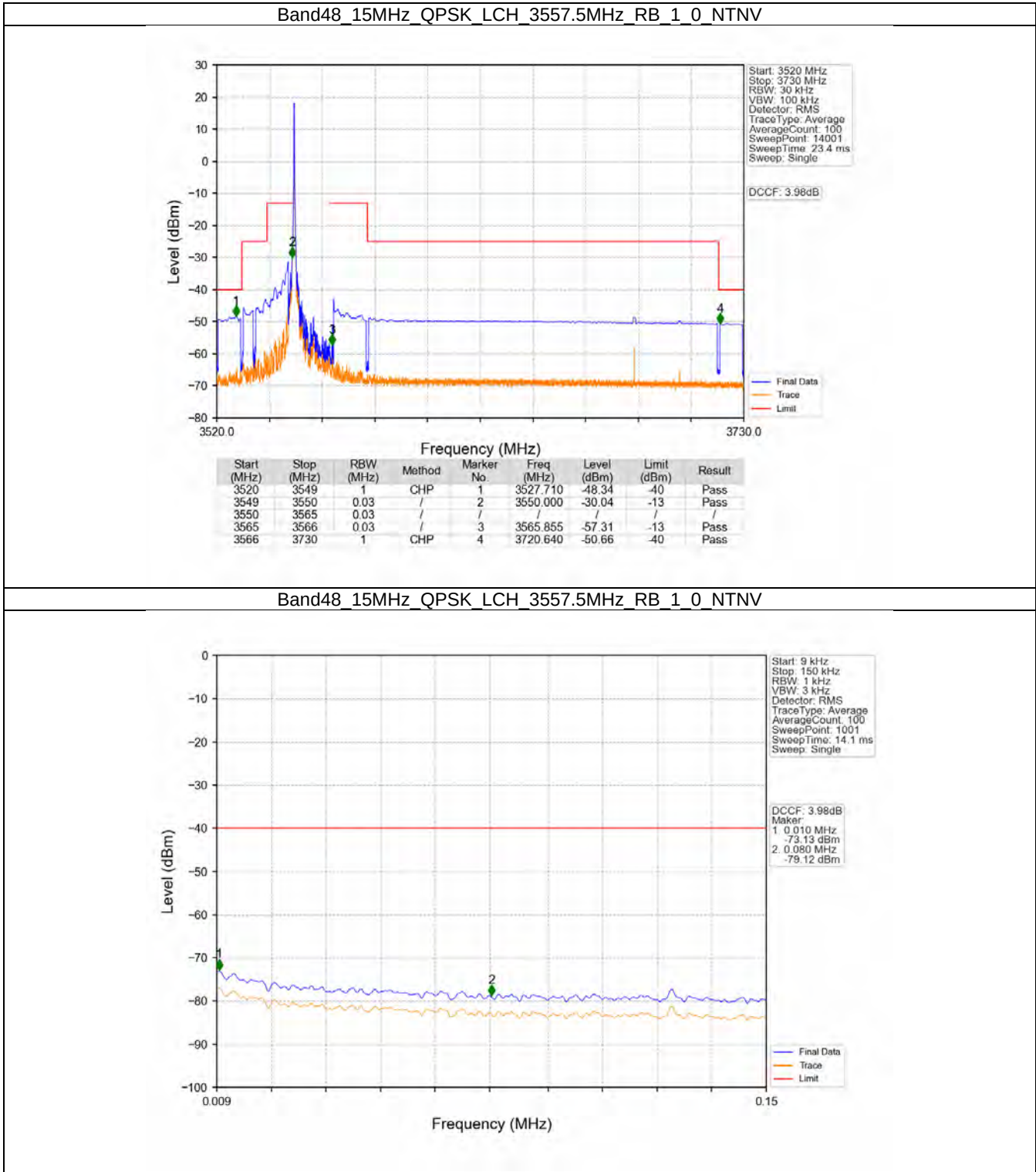


Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV



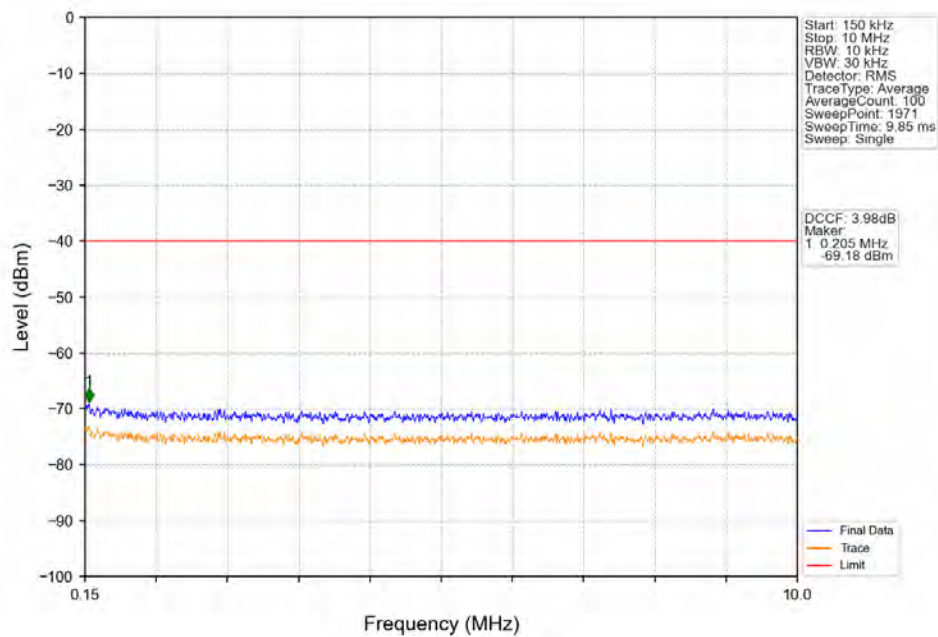
5.3 B48\_15MHz

5.3.2 Test Graph

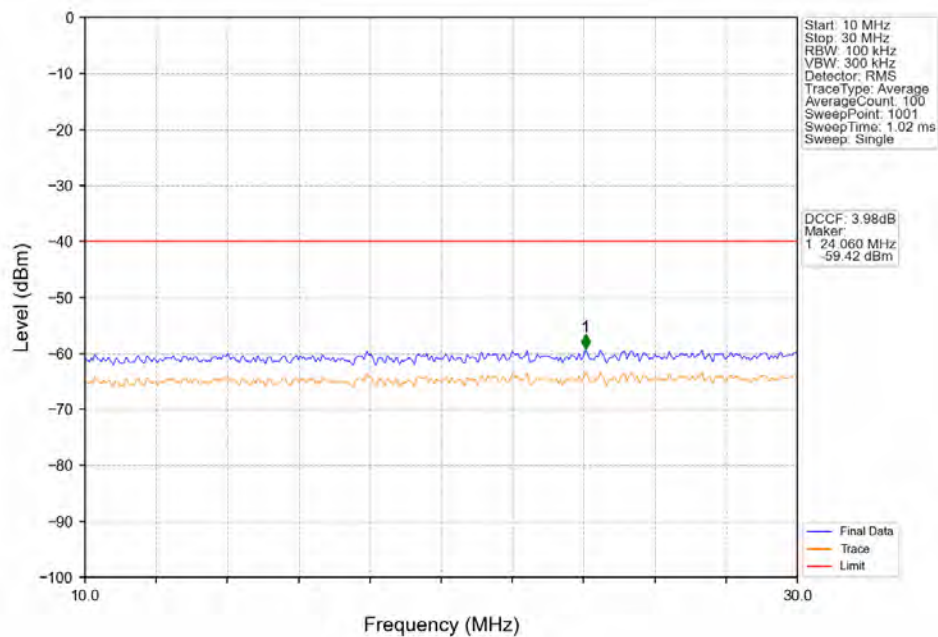




Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_1\_0\_NTNV

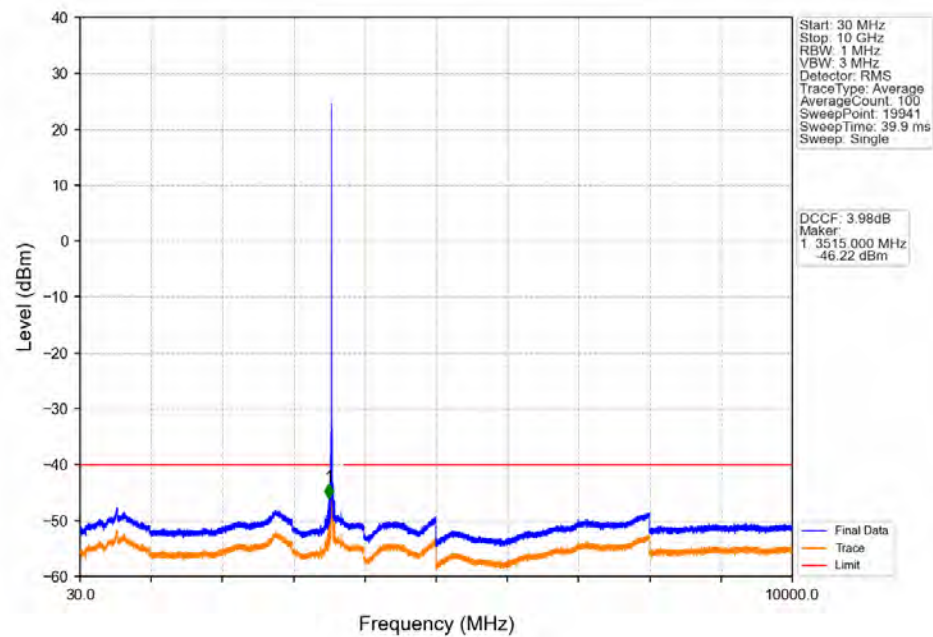


Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_1\_0\_NTNV

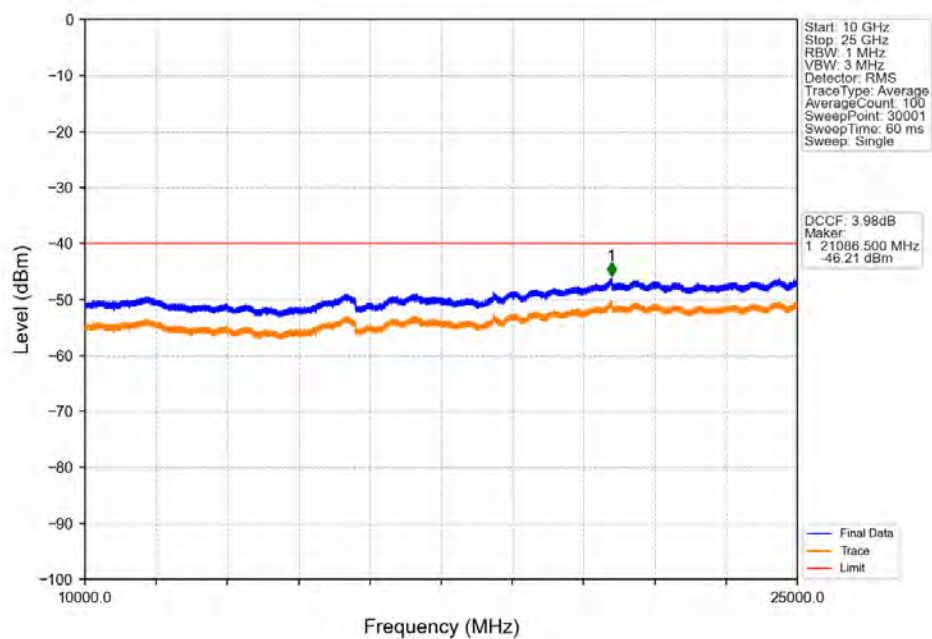




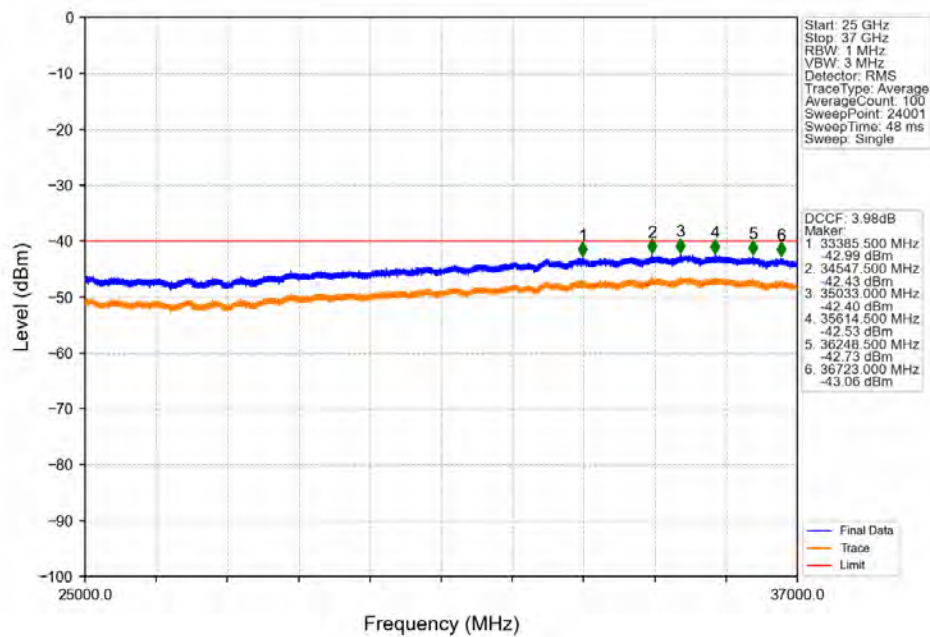
Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_1\_0\_NTNV



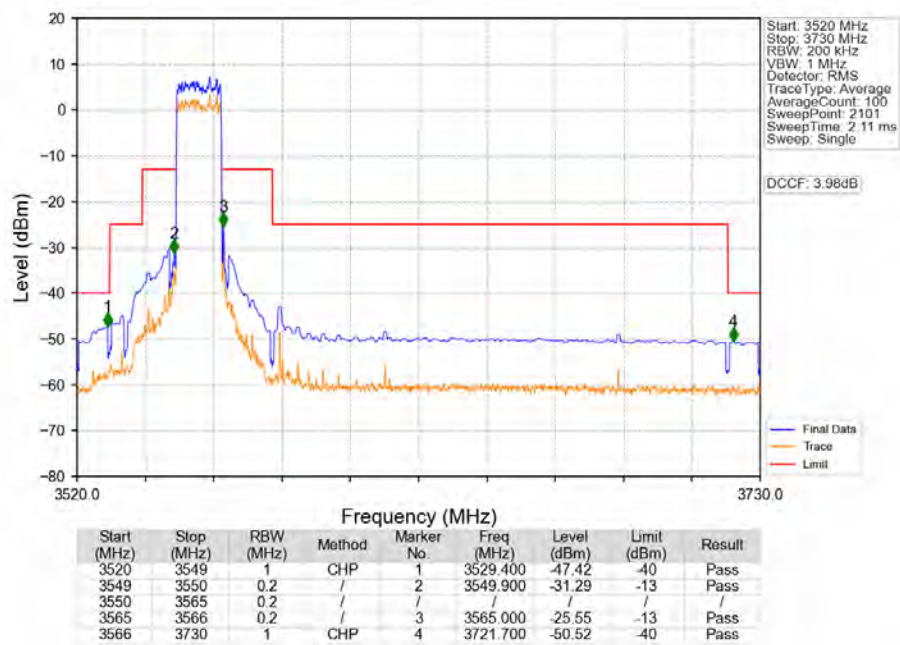
Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_1\_0\_NTNV



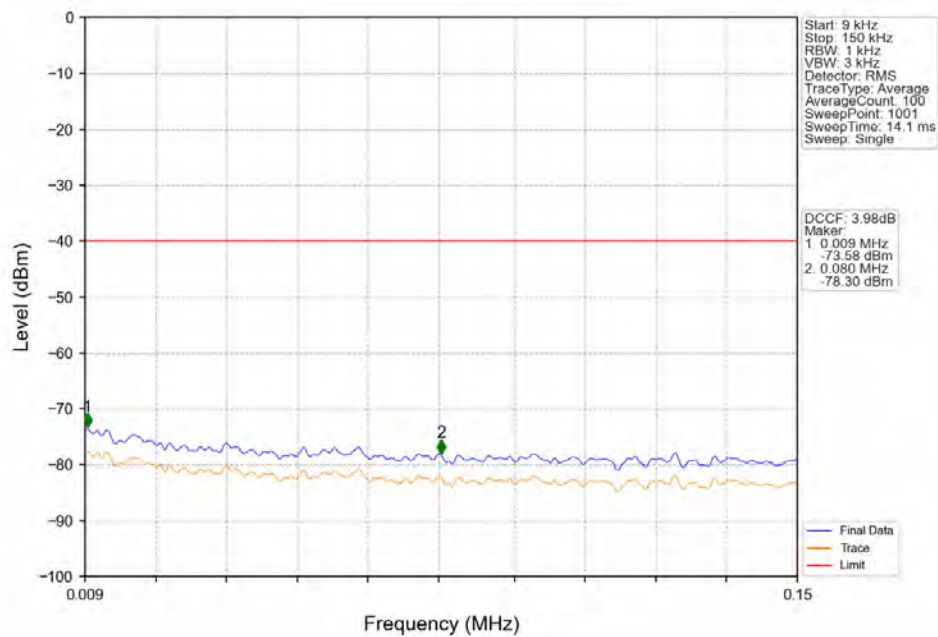
Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_1\_0\_NTNV



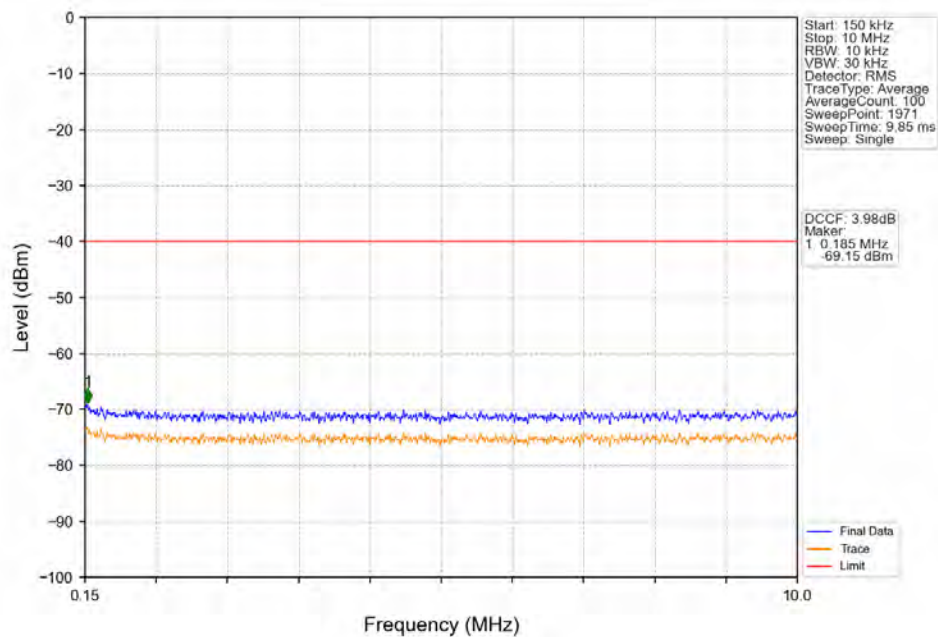
Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



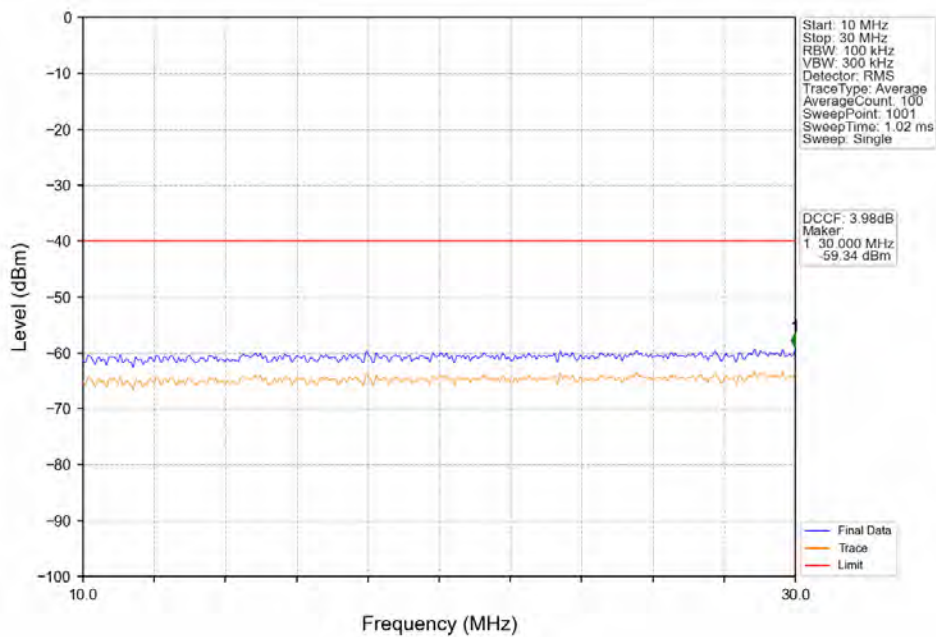
Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



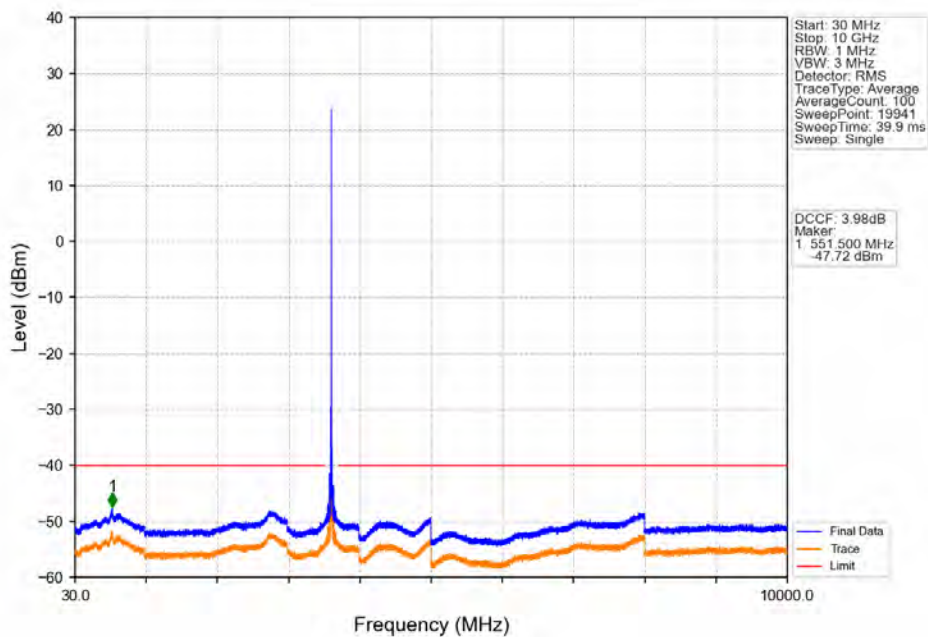
Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



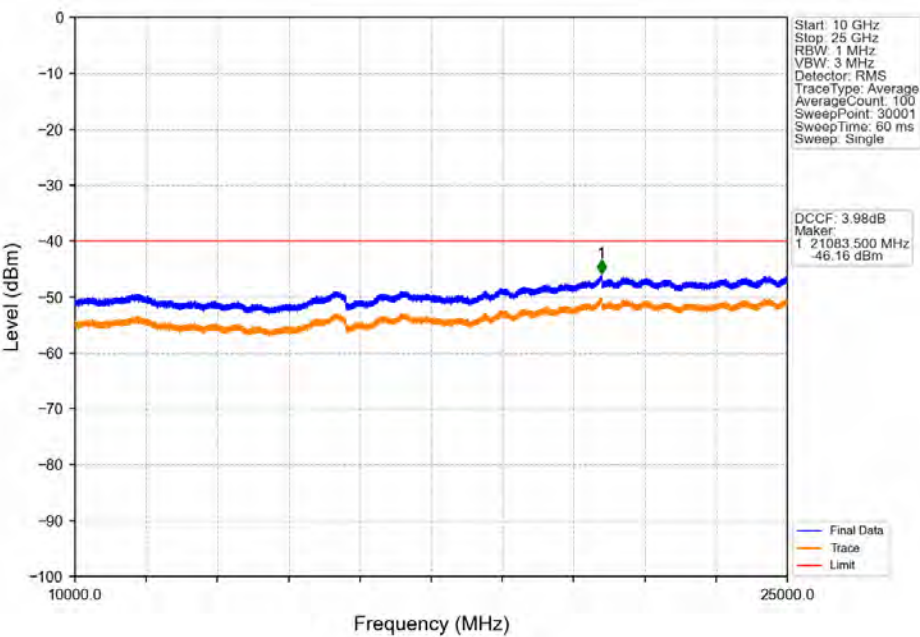
Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



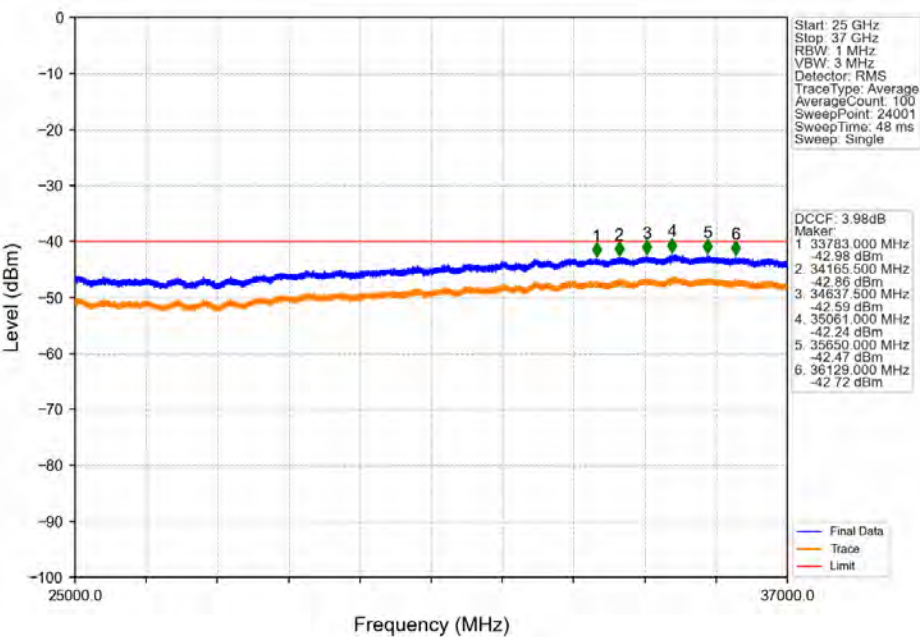
Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

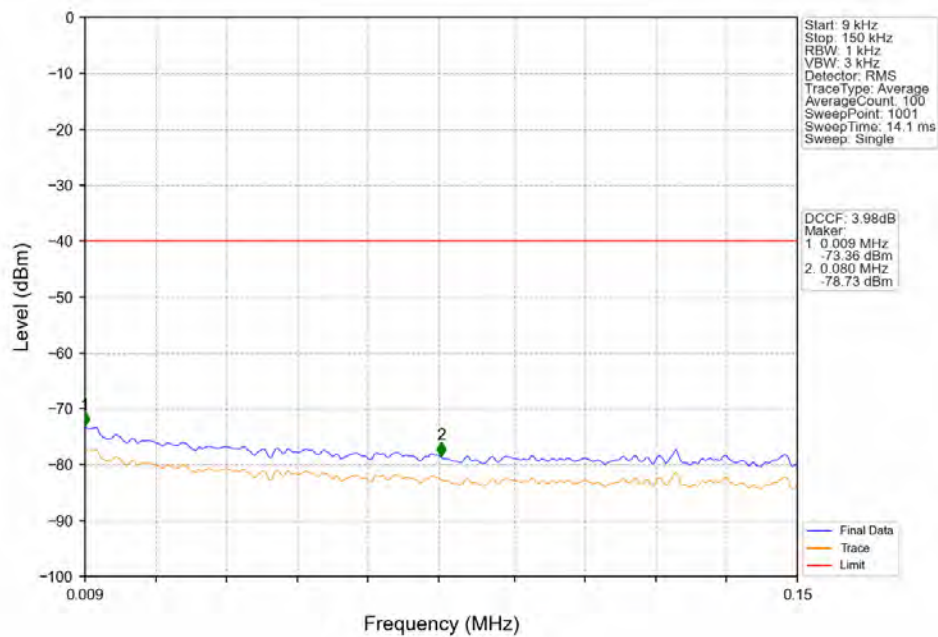


Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

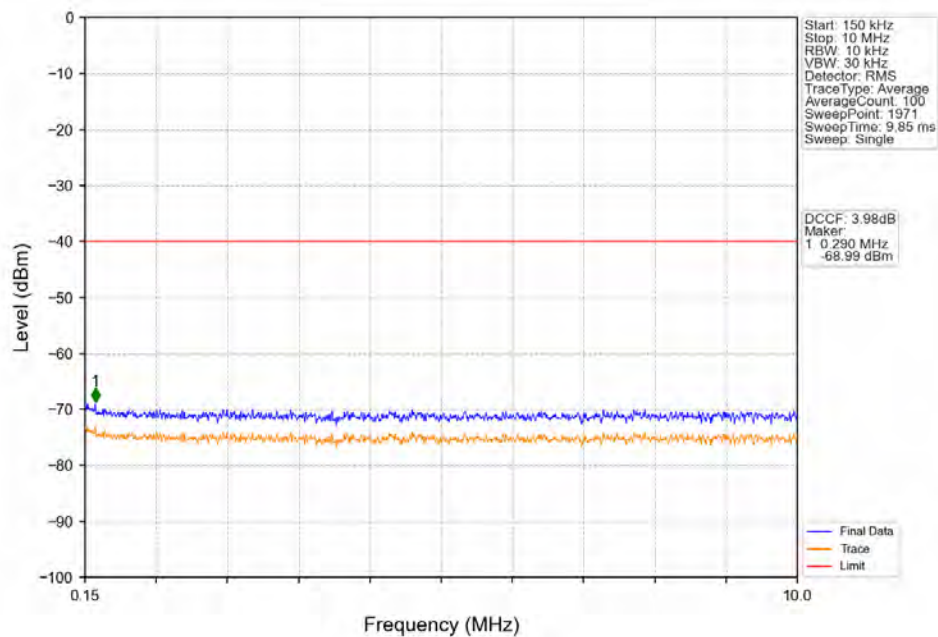




Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_1\_0\_NTNV

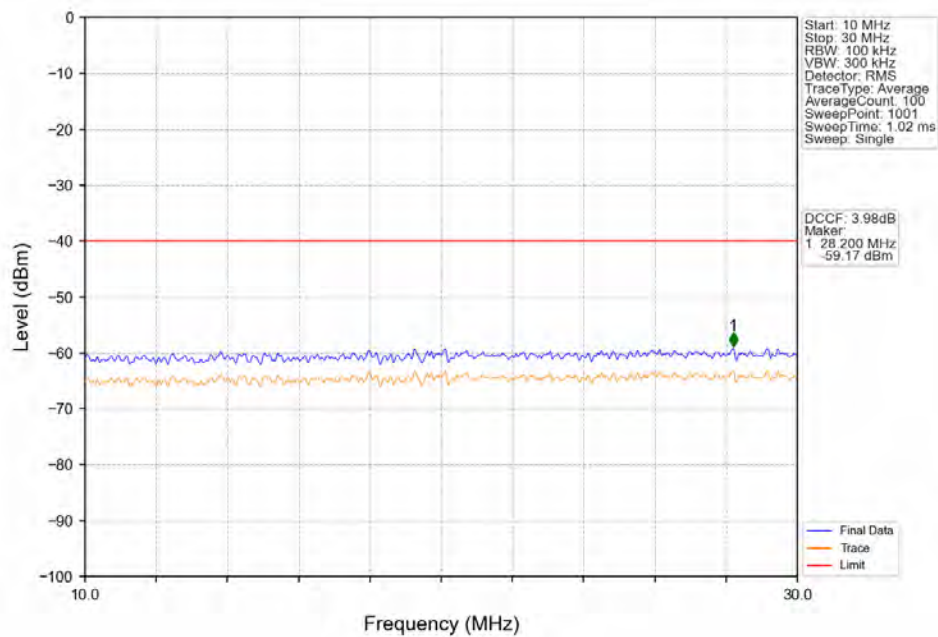


Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_1\_0\_NTNV

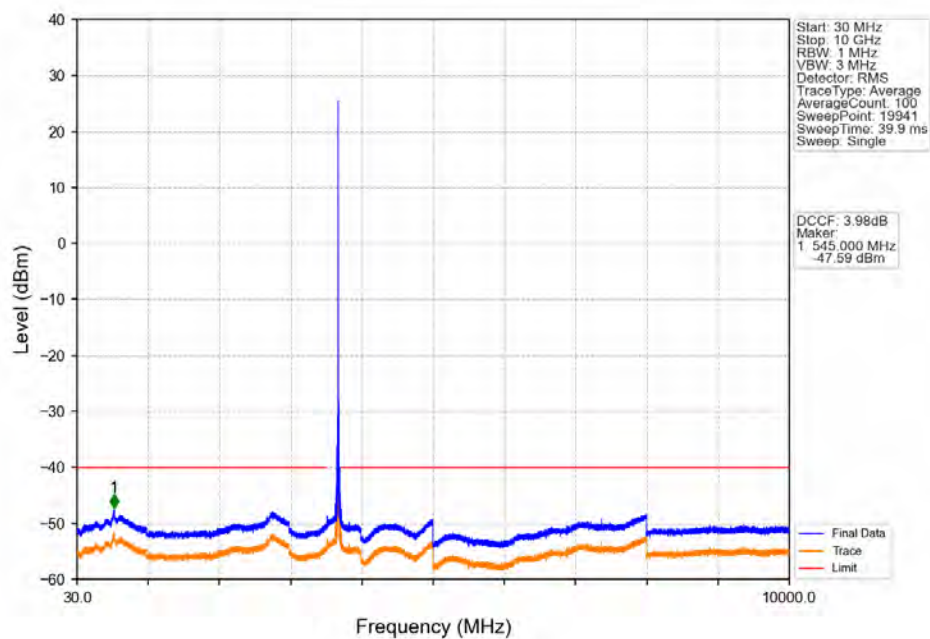




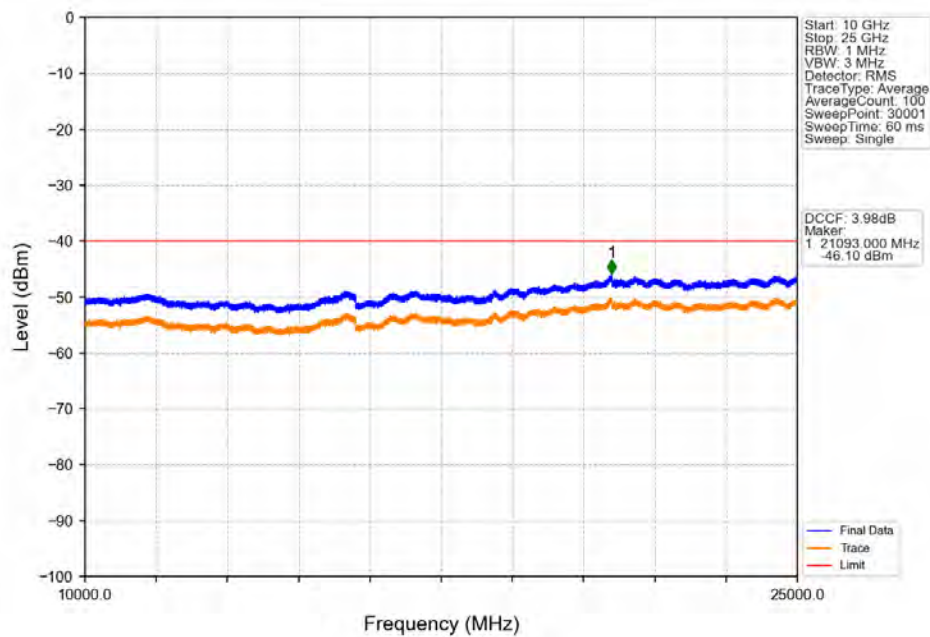
Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_1\_0\_NTNV



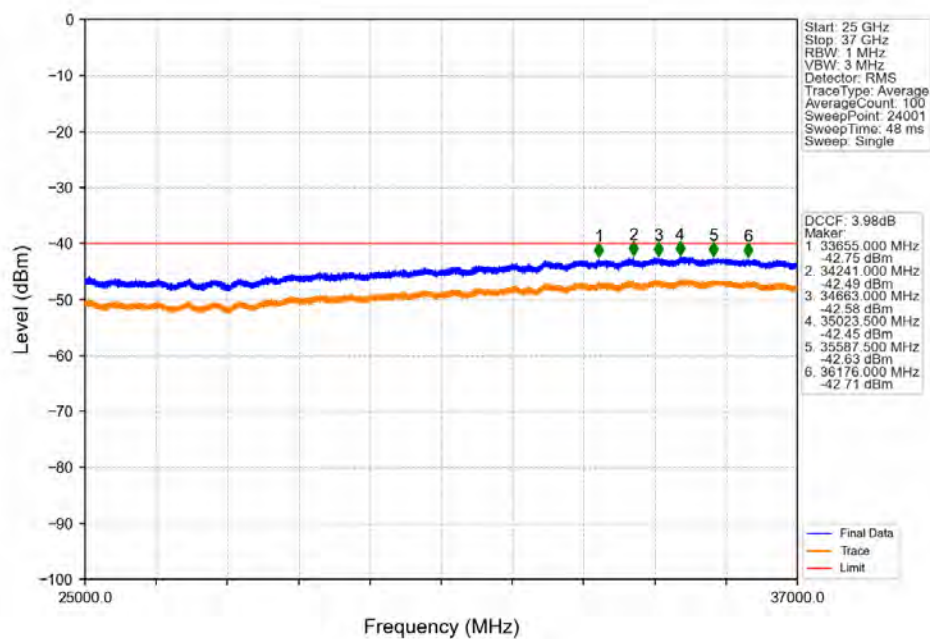
Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_1\_0\_NTNV



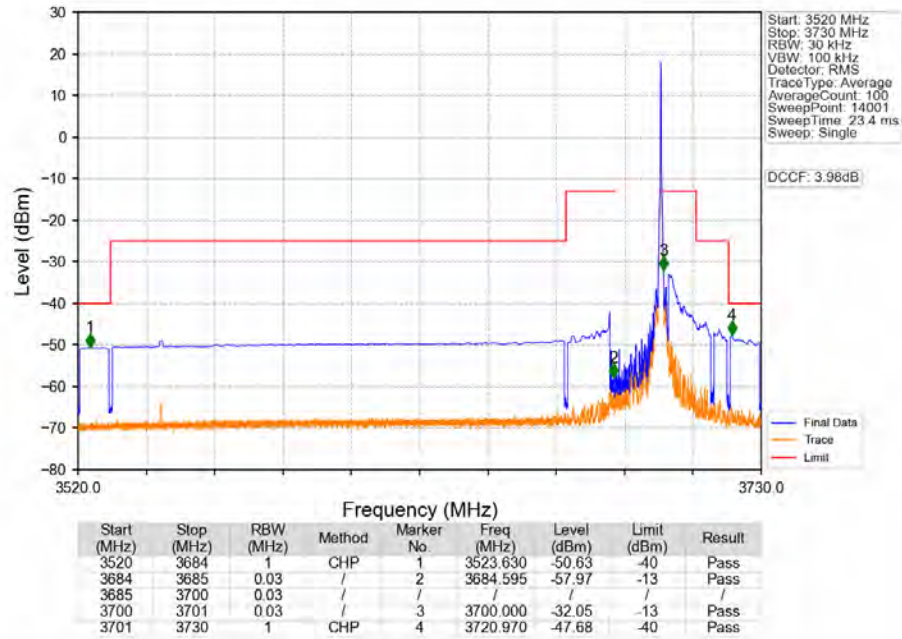
Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_1\_0\_NTNV



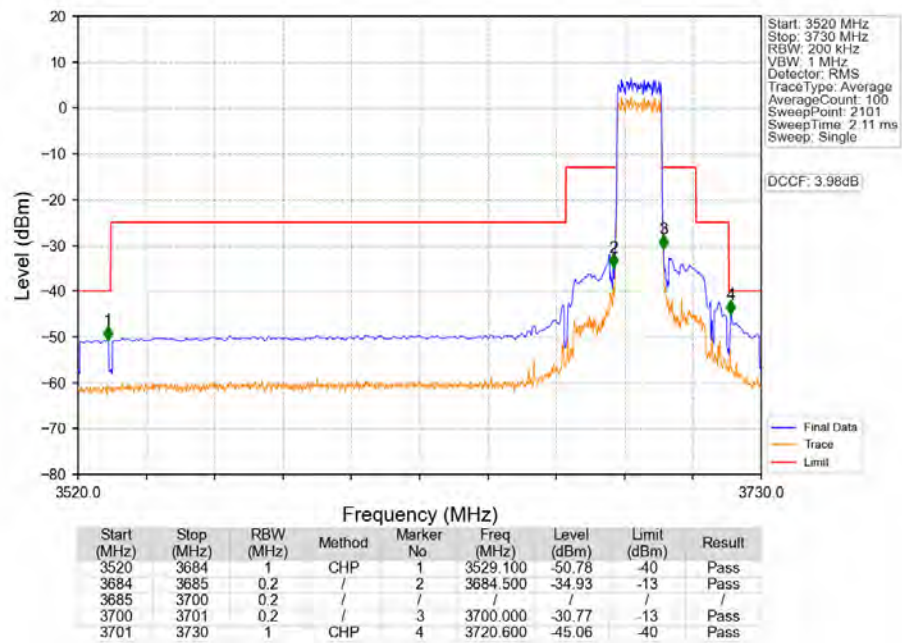
Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_1\_0\_NTNV



## Band48 15MHz QPSK HCH 3692.5MHz RB 1 74 NTNV

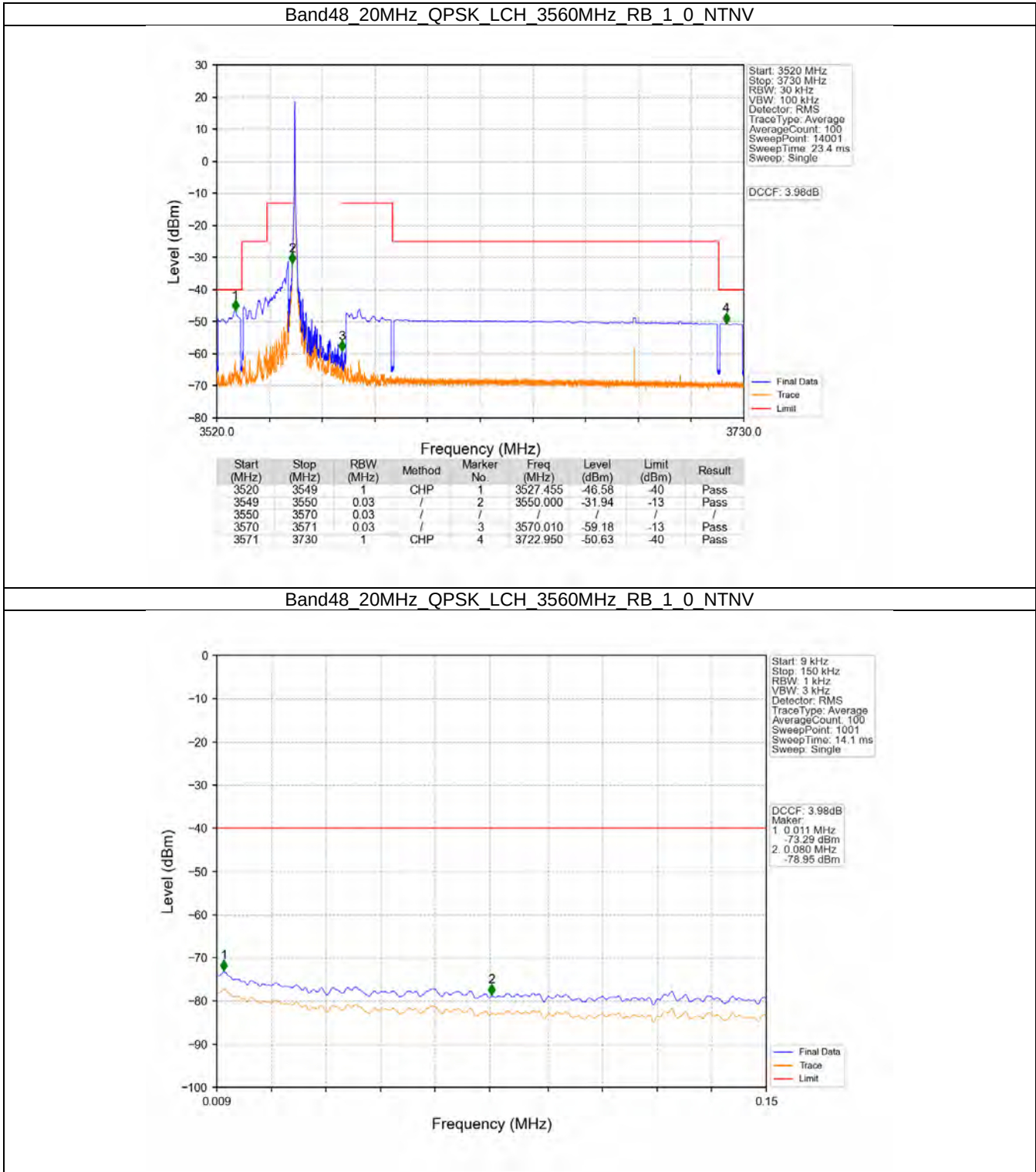


## Band48 15MHz QPSK HCH 3692.5MHz RB 75 0 NTNV

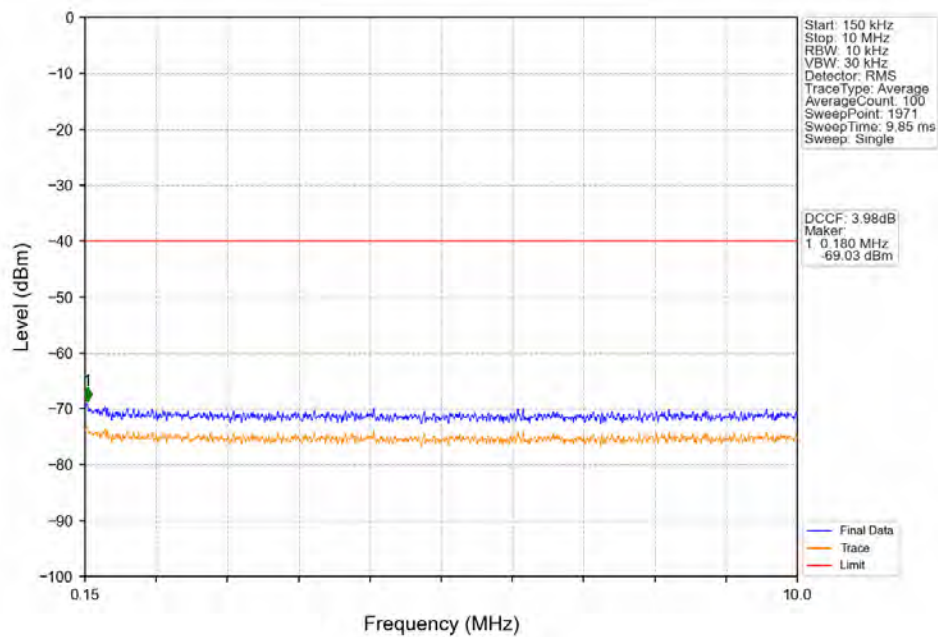


5.4 B48\_20MHz

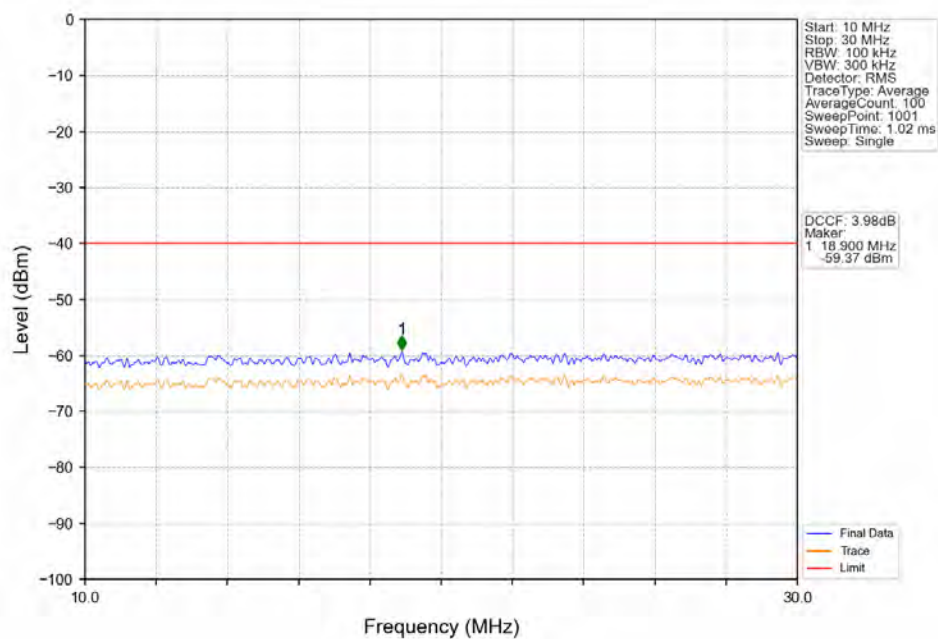
5.4.2 Test Graph



Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_1\_0\_NTNV

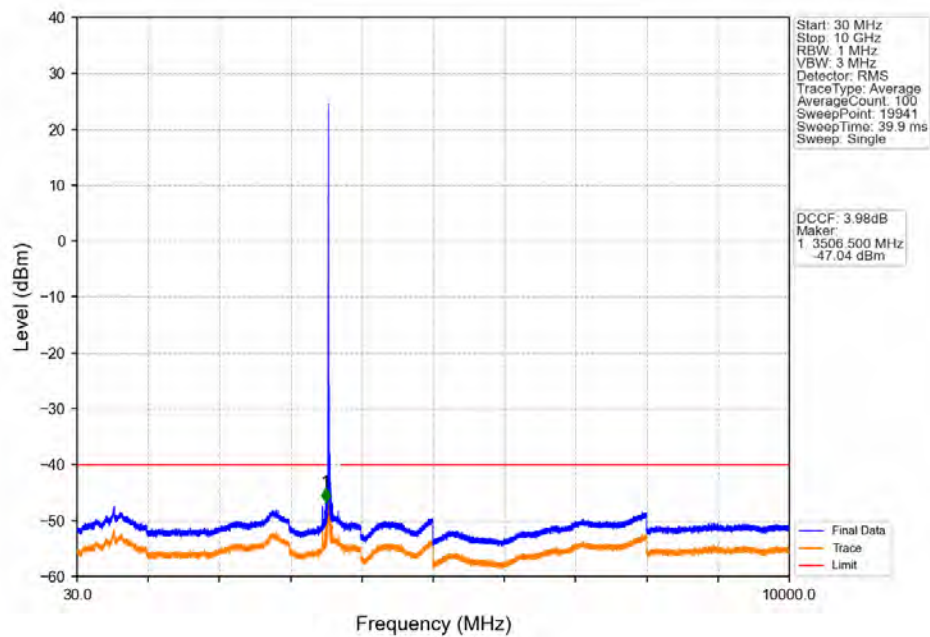


Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_1\_0\_NTNV

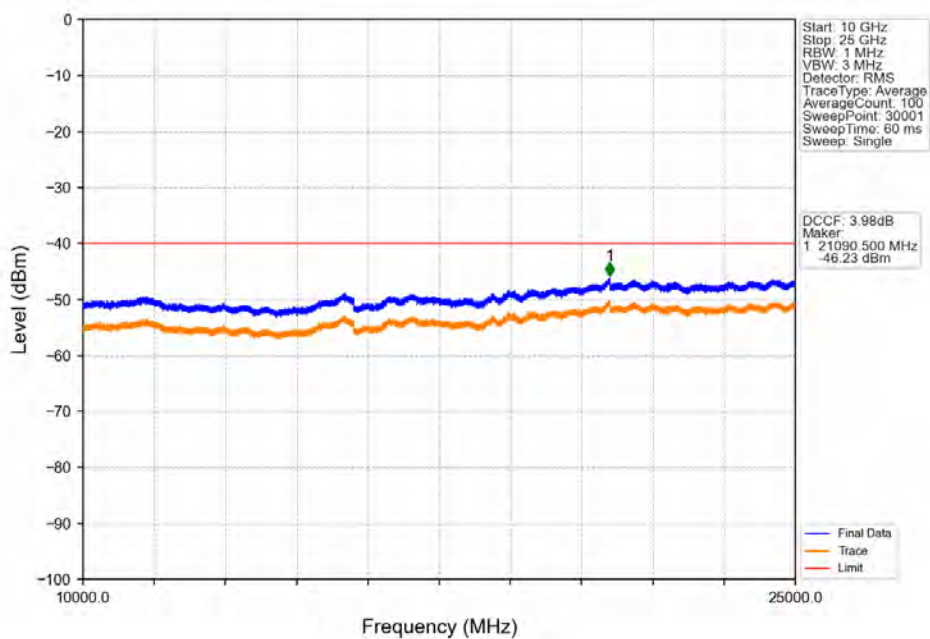




Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_1\_0\_NTNV

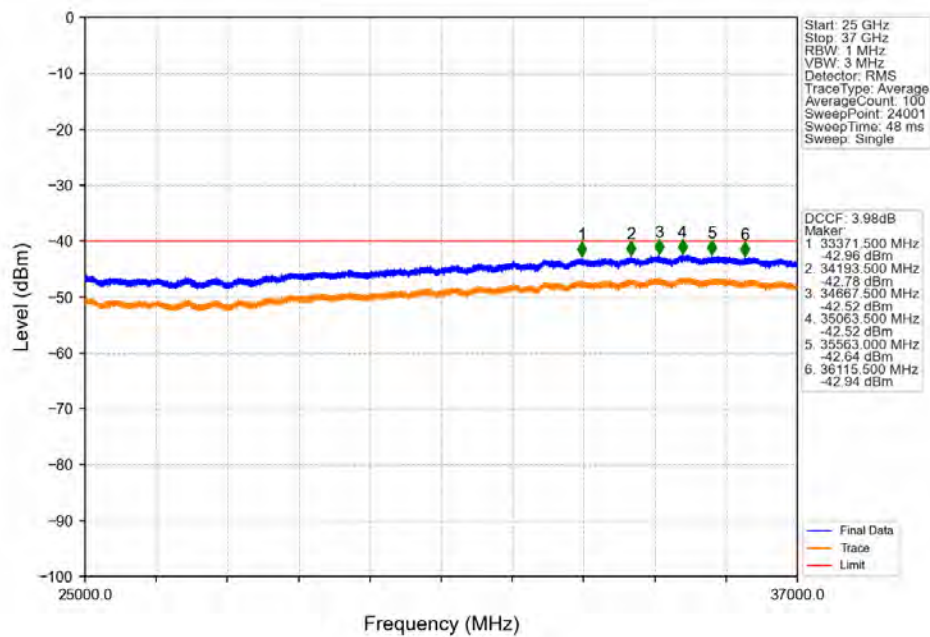


Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_1\_0\_NTNV

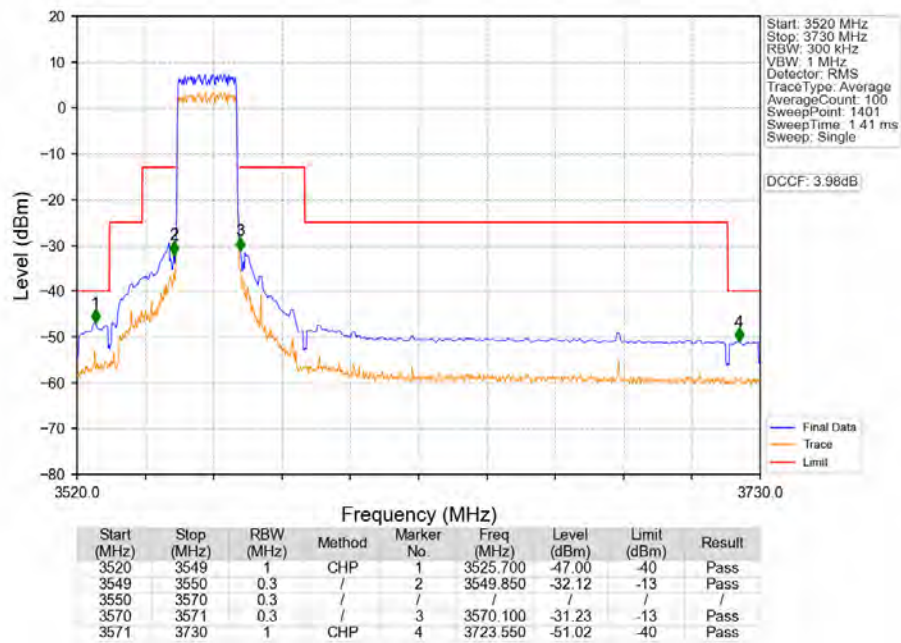




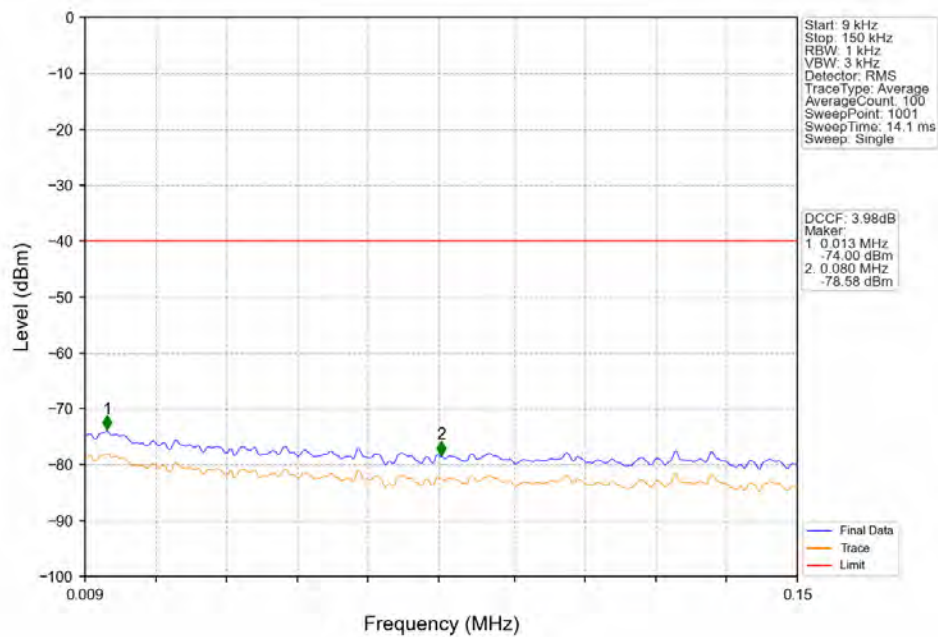
Band48 20MHz QPSK LCH 3560MHz RB 1 0 NTNV



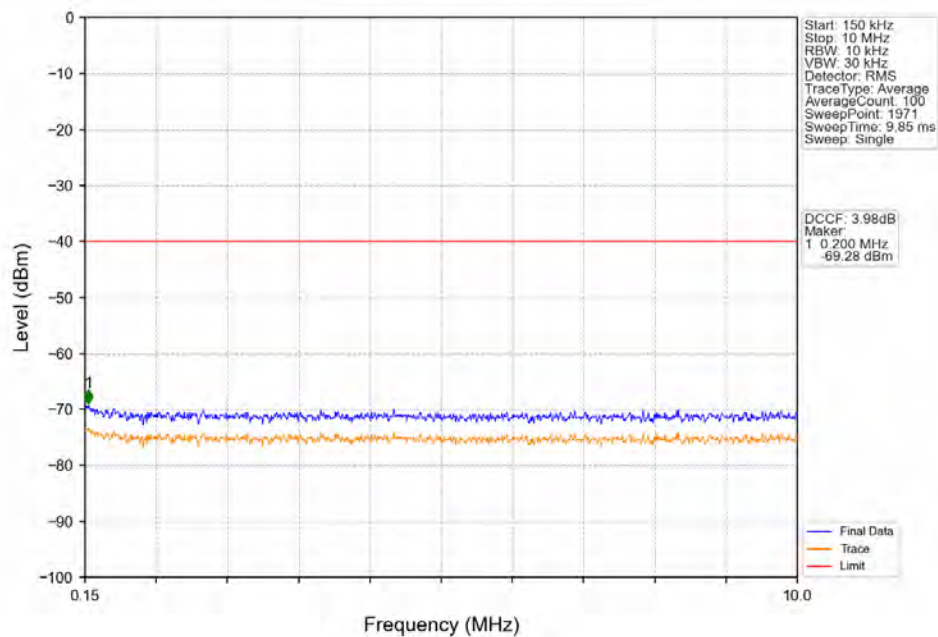
Band48 20MHz QPSK LCH 3560MHz RB 100 0 NTNV



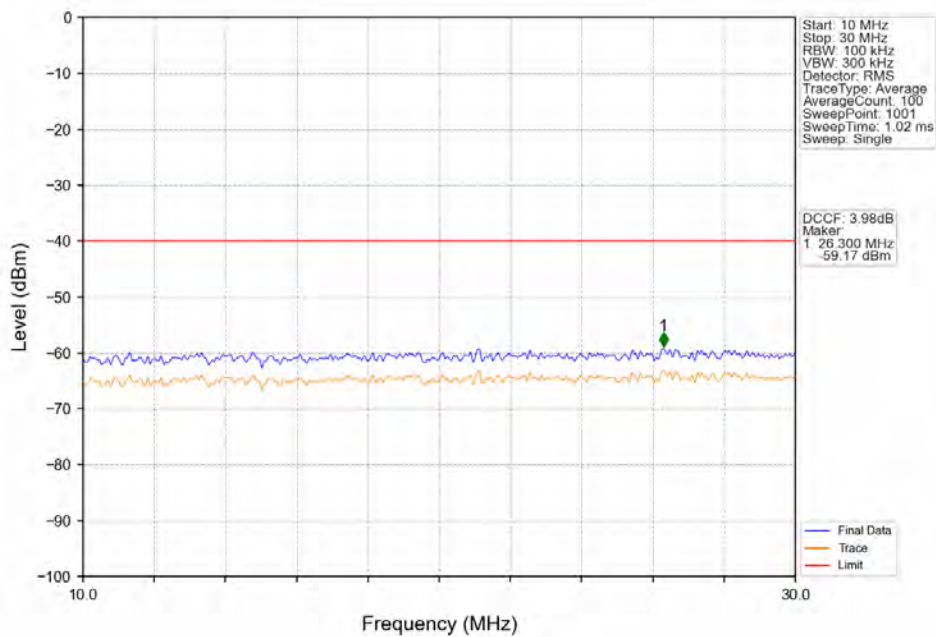
Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



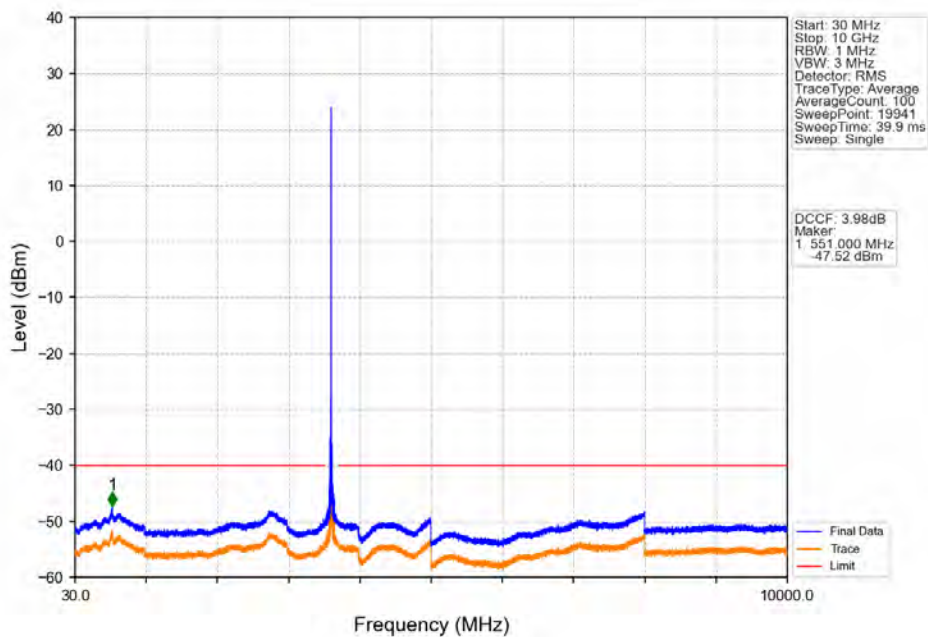
Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



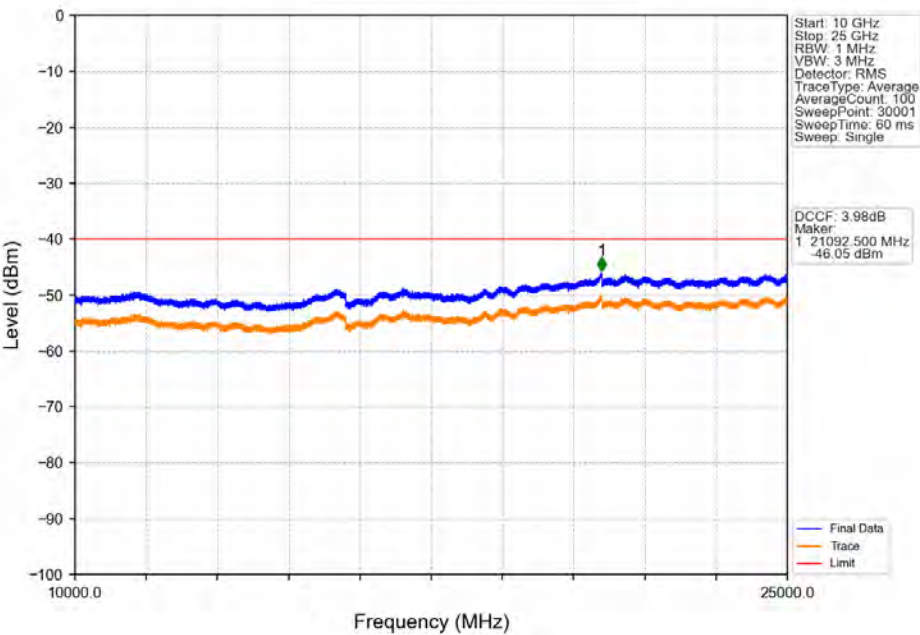
Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



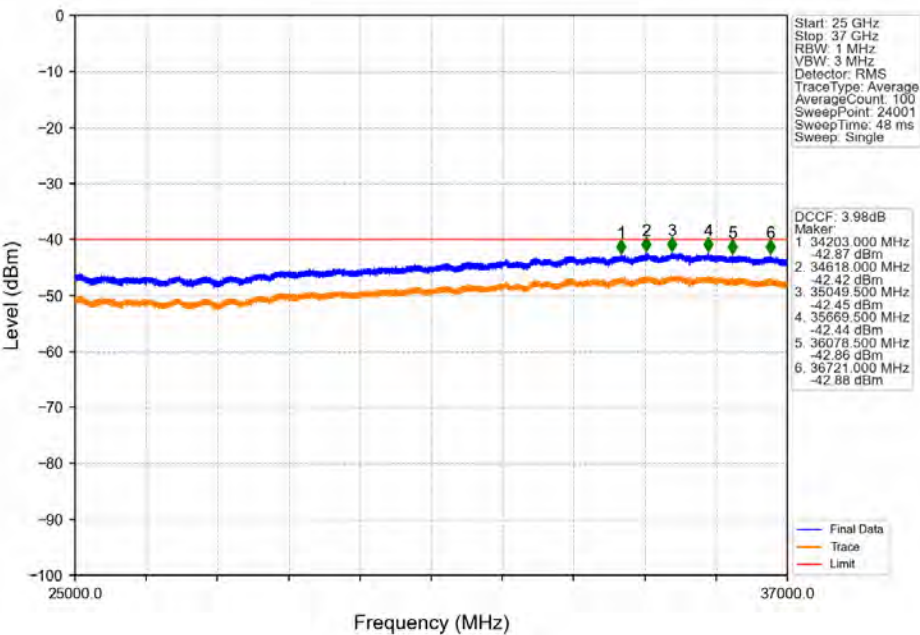
Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



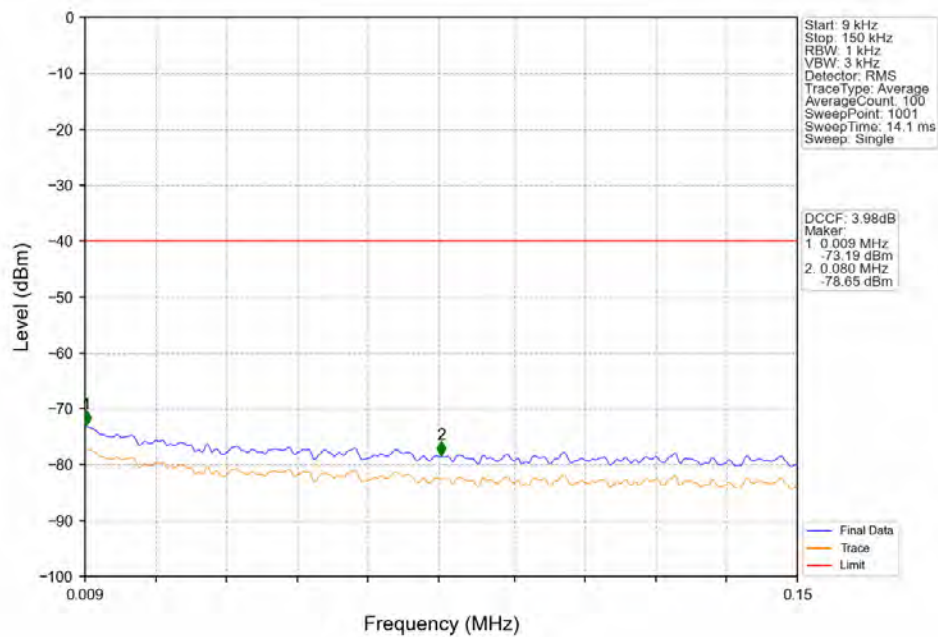
Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



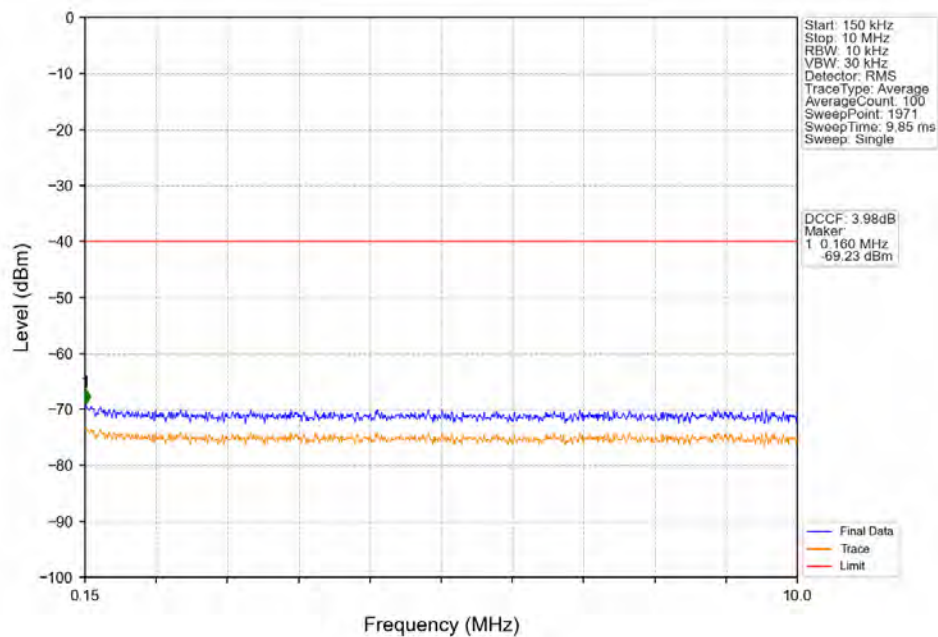
Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_1\_0\_NTNV

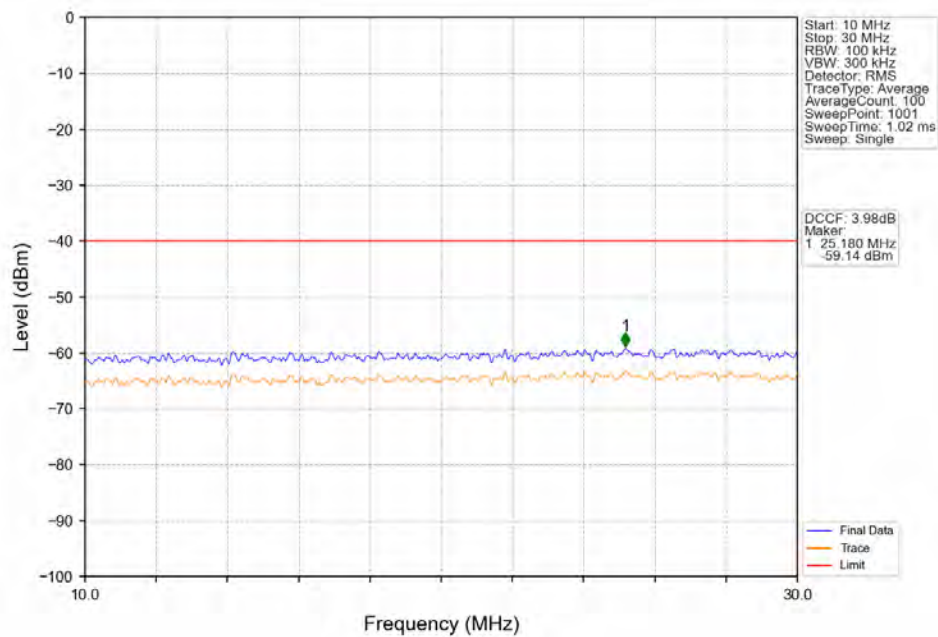


Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_1\_0\_NTNV

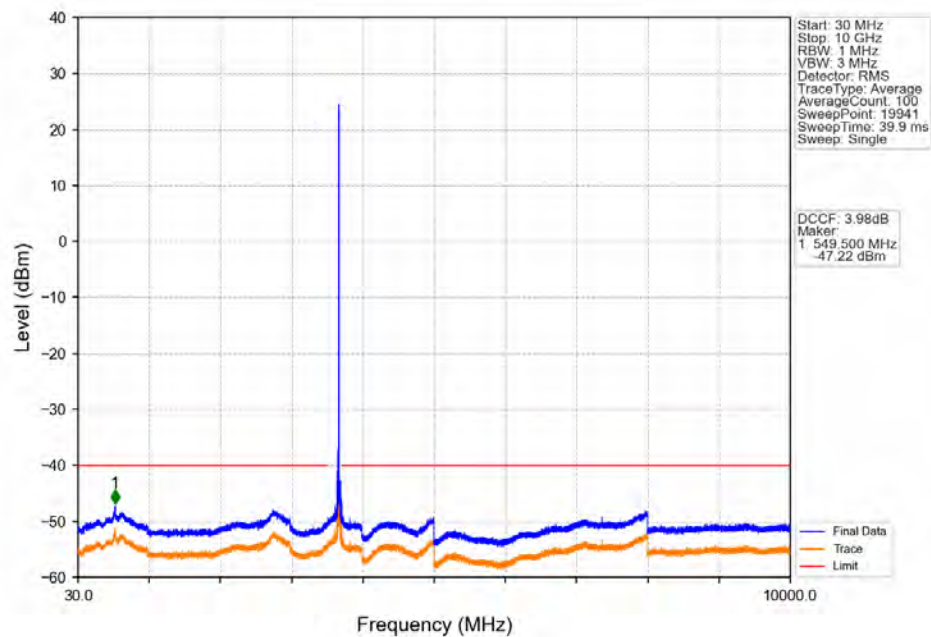




Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_1\_0\_NTNV

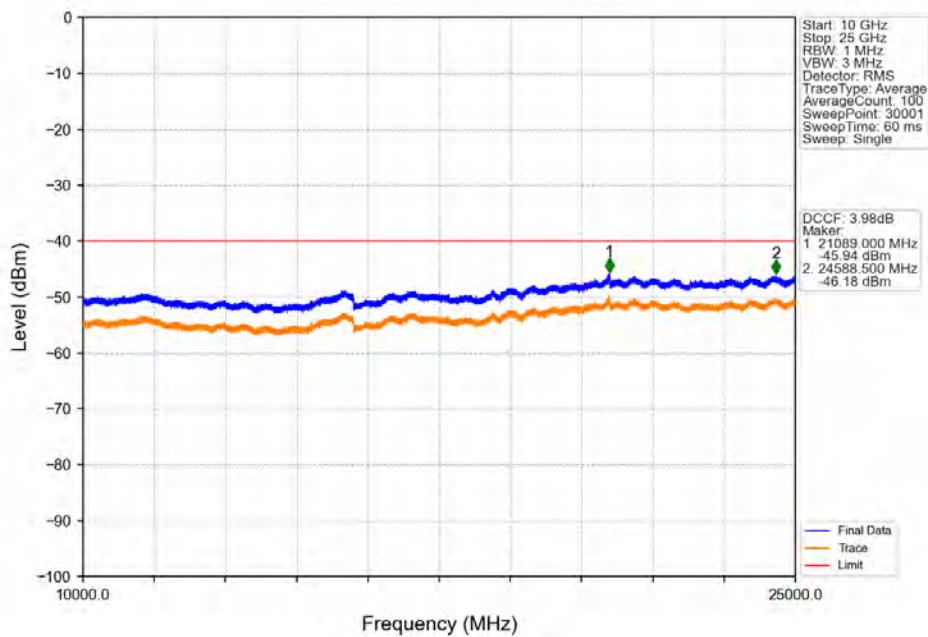


Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_1\_0\_NTNV

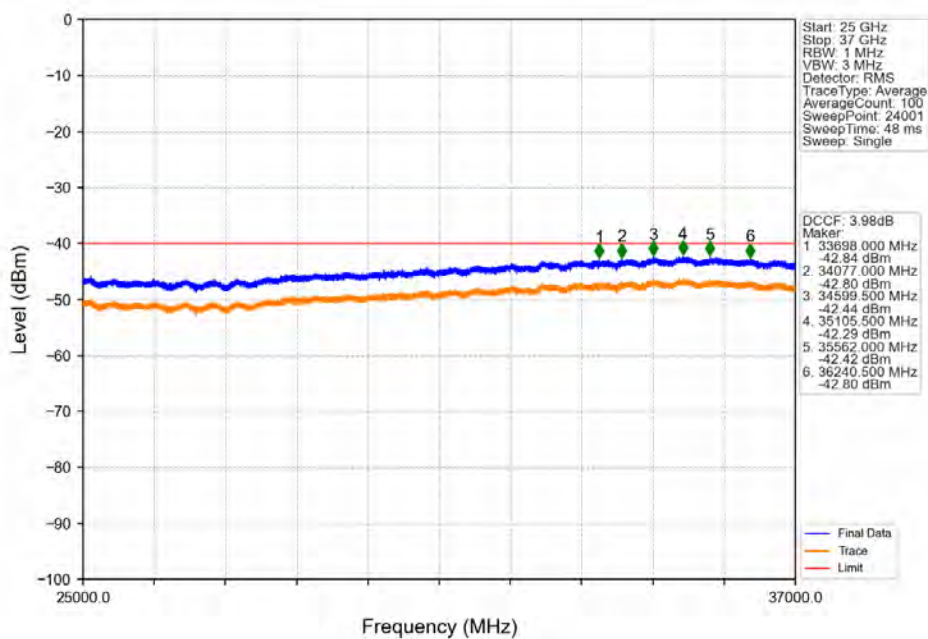




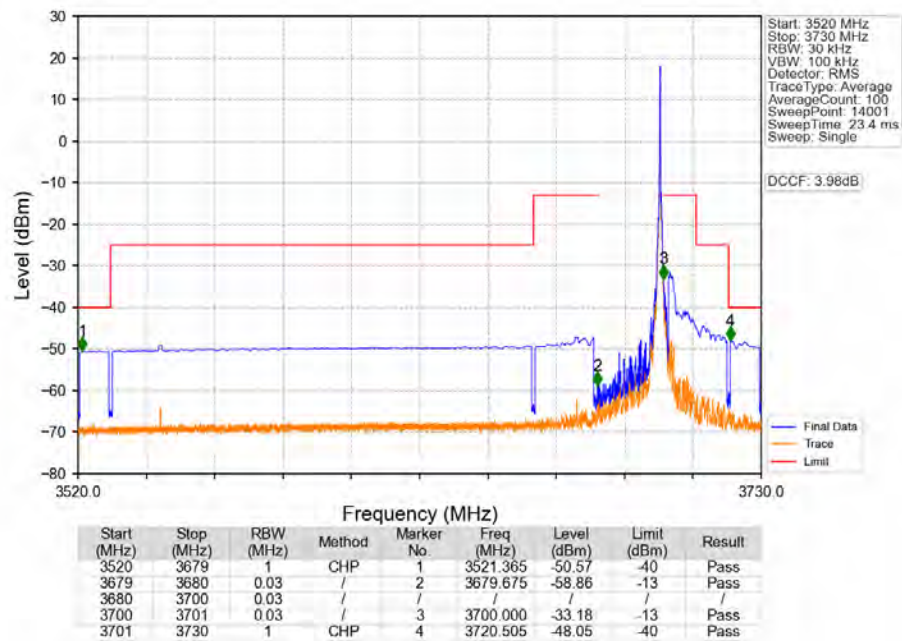
Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_1\_0\_NTNV



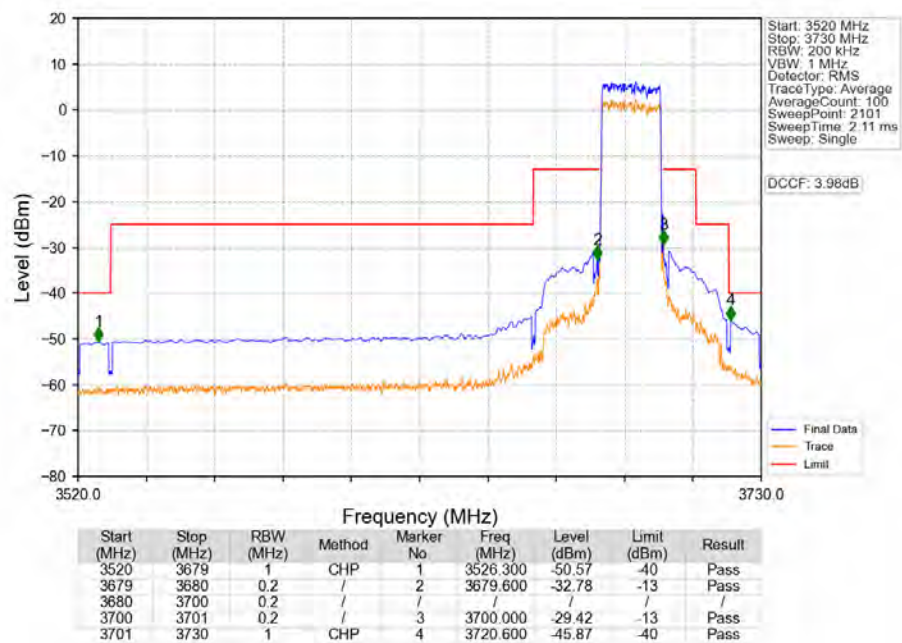
Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_1\_0\_NTNV



Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_1\_99\_NTNV



Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_100\_0\_NTNV



## 6. Adjacent Channel Leakage Ratio

### 6.1 B48\_5MHz

#### 6.1.1 Test Result

| Band: 48 / Bandwidth: 5MHz / NTVN |                 |               |        |                                |       |         |
|-----------------------------------|-----------------|---------------|--------|--------------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Adjacent Channel Leakage Ratio |       | Verdict |
|                                   |                 | Size          | Offset | Result                         | Limit |         |
| QPSK                              | 3552.5          | 1             | 0      | Refer To Test Graph            |       | Pass    |
|                                   |                 |               | 24     | Refer To Test Graph            |       | Pass    |
|                                   |                 | 25            | 0      | Refer To Test Graph            |       | Pass    |
|                                   | 3625            | 1             | 0      | Refer To Test Graph            |       | Pass    |
|                                   |                 |               | 24     | Refer To Test Graph            |       | Pass    |
|                                   |                 | 25            | 0      | Refer To Test Graph            |       | Pass    |
|                                   | 3697.5          | 1             | 0      | Refer To Test Graph            |       | Pass    |
|                                   |                 |               | 24     | Refer To Test Graph            |       | Pass    |
|                                   |                 | 25            | 0      | Refer To Test Graph            |       | Pass    |

### 6.2 B48\_10MHz

#### 6.2.1 Test Result

| Band: 48 / Bandwidth: 10MHz / NTNV |                 |               |        |                                |       |         |
|------------------------------------|-----------------|---------------|--------|--------------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Adjacent Channel Leakage Ratio |       | Verdict |
|                                    |                 | Size          | Offset | Result                         | Limit |         |
| QPSK                               | 3555            | 1             | 0      | Refer To Test Graph            |       | Pass    |
|                                    |                 |               | 49     | Refer To Test Graph            |       | Pass    |
|                                    |                 | 50            | 0      | Refer To Test Graph            |       | Pass    |
|                                    | 3625            | 1             | 0      | Refer To Test Graph            |       | Pass    |
|                                    |                 |               | 49     | Refer To Test Graph            |       | Pass    |
|                                    |                 | 50            | 0      | Refer To Test Graph            |       | Pass    |
|                                    | 3695            | 1             | 0      | Refer To Test Graph            |       | Pass    |
|                                    |                 |               | 49     | Refer To Test Graph            |       | Pass    |
|                                    |                 | 50            | 0      | Refer To Test Graph            |       | Pass    |

### 6.3 B48\_15MHz

#### 6.3.1 Test Result

| Band: 48 / Bandwidth: 15MHz / NTNV |                 |               |        |                                |       |         |
|------------------------------------|-----------------|---------------|--------|--------------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Adjacent Channel Leakage Ratio |       | Verdict |
|                                    |                 | Size          | Offset | Result                         | Limit |         |
| QPSK                               | 3557.5          | 1             | 0      | Refer To Test Graph            |       | Pass    |
|                                    |                 |               | 74     | Refer To Test Graph            |       | Pass    |
|                                    |                 | 75            | 0      | Refer To Test Graph            |       | Pass    |
|                                    | 3625            | 1             | 0      | Refer To Test Graph            |       | Pass    |
|                                    |                 |               | 74     | Refer To Test Graph            |       | Pass    |
|                                    |                 | 75            | 0      | Refer To Test Graph            |       | Pass    |
|                                    | 3692.5          | 1             | 0      | Refer To Test Graph            |       | Pass    |
|                                    |                 |               | 74     | Refer To Test Graph            |       | Pass    |
|                                    |                 | 75            | 0      | Refer To Test Graph            |       | Pass    |

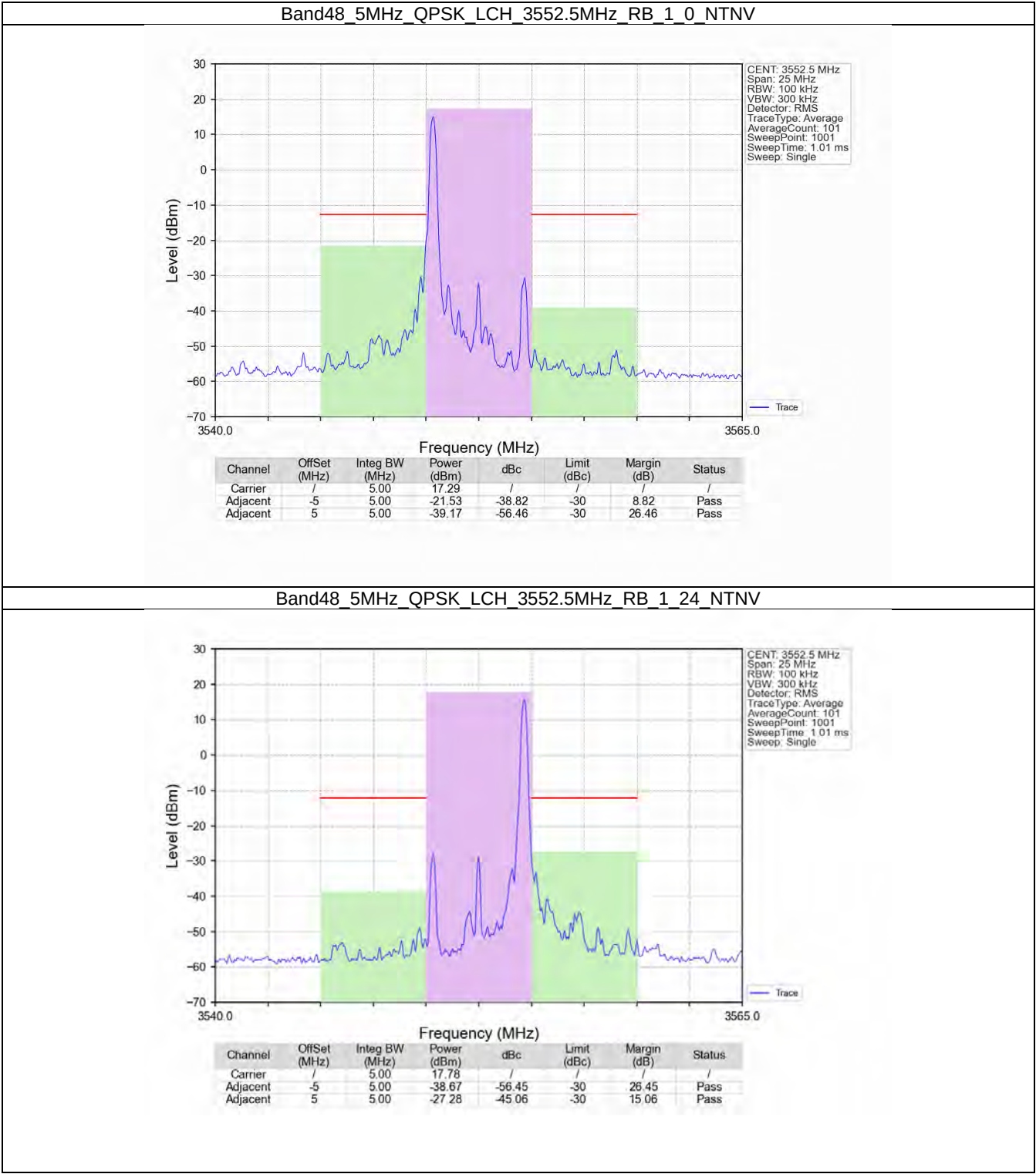
## 6.4 B48\_20MHz

## 6.4.1 Test Result

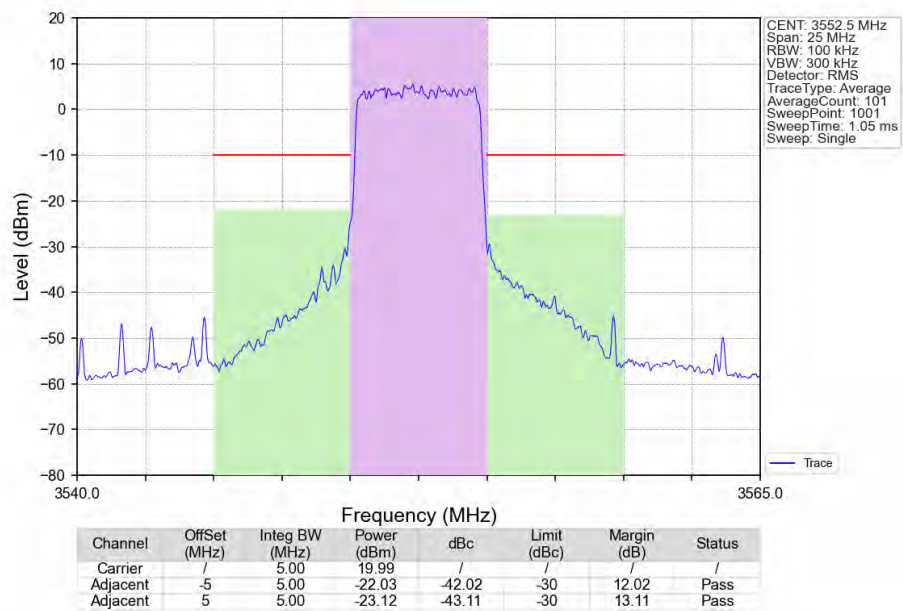
| Band: 48 / Bandwidth: 20MHz / NTVN |                 |               |        |                                |       |         |
|------------------------------------|-----------------|---------------|--------|--------------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Adjacent Channel Leakage Ratio |       | Verdict |
|                                    |                 | Size          | Offset | Result                         | Limit |         |
| QPSK                               | 3560            | 1             | 0      | Refer To Test Graph            |       | Pass    |
|                                    |                 |               | 99     | Refer To Test Graph            |       | Pass    |
|                                    |                 | 100           | 0      | Refer To Test Graph            |       | Pass    |
|                                    | 3625            | 1             | 0      | Refer To Test Graph            |       | Pass    |
|                                    |                 |               | 99     | Refer To Test Graph            |       | Pass    |
|                                    |                 | 100           | 0      | Refer To Test Graph            |       | Pass    |
|                                    | 3690            | 1             | 0      | Refer To Test Graph            |       | Pass    |
|                                    |                 |               | 99     | Refer To Test Graph            |       | Pass    |
|                                    |                 | 100           | 0      | Refer To Test Graph            |       | Pass    |

## 6.1 B48\_5MHz

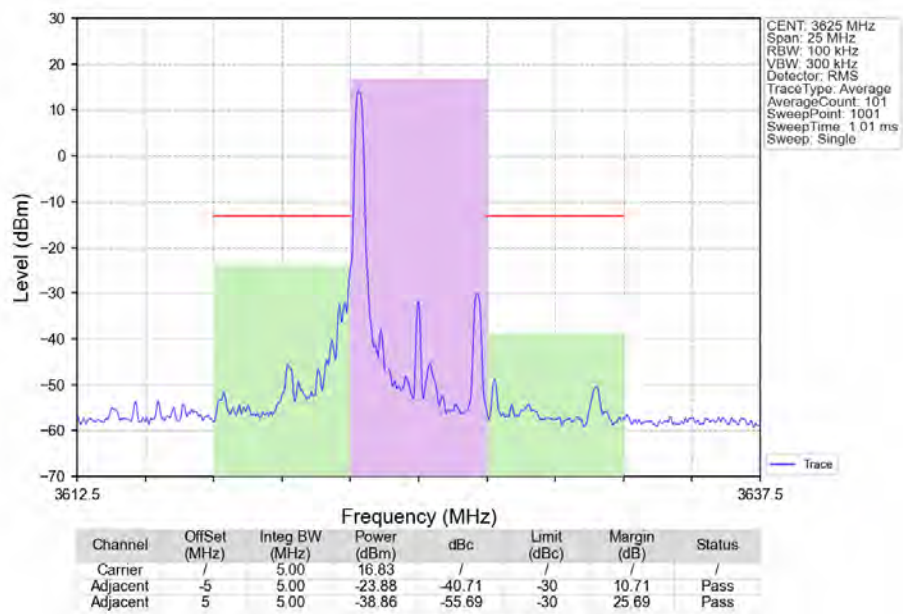
6.1.2 Test Graph



Band48\_5MHz\_QPSK\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV

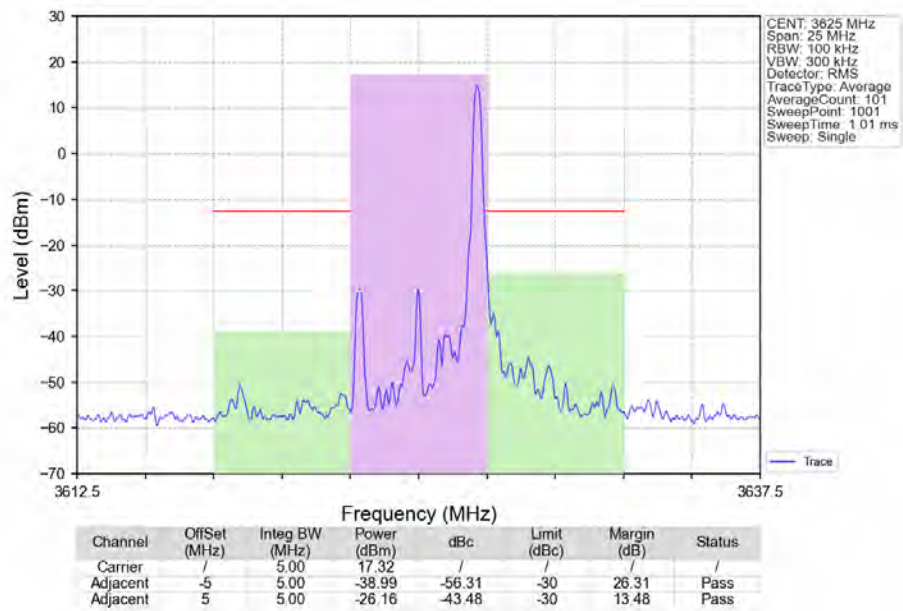


Band48\_5MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

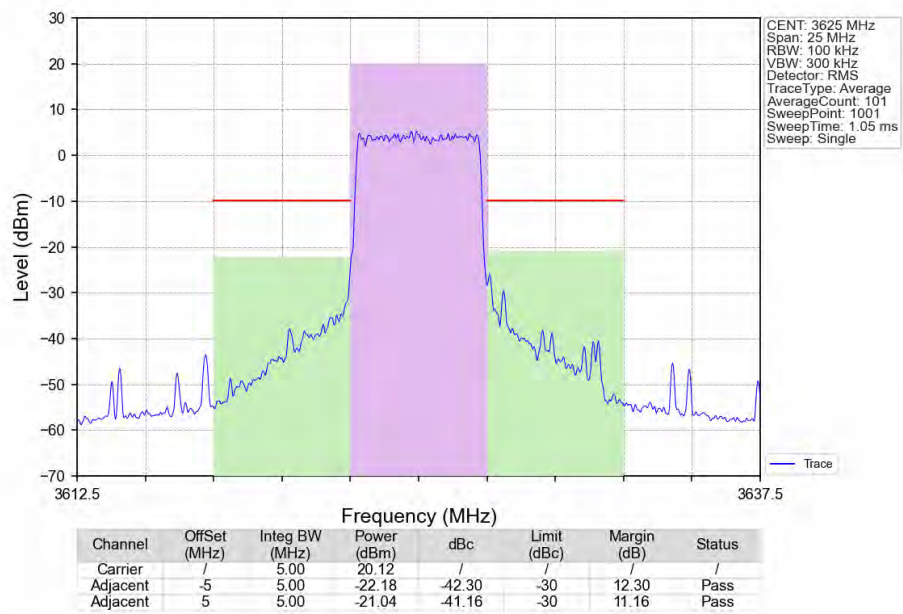




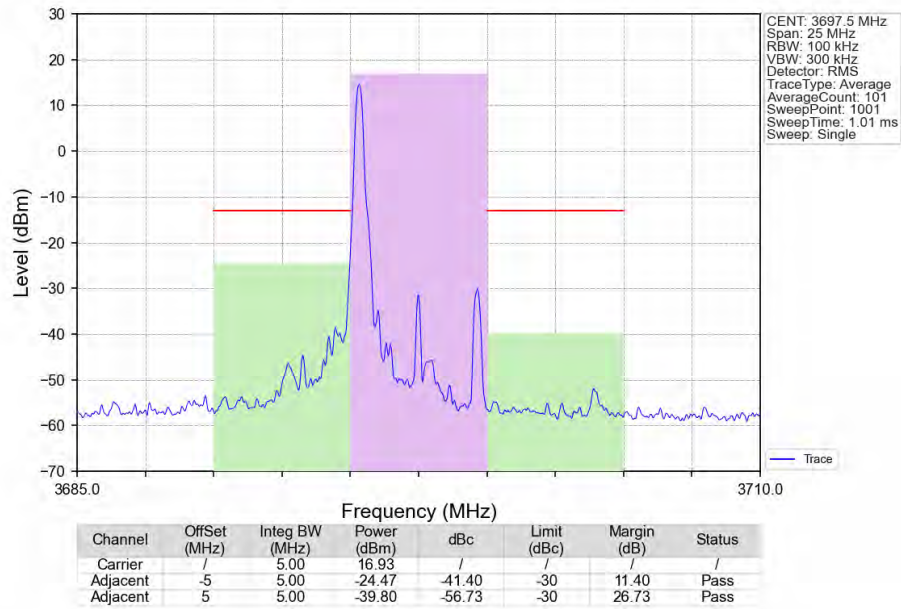
Band48\_5MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_24\_NTNV



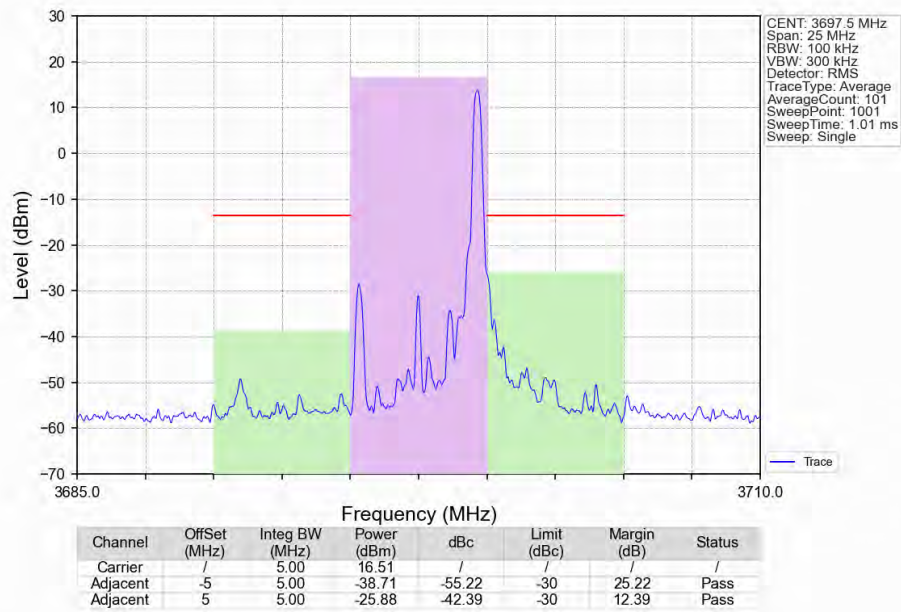
Band48\_5MHz\_QPSK\_MCH\_3625MHz\_RB\_25\_0\_NTNV



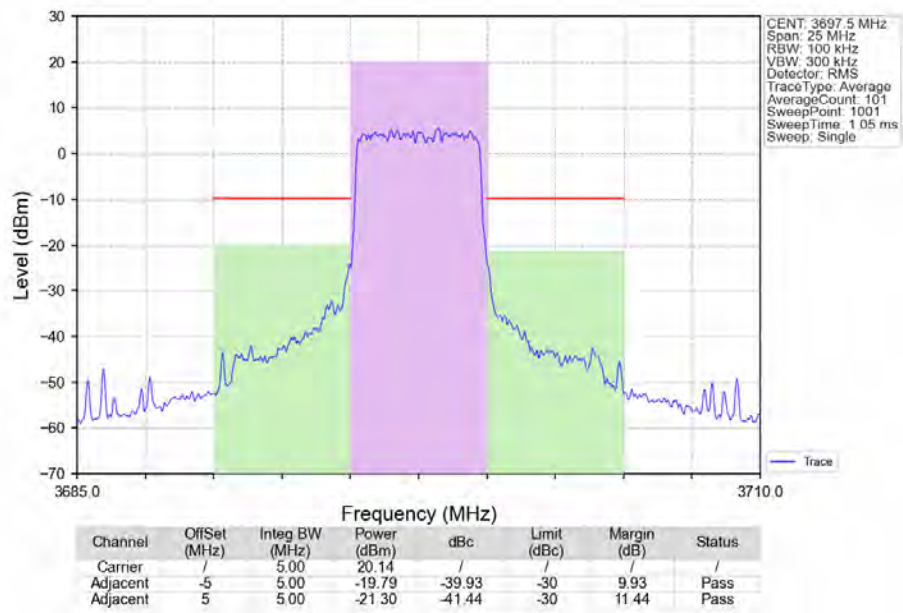
Band48 5MHz QPSK HCH 3697.5MHz RB 1 0 NTNV



Band48 5MHz QPSK HCH 3697.5MHz RB 1 24 NTNV

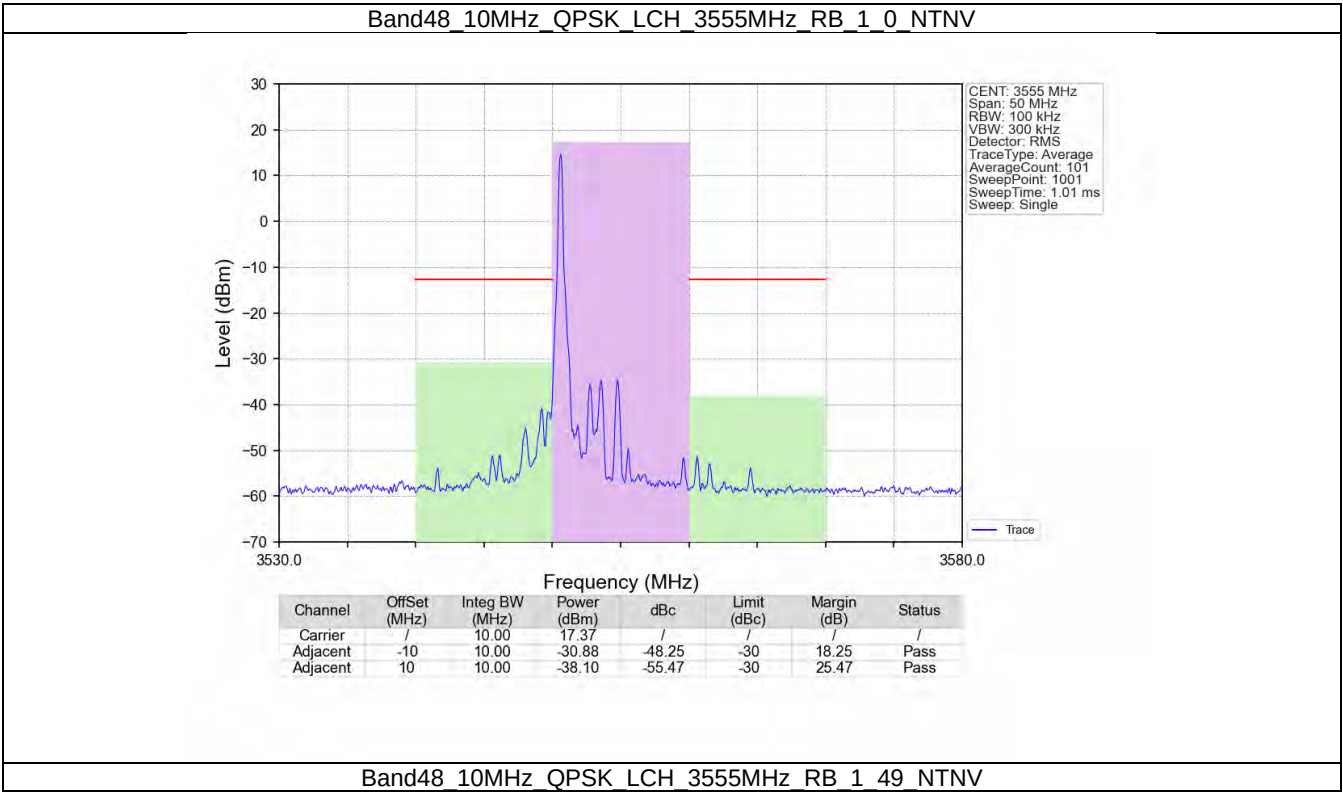


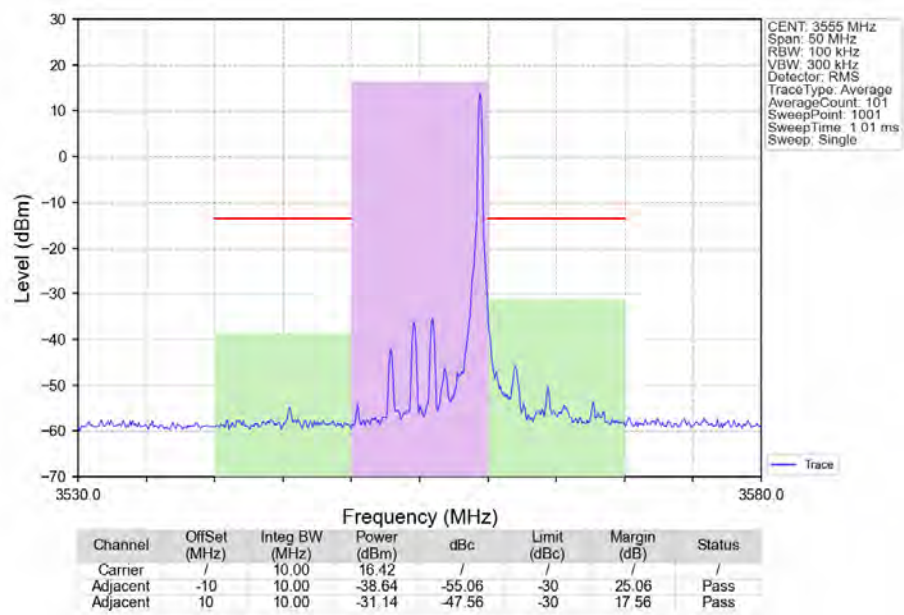
Band48 5MHz QPSK HCH 3697.5MHz RB 25 0 NTNV



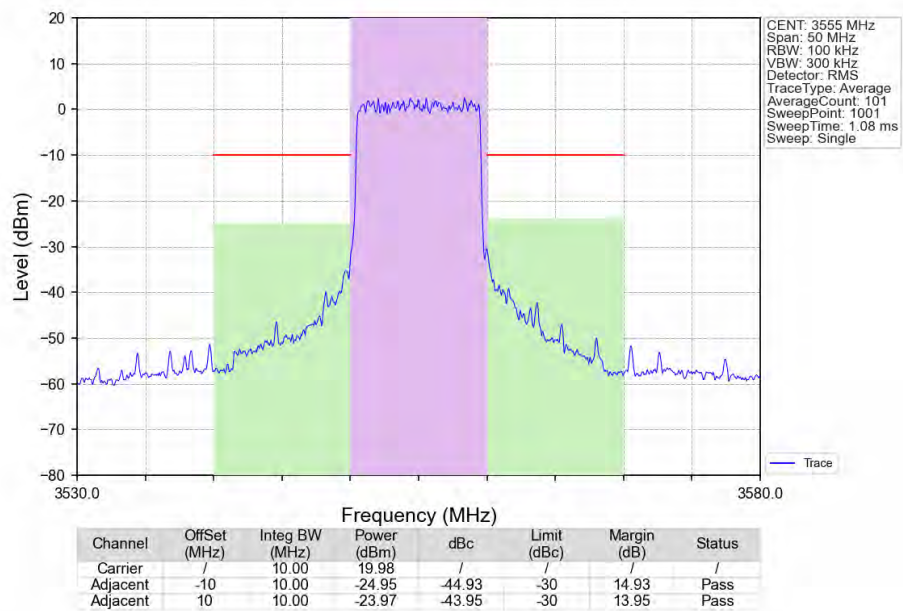
6.2 B48\_10MHz

6.2.2 Test Graph

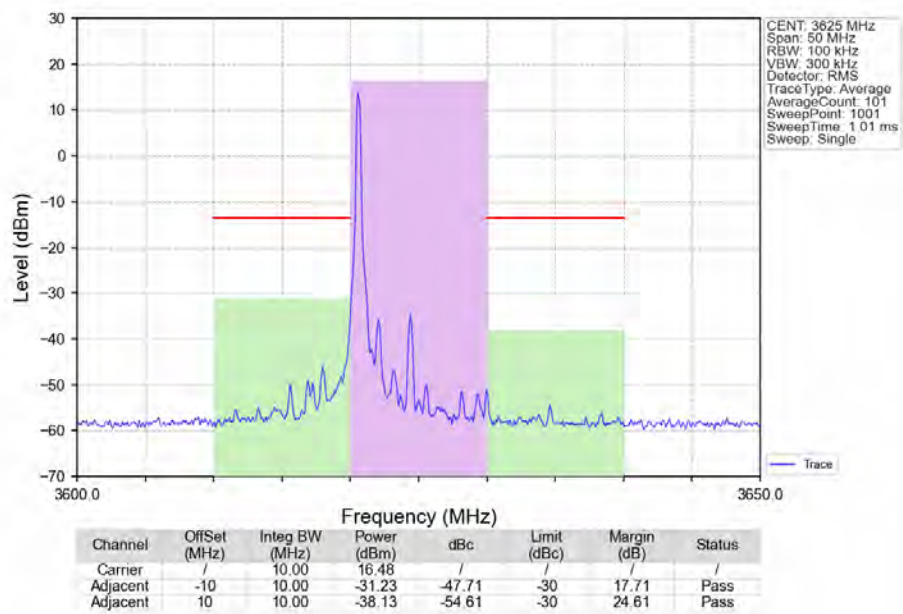




Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_50\_0\_NTNV

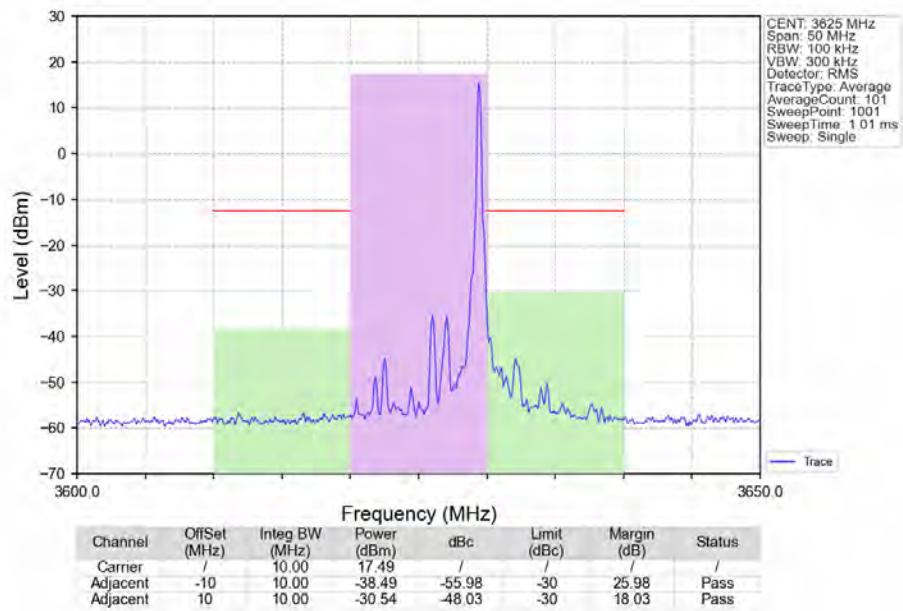


Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

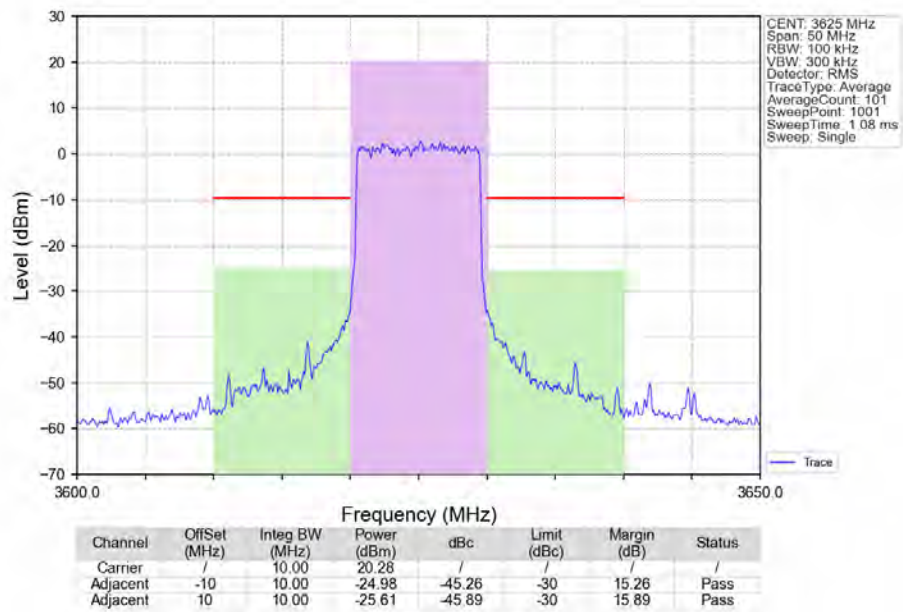




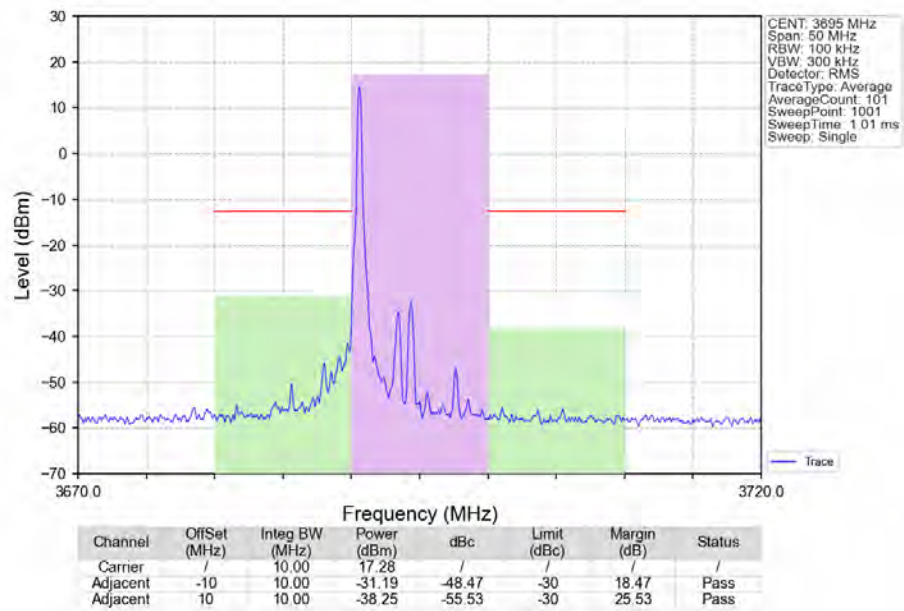
Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_49\_NTNV



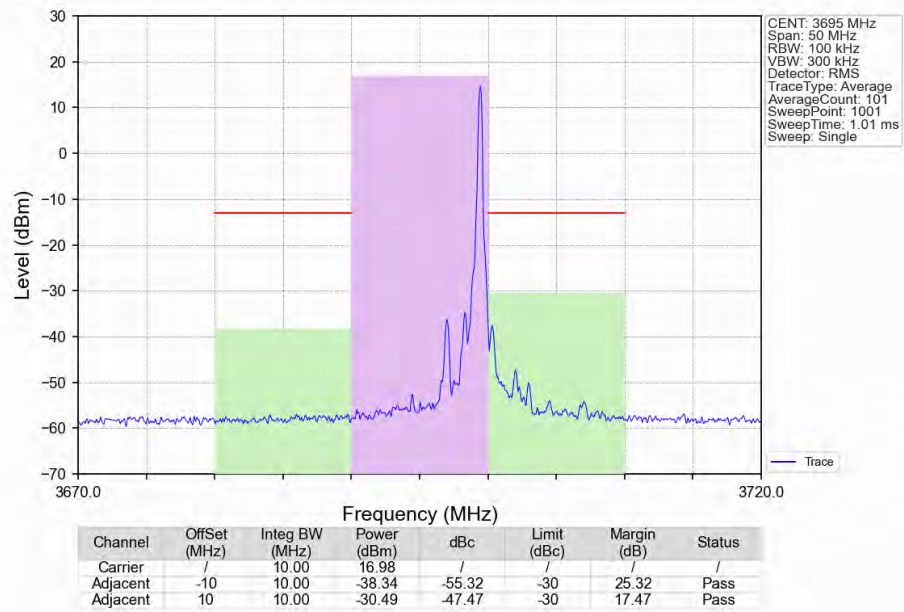
Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_50\_0\_NTNV



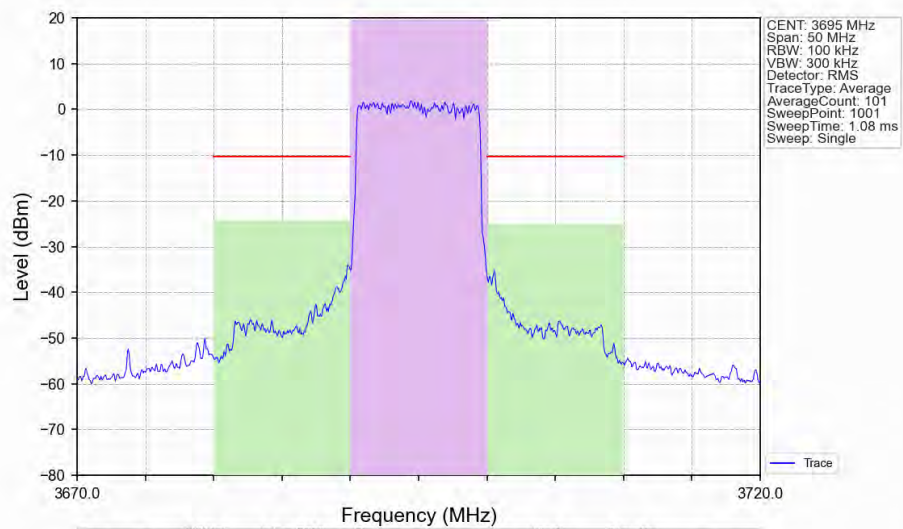
Band48 10MHz QPSK HCH 3695MHz RB 1 0 NTN



Band48 10MHz QPSK HCH 3695MHz RB 1 49 NTN



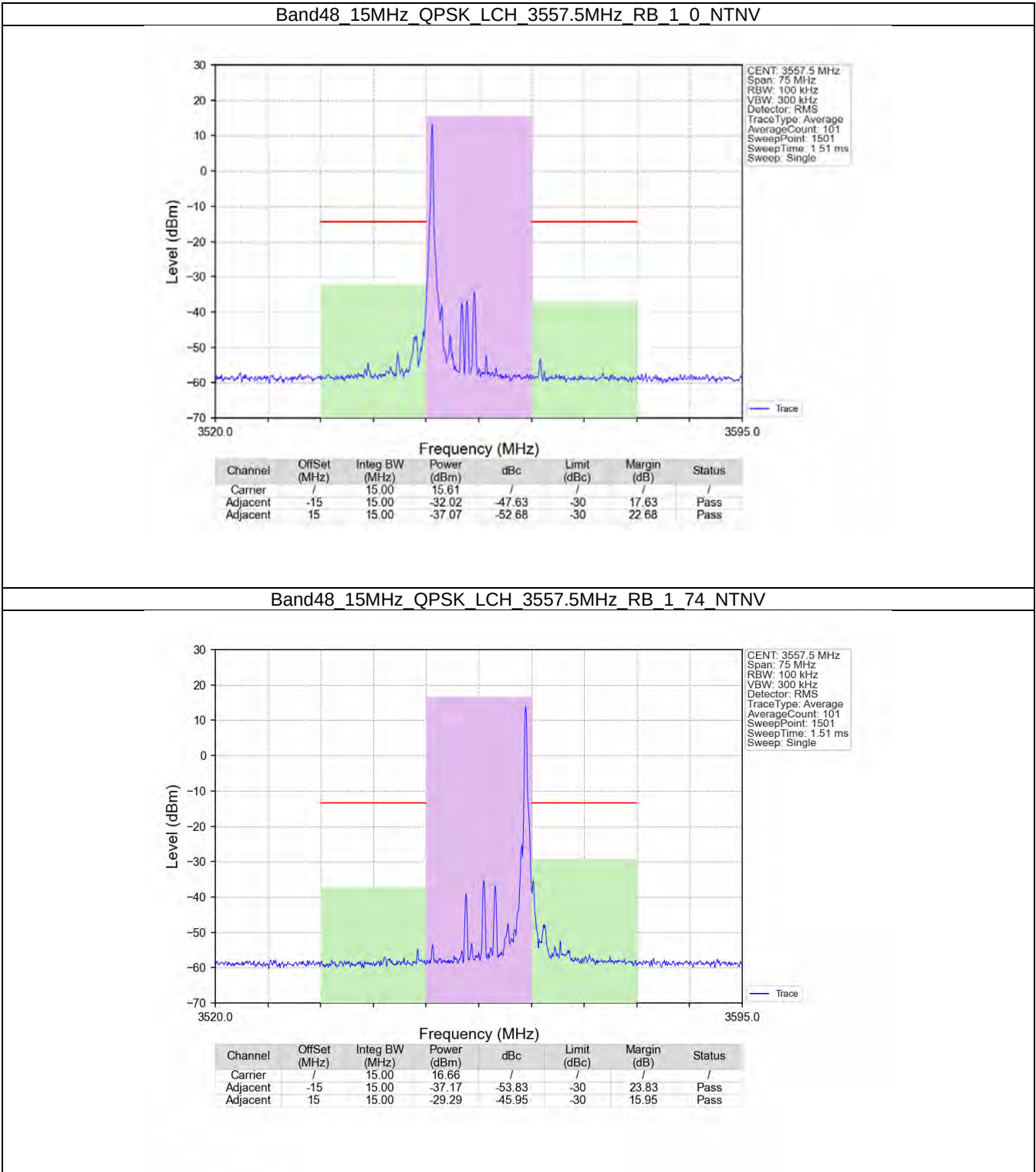
Band48 10MHz QPSK HCH 3695MHz RB 50 0 NTNV



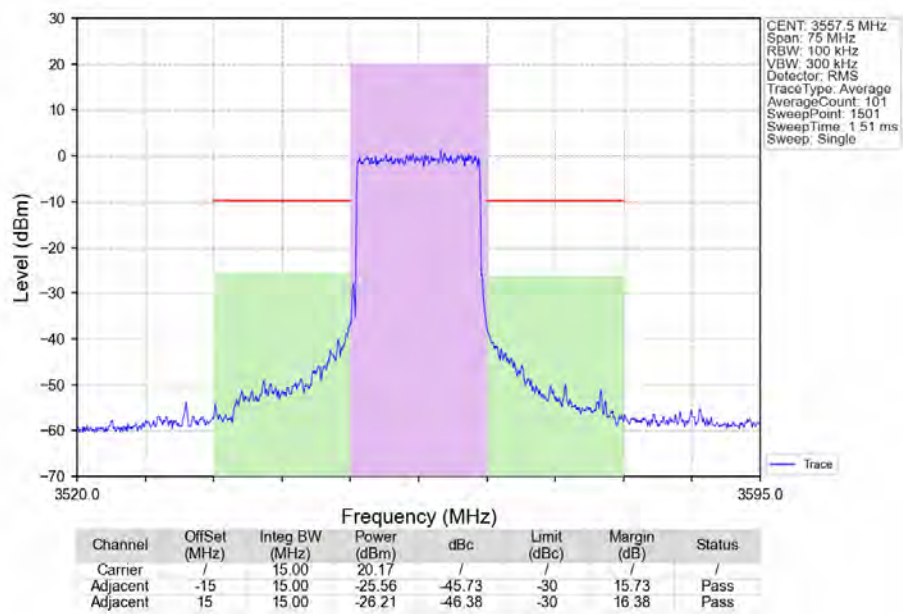
| Channel  | OffSet (MHz) | Integ BW (MHz) | Power (dBm) | dBc    | Limit (dBc) | Margin (dB) | Status |
|----------|--------------|----------------|-------------|--------|-------------|-------------|--------|
| Carrier  | /            | 10.00          | 19.68       | /      | /           | /           | /      |
| Adjacent | -10          | 10.00          | -24.18      | -43.86 | -30         | 13.86       | Pass   |
| Adjacent | 10           | 10.00          | -25.19      | -44.87 | -30         | 14.87       | Pass   |

6.3 B48\_15MHz

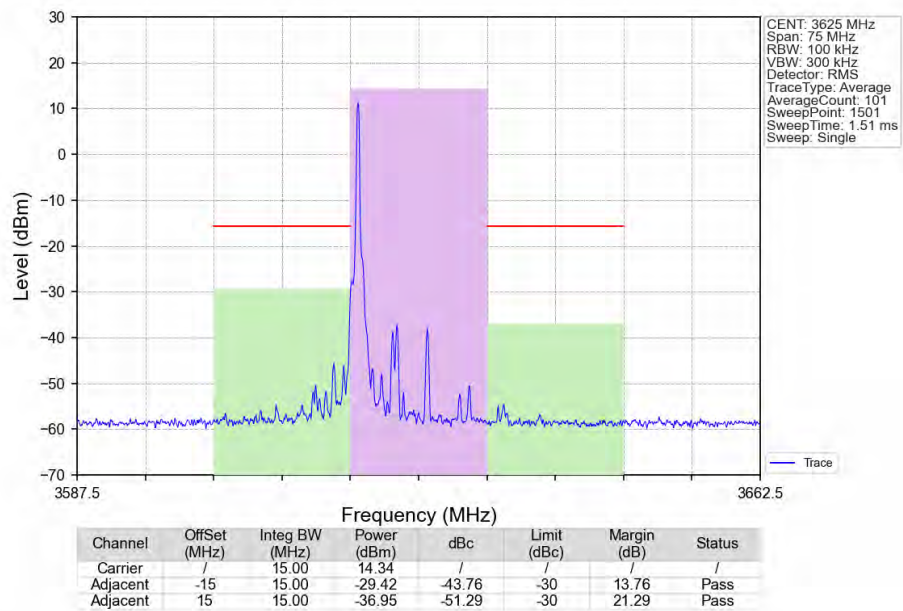
6.3.2 Test Graph



Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV

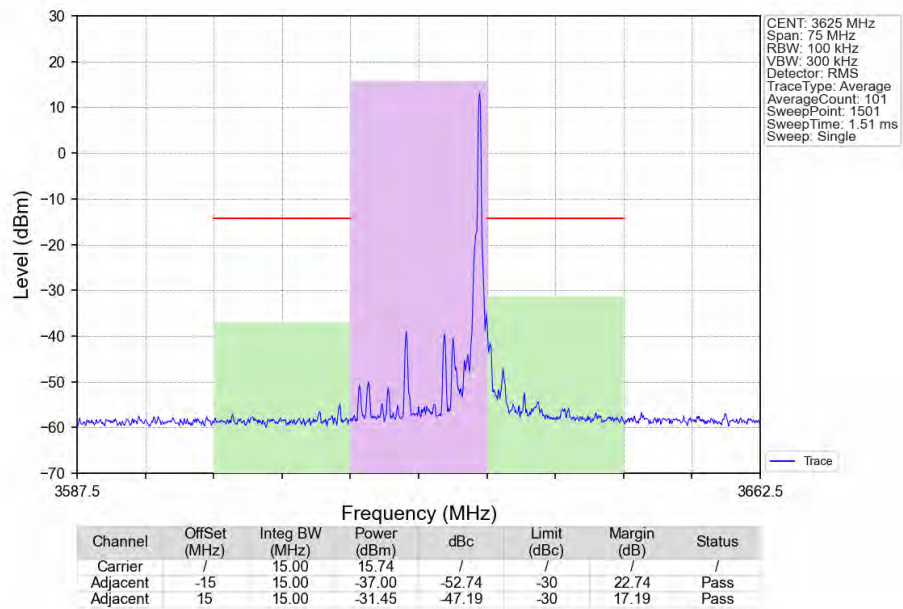


Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

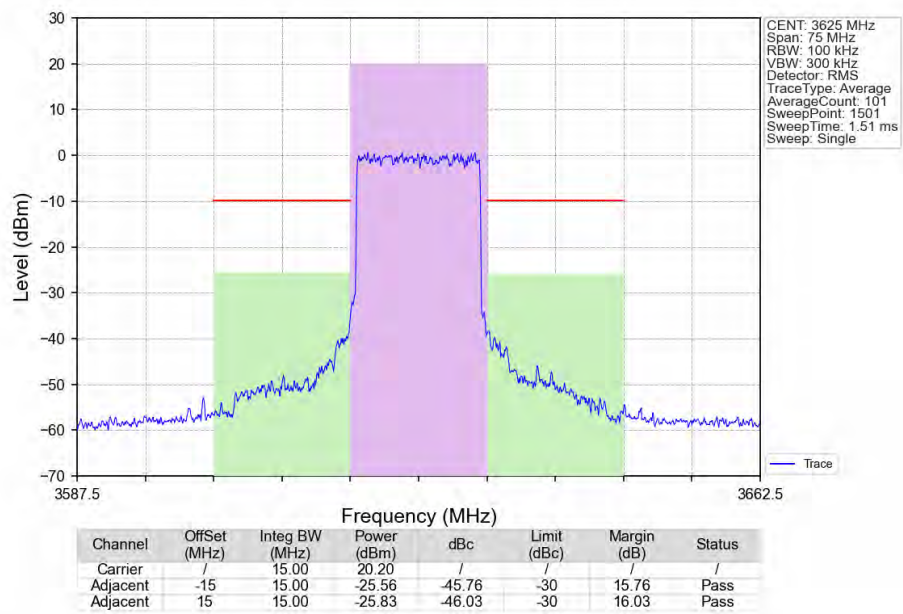




Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_74\_NTNV

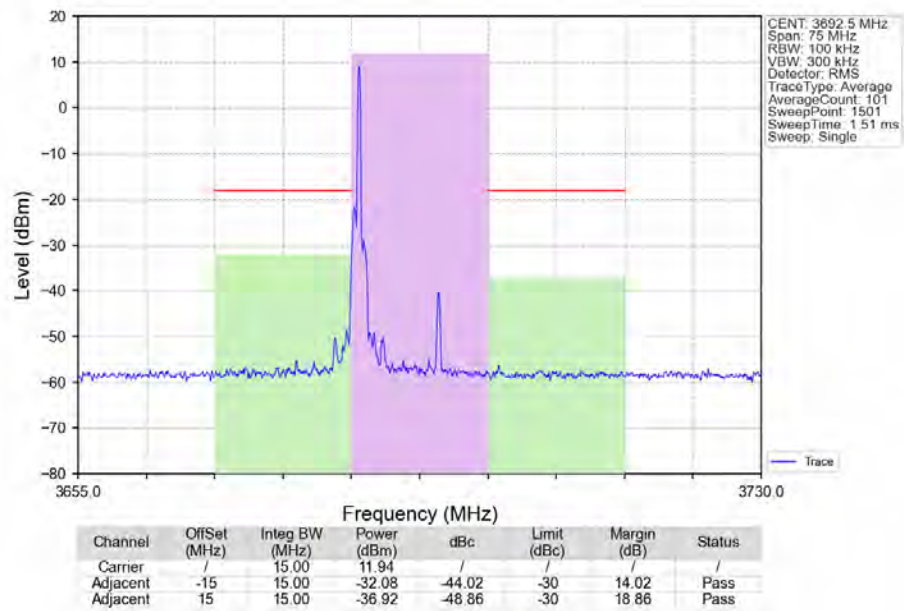


Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_75\_0\_NTNV

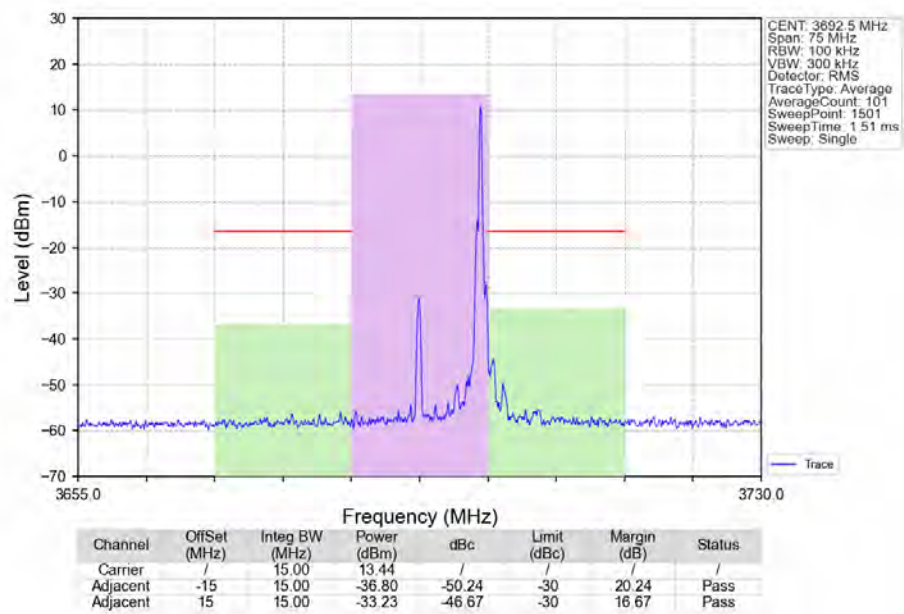




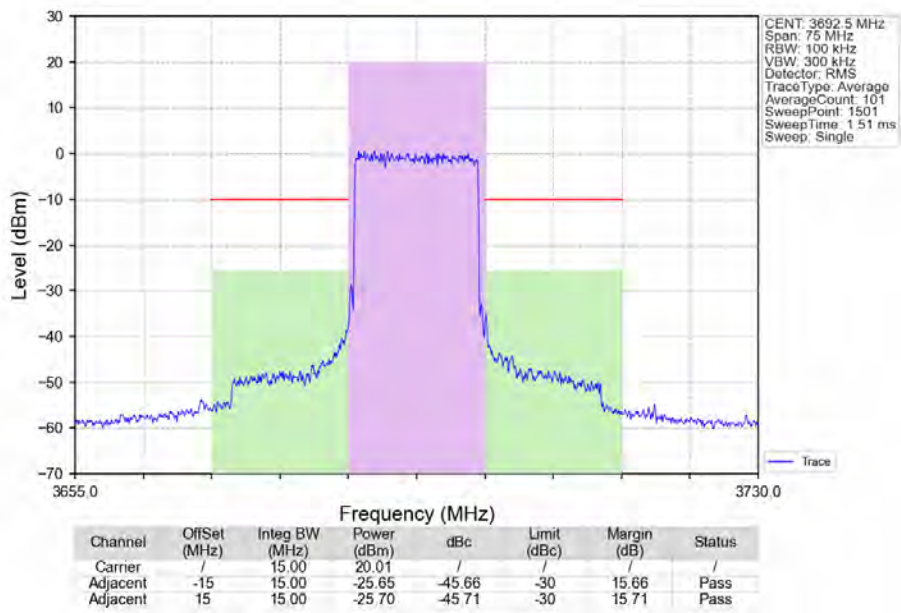
Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_1\_0\_NTNV



Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_1\_74\_NTNV

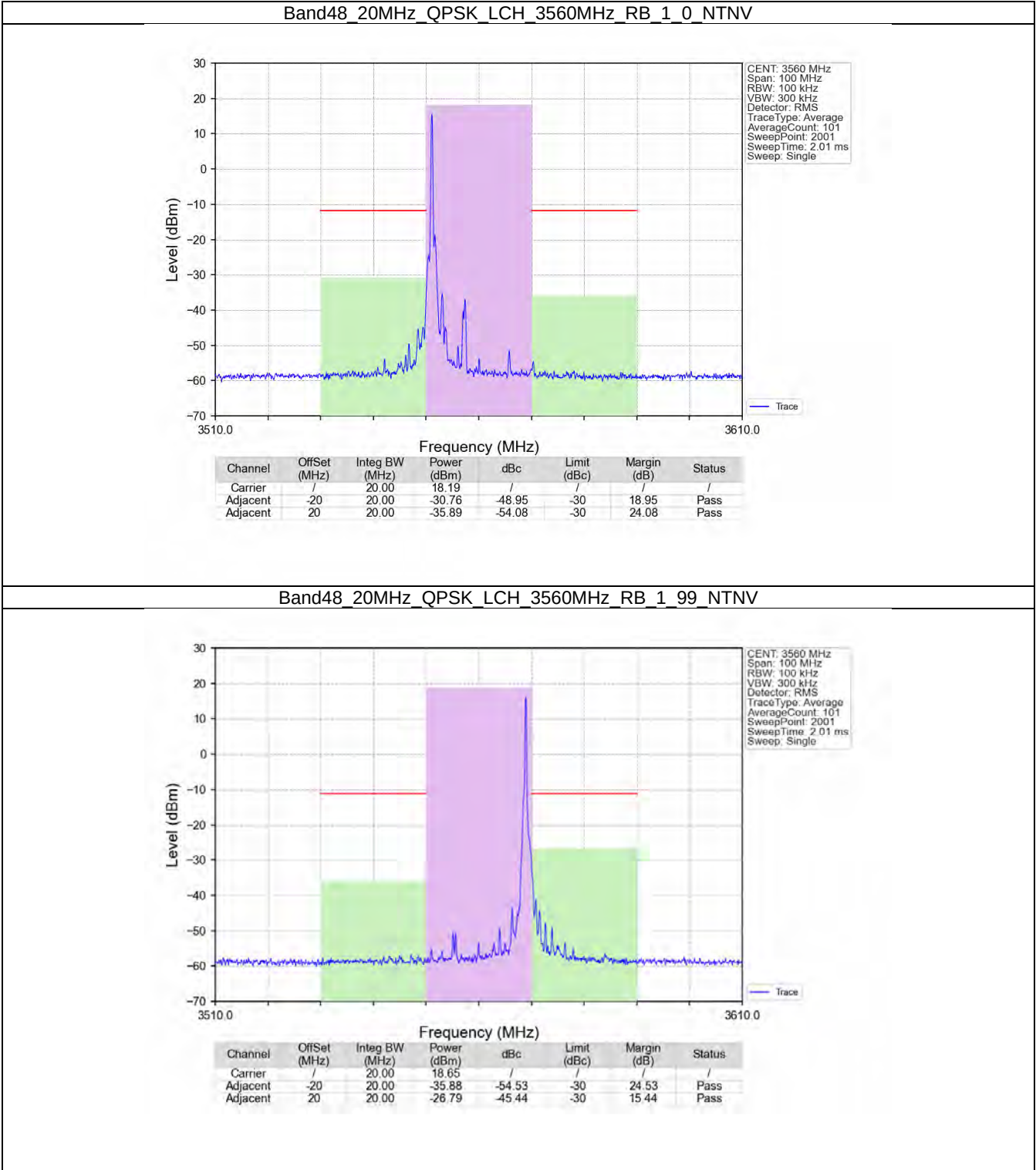


Band48 15MHz QPSK HCH 3692.5MHz RB 75 0 NTNV

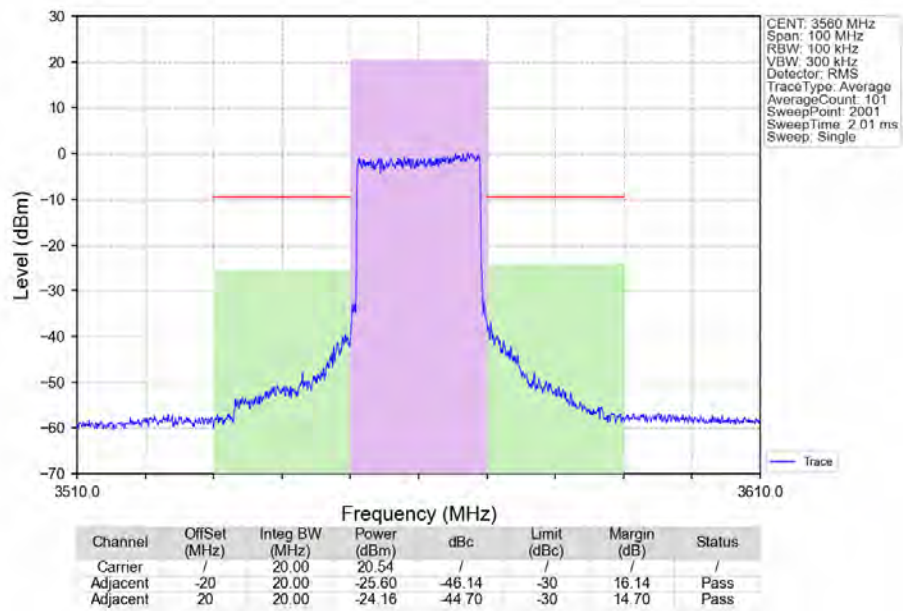


6.4 B48\_20MHz

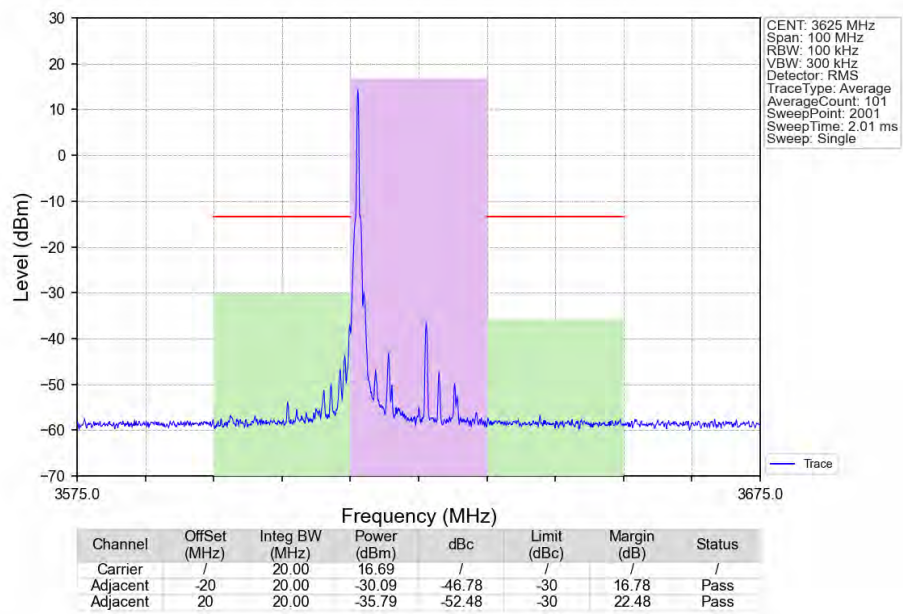
6.4.2 Test Graph



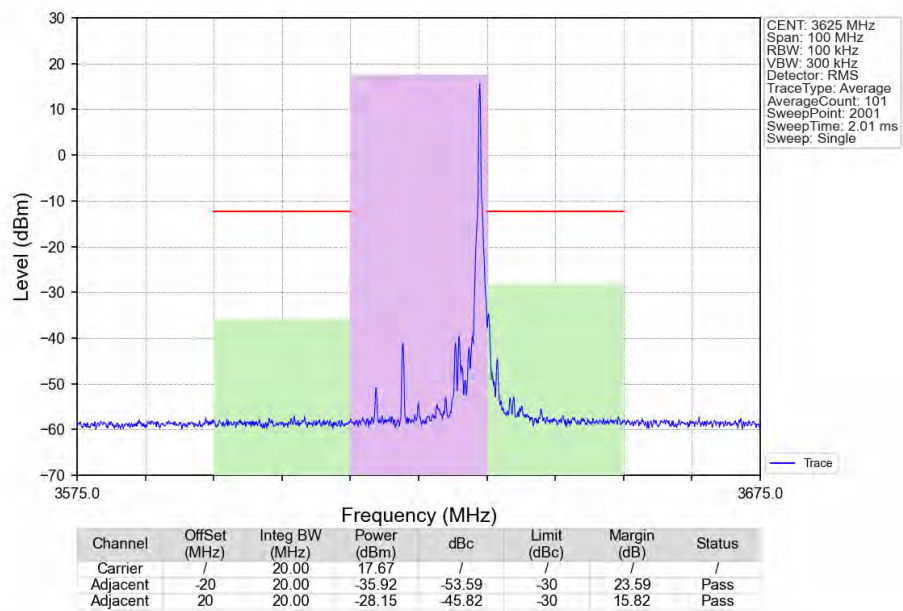
Band48 20MHz QPSK LCH 3560MHz RB 100 0 NTNV



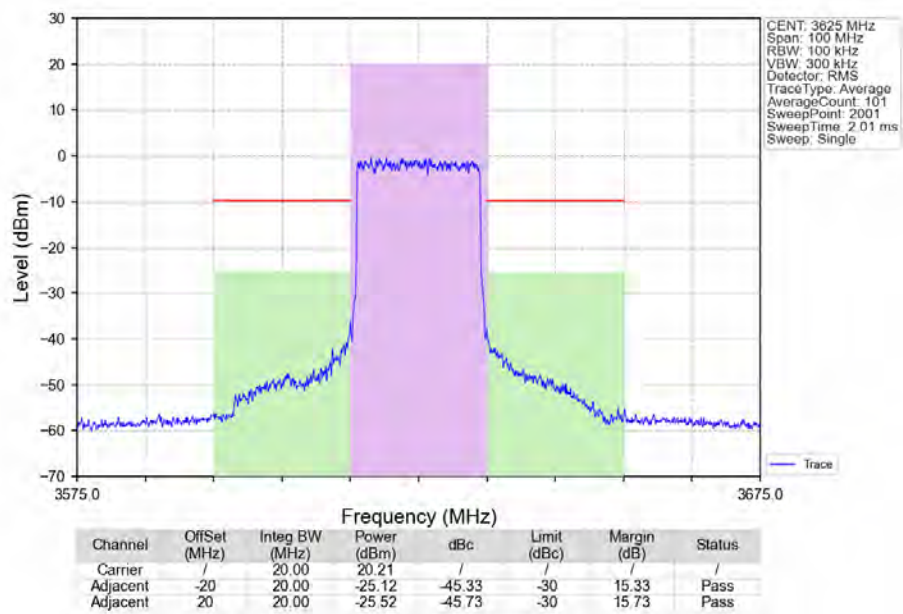
Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_99\_NTNV

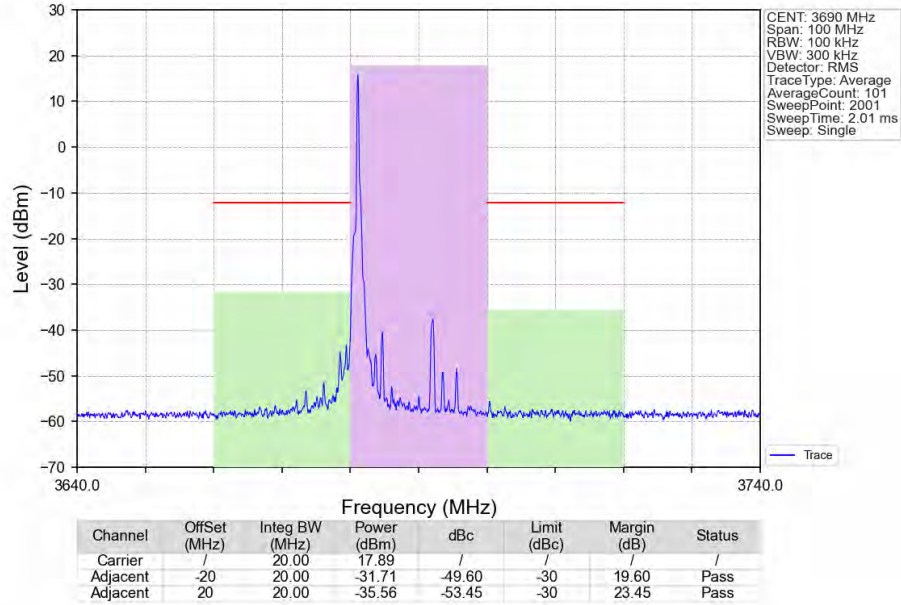


Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_100\_0\_NTNV

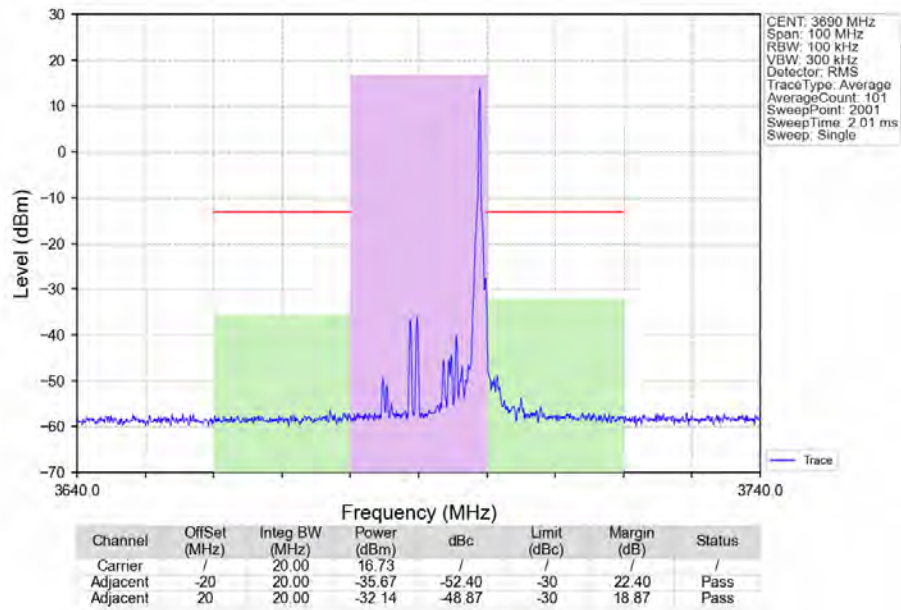




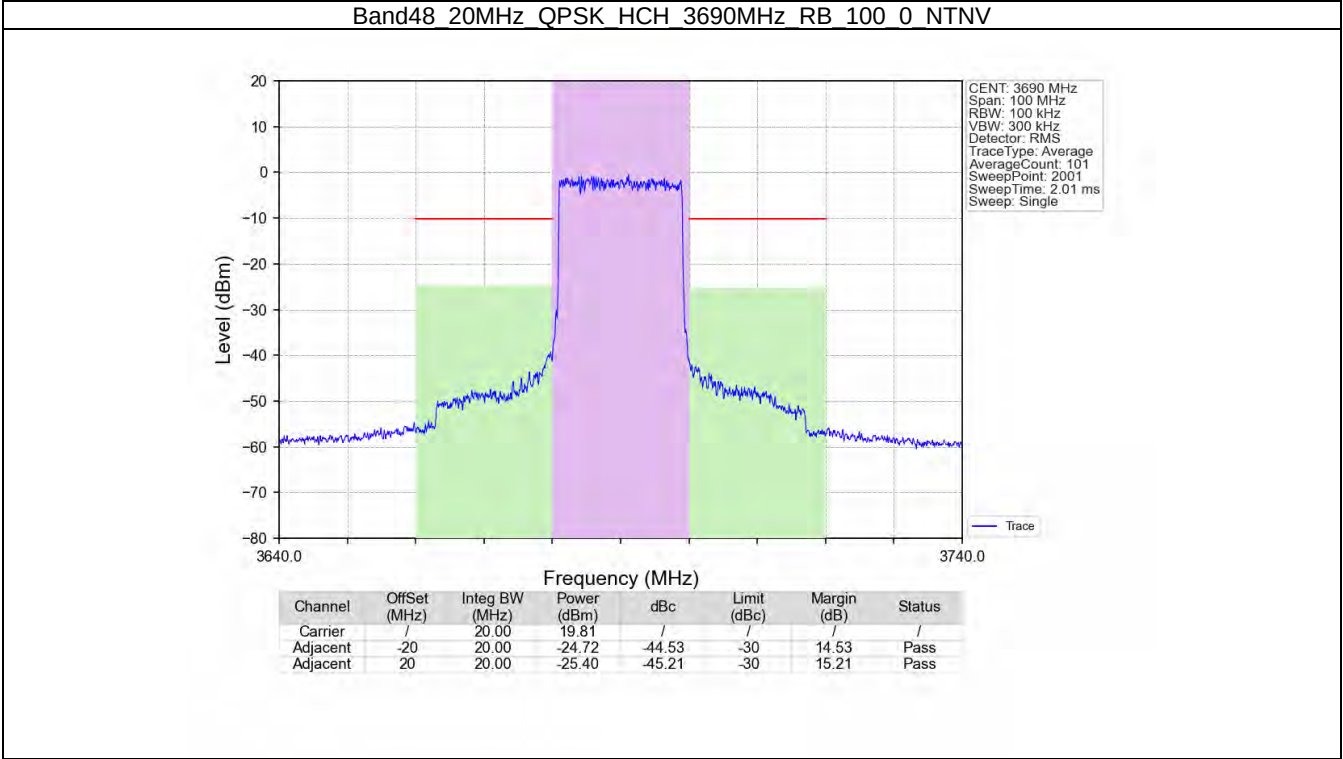
Band48 20MHz QPSK HCH 3690MHz RB 1 0 NTN



Band48 20MHz QPSK HCH 3690MHz RB 1 99 NTN







## 7. Field Strength of Spurious Radiation

For Sample #1:

**Test Band = LTE Band48\_ TM1**

**Test Channel = Low**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 7102.025        | 49.37          | -43.66      | 35.29    | -54.26      | -40.00      | 14.26       | Horizontal |
| 2               | 8910.975        | 40.22          | -40.91      | 36.55    | -59.39      | -40.00      | 19.39       | Horizontal |
| 3               | 9871.8          | 38.25          | -39.16      | 38.24    | -57.93      | -40.00      | 17.93       | Horizontal |
| 4               | 11412.225       | 36.45          | -37.39      | 38.81    | -57.39      | -40.00      | 17.39       | Horizontal |
| 5               | 13437.375       | 35.31          | -36.29      | 40.01    | -56.22      | -40.00      | 16.22       | Horizontal |
| 6               | 15058.3         | 33.55          | -34.45      | 41.48    | -54.69      | -40.00      | 14.69       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 7102.025        | 49.28          | -43.66      | 35.29    | -54.35      | -40.00      | 14.35       | Vertical |
| 2               | 8591.85         | 40.82          | -40.96      | 36.74    | -58.66      | -40.00      | 18.66       | Vertical |
| 3               | 10043.15        | 38.22          | -39.09      | 38.50    | -57.62      | -40.00      | 17.62       | Vertical |
| 4               | 11932.6         | 36.04          | -37.29      | 39.07    | -57.45      | -40.00      | 17.45       | Vertical |
| 5               | 13963.5         | 33.59          | -35.07      | 40.75    | -55.99      | -40.00      | 15.99       | Vertical |
| 6               | 15348.675       | 32.79          | -33.99      | 40.87    | -55.59      | -40.00      | 15.59       | Vertical |

**Test Band = LTE Band48\_ TM1**  
**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 7231.975        | 44.55          | -43.52      | 35.65    | -58.58      | -40.00      | 18.58       | Horizontal |
| 2               | 8584.95         | 41.39          | -41.03      | 36.75    | -58.15      | -40.00      | 18.15       | Horizontal |
| 3               | 9565.9          | 38.76          | -39.46      | 37.63    | -58.33      | -40.00      | 18.33       | Horizontal |
| 4               | 10702.675       | 36.04          | -37.52      | 38.57    | -58.17      | -40.00      | 18.17       | Horizontal |
| 5               | 11920.525       | 36.51          | -37.32      | 39.06    | -57.00      | -40.00      | 17.00       | Horizontal |
| 6               | 13700.725       | 34.77          | -35.99      | 40.38    | -56.10      | -40.00      | 16.10       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 7231.975        | 49.99          | -43.52      | 35.65    | -53.14      | -40.00      | 13.14       | Vertical |
| 2               | 8403.25         | 41.17          | -41.38      | 36.86    | -58.62      | -40.00      | 18.62       | Vertical |
| 3               | 9553.825        | 39.48          | -39.55      | 37.61    | -57.72      | -40.00      | 17.72       | Vertical |
| 4               | 11023.525       | 36.33          | -37.63      | 38.61    | -57.95      | -40.00      | 17.95       | Vertical |
| 5               | 12772.675       | 35.76          | -36.68      | 39.33    | -56.85      | -40.00      | 16.85       | Vertical |
| 6               | 14897.3         | 33.62          | -35.13      | 41.52    | -55.25      | -40.00      | 15.25       | Vertical |

**Test Band = LTE Band48\_ TM1**  
**Test Channel = High**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 7413.1          | 41.67          | -42.84      | 36.16    | -60.27      | -40.00      | 20.27       | Horizontal |
| 2               | 9006.425        | 39.48          | -40.84      | 36.51    | -60.11      | -40.00      | 20.11       | Horizontal |
| 3               | 10571.575       | 36.08          | -38.22      | 38.56    | -58.85      | -40.00      | 18.85       | Horizontal |
| 4               | 12052.775       | 36.08          | -37.19      | 39.12    | -57.25      | -40.00      | 17.25       | Horizontal |
| 5               | 13484.525       | 35.62          | -36.56      | 40.08    | -56.12      | -40.00      | 16.12       | Horizontal |
| 6               | 15168.7         | 31.89          | -33.99      | 41.25    | -56.11      | -40.00      | 16.11       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 7362.5          | 44.95          | -42.99      | 36.02    | -57.29      | -40.00      | 17.29       | Vertical |
| 2               | 8748.825        | 41.37          | -41.24      | 36.65    | -58.48      | -40.00      | 18.48       | Vertical |
| 3               | 10312.25        | 38.16          | -38.94      | 38.53    | -57.51      | -40.00      | 17.51       | Vertical |
| 4               | 11784.25        | 35.99          | -37.03      | 38.99    | -57.30      | -40.00      | 17.30       | Vertical |
| 5               | 13972.125       | 32.98          | -35.00      | 40.76    | -56.52      | -40.00      | 16.52       | Vertical |
| 6               | 15353.275       | 32.43          | -33.99      | 40.86    | -55.97      | -40.00      | 15.97       | Vertical |

For Sample #2:

**Test Band = LTE Band48\_ TM1**

**Test Channel = Low**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 7102.025        | 49.02          | -43.66      | 35.29    | -54.61      | -40.00      | 14.61       | Horizontal |
| 2               | 8101.95         | 40.81          | -41.36      | 37.04    | -58.77      | -40.00      | 18.77       | Horizontal |
| 3               | 9342.8          | 39.79          | -40.01      | 37.19    | -58.29      | -40.00      | 18.29       | Horizontal |
| 4               | 10956.25        | 35.93          | -37.69      | 38.60    | -58.42      | -40.00      | 18.42       | Horizontal |
| 5               | 12712.875       | 35.36          | -36.80      | 39.31    | -57.39      | -40.00      | 17.39       | Horizontal |
| 6               | 14391.875       | 34.66          | -35.14      | 41.11    | -54.63      | -40.00      | 14.63       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 7102.025        | 47.36          | -43.66      | 35.29    | -56.27      | -40.00      | 16.27       | Vertical |
| 2               | 8098.5          | 40.63          | -41.35      | 37.04    | -58.94      | -40.00      | 18.94       | Vertical |
| 3               | 9490            | 40.25          | -39.96      | 37.48    | -57.49      | -40.00      | 17.49       | Vertical |
| 4               | 10888.4         | 36.01          | -37.89      | 38.59    | -58.55      | -40.00      | 18.55       | Vertical |
| 5               | 12135           | 35.77          | -37.16      | 39.14    | -57.51      | -40.00      | 17.51       | Vertical |
| 6               | 14276.3         | 33.26          | -35.73      | 41.02    | -56.71      | -40.00      | 16.71       | Vertical |

**Test Band = LTE Band48\_ TM1**  
**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 7387.225        | 42.33          | -42.86      | 36.08    | -59.70      | -40.00      | 19.70       | Horizontal |
| 2               | 8760.9          | 41.25          | -41.22      | 36.64    | -58.58      | -40.00      | 18.58       | Horizontal |
| 3               | 10004.05        | 38.32          | -39.35      | 38.50    | -57.79      | -40.00      | 17.79       | Horizontal |
| 4               | 11420.85        | 36.00          | -37.30      | 38.81    | -57.75      | -40.00      | 17.75       | Horizontal |
| 5               | 13511.55        | 34.51          | -36.58      | 40.12    | -57.21      | -40.00      | 17.21       | Horizontal |
| 6               | 14517.8         | 32.26          | -34.43      | 41.21    | -56.22      | -40.00      | 16.22       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 7486.7          | 41.43          | -43.12      | 36.36    | -60.59      | -40.00      | 20.59       | Vertical |
| 2               | 9099            | 38.74          | -40.41      | 36.70    | -60.24      | -40.00      | 20.24       | Vertical |
| 3               | 10312.25        | 38.85          | -38.94      | 38.53    | -56.82      | -40.00      | 16.82       | Vertical |
| 4               | 11934.325       | 35.48          | -37.29      | 39.07    | -58.00      | -40.00      | 18.00       | Vertical |
| 5               | 13534.55        | 33.98          | -36.44      | 40.15    | -57.57      | -40.00      | 17.57       | Vertical |
| 6               | 15909.875       | 31.90          | -34.21      | 39.69    | -57.88      | -40.00      | 17.88       | Vertical |



**Test Band = LTE Band48\_ TM1**  
**Test Channel = High**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 7361.925        | 46.77          | -43.00      | 36.01    | -55.47      | -40.00      | 15.47       | Horizontal |
| 2               | 8347.475        | 41.10          | -41.63      | 36.89    | -58.90      | -40.00      | 18.90       | Horizontal |
| 3               | 10029.925       | 37.94          | -39.18      | 38.50    | -57.99      | -40.00      | 17.99       | Horizontal |
| 4               | 11085.05        | 35.83          | -37.73      | 38.64    | -58.51      | -40.00      | 18.51       | Horizontal |
| 5               | 12560.5         | 35.37          | -37.10      | 39.27    | -57.72      | -40.00      | 17.72       | Horizontal |
| 6               | 15326.25        | 31.76          | -33.96      | 40.91    | -56.54      | -40.00      | 16.54       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 7361.925        | 46.36          | -43.00      | 36.01    | -55.88      | -40.00      | 15.88       | Vertical |
| 2               | 8356.675        | 40.88          | -41.59      | 36.89    | -59.08      | -40.00      | 19.08       | Vertical |
| 3               | 9726.9          | 37.31          | -39.37      | 37.95    | -59.36      | -40.00      | 19.36       | Vertical |
| 4               | 11895.8         | 35.29          | -37.34      | 39.05    | -58.27      | -40.00      | 18.27       | Vertical |
| 5               | 13386.775       | 34.32          | -36.20      | 39.94    | -57.19      | -40.00      | 17.19       | Vertical |
| 6               | 14823.125       | 32.08          | -35.03      | 41.46    | -56.75      | -40.00      | 16.75       | Vertical |