# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 B4_1.4MHz_EIRP

| Band: 4 / Bandwidth: 1.4MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1710.7 | 1 | 0 | 20.46 | 0.64 | 21.10 | <=30 | Pass |
| | | | 2 | 20.46 | 0.64 | 21.10 | <=30 | Pass |
| | | | 5 | 20.39 | 0.64 | 21.03 | <=30 | Pass |
| | | 3 | 0 | 20.34 | 0.64 | 20.98 | <=30 | Pass |
| | | | 2 | 20.36 | 0.64 | 21.00 | <=30 | Pass |
| | | | 3 | 20.27 | 0.64 | 20.91 | <=30 | Pass |
| | | 6 | 0 | 19.31 | 0.64 | 19.95 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 20.36 | 0.64 | 21.00 | <=30 | Pass |
| | | | 2 | 20.36 | 0.64 | 21.00 | <=30 | Pass |
| | | | 5 | 20.41 | 0.64 | 21.05 | <=30 | Pass |
| | | 3 | 0 | 20.43 | 0.64 | 21.07 | <=30 | Pass |
| | | | 2 | 20.51 | 0.64 | 21.15 | <=30 | Pass |
| | | | 3 | 20.39 | 0.64 | 21.03 | <=30 | Pass |
| | | 6 | 0 | 19.47 | 0.64 | 20.11 | <=30 | Pass |
| | 1754.3 | 1 | 0 | 20.55 | 0.64 | 21.19 | <=30 | Pass |
| | | | 2 | 20.52 | 0.64 | 21.16 | <=30 | Pass |
| | | | 5 | 20.50 | 0.64 | 21.14 | <=30 | Pass |
| | | 3 | 0 | 20.60 | 0.64 | 21.24 | <=30 | Pass |
| | | | 2 | 20.60 | 0.64 | 21.24 | <=30 | Pass |
| | | | 3 | 20.59 | 0.64 | 21.23 | <=30 | Pass |
| | | 6 | 0 | 19.59 | 0.64 | 20.23 | <=30 | Pass |
| 16QAM | 1710.7 | 1 | 0 | 19.12 | 0.64 | 19.76 | <=30 | Pass |
| | | | 2 | 19.15 | 0.64 | 19.79 | <=30 | Pass |
| | | | 5 | 19.19 | 0.64 | 19.83 | <=30 | Pass |
| | | 3 | 0 | 19.40 | 0.64 | 20.04 | <=30 | Pass |
| | | | 2 | 19.35 | 0.64 | 19.99 | <=30 | Pass |
| | | | 3 | 19.28 | 0.64 | 19.92 | <=30 | Pass |
| | | 6 | 0 | 18.58 | 0.64 | 19.22 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 19.93 | 0.64 | 20.57 | <=30 | Pass |
| | | | 2 | 19.97 | 0.64 | 20.61 | <=30 | Pass |
| | | | 5 | 19.92 | 0.64 | 20.56 | <=30 | Pass |
| | | 3 | 0 | 19.65 | 0.64 | 20.29 | <=30 | Pass |
| | | | 2 | 19.70 | 0.64 | 20.34 | <=30 | Pass |
| | | | 3 | 19.71 | 0.64 | 20.35 | <=30 | Pass |
| | | 6 | 0 | 18.72 | 0.64 | 19.36 | <=30 | Pass |
| | 1754.3 | 1 | 0 | 20.02 | 0.64 | 20.66 | <=30 | Pass |
| | | | 2 | 19.99 | 0.64 | 20.63 | <=30 | Pass |
| | | | 5 | 19.97 | 0.64 | 20.61 | <=30 | Pass |
| | | 3 | 0 | 19.82 | 0.64 | 20.46 | <=30 | Pass |
| | | | 2 | 19.78 | 0.64 | 20.42 | <=30 | Pass |
| | | | 3 | 19.76 | 0.64 | 20.40 | <=30 | Pass |
| | | 6 | 0 | 18.78 | 0.64 | 19.42 | <=30 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

### 1.1.2 B4_3MHz_EIRP

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

| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
|---|---|---|---|---|---|---|---|---|
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1711.5 | 1 | 0 | 20.49 | 0.64 | 21.13 | <=30 | Pass |
| | | | 7 | 20.47 | 0.64 | 21.11 | <=30 | Pass |
| | | | 14 | 20.38 | 0.64 | 21.02 | <=30 | Pass |
| | | 8 | 0 | 19.32 | 0.64 | 19.96 | <=30 | Pass |
| | | | 4 | 19.39 | 0.64 | 20.03 | <=30 | Pass |
| | | | 7 | 19.36 | 0.64 | 20.00 | <=30 | Pass |
| | | 15 | 0 | 19.32 | 0.64 | 19.96 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 20.26 | 0.64 | 20.90 | <=30 | Pass |
| | | | 7 | 20.33 | 0.64 | 20.97 | <=30 | Pass |
| | | | 14 | 20.28 | 0.64 | 20.92 | <=30 | Pass |
| | | 8 | 0 | 19.42 | 0.64 | 20.06 | <=30 | Pass |
| | | | 4 | 19.40 | 0.64 | 20.04 | <=30 | Pass |
| | | | 7 | 19.36 | 0.64 | 20.00 | <=30 | Pass |
| | | 15 | 0 | 19.44 | 0.64 | 20.08 | <=30 | Pass |
| | 1753.5 | 1 | 0 | 20.58 | 0.64 | 21.22 | <=30 | Pass |
| | | | 7 | 20.57 | 0.64 | 21.21 | <=30 | Pass |
| | | | 14 | 20.55 | 0.64 | 21.19 | <=30 | Pass |
| | | 8 | 0 | 19.56 | 0.64 | 20.20 | <=30 | Pass |
| | | | 4 | 19.54 | 0.64 | 20.18 | <=30 | Pass |
| | | | 7 | 19.47 | 0.64 | 20.11 | <=30 | Pass |
| | | 15 | 0 | 19.49 | 0.64 | 20.13 | <=30 | Pass |
| 16QAM | 1711.5 | 1 | 0 | 19.51 | 0.64 | 20.15 | <=30 | Pass |
| | | | 7 | 19.38 | 0.64 | 20.02 | <=30 | Pass |
| | | | 14 | 19.47 | 0.64 | 20.11 | <=30 | Pass |
| | | 8 | 0 | 18.80 | 0.64 | 19.44 | <=30 | Pass |
| | | | 4 | 18.76 | 0.64 | 19.40 | <=30 | Pass |
| | | | 7 | 18.67 | 0.64 | 19.31 | <=30 | Pass |
| | | 15 | 0 | 18.50 | 0.64 | 19.14 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 20.36 | 0.64 | 21.00 | <=30 | Pass |
| | | | 7 | 20.40 | 0.64 | 21.04 | <=30 | Pass |
| | | | 14 | 20.49 | 0.64 | 21.13 | <=30 | Pass |
| | | 8 | 0 | 18.83 | 0.64 | 19.47 | <=30 | Pass |
| | | | 4 | 18.82 | 0.64 | 19.46 | <=30 | Pass |
| | | | 7 | 18.75 | 0.64 | 19.39 | <=30 | Pass |
| | | 15 | 0 | 18.64 | 0.64 | 19.28 | <=30 | Pass |
| | 1753.5 | 1 | 0 | 20.07 | 0.64 | 20.71 | <=30 | Pass |
| | | | 7 | 19.98 | 0.64 | 20.62 | <=30 | Pass |
| | | | 14 | 20.04 | 0.64 | 20.68 | <=30 | Pass |
| | | 8 | 0 | 18.96 | 0.64 | 19.60 | <=30 | Pass |
| | | | 4 | 19.07 | 0.64 | 19.71 | <=30 | Pass |
| | | | 7 | 18.97 | 0.64 | 19.61 | <=30 | Pass |
| | | 15 | 0 | 18.89 | 0.64 | 19.53 | <=30 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

### 1.1.3 B4_5MHz_EIRP

| Band: 4 / Bandwidth: 5MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1712.5 | 1 | 0 | 20.20 | 0.64 | 20.84 | <=30 | Pass |
| | | | 13 | 20.14 | 0.64 | 20.78 | <=30 | Pass |
| | | | 24 | 19.99 | 0.64 | 20.63 | <=30 | Pass |
| | | 12 | 0 | 19.34 | 0.64 | 19.98 | <=30 | Pass |
| | | | 6 | 19.35 | 0.64 | 19.99 | <=30 | Pass |
| | | | 13 | 19.28 | 0.64 | 19.92 | <=30 | Pass |



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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 25 | 0 | 19.33 | 0.64 | 19.97 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 20.40 | 0.64 | 21.04 | <=30 | Pass |
| | | | 13 | 20.42 | 0.64 | 21.06 | <=30 | Pass |
| | | | 24 | 20.40 | 0.64 | 21.04 | <=30 | Pass |
| | | 12 | 0 | 19.48 | 0.64 | 20.12 | <=30 | Pass |
| | | | 6 | 19.48 | 0.64 | 20.12 | <=30 | Pass |
| | | | 13 | 19.45 | 0.64 | 20.09 | <=30 | Pass |
| | | 25 | 0 | 19.43 | 0.64 | 20.07 | <=30 | Pass |
| | 1752.5 | 1 | 0 | 20.68 | 0.64 | 21.32 | <=30 | Pass |
| | | | 13 | 20.65 | 0.64 | 21.29 | <=30 | Pass |
| | | | 24 | 20.59 | 0.64 | 21.23 | <=30 | Pass |
| | | 12 | 0 | 19.63 | 0.64 | 20.27 | <=30 | Pass |
| | | | 6 | 19.63 | 0.64 | 20.27 | <=30 | Pass |
| | | | 13 | 19.58 | 0.64 | 20.22 | <=30 | Pass |
| | | 25 | 0 | 19.60 | 0.64 | 20.24 | <=30 | Pass |
| 16QAM | 1712.5 | 1 | 0 | 19.33 | 0.64 | 19.97 | <=30 | Pass |
| | | | 13 | 19.34 | 0.64 | 19.98 | <=30 | Pass |
| | | | 24 | 19.24 | 0.64 | 19.88 | <=30 | Pass |
| | | 12 | 0 | 18.57 | 0.64 | 19.21 | <=30 | Pass |
| | | | 6 | 18.58 | 0.64 | 19.22 | <=30 | Pass |
| | | | 13 | 18.54 | 0.64 | 19.18 | <=30 | Pass |
| | | 25 | 0 | 18.63 | 0.64 | 19.27 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 19.39 | 0.64 | 20.03 | <=30 | Pass |
| | | | 13 | 19.41 | 0.64 | 20.05 | <=30 | Pass |
| | | | 24 | 19.32 | 0.64 | 19.96 | <=30 | Pass |
| | | 12 | 0 | 18.73 | 0.64 | 19.37 | <=30 | Pass |
| | | | 6 | 18.71 | 0.64 | 19.35 | <=30 | Pass |
| | | | 13 | 18.73 | 0.64 | 19.37 | <=30 | Pass |
| | | 25 | 0 | 18.64 | 0.64 | 19.28 | <=30 | Pass |
| | 1752.5 | 1 | 0 | 18.88 | 0.64 | 19.52 | <=30 | Pass |
| | | | 13 | 18.92 | 0.64 | 19.56 | <=30 | Pass |
| | | | 24 | 18.88 | 0.64 | 19.52 | <=30 | Pass |
| | | 12 | 0 | 18.80 | 0.64 | 19.44 | <=30 | Pass |
| | | | 6 | 18.88 | 0.64 | 19.52 | <=30 | Pass |
| | | | 13 | 18.80 | 0.64 | 19.44 | <=30 | Pass |
| | | 25 | 0 | 18.88 | 0.64 | 19.52 | <=30 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

## 1.1.4 B4_10MHz_EIRP

| Band: 4 / Bandwidth: 10MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1715 | 1 | 0 | 20.46 | 0.64 | 21.10 | <=30 | Pass |
| | | | 25 | 20.36 | 0.64 | 21.00 | <=30 | Pass |
| | | | 49 | 20.34 | 0.64 | 20.98 | <=30 | Pass |
| | | 25 | 0 | 19.32 | 0.64 | 19.96 | <=30 | Pass |
| | | | 13 | 19.33 | 0.64 | 19.97 | <=30 | Pass |
| | | | 25 | 19.39 | 0.64 | 20.03 | <=30 | Pass |
| | | 50 | 0 | 19.29 | 0.64 | 19.93 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 20.29 | 0.64 | 20.93 | <=30 | Pass |
| | | | 25 | 20.30 | 0.64 | 20.94 | <=30 | Pass |
| | | | 49 | 20.38 | 0.64 | 21.02 | <=30 | Pass |
| | | 25 | 0 | 19.45 | 0.64 | 20.09 | <=30 | Pass |
| | | | 13 | 19.42 | 0.64 | 20.06 | <=30 | Pass |
| | | | 25 | 19.43 | 0.64 | 20.07 | <=30 | Pass |
| | | 50 | 0 | 19.42 | 0.64 | 20.06 | <=30 | Pass |



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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1750 | 1 | 0 | 20.54 | 0.64 | 21.18 | <=30 | Pass |
| | | | 25 | 20.47 | 0.64 | 21.11 | <=30 | Pass |
| | | | 49 | 20.54 | 0.64 | 21.18 | <=30 | Pass |
| | | 25 | 0 | 19.51 | 0.64 | 20.15 | <=30 | Pass |
| | | | 13 | 19.54 | 0.64 | 20.18 | <=30 | Pass |
| | | | 25 | 19.61 | 0.64 | 20.25 | <=30 | Pass |
| | | 50 | 0 | 19.54 | 0.64 | 20.18 | <=30 | Pass |
| 16QAM | 1715 | 1 | 0 | 19.45 | 0.64 | 20.09 | <=30 | Pass |
| | | | 25 | 19.37 | 0.64 | 20.01 | <=30 | Pass |
| | | | 49 | 19.35 | 0.64 | 19.99 | <=30 | Pass |
| | | 25 | 0 | 18.75 | 0.64 | 19.39 | <=30 | Pass |
| | | | 13 | 18.71 | 0.64 | 19.35 | <=30 | Pass |
| | | | 25 | 18.75 | 0.64 | 19.39 | <=30 | Pass |
| | | 50 | 0 | 18.58 | 0.64 | 19.22 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 19.80 | 0.64 | 20.44 | <=30 | Pass |
| | | | 25 | 19.90 | 0.64 | 20.54 | <=30 | Pass |
| | | | 49 | 19.99 | 0.64 | 20.63 | <=30 | Pass |
| | | 25 | 0 | 18.66 | 0.64 | 19.30 | <=30 | Pass |
| | | | 13 | 18.62 | 0.64 | 19.26 | <=30 | Pass |
| | | | 25 | 18.66 | 0.64 | 19.30 | <=30 | Pass |
| | | 50 | 0 | 18.66 | 0.64 | 19.30 | <=30 | Pass |
| | 1750 | 1 | 0 | 19.96 | 0.64 | 20.60 | <=30 | Pass |
| | | | 25 | 19.91 | 0.64 | 20.55 | <=30 | Pass |
| | | | 49 | 19.91 | 0.64 | 20.55 | <=30 | Pass |
| | | 25 | 0 | 18.78 | 0.64 | 19.42 | <=30 | Pass |
| | | | 13 | 18.75 | 0.64 | 19.39 | <=30 | Pass |
| | | | 25 | 18.78 | 0.64 | 19.42 | <=30 | Pass |
| | | 50 | 0 | 18.74 | 0.64 | 19.38 | <=30 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

## 1.1.5 B4_15MHz_EIRP

| Band: 4 / Bandwidth: 15MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1717.5 | 1 | 0 | 20.57 | 0.64 | 21.21 | <=30 | Pass |
| | | | 38 | 20.55 | 0.64 | 21.19 | <=30 | Pass |
| | | | 74 | 20.53 | 0.64 | 21.17 | <=30 | Pass |
| | | 36 | 0 | 19.26 | 0.64 | 19.90 | <=30 | Pass |
| | | | 18 | 19.31 | 0.64 | 19.95 | <=30 | Pass |
| | | | 39 | 19.33 | 0.64 | 19.97 | <=30 | Pass |
| | | 75 | 0 | 19.30 | 0.64 | 19.94 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 20.21 | 0.64 | 20.85 | <=30 | Pass |
| | | | 38 | 20.32 | 0.64 | 20.96 | <=30 | Pass |
| | | | 74 | 20.37 | 0.64 | 21.01 | <=30 | Pass |
| | | 36 | 0 | 19.35 | 0.64 | 19.99 | <=30 | Pass |
| | | | 18 | 19.40 | 0.64 | 20.04 | <=30 | Pass |
| | | | 39 | 19.50 | 0.64 | 20.14 | <=30 | Pass |
| | | 75 | 0 | 19.45 | 0.64 | 20.09 | <=30 | Pass |
| | 1747.5 | 1 | 0 | 20.34 | 0.64 | 20.98 | <=30 | Pass |
| | | | 38 | 20.37 | 0.64 | 21.01 | <=30 | Pass |
| | | | 74 | 20.43 | 0.64 | 21.07 | <=30 | Pass |
| | | 36 | 0 | 19.53 | 0.64 | 20.17 | <=30 | Pass |
| | | | 18 | 19.54 | 0.64 | 20.18 | <=30 | Pass |
| | | | 39 | 19.61 | 0.64 | 20.25 | <=30 | Pass |
| | | 75 | 0 | 19.58 | 0.64 | 20.22 | <=30 | Pass |
| 16QAM | 1717.5 | 1 | 0 | 19.77 | 0.64 | 20.41 | <=30 | Pass |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 38 | 19.72 | 0.64 | 20.36 | <=30 | Pass |
| | | | 74 | 19.65 | 0.64 | 20.29 | <=30 | Pass |
| | | 36 | 0 | 18.45 | 0.64 | 19.09 | <=30 | Pass |
| | | | 18 | 18.56 | 0.64 | 19.20 | <=30 | Pass |
| | | | 39 | 18.47 | 0.64 | 19.11 | <=30 | Pass |
| | | 75 | 0 | 18.55 | 0.64 | 19.19 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 20.18 | 0.64 | 20.82 | <=30 | Pass |
| | | | 38 | 20.43 | 0.64 | 21.07 | <=30 | Pass |
| | | | 74 | 20.54 | 0.64 | 21.18 | <=30 | Pass |
| | | 36 | 0 | 18.52 | 0.64 | 19.16 | <=30 | Pass |
| | | | 18 | 18.53 | 0.64 | 19.17 | <=30 | Pass |
| | | | 39 | 18.60 | 0.64 | 19.24 | <=30 | Pass |
| | | 75 | 0 | 18.63 | 0.64 | 19.27 | <=30 | Pass |
| | 1747.5 | 1 | 0 | 20.09 | 0.64 | 20.73 | <=30 | Pass |
| | | | 38 | 20.14 | 0.64 | 20.78 | <=30 | Pass |
| | | | 74 | 20.09 | 0.64 | 20.73 | <=30 | Pass |
| | | 36 | 0 | 18.70 | 0.64 | 19.34 | <=30 | Pass |
| | | | 18 | 18.81 | 0.64 | 19.45 | <=30 | Pass |
| | | | 39 | 18.84 | 0.64 | 19.48 | <=30 | Pass |
| | | 75 | 0 | 18.72 | 0.64 | 19.36 | <=30 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

## 1.1.6 B4_20MHz_EIRP

| Band: 4 / Bandwidth: 20MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1720 | 1 | 0 | 20.21 | 0.64 | 20.85 | <=30 | Pass |
| | | | 50 | 20.15 | 0.64 | 20.79 | <=30 | Pass |
| | | | 99 | 20.19 | 0.64 | 20.83 | <=30 | Pass |
| | | 50 | 0 | 19.37 | 0.64 | 20.01 | <=30 | Pass |
| | | | 25 | 19.34 | 0.64 | 19.98 | <=30 | Pass |
| | | | 50 | 19.33 | 0.64 | 19.97 | <=30 | Pass |
| | | 100 | 0 | 19.33 | 0.64 | 19.97 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 20.32 | 0.64 | 20.96 | <=30 | Pass |
| | | | 50 | 20.42 | 0.64 | 21.06 | <=30 | Pass |
| | | | 99 | 20.46 | 0.64 | 21.10 | <=30 | Pass |
| | | 50 | 0 | 19.40 | 0.64 | 20.04 | <=30 | Pass |
| | | | 25 | 19.48 | 0.64 | 20.12 | <=30 | Pass |
| | | | 50 | 19.49 | 0.64 | 20.13 | <=30 | Pass |
| | | 100 | 0 | 19.47 | 0.64 | 20.11 | <=30 | Pass |
| | 1745 | 1 | 0 | 20.45 | 0.64 | 21.09 | <=30 | Pass |
| | | | 50 | 20.44 | 0.64 | 21.08 | <=30 | Pass |
| | | | 99 | 20.54 | 0.64 | 21.18 | <=30 | Pass |
| | | 50 | 0 | 19.54 | 0.64 | 20.18 | <=30 | Pass |
| | | | 25 | 19.57 | 0.64 | 20.21 | <=30 | Pass |
| | | | 50 | 19.54 | 0.64 | 20.18 | <=30 | Pass |
| | | 100 | 0 | 19.51 | 0.64 | 20.15 | <=30 | Pass |
| 16QAM | 1720 | 1 | 0 | 19.76 | 0.64 | 20.40 | <=30 | Pass |
| | | | 50 | 19.61 | 0.64 | 20.25 | <=30 | Pass |
| | | | 99 | 19.67 | 0.64 | 20.31 | <=30 | Pass |
| | | 50 | 0 | 18.67 | 0.64 | 19.31 | <=30 | Pass |
| | | | 25 | 18.64 | 0.64 | 19.28 | <=30 | Pass |
| | | | 50 | 18.59 | 0.64 | 19.23 | <=30 | Pass |
| | | 100 | 0 | 18.53 | 0.64 | 19.17 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 19.33 | 0.64 | 19.97 | <=30 | Pass |
| | | | 50 | 19.43 | 0.64 | 20.07 | <=30 | Pass |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 99 | 19.49 | 0.64 | 20.13 | <=30 | Pass |
| | | 50 | 0 | 18.67 | 0.64 | 19.31 | <=30 | Pass |
| | | | 25 | 18.68 | 0.64 | 19.32 | <=30 | Pass |
| | | | 50 | 18.74 | 0.64 | 19.38 | <=30 | Pass |
| | | 100 | 0 | 18.61 | 0.64 | 19.25 | <=30 | Pass |
| | 1745 | 1 | 0 | 20.33 | 0.64 | 20.97 | <=30 | Pass |
| | | | 50 | 20.37 | 0.64 | 21.01 | <=30 | Pass |
| | | | 99 | 20.37 | 0.64 | 21.01 | <=30 | Pass |
| | | 50 | 0 | 18.78 | 0.64 | 19.42 | <=30 | Pass |
| | | | 25 | 18.74 | 0.64 | 19.38 | <=30 | Pass |
| | | | 50 | 18.73 | 0.64 | 19.37 | <=30 | Pass |
| | | 100 | 0 | 18.82 | 0.64 | 19.46 | <=30 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

# 2. Frequency Stability

## 2.1 Test Result

### 2.1.1 B4_1.4MHz

| Band: 4 / Bandwidth: 1.4MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 1710.7 | 6 | 0 | 20 | 3.27 | 1.373 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.715 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 1.030 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 1.945 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 1.788 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.958 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 1.073 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.944 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 1.459 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 2.117 | 0.0012 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 1.760 | 0.0010 | -2.5 to 2.5 | Pass |
| | 1732.5 | 6 | 0 | 20 | 3.27 | -1.645 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.659 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.130 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -2.131 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.373 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -2.446 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.332 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.531 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -2.217 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.745 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.874 | -0.0011 | -2.5 to 2.5 | Pass |
| | 1754.3 | 6 | 0 | 20 | 3.27 | 0.172 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.944 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 2.503 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 2.046 | 0.0012 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 1.931 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 2.403 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.544 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 2.847 | 0.0016 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 1.330 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 2.360 | 0.0013 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 1.645 | 0.0009 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 16QAM | 1710.7 | 6 | 0 | 20 | 3.27 | 0.200 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.229 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.930 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.243 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.000 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.343 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.272 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.629 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.043 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.672 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.186 | 0.0001 | -2.5 to 2.5 | Pass |
| | 1732.5 | 6 | 0 | 20 | 3.27 | 1.116 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.143 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.730 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.215 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 1.373 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.086 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 1.202 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.544 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.730 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.730 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.186 | -0.0001 | -2.5 to 2.5 | Pass |
| | 1754.3 | 6 | 0 | 20 | 3.27 | 1.945 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 1.903 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 2.532 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 1.459 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 1.202 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 1.459 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 1.144 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 1.388 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 1.974 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 1.087 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.415 | -0.0002 | -2.5 to 2.5 | Pass |

## 2.1.2 B4_3MHz

| Band: 4 / Bandwidth: 3MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 1711.5 | 15 | 0 | 20 | 3.27 | 0.944 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 1.874 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 1.187 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 1.659 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.486 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.072 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.672 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.687 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.358 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.587 | 0.0003 | -2.5 to 2.5 | Pass |
| | 1732.5 | 15 | 0 | 20 | 3.27 | -1.330 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.715 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.415 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.916 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.130 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.059 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.172 | 0.0001 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 10 | 3.85 | -1.302 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.574 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.531 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.788 | -0.0010 | -2.5 to 2.5 | Pass |
| | 1753.5 | 15 | 0 | 20 | 3.27 | 0.043 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.486 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.300 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.558 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.858 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.415 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.744 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.558 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.687 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.257 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.257 | 0.0001 | -2.5 to 2.5 | Pass |
| 16QAM | 1711.5 | 15 | 0 | 20 | 3.27 | -0.215 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.730 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.973 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.758 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.644 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.215 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.372 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.229 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.730 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.143 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.300 | 0.0002 | -2.5 to 2.5 | Pass |
| | 1732.5 | 15 | 0 | 20 | 3.27 | -1.330 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.631 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.944 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.359 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.702 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.874 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.845 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.760 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.916 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.358 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.300 | 0.0002 | -2.5 to 2.5 | Pass |
| | 1753.5 | 15 | 0 | 20 | 3.27 | 1.316 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.401 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.443 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.901 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.315 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.329 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.086 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.930 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.343 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 1.531 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 1.030 | 0.0006 | -2.5 to 2.5 | Pass |

### 2.1.3 B4_5MHz

| Band: 4 / Bandwidth: 5MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 1712.5 | 25 | 0 | 20 | 3.27 | 0.658 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 1.574 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.772 | 0.0005 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -30 | 3.85 | 0.329 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.801 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.687 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.072 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.172 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.486 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 1.130 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.901 | 0.0005 | -2.5 to 2.5 | Pass |
| | 1732.5 | 25 | 0 | 20 | 3.27 | -2.718 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.432 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -2.704 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -2.975 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -2.832 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -2.832 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.532 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.532 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -2.718 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.117 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -2.646 | -0.0015 | -2.5 to 2.5 | Pass |
| | 1752.5 | 25 | 0 | 20 | 3.27 | -1.230 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.801 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.744 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.143 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.544 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.659 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.172 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.701 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.130 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.815 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.230 | -0.0007 | -2.5 to 2.5 | Pass |
| 16QAM | 1712.5 | 25 | 0 | 20 | 3.27 | -0.486 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.257 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.200 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.887 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 1.116 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.701 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.343 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.300 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.315 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.515 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.315 | -0.0002 | -2.5 to 2.5 | Pass |
| | 1732.5 | 25 | 0 | 20 | 3.27 | -1.459 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.174 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -2.189 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.945 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -2.160 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.988 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.717 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.402 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 1.287 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.030 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.229 | -0.0001 | -2.5 to 2.5 | Pass |
| | 1752.5 | 25 | 0 | 20 | 3.27 | -0.830 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.257 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.987 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.286 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.801 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.916 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.030 | -0.0006 | -2.5 to 2.5 | Pass |



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| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 10 | 3.85 | -0.687 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.701 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.629 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.144 | -0.0007 | -2.5 to 2.5 | Pass |

## 2.1.4 B4_10MHz

| Band: 4 / Bandwidth: 10MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 1715 | 50 | 0 | 20 | 3.27 | -2.131 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.116 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.229 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.901 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 3.262 | 0.0019 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.429 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.486 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.844 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.388 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.273 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.215 | -0.0001 | -2.5 to 2.5 | Pass |
| | 1732.5 | 50 | 0 | 20 | 3.27 | -1.788 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.343 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.587 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.001 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.259 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.073 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.559 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.973 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.415 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.215 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.801 | -0.0005 | -2.5 to 2.5 | Pass |
| | 1750 | 50 | 0 | 20 | 3.27 | -0.801 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.343 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.659 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.615 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.173 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.388 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.472 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.443 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.315 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.587 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.987 | -0.0006 | -2.5 to 2.5 | Pass |
| 16QAM | 1715 | 50 | 0 | 20 | 3.27 | 0.186 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.243 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.730 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.087 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.858 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.916 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.044 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.472 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.043 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.057 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.958 | -0.0006 | -2.5 to 2.5 | Pass |
| | 1732.5 | 50 | 0 | 20 | 3.27 | -0.215 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.329 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.286 | -0.0002 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -30 | 3.85 | -0.544 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.772 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.386 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.001 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.386 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.001 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.873 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.672 | -0.0004 | -2.5 to 2.5 | Pass |
| | 1750 | 50 | 0 | 20 | 3.27 | -0.658 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.302 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.073 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.715 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.558 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.302 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.059 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.302 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.101 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.116 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.558 | -0.0003 | -2.5 to 2.5 | Pass |

## 2.1.5 B4_15MHz

| Band: 4 / Bandwidth: 15MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 1717.5 | 75 | 0 | 20 | 3.27 | -0.730 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.787 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.531 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.887 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.831 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.731 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.044 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.345 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.030 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.787 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.645 | -0.0010 | -2.5 to 2.5 | Pass |
| | 1732.5 | 75 | 0 | 20 | 3.27 | -0.787 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.073 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.215 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.701 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.744 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.558 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.458 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.501 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.774 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.373 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.144 | -0.0007 | -2.5 to 2.5 | Pass |
| | 1747.5 | 75 | 0 | 20 | 3.27 | -2.189 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.801 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.801 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.116 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.930 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.057 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.674 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.632 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -2.060 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.246 | -0.0013 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 50 | 3.85 | -2.117 | -0.0012 | -2.5 to 2.5 | Pass |
| 16QAM | 1717.5 | 75 | 0 | 20 | 3.27 | -0.687 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.286 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.658 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.486 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.701 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.931 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.117 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.960 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.101 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.988 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.431 | -0.0008 | -2.5 to 2.5 | Pass |
| | 1732.5 | 75 | 0 | 20 | 3.27 | -1.502 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.588 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.615 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.415 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.014 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.845 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.817 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.372 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.788 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.658 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.715 | -0.0004 | -2.5 to 2.5 | Pass |
| | 1747.5 | 75 | 0 | 20 | 3.27 | -1.588 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.287 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.903 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.931 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.802 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.787 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.516 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.745 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.416 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.531 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.059 | -0.0006 | -2.5 to 2.5 | Pass |

## 2.1.6 B4_20MHz

| Band: 4 / Bandwidth: 20MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 1720 | 100 | 0 | 20 | 3.27 | -1.087 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.259 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.601 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.616 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.458 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.429 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.544 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.730 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.129 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.830 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.000 | 0.0000 | -2.5 to 2.5 | Pass |
| | 1732.5 | 100 | 0 | 20 | 3.27 | -0.987 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.057 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.116 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.472 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.801 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.373 | -0.0008 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 0 | 3.85 | -0.515 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.544 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.358 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.429 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.286 | -0.0002 | -2.5 to 2.5 | Pass |
| | 1745 | 100 | 0 | 20 | 3.27 | 0.415 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 1.616 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.486 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.815 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.901 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 1.631 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 1.631 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.944 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.615 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.229 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.629 | 0.0004 | -2.5 to 2.5 | Pass |
| 16QAM | 1720 | 100 | 0 | 20 | 3.27 | 0.744 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.300 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.100 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.229 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.086 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.672 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.129 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.601 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.057 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.401 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.129 | 0.0001 | -2.5 to 2.5 | Pass |
| | 1732.5 | 100 | 0 | 20 | 3.27 | -1.631 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.286 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.443 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.944 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.114 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.830 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.944 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.057 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.116 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.887 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.372 | -0.0002 | -2.5 to 2.5 | Pass |
| | 1745 | 100 | 0 | 20 | 3.27 | 0.987 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.386 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.443 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.043 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.100 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.072 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.057 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.658 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.215 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.572 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.329 | 0.0002 | -2.5 to 2.5 | Pass |

# 3. Modulation Characteristics

## 3.1 Test Result

### 3.1.1 B4_1.4MHz

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

### 3.1.2 B4_3MHz

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

### 3.1.3 B4_5MHz

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

### 3.1.4 B4_10MHz

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

### 3.1.5 B4_15MHz

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

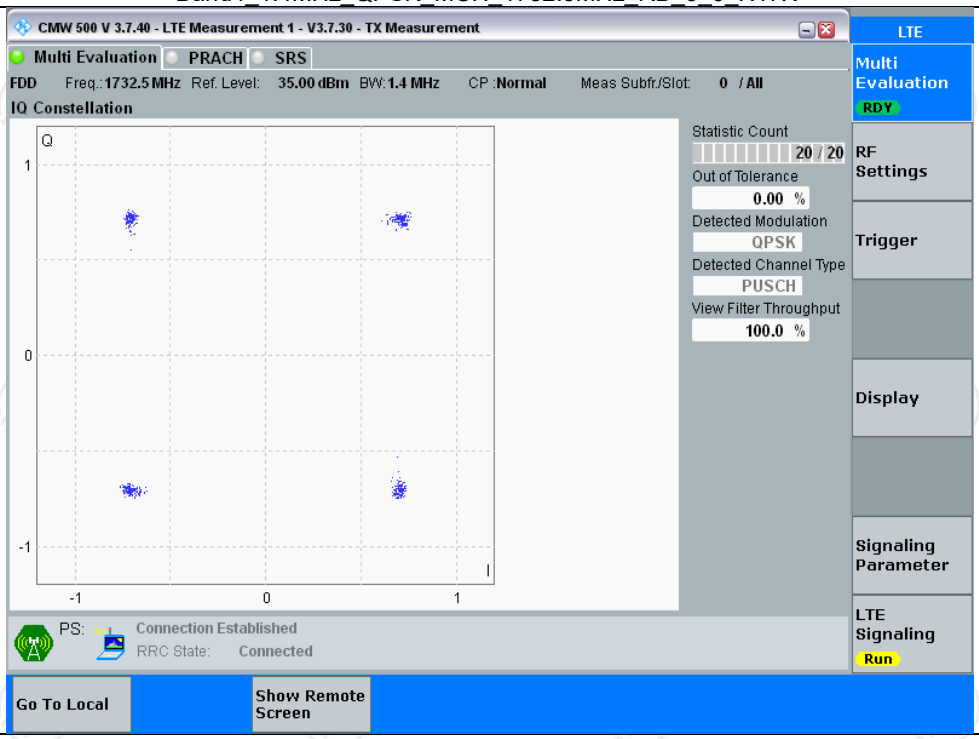
### 3.1.6 B4_20MHz

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

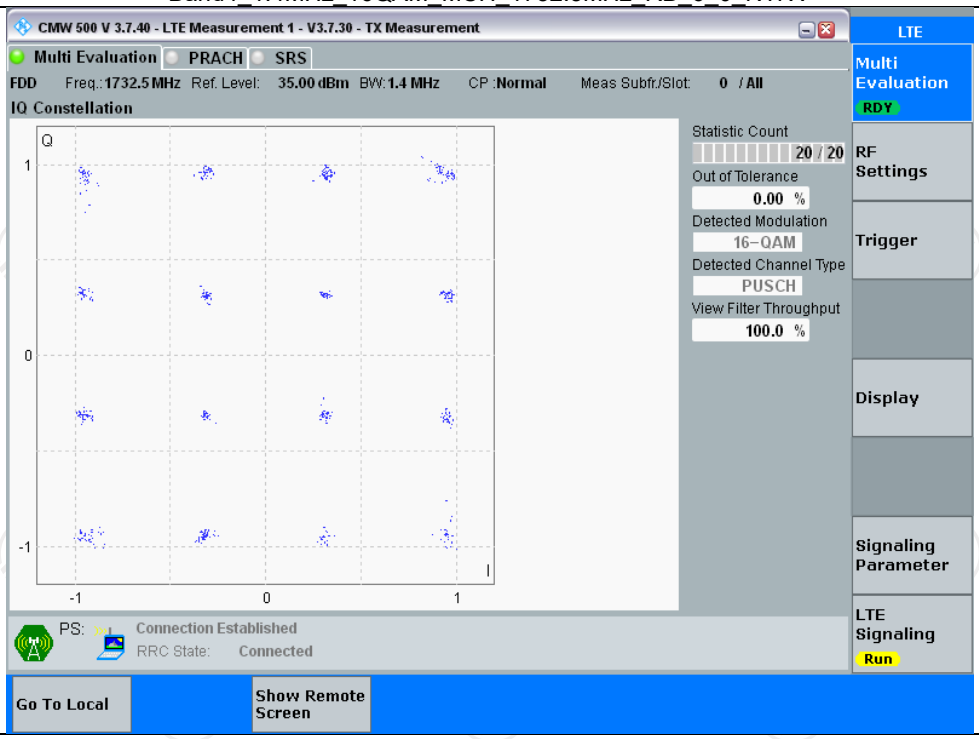
## 3.2 Test Graph

### 3.2.1 B4_1.4MHz

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV

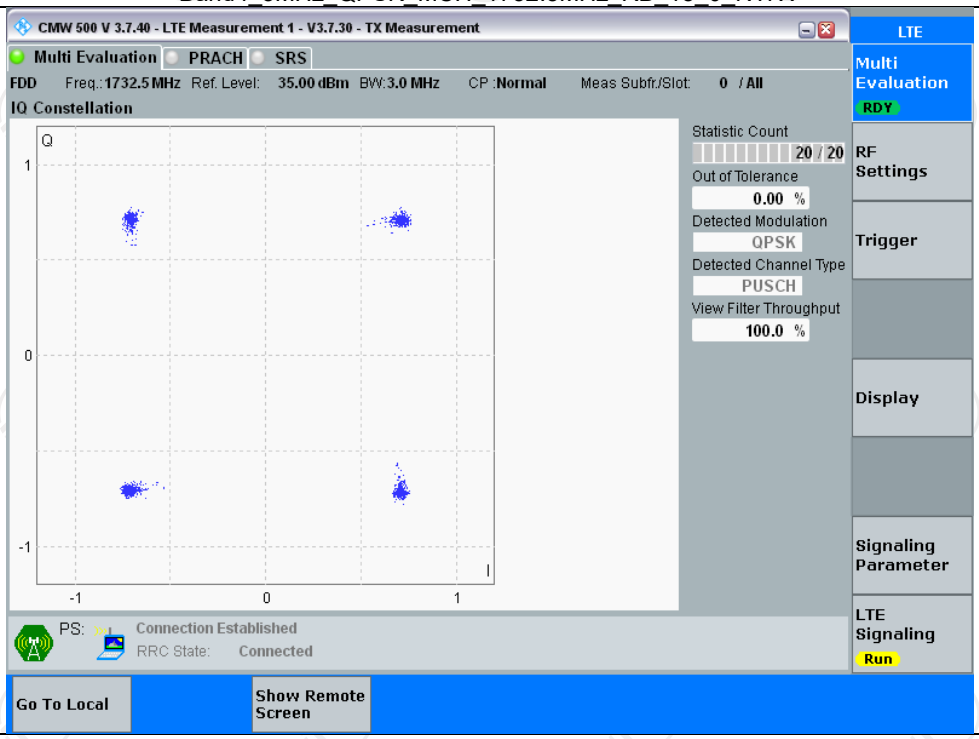



Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV

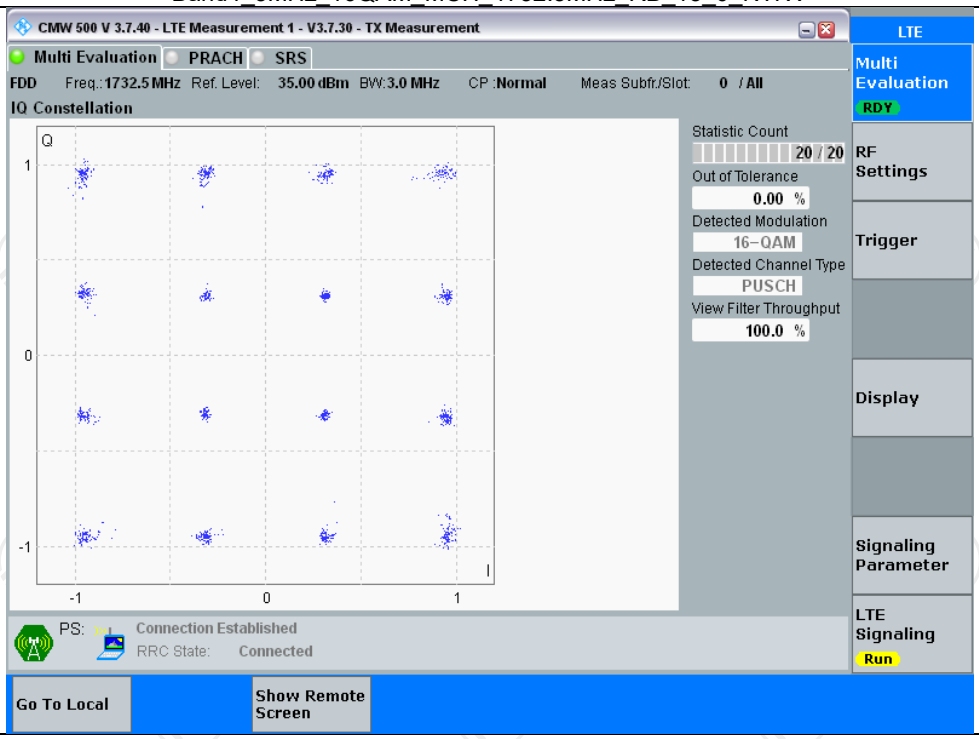


### 3.2.2 B4_3MHz

Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV

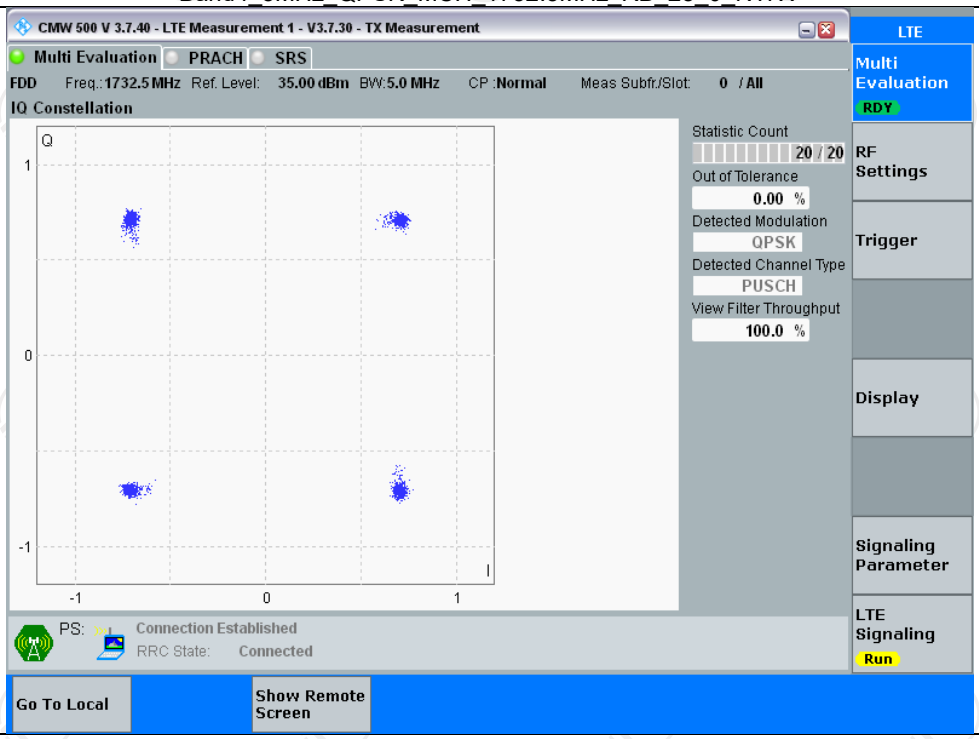



Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV

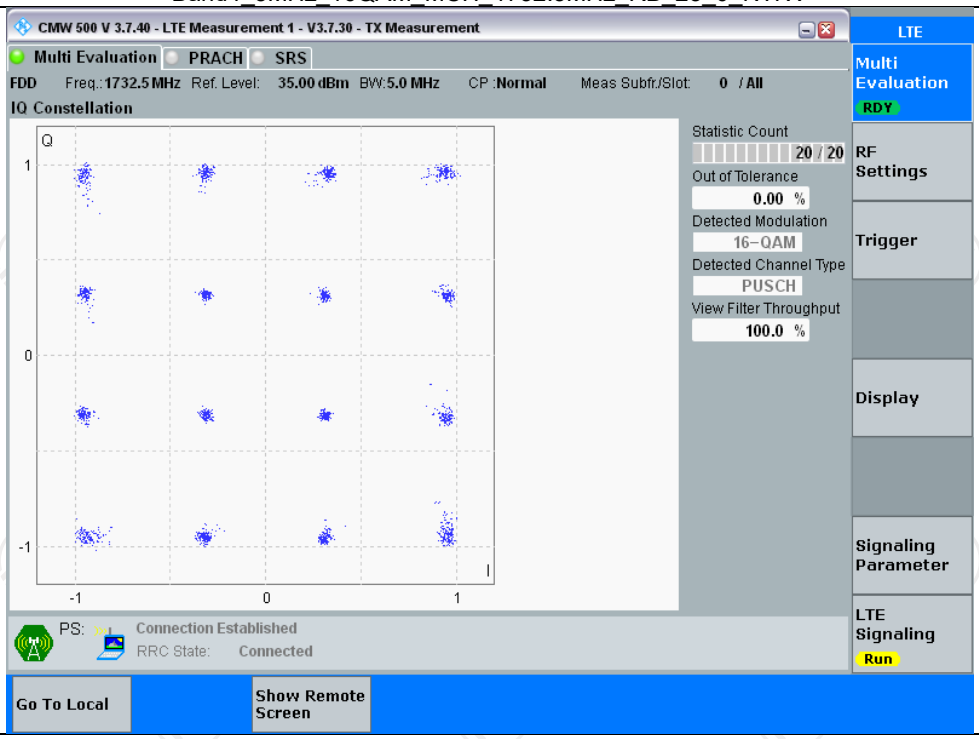


### 3.2.3 B4_5MHz

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV

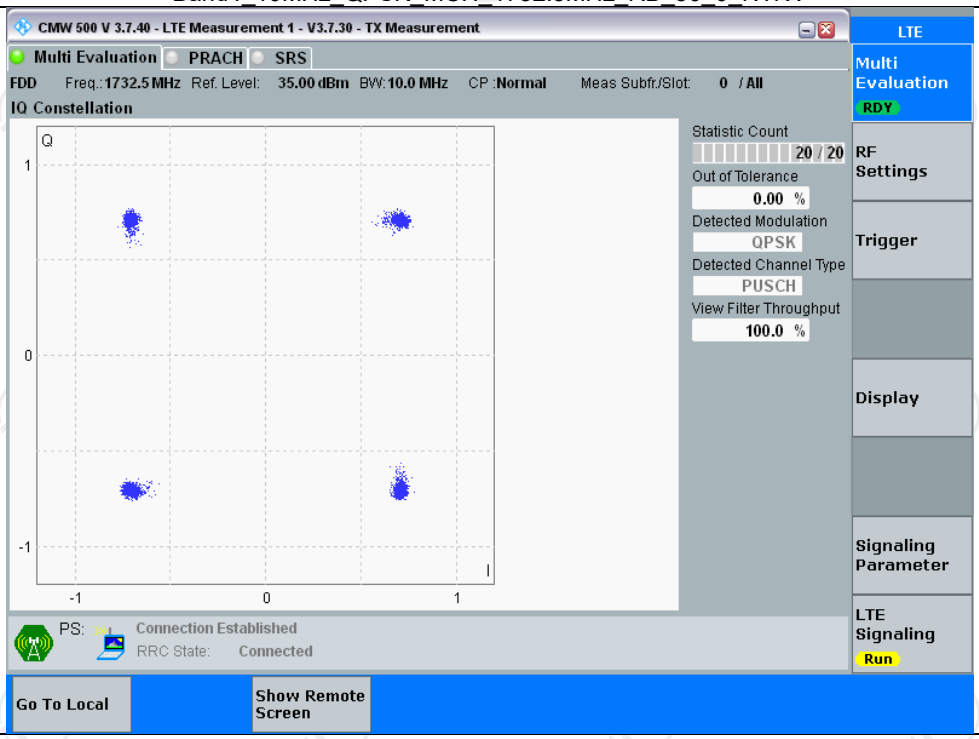



Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV

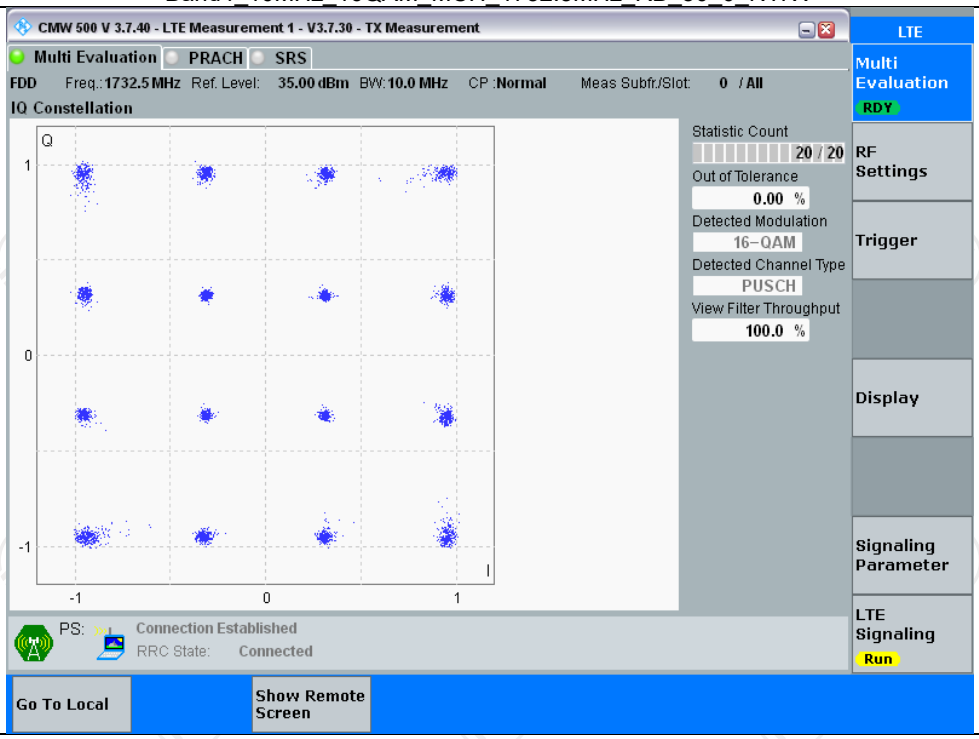


### 3.2.4 B4_10MHz

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV

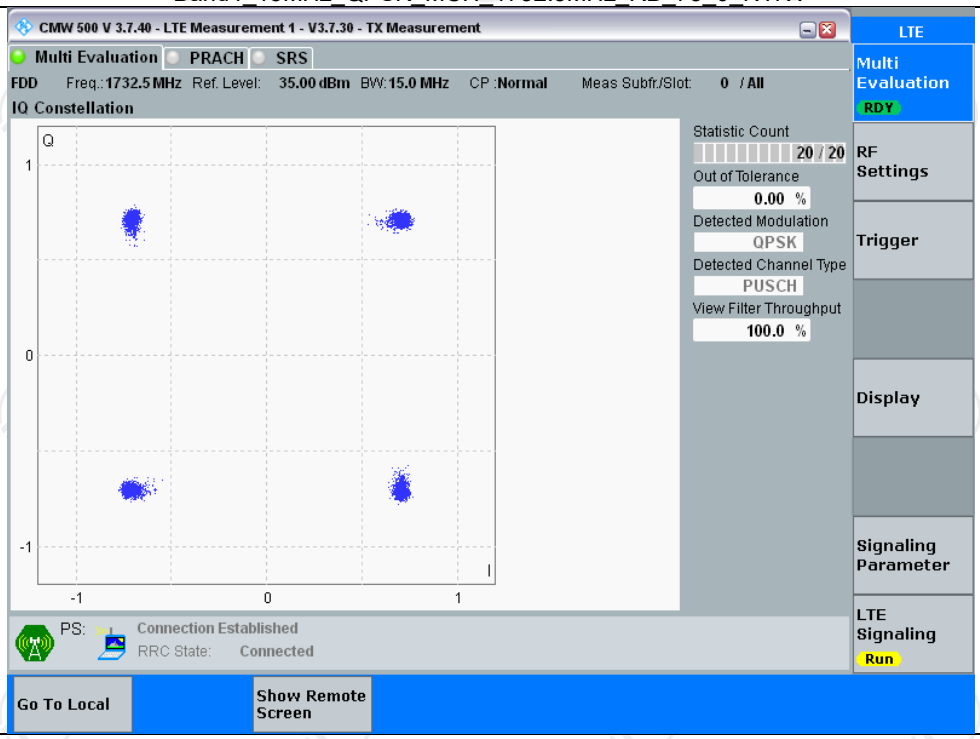



Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV

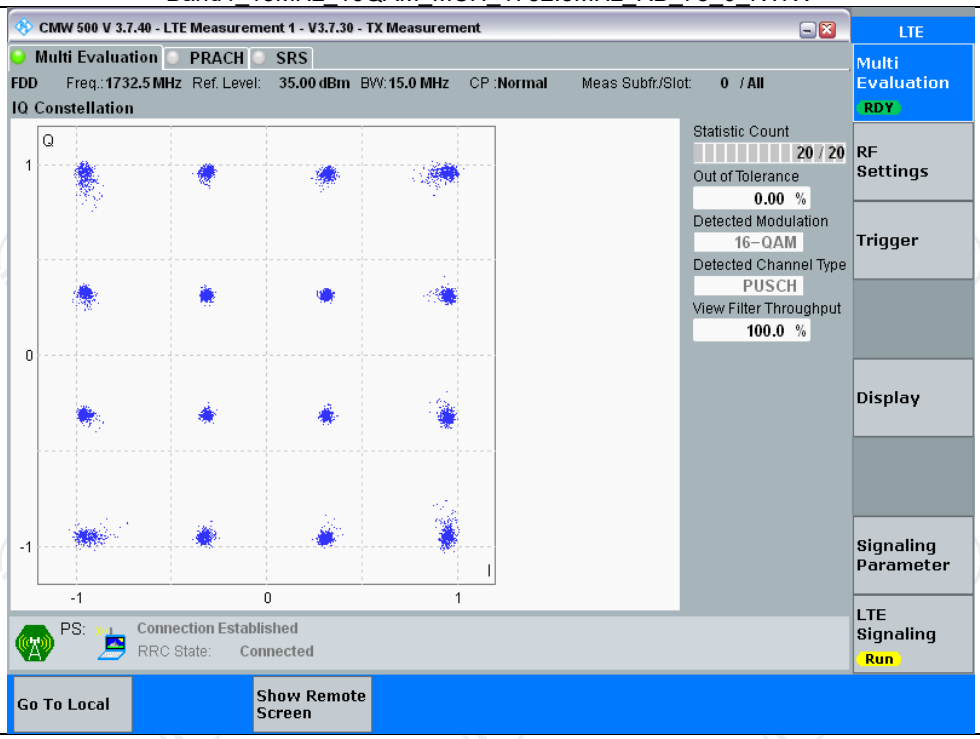


### 3.2.5 B4_15MHz

Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV

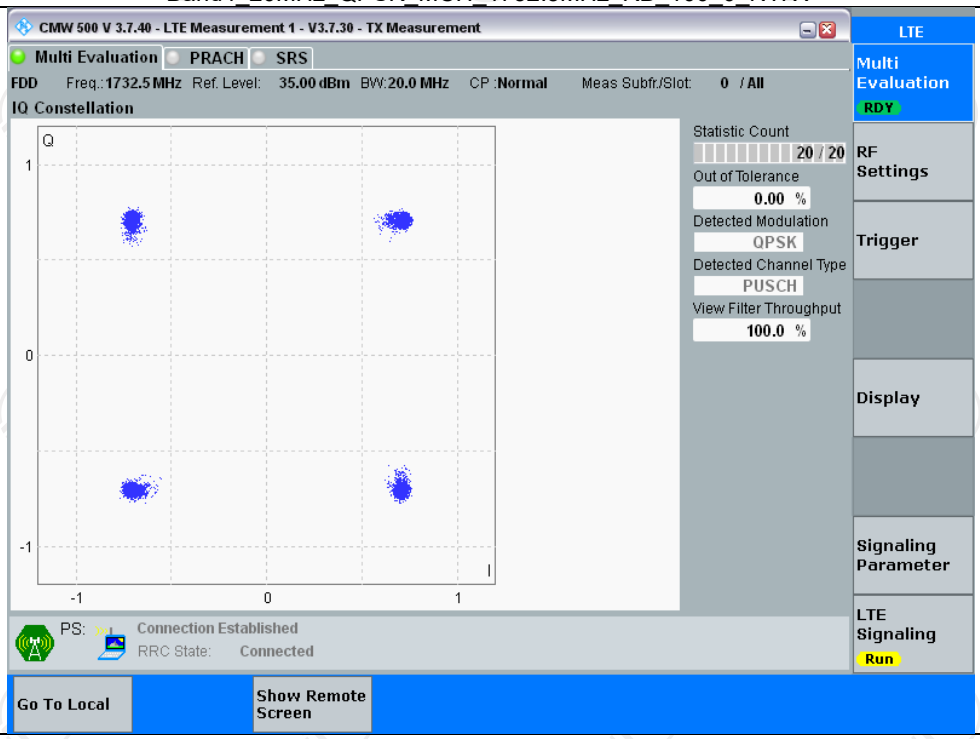



Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV

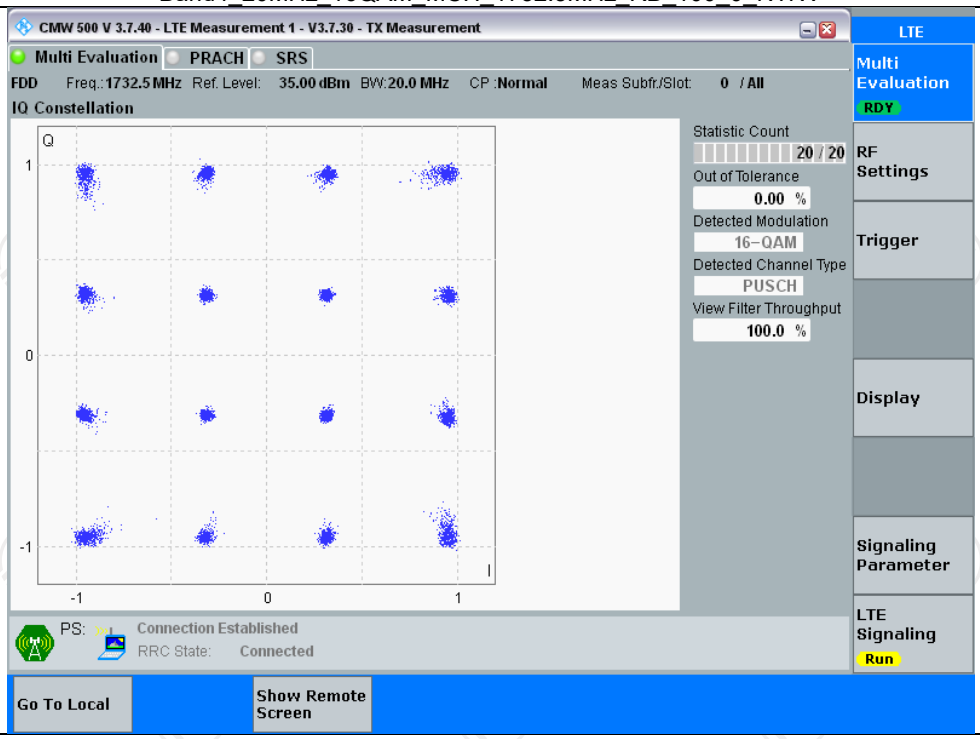


### 3.2.6 B4_20MHz

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV




Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



# 4. 99% & 26dB Bandwidth

## 4.1 Test Result

### 4.1.1 Band4_OBW

| Band: 4 / NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 99% Occupied Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 1.4 | QPSK | 1710.7 | 6 | 0 | 1.108 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.101 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.100 | / | Pass |
| | 16QAM | 1710.7 | 6 | 0 | 1.110 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.104 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.109 | / | Pass |
| 3 | QPSK | 1711.5 | 15 | 0 | 2.715 | / | Pass |
| | | 1732.5 | 15 | 0 | 2.722 | / | Pass |
| | | 1753.5 | 15 | 0 | 2.715 | / | Pass |
| | 16QAM | 1711.5 | 15 | 0 | 2.711 | / | Pass |
| | | 1732.5 | 15 | 0 | 2.718 | / | Pass |
| | | 1753.5 | 15 | 0 | 2.711 | / | Pass |
| 5 | QPSK | 1712.5 | 25 | 0 | 4.552 | / | Pass |
| | | 1732.5 | 25 | 0 | 4.565 | / | Pass |
| | | 1752.5 | 25 | 0 | 4.572 | / | Pass |
| | 16QAM | 1712.5 | 25 | 0 | 4.554 | / | Pass |
| | | 1732.5 | 25 | 0 | 4.591 | / | Pass |
| | | 1752.5 | 25 | 0 | 4.545 | / | Pass |
| 10 | QPSK | 1715 | 50 | 0 | 9.105 | / | Pass |
| | | 1732.5 | 50 | 0 | 9.048 | / | Pass |
| | | 1750 | 50 | 0 | 9.045 | / | Pass |
| | 16QAM | 1715 | 50 | 0 | 9.075 | / | Pass |
| | | 1732.5 | 50 | 0 | 9.060 | / | Pass |
| | | 1750 | 50 | 0 | 9.078 | / | Pass |
| 15 | QPSK | 1717.5 | 75 | 0 | 13.594 | / | Pass |
| | | 1732.5 | 75 | 0 | 13.530 | / | Pass |
| | | 1747.5 | 75 | 0 | 13.578 | / | Pass |
| | 16QAM | 1717.5 | 75 | 0 | 13.631 | / | Pass |
| | | 1732.5 | 75 | 0 | 13.560 | / | Pass |
| | | 1747.5 | 75 | 0 | 13.567 | / | Pass |
| 20 | QPSK | 1720 | 100 | 0 | 18.113 | / | Pass |
| | | 1732.5 | 100 | 0 | 18.079 | / | Pass |
| | | 1745 | 100 | 0 | 18.084 | / | Pass |
| | 16QAM | 1720 | 100 | 0 | 18.093 | / | Pass |
| | | 1732.5 | 100 | 0 | 18.055 | / | Pass |
| | | 1745 | 100 | 0 | 18.076 | / | Pass |

### 4.1.2 Band4_XDB

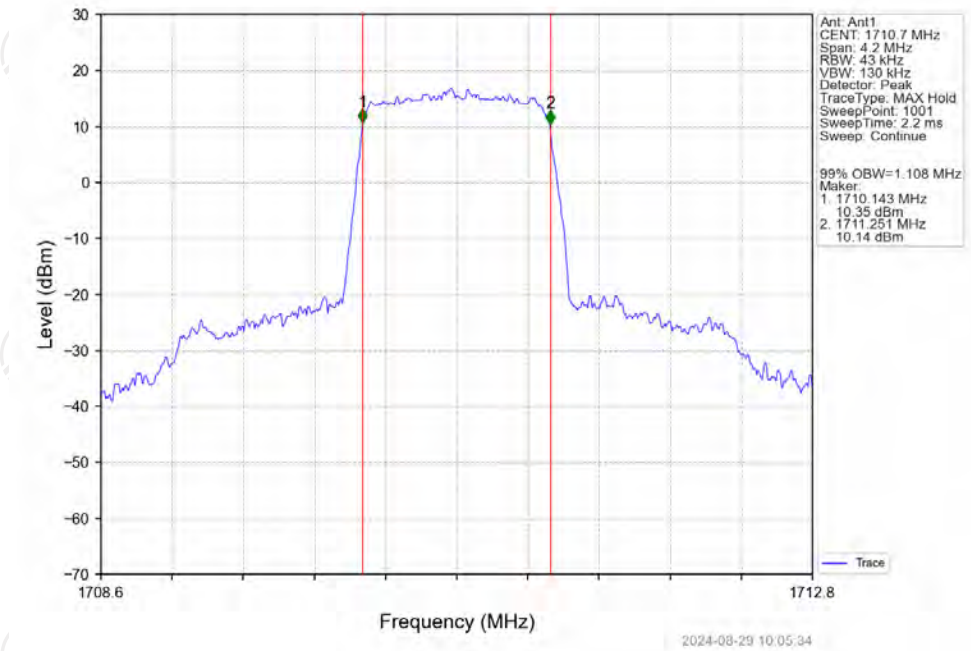
| Band: 4 / NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 1.4 | QPSK | 1710.7 | 6 | 0 | 1.260 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.275 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.262 | / | Pass |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 16QAM | 1710.7 | 6 | 0 | 1.268 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.266 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.268 | / | Pass |
| 3 | QPSK | 1711.5 | 15 | 0 | 2.970 | / | Pass |
| | | 1732.5 | 15 | 0 | 2.966 | / | Pass |
| | | 1753.5 | 15 | 0 | 2.967 | / | Pass |
| | 16QAM | 1711.5 | 15 | 0 | 2.970 | / | Pass |
| | | 1732.5 | 15 | 0 | 2.990 | / | Pass |
| | | 1753.5 | 15 | 0 | 2.959 | / | Pass |
| 5 | QPSK | 1712.5 | 25 | 0 | 5.042 | / | Pass |
| | | 1732.5 | 25 | 0 | 5.062 | / | Pass |
| | | 1752.5 | 25 | 0 | 5.065 | / | Pass |
| | 16QAM | 1712.5 | 25 | 0 | 5.090 | / | Pass |
| | | 1732.5 | 25 | 0 | 5.085 | / | Pass |
| | | 1752.5 | 25 | 0 | 5.041 | / | Pass |
| 10 | QPSK | 1715 | 50 | 0 | 10.060 | / | Pass |
| | | 1732.5 | 50 | 0 | 10.072 | / | Pass |
| | | 1750 | 50 | 0 | 10.026 | / | Pass |
| | 16QAM | 1715 | 50 | 0 | 10.072 | / | Pass |
| | | 1732.5 | 50 | 0 | 10.088 | / | Pass |
| | | 1750 | 50 | 0 | 10.045 | / | Pass |
| 15 | QPSK | 1717.5 | 75 | 0 | 15.210 | / | Pass |
| | | 1732.5 | 75 | 0 | 15.169 | / | Pass |
| | | 1747.5 | 75 | 0 | 15.171 | / | Pass |
| | 16QAM | 1717.5 | 75 | 0 | 15.700 | / | Pass |
| | | 1732.5 | 75 | 0 | 15.172 | / | Pass |
| | | 1747.5 | 75 | 0 | 15.080 | / | Pass |
| 20 | QPSK | 1720 | 100 | 0 | 19.973 | / | Pass |
| | | 1732.5 | 100 | 0 | 19.966 | / | Pass |
| | | 1745 | 100 | 0 | 19.991 | / | Pass |
| | 16QAM | 1720 | 100 | 0 | 20.097 | / | Pass |
| | | 1732.5 | 100 | 0 | 19.839 | / | Pass |
| | | 1745 | 100 | 0 | 20.015 | / | Pass |

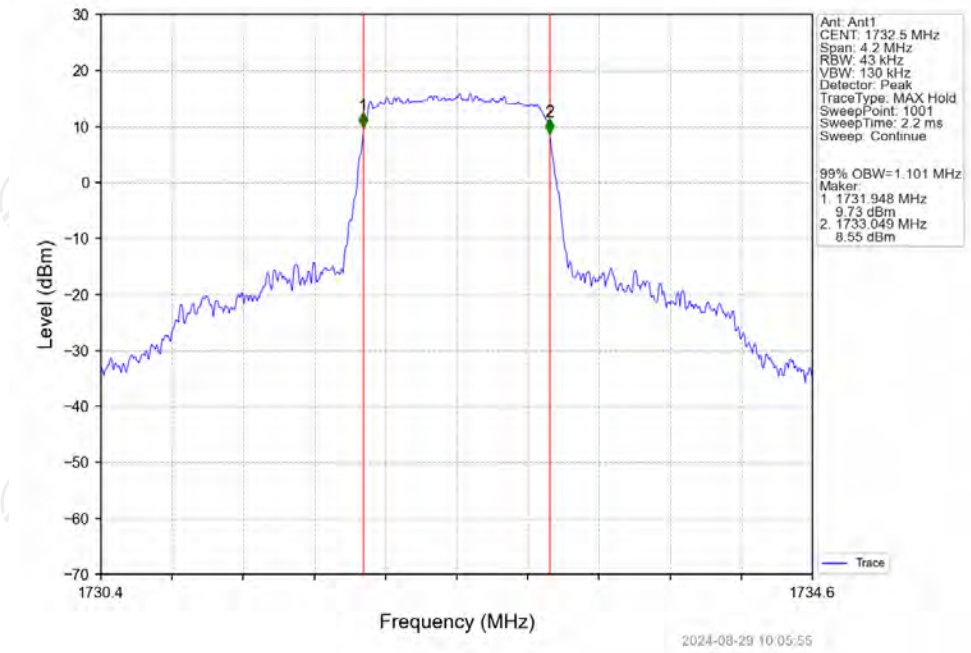
## 4.2 Test Graph

### 4.2.1 Band4_OBW

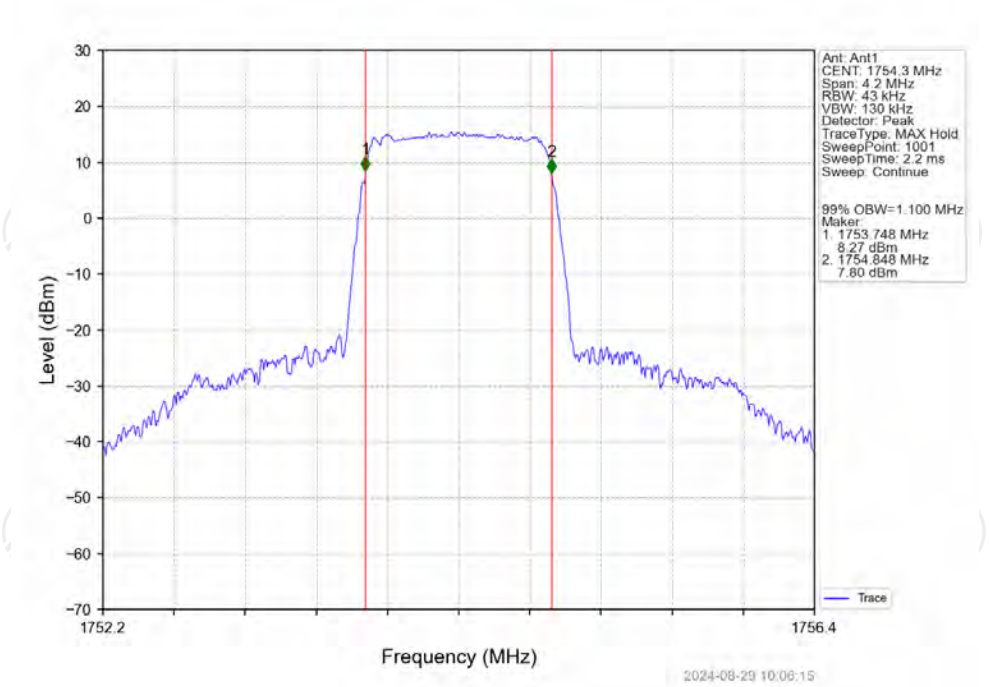
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



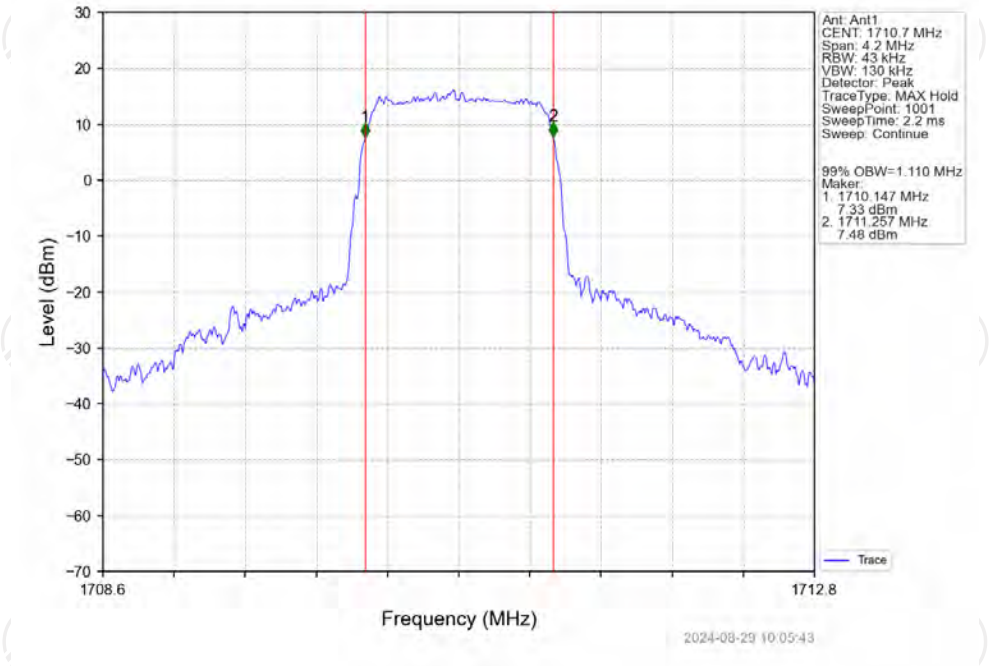

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV




Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



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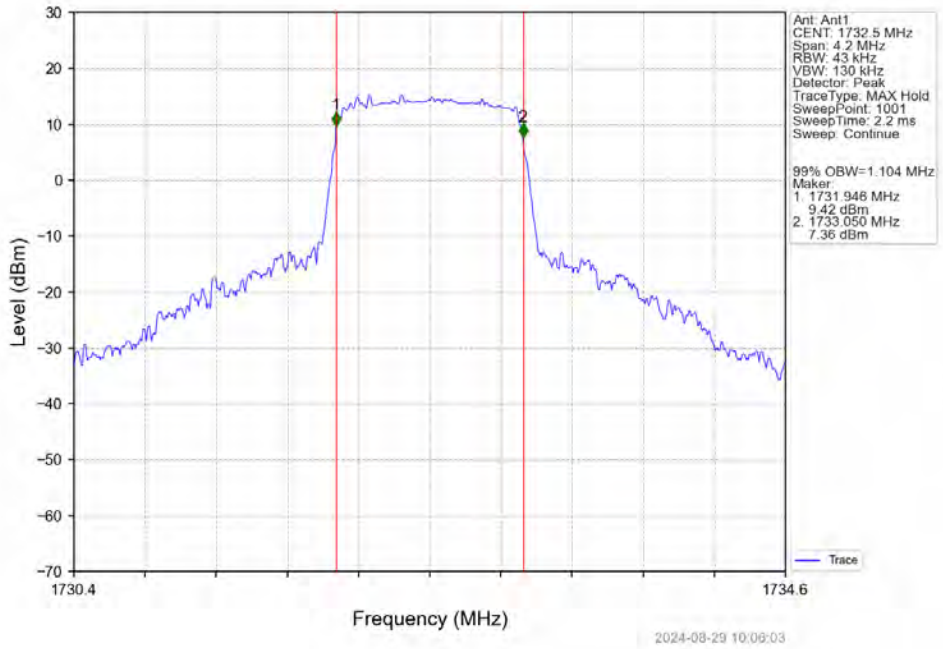
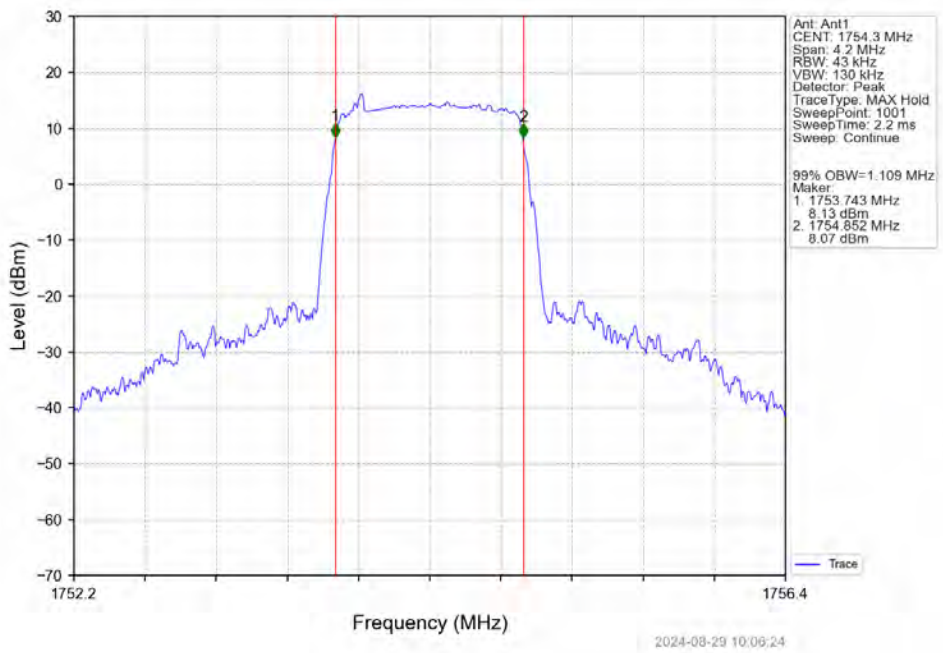
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV




Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



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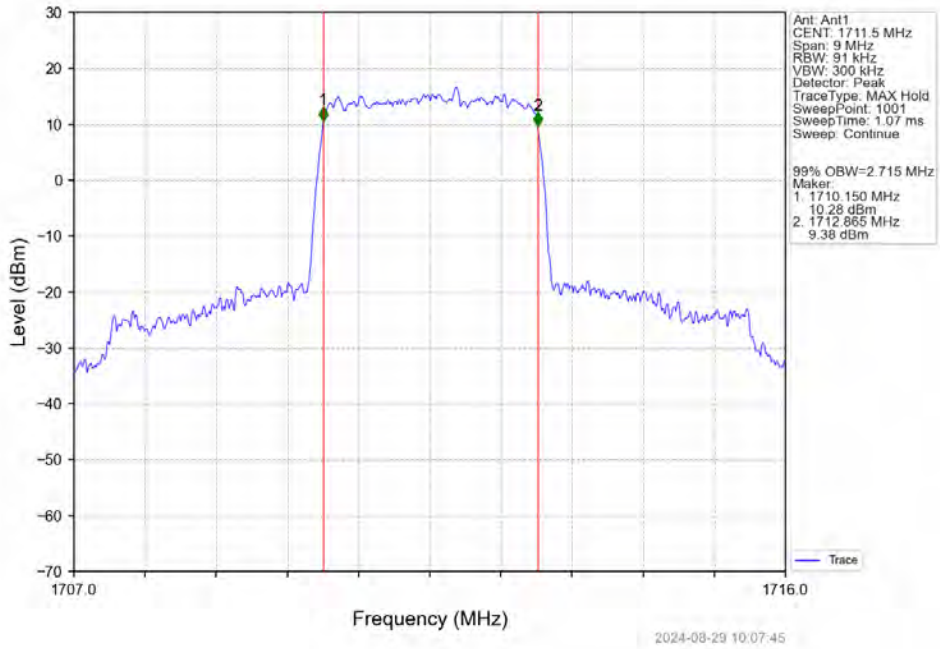
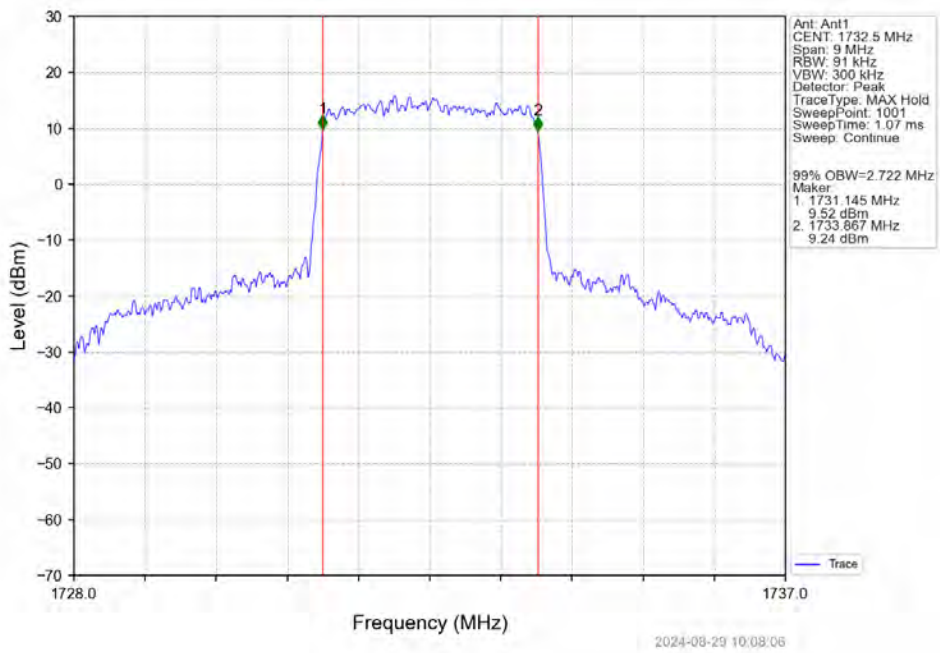
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV




Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



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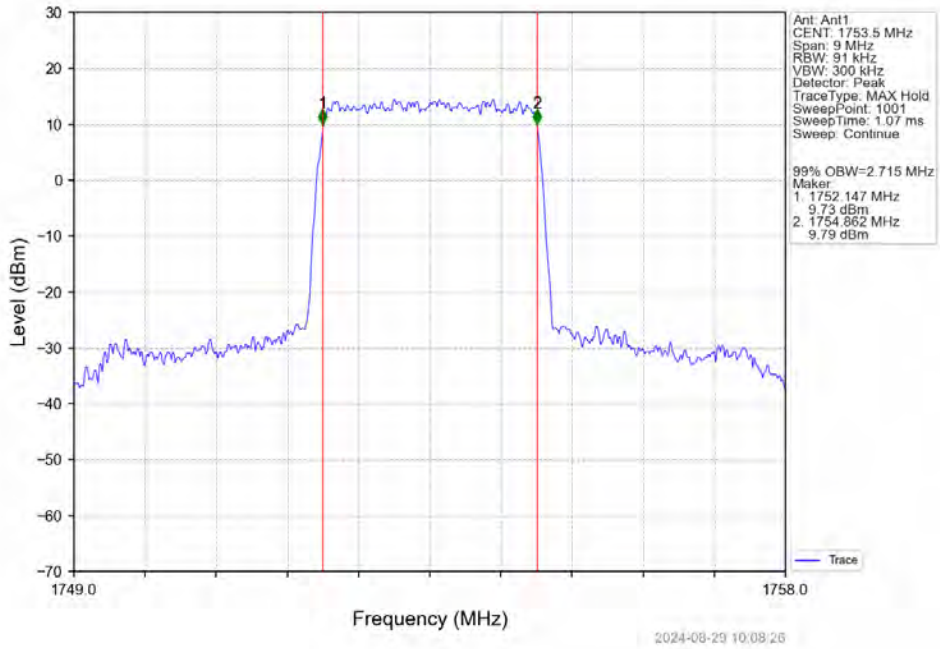
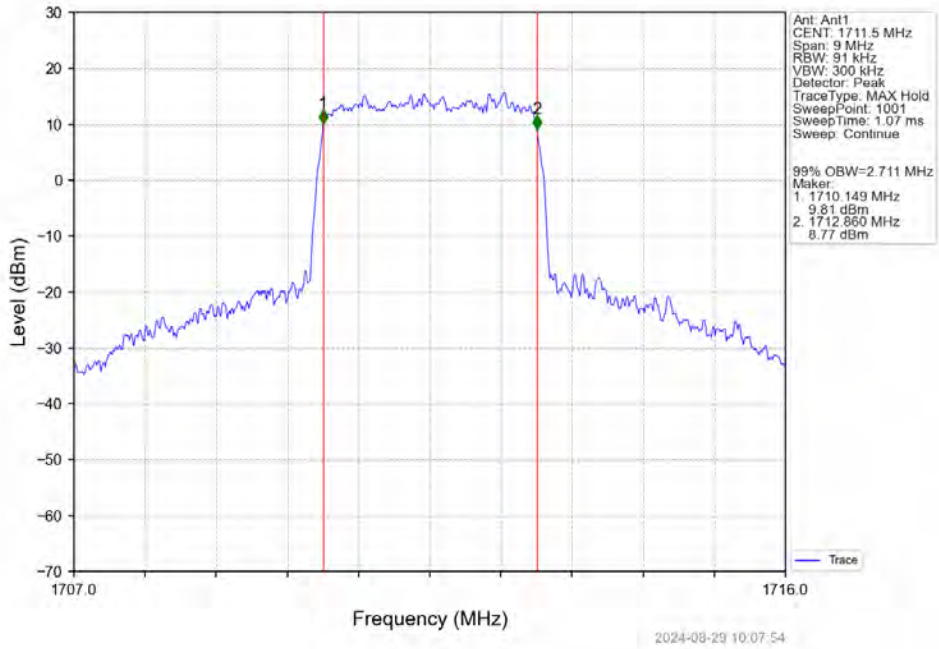
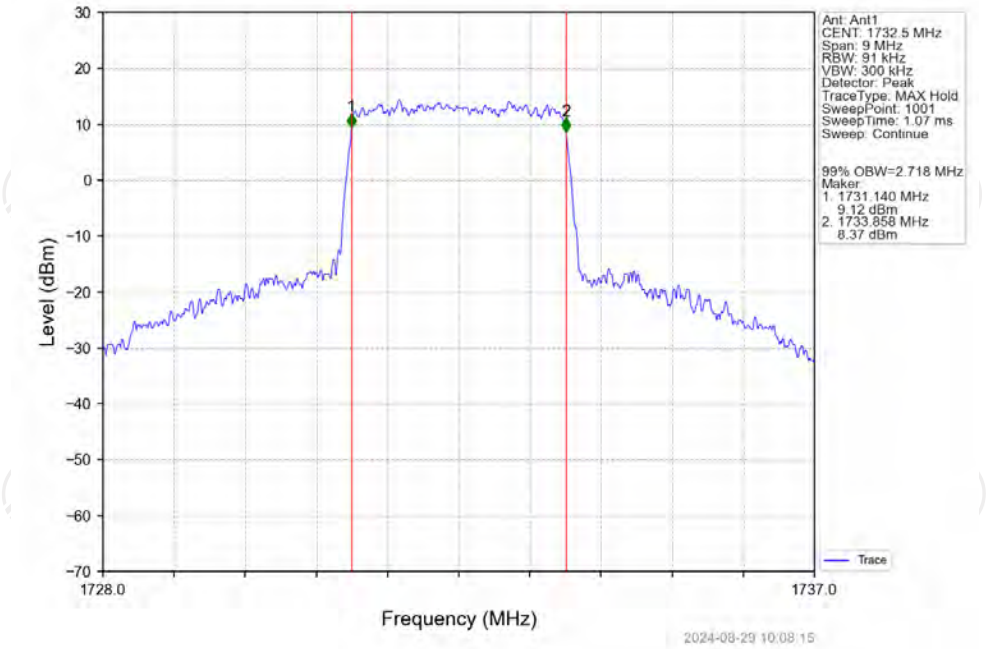
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



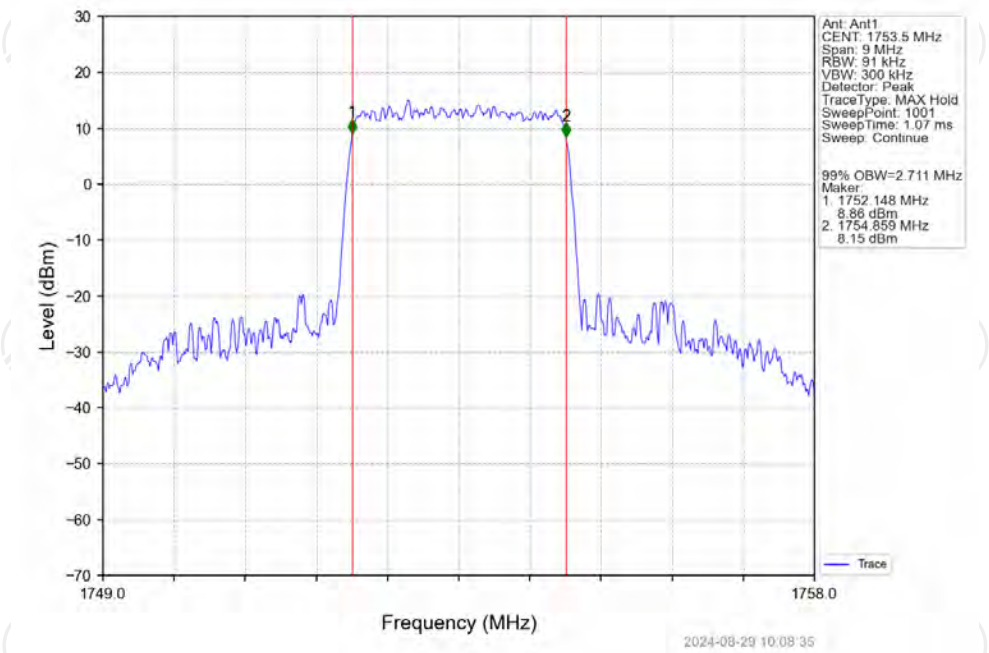

Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



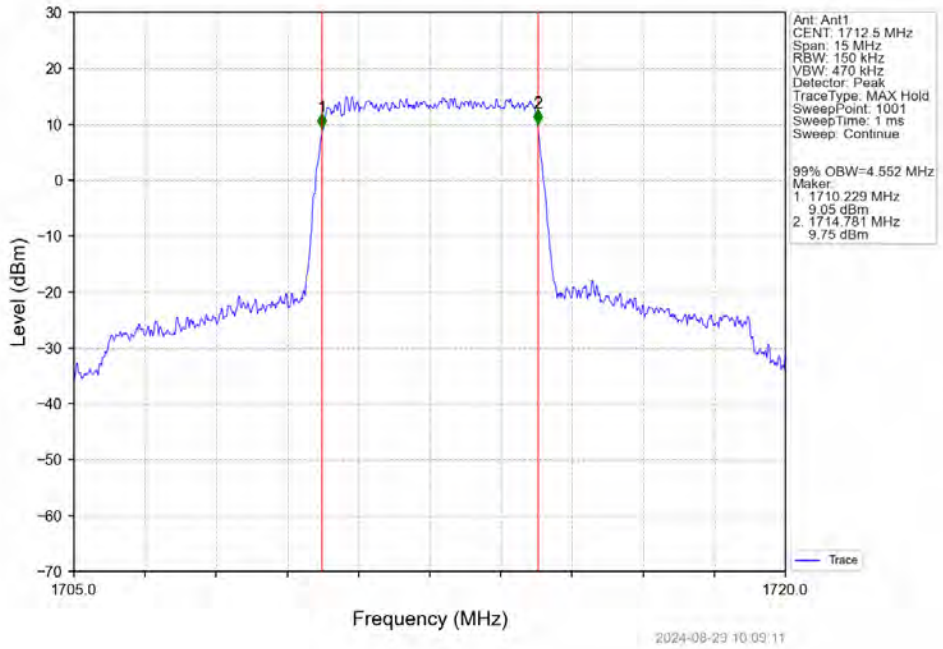
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



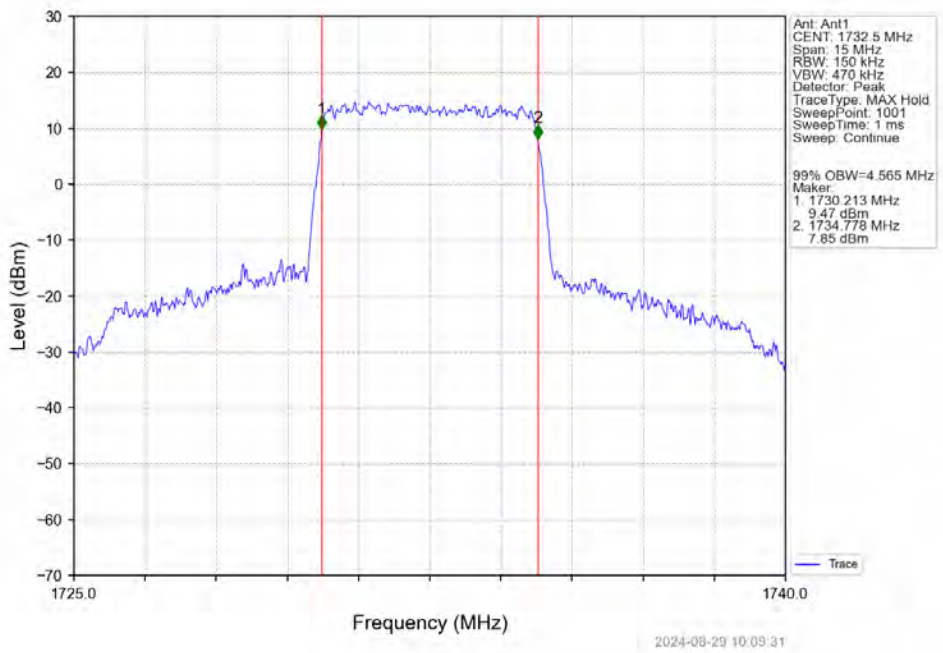

Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



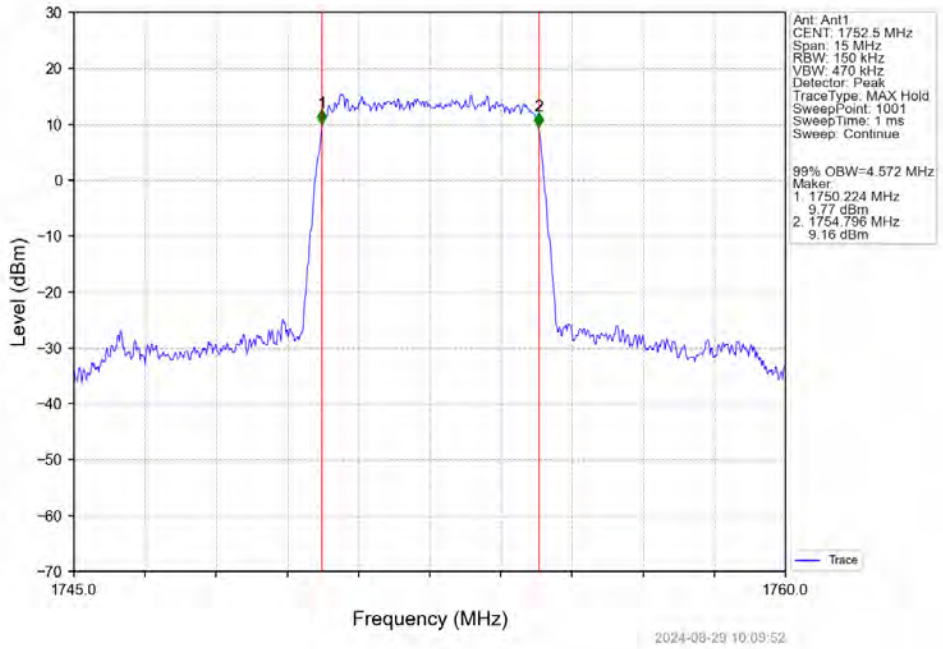
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



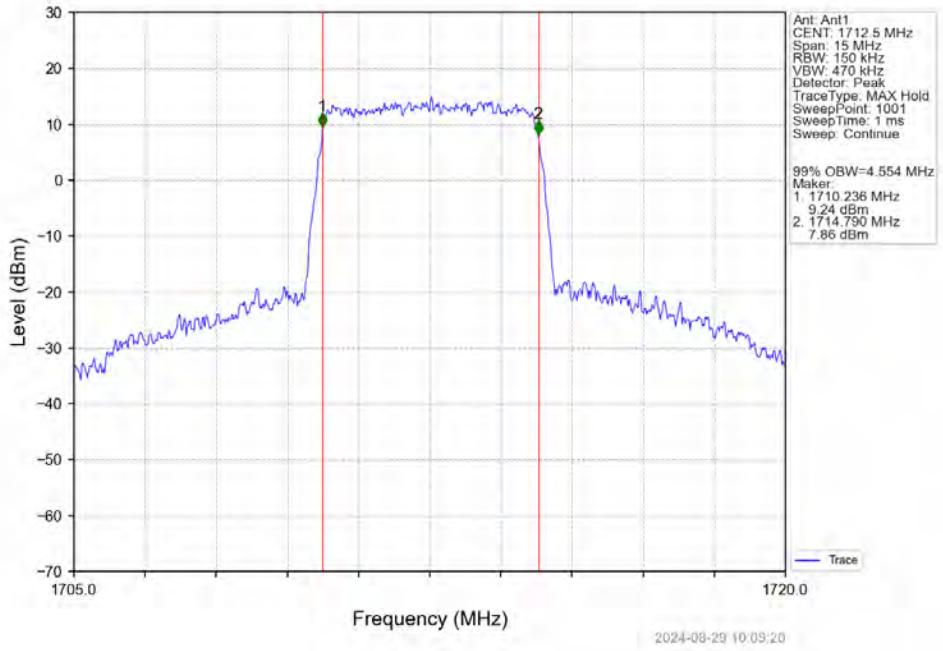

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV




Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



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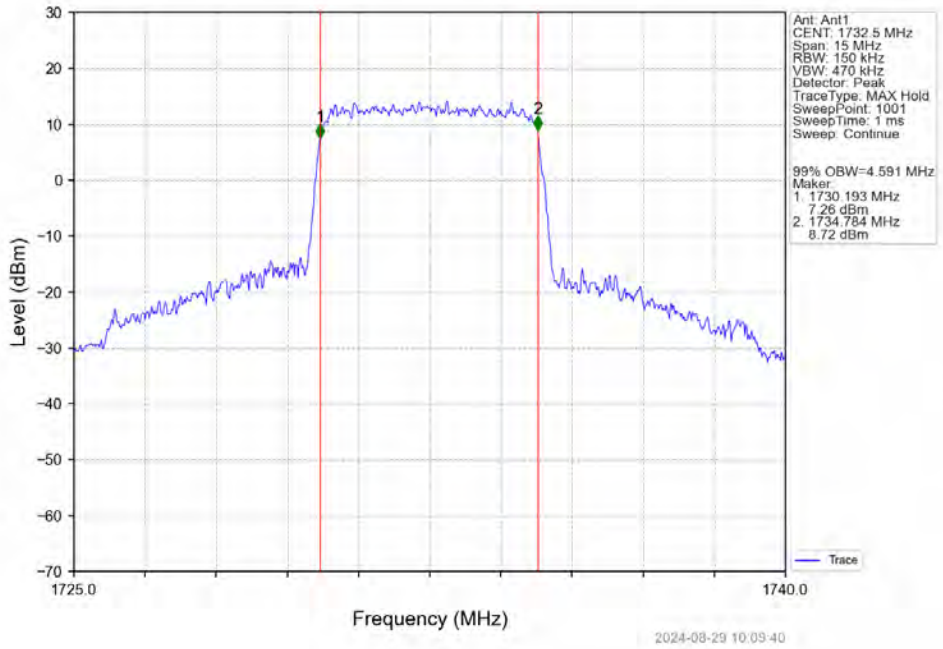
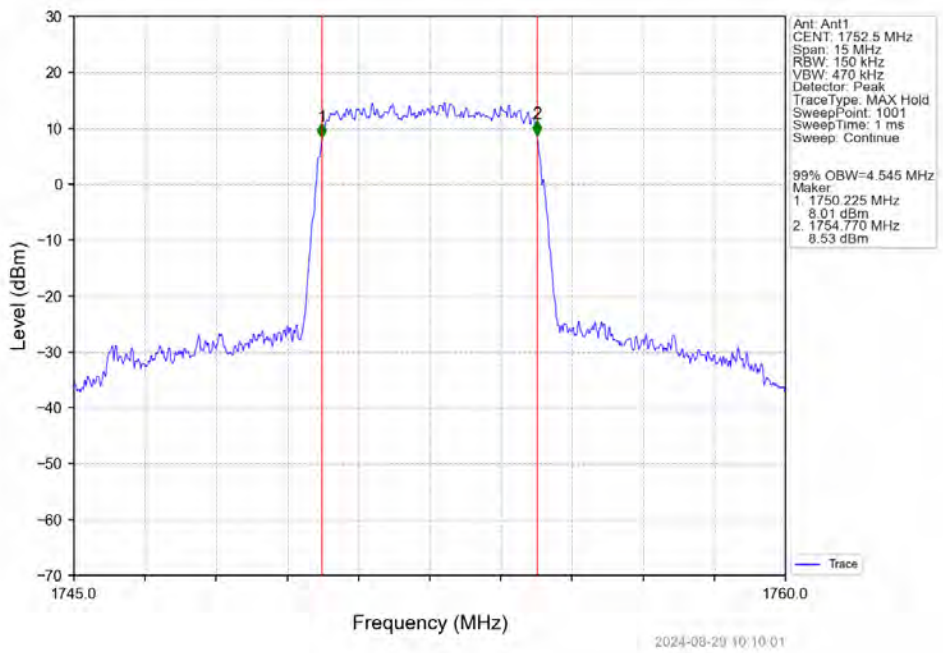
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV




Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



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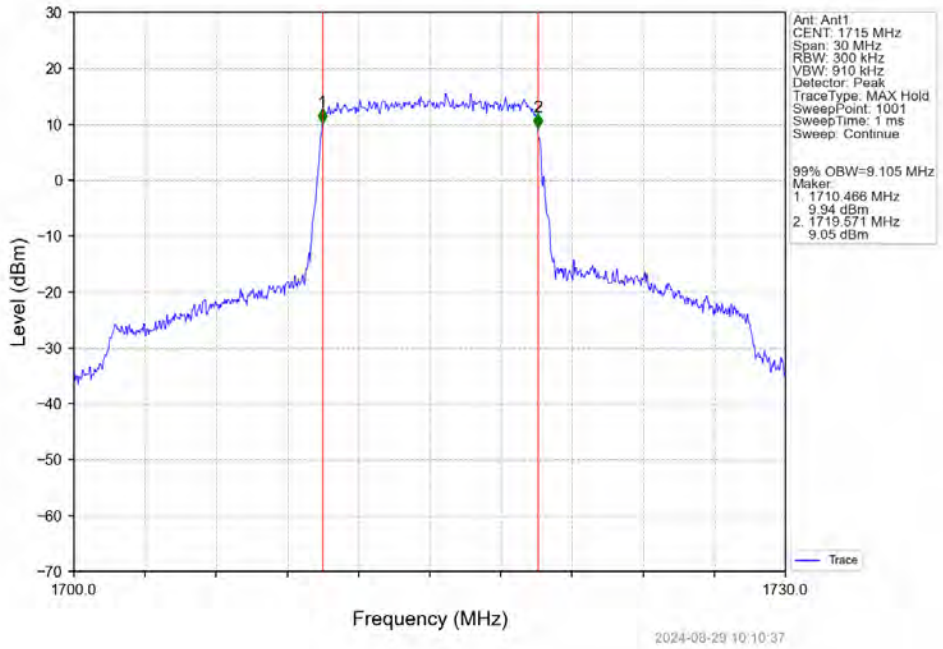
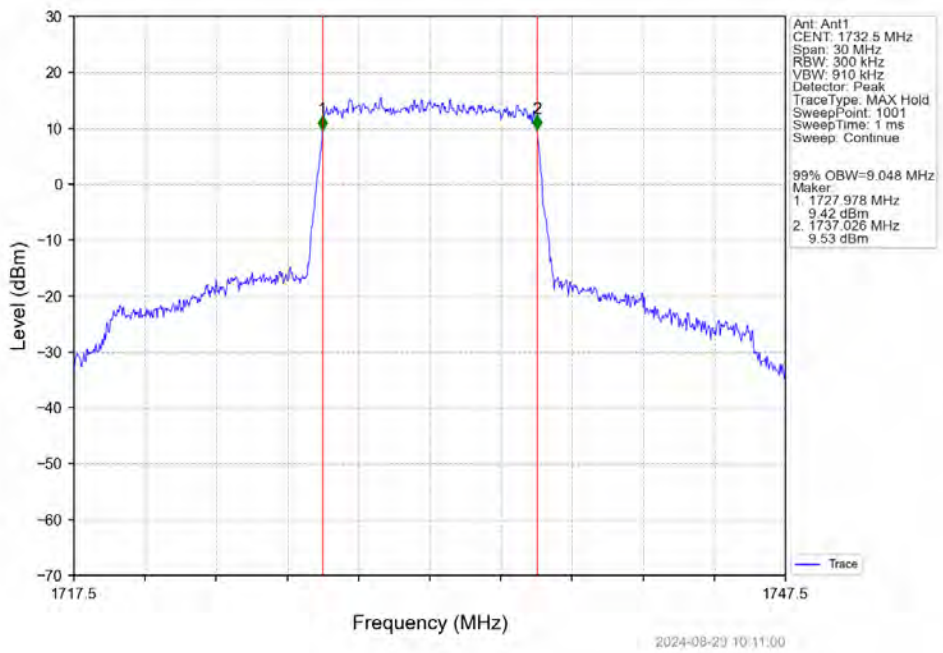
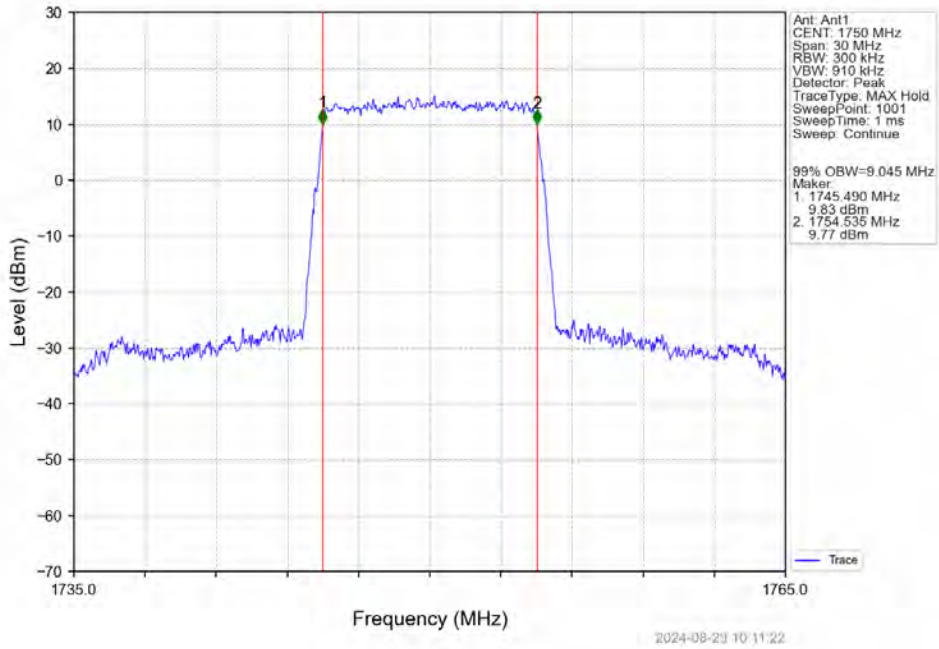
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



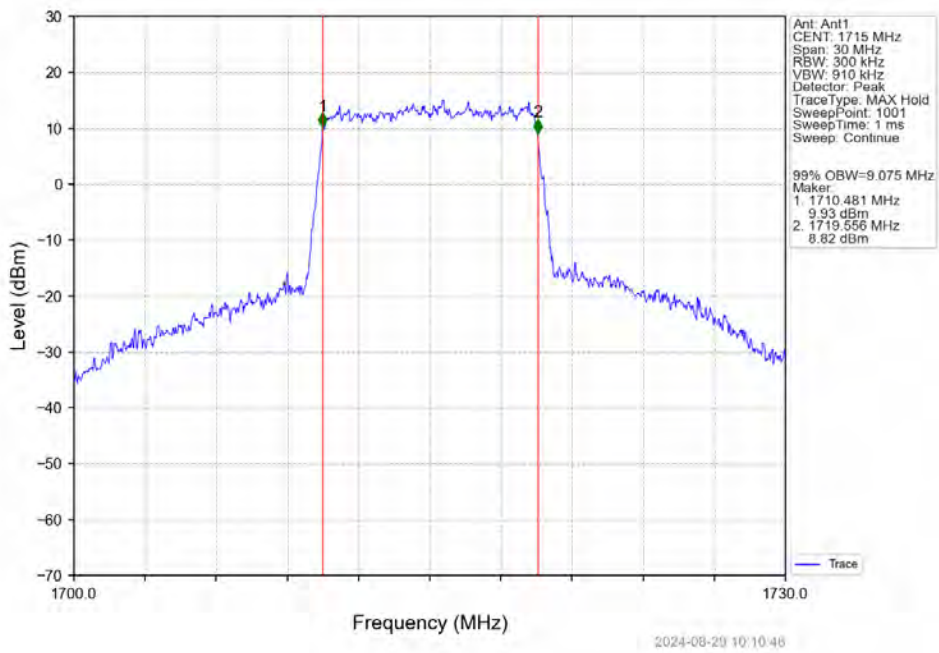

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV




Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



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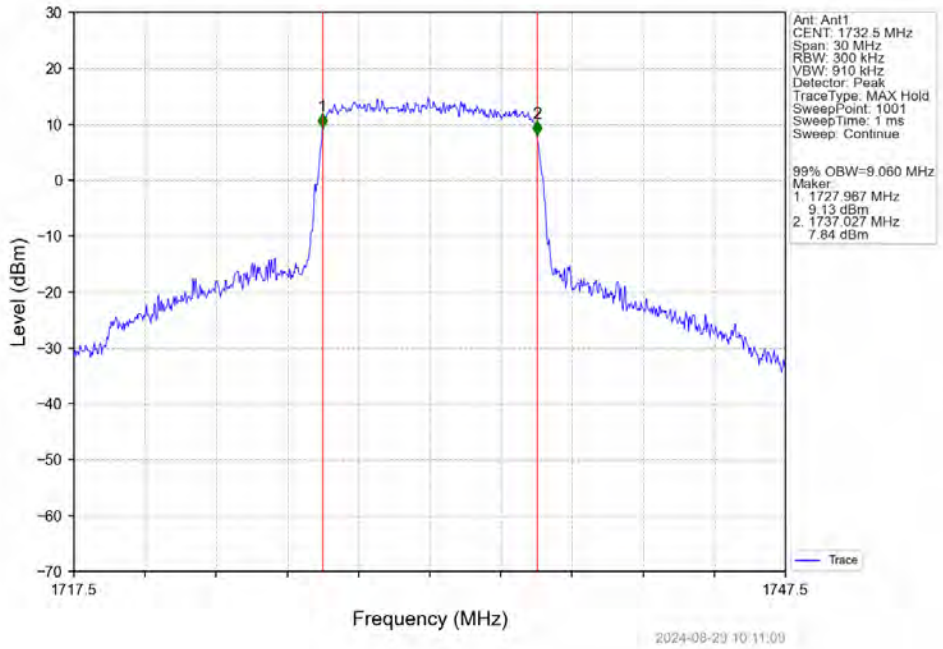
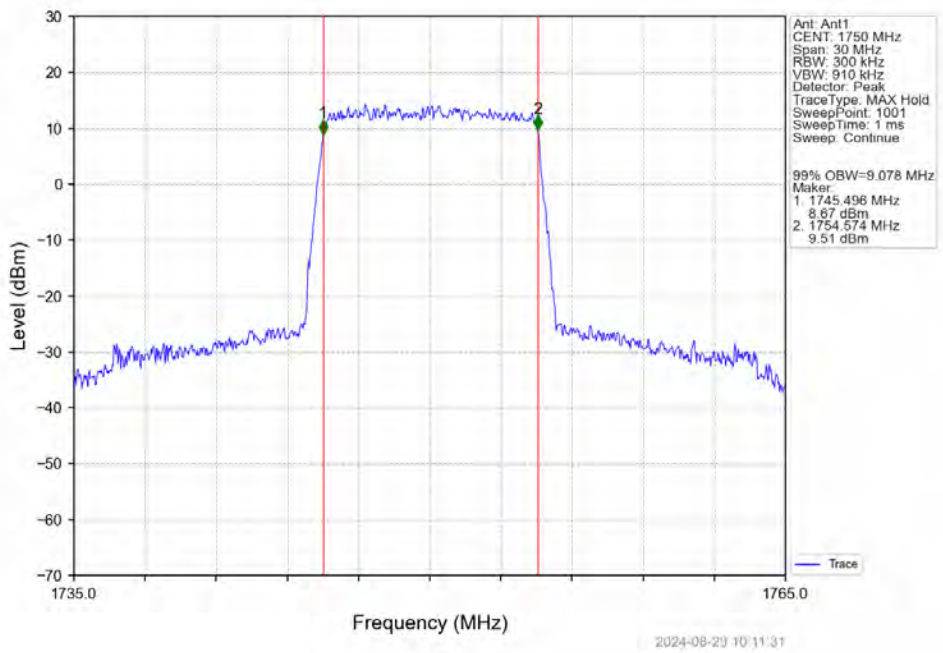
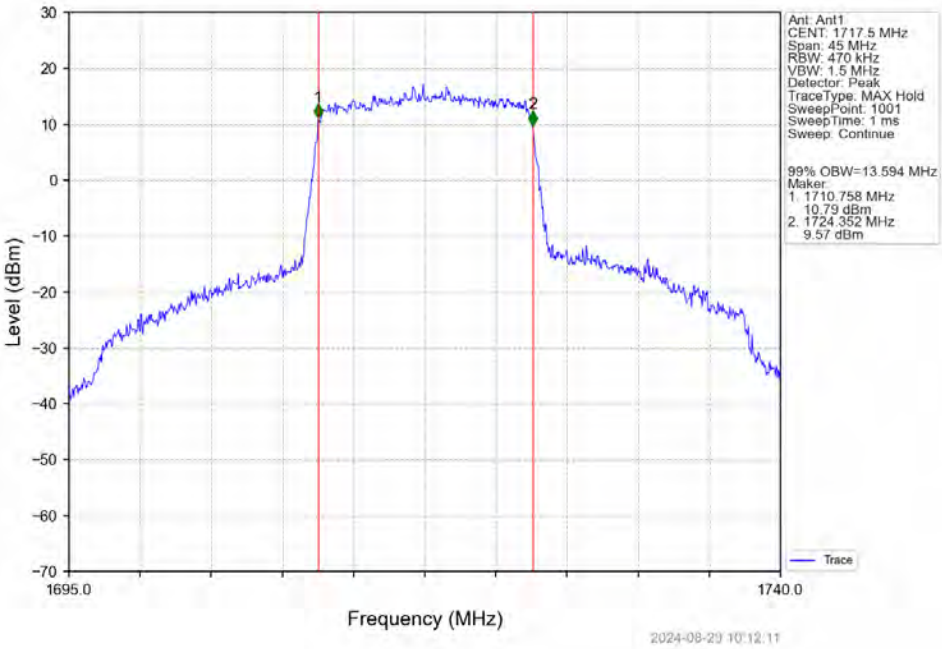
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



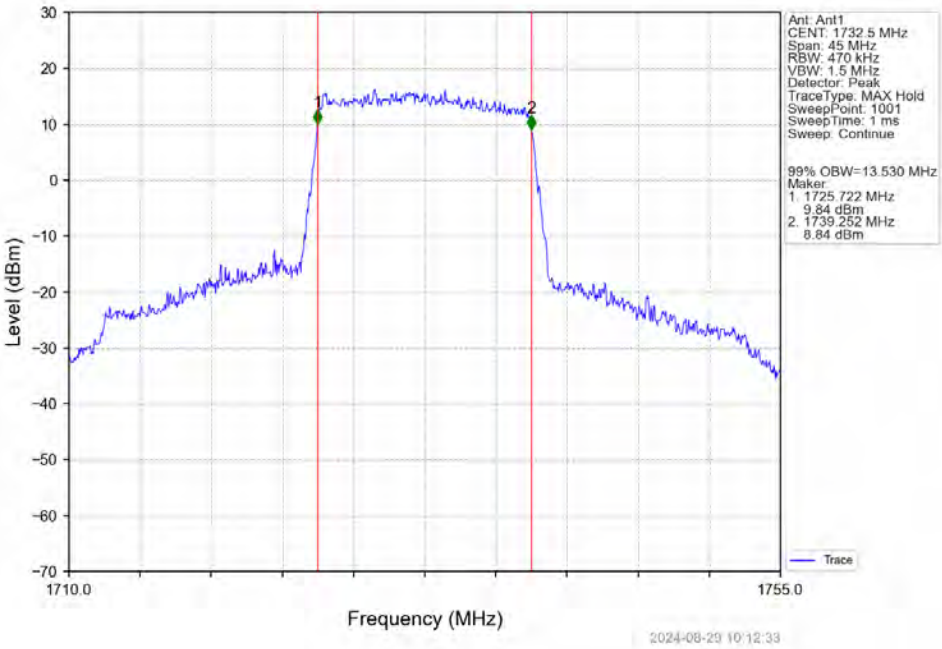

Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV




Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



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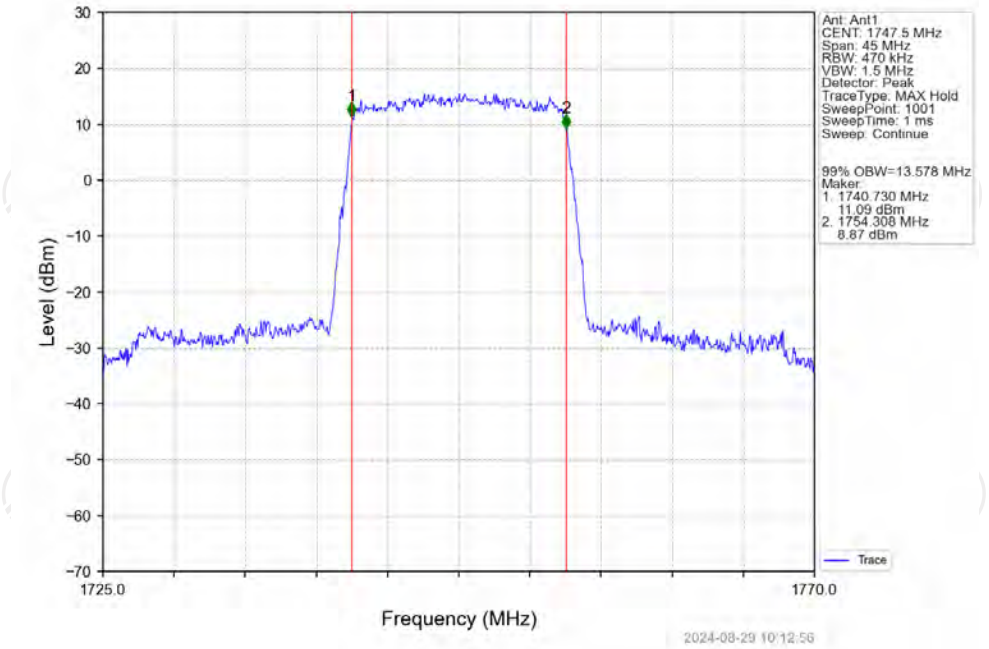
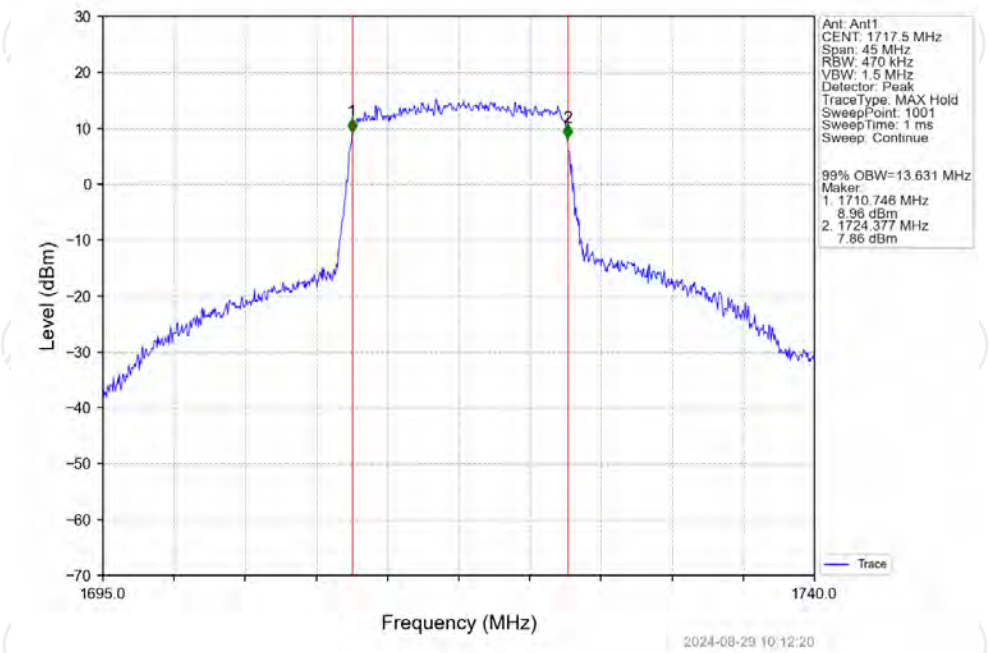
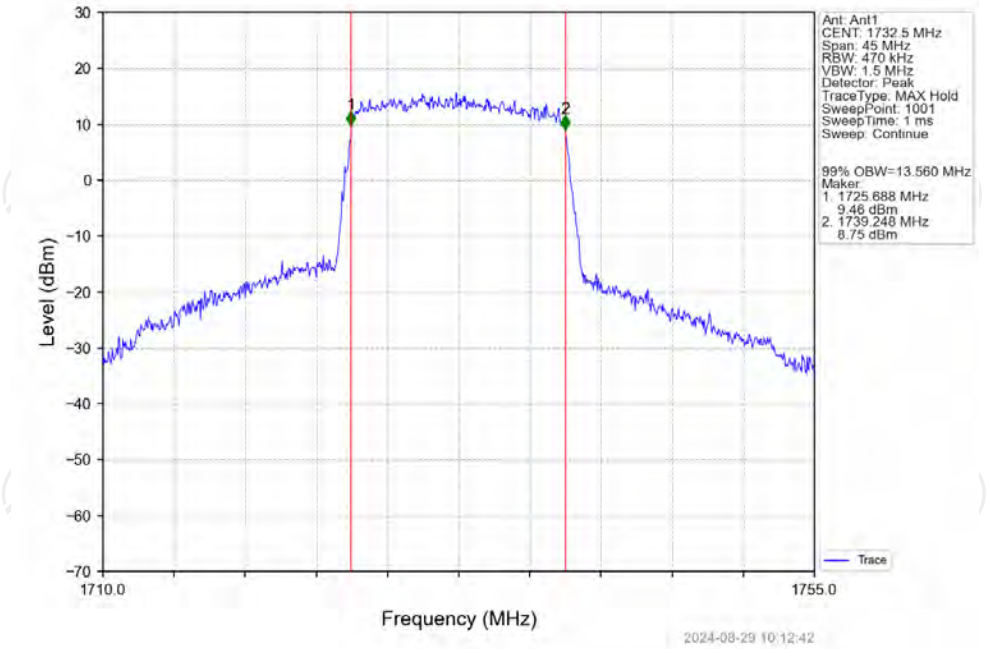
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



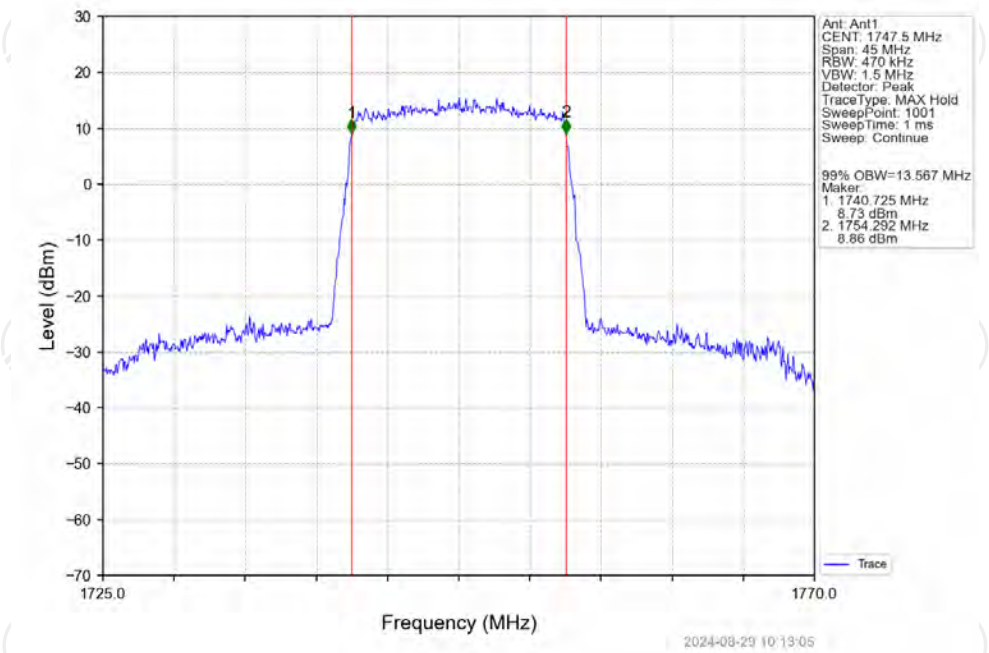

Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



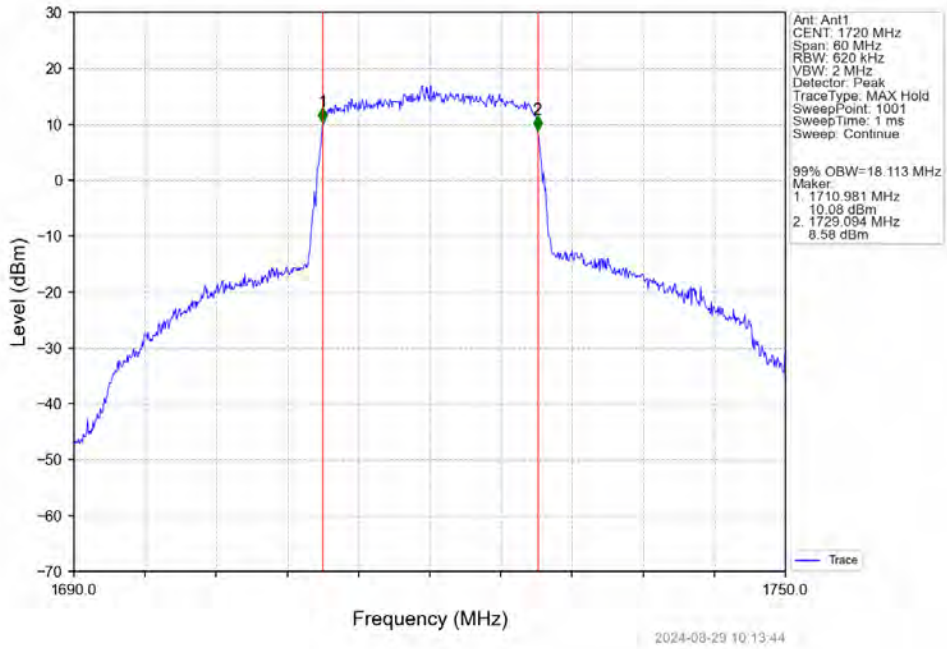
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



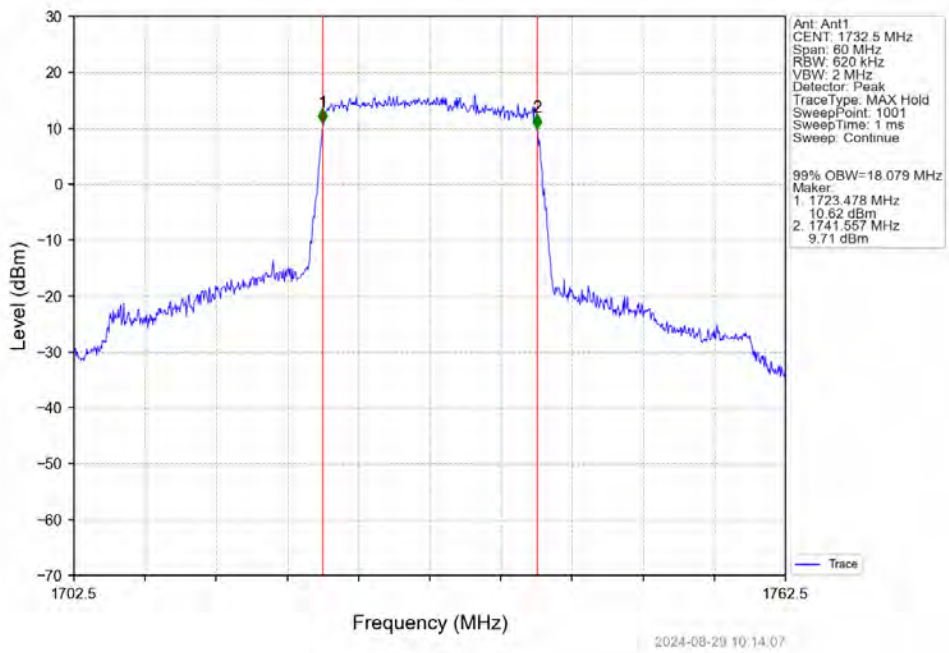

Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



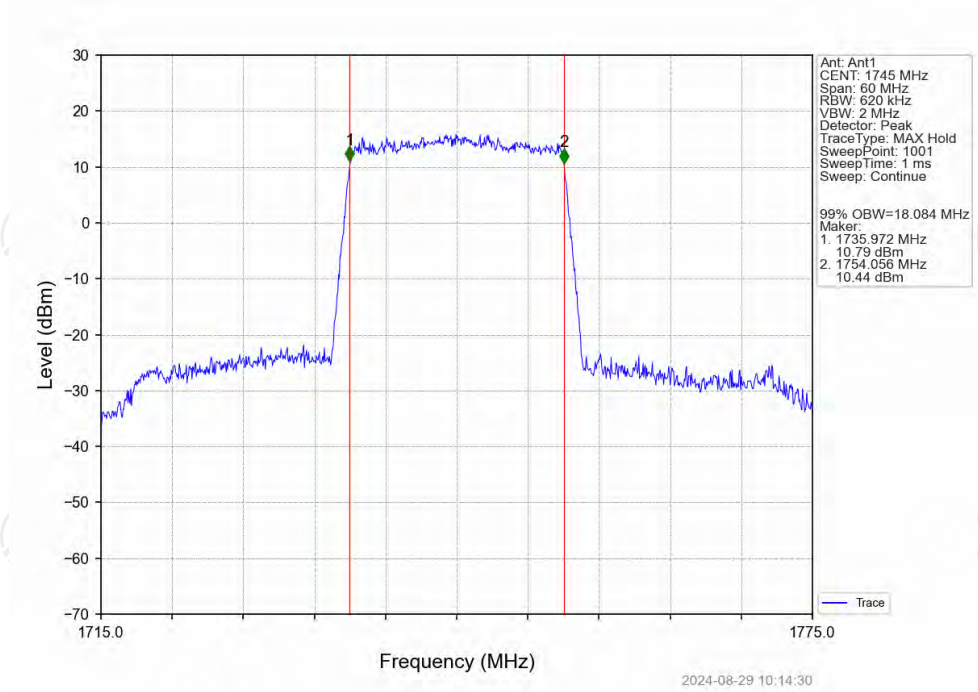
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



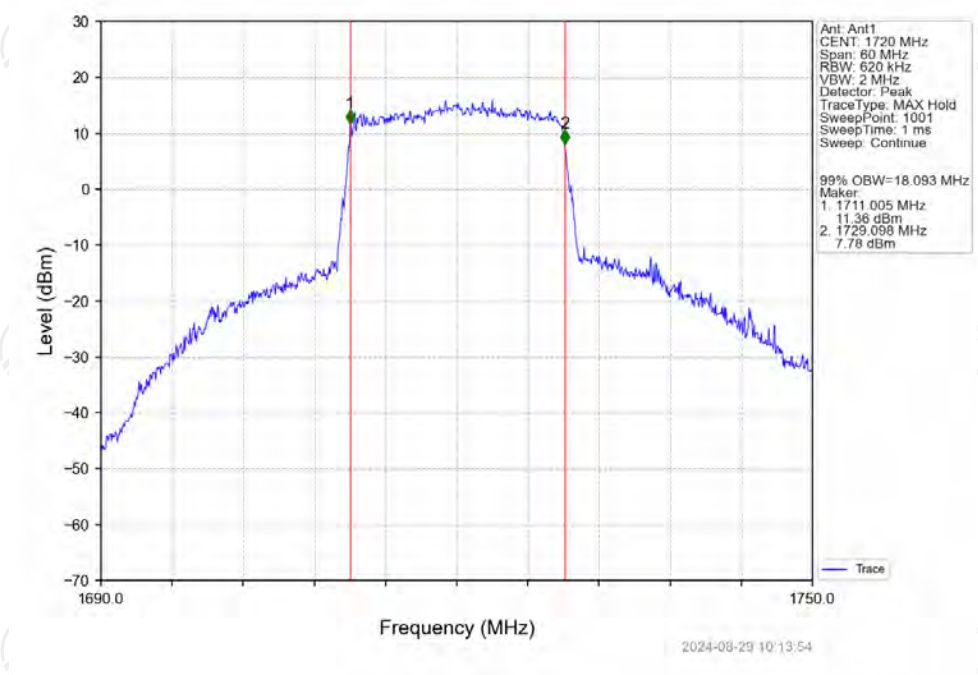

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



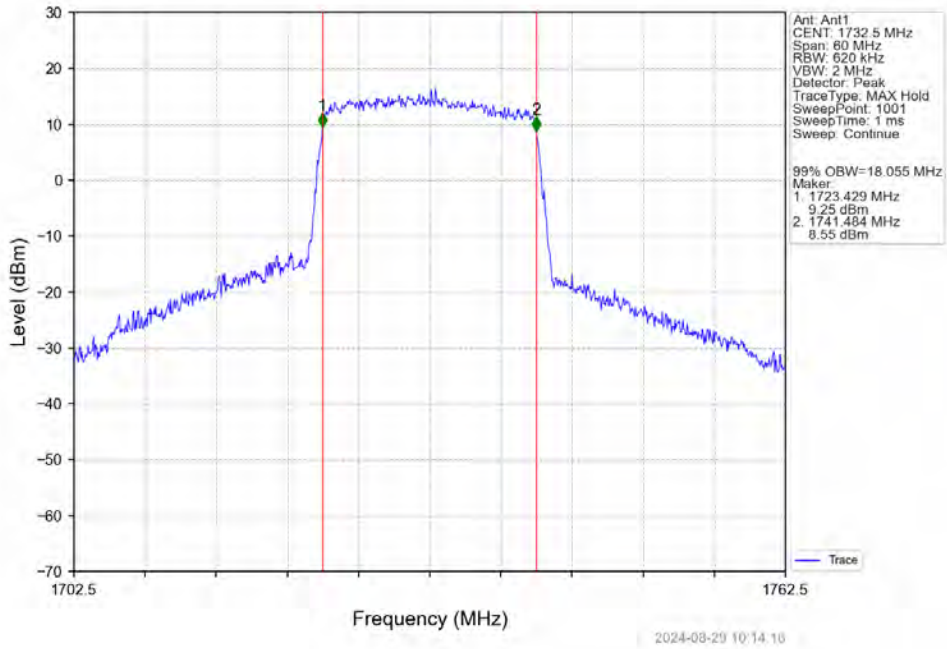
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



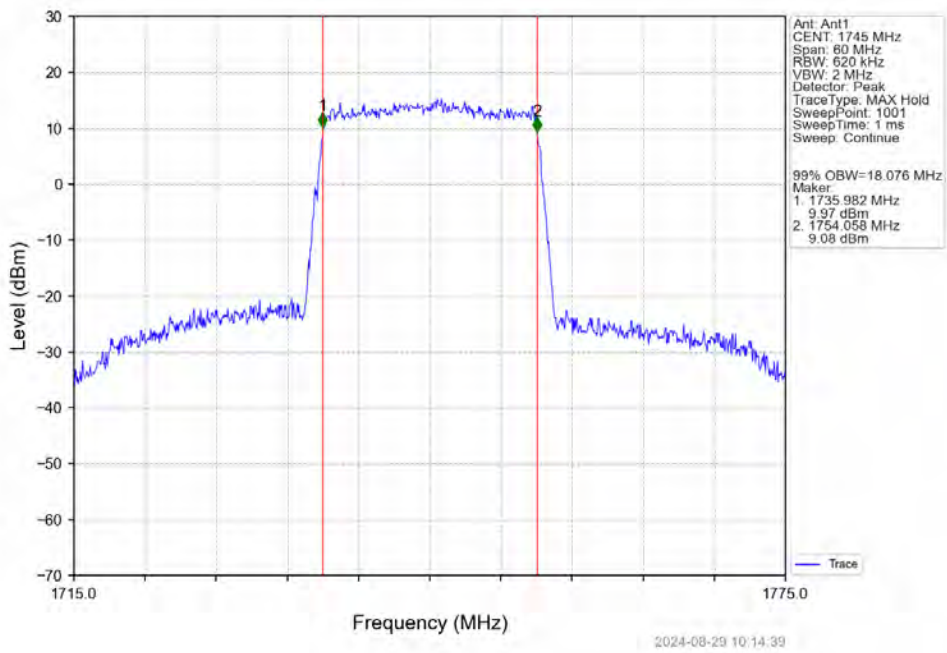

Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV

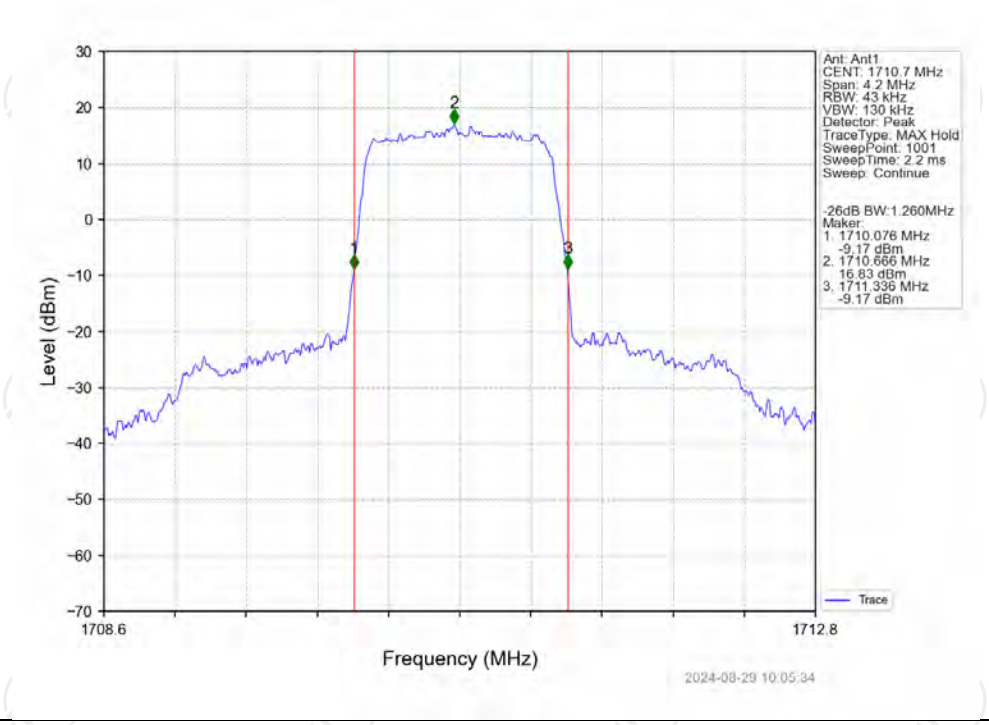



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV

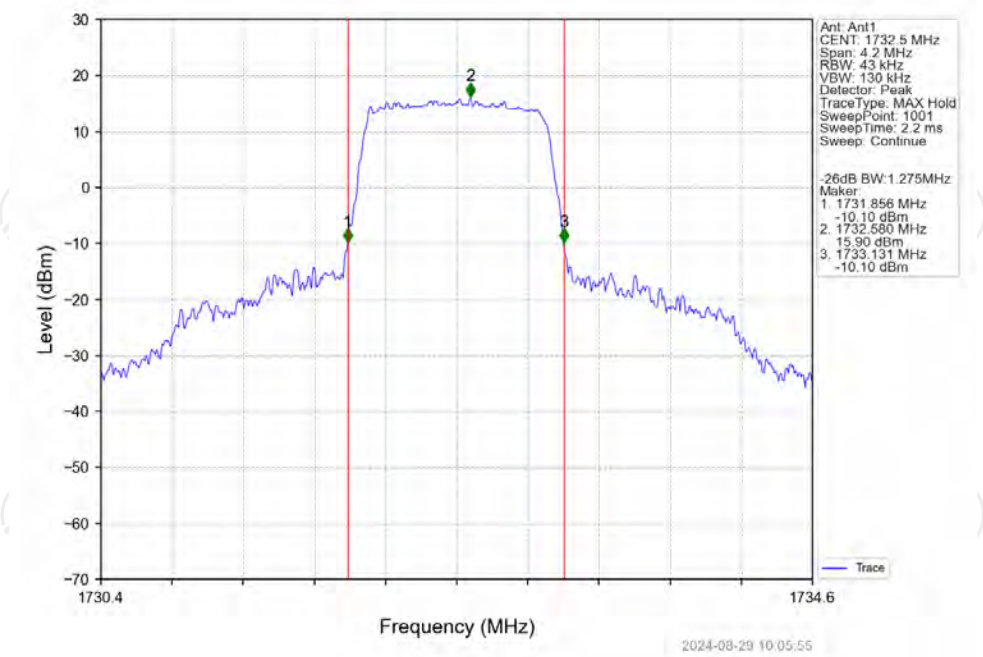


## 4.2.2 Band4_XDB

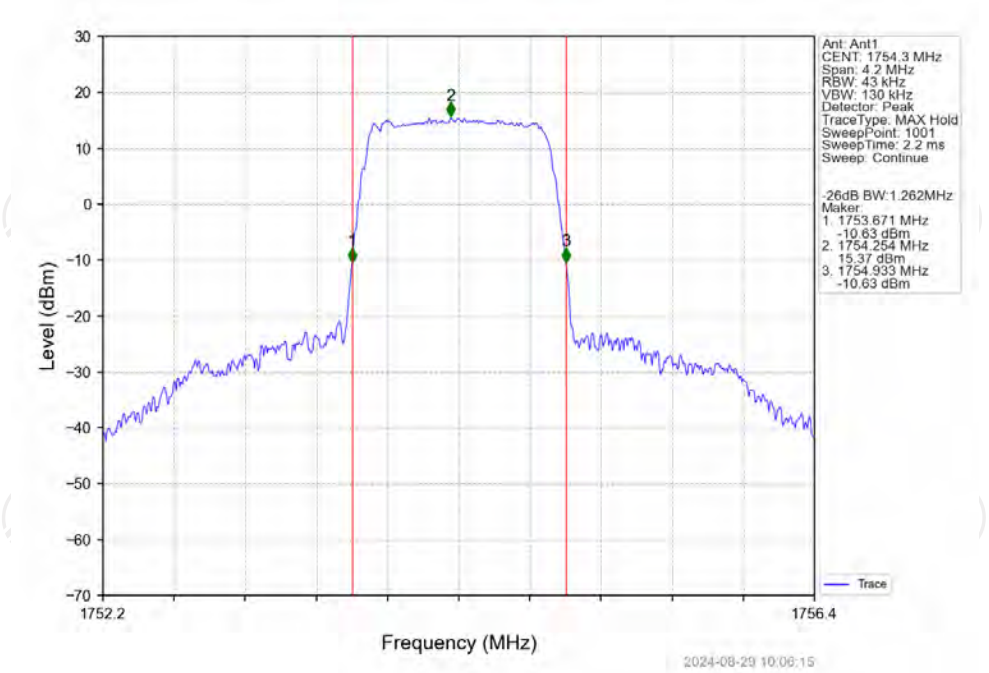
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



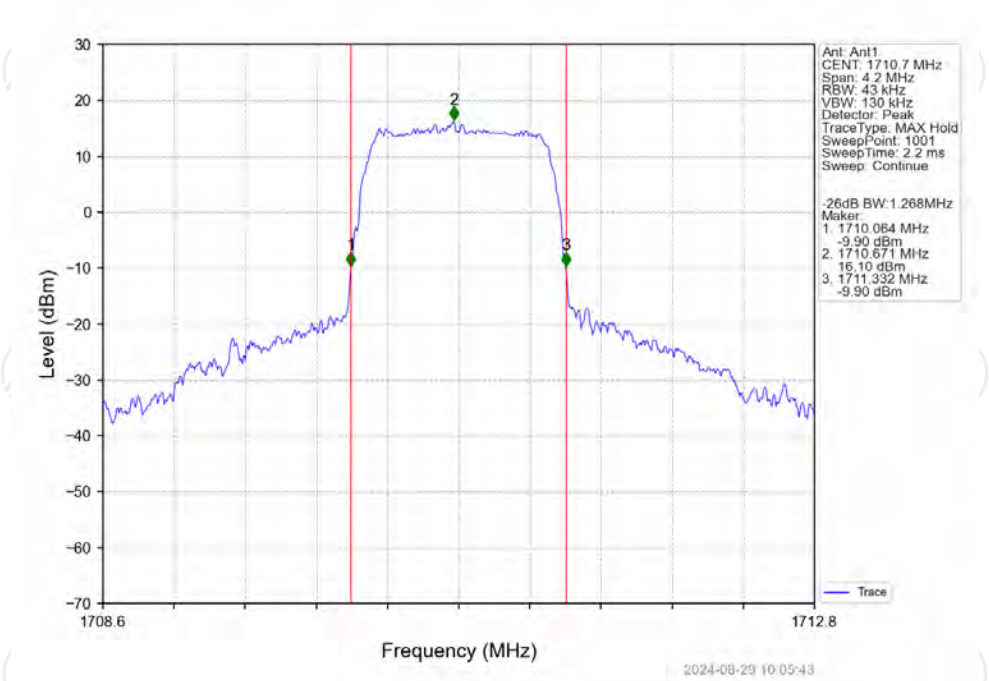

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV




Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



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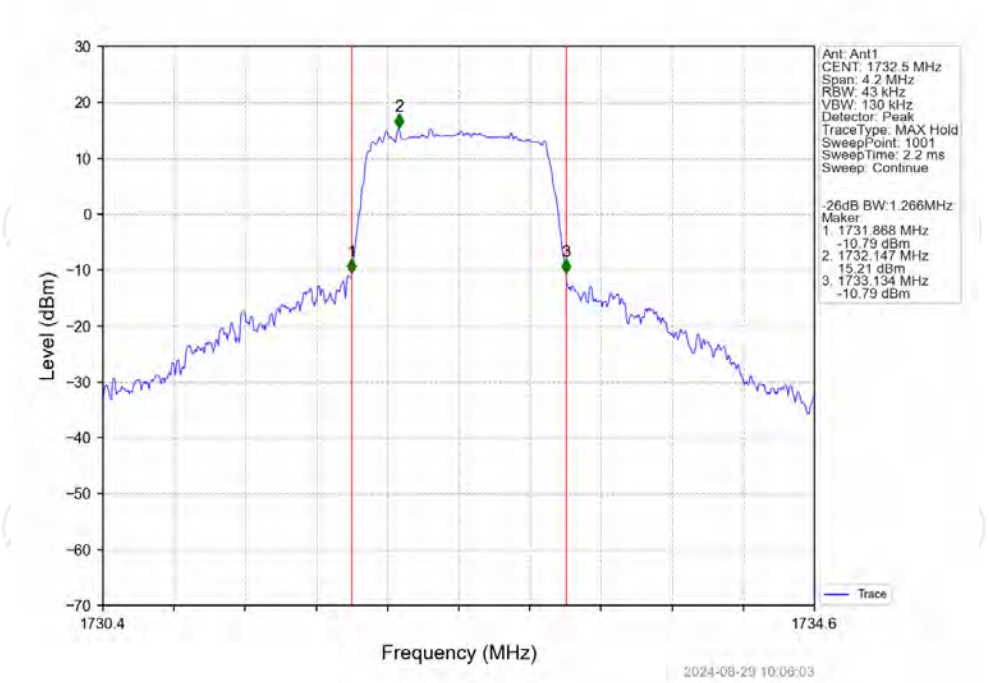
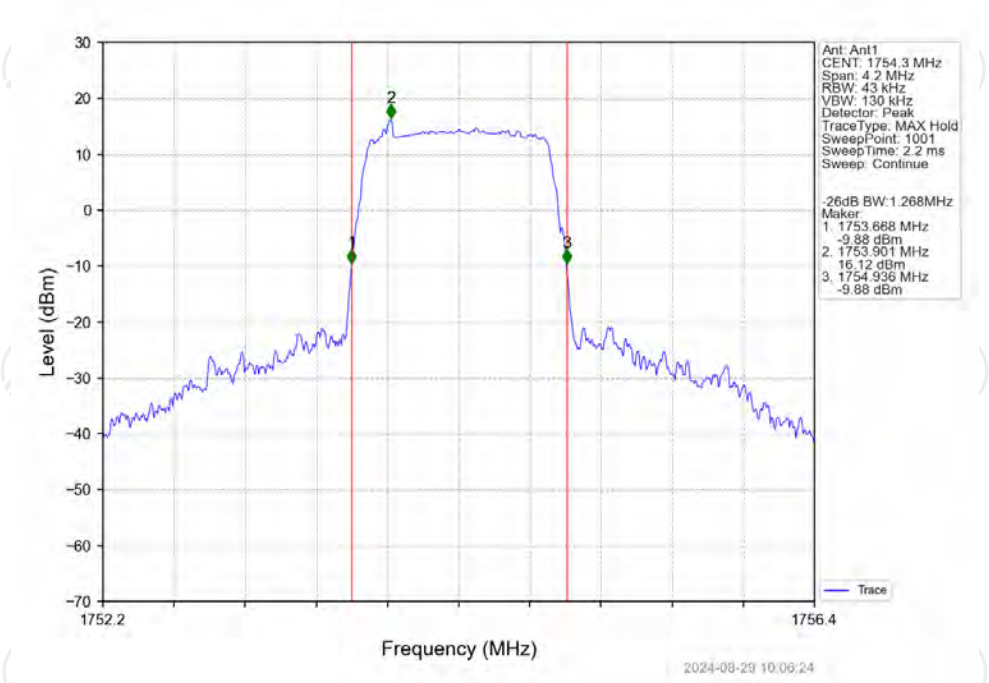
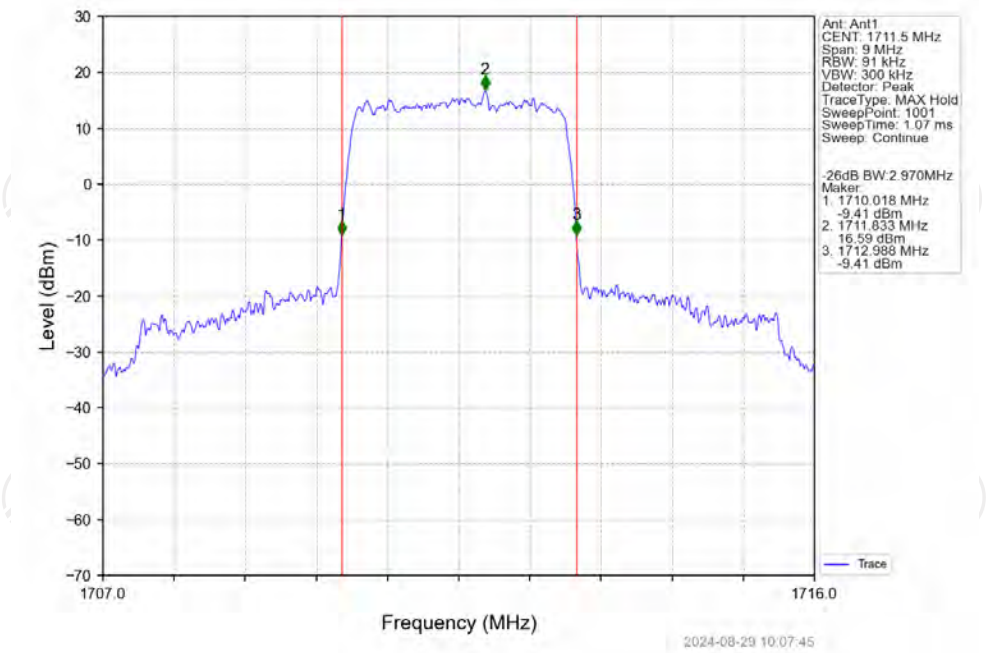
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



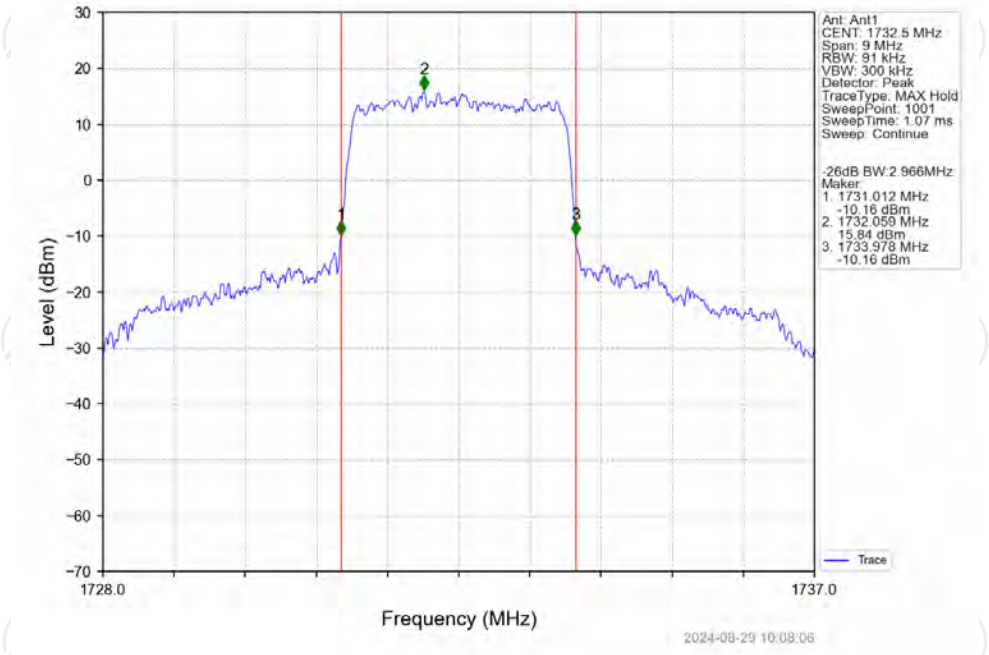

Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV




Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



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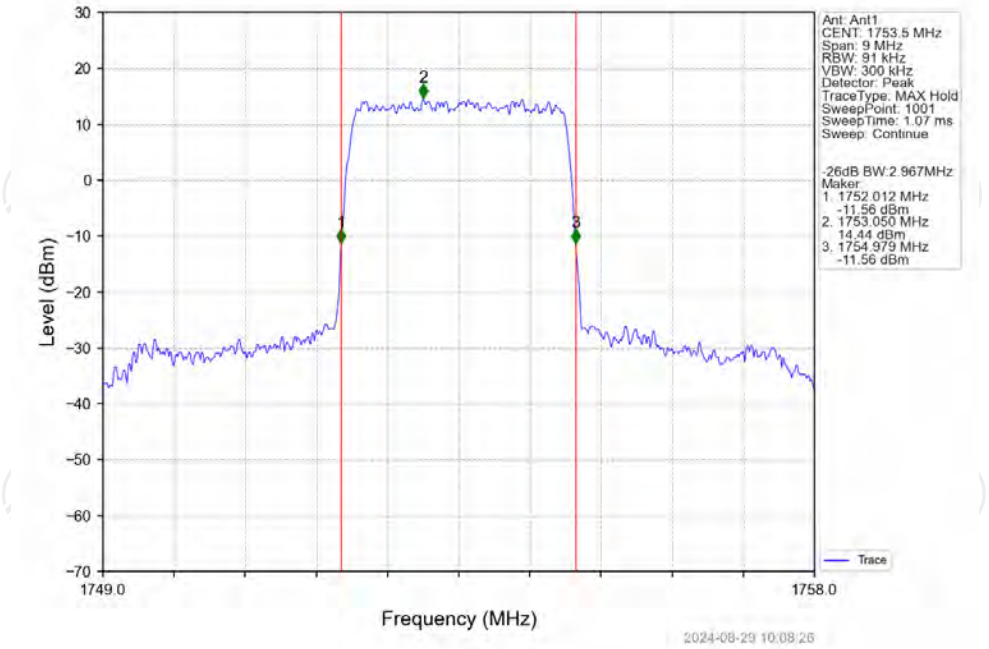
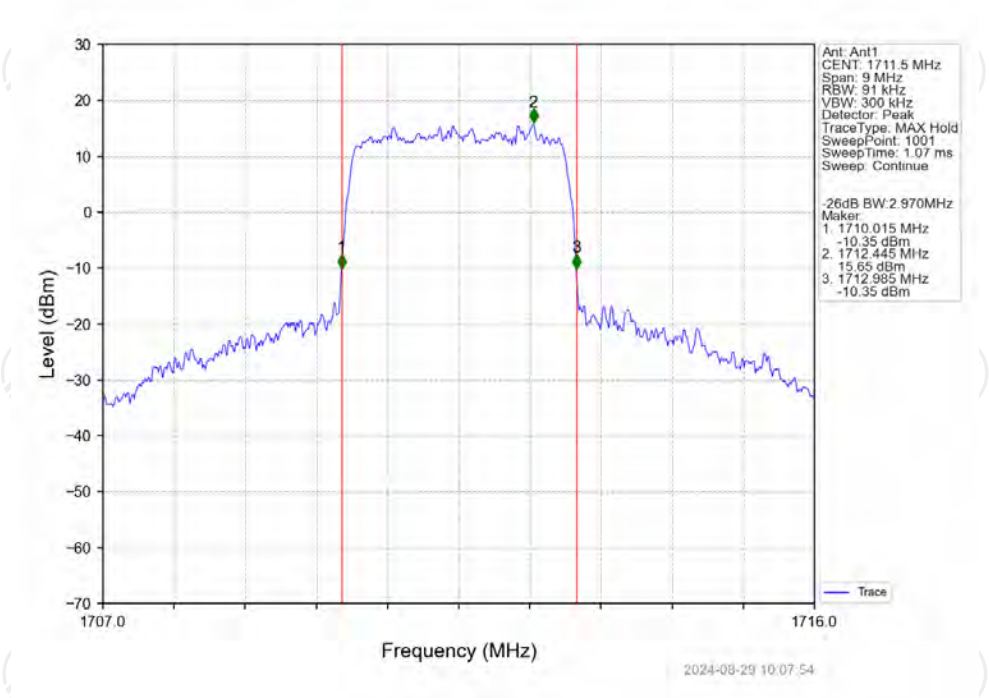
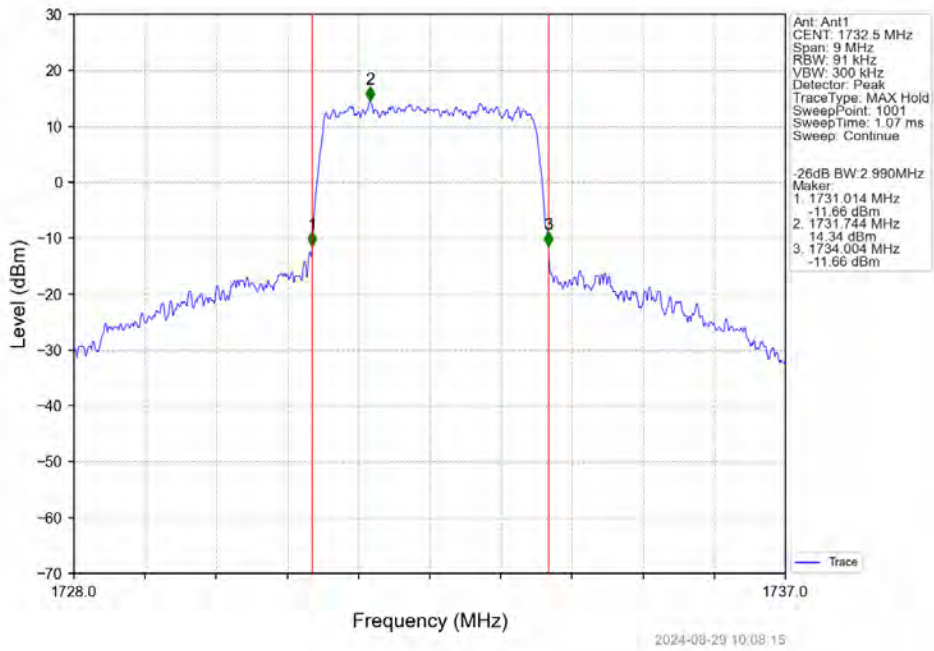
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



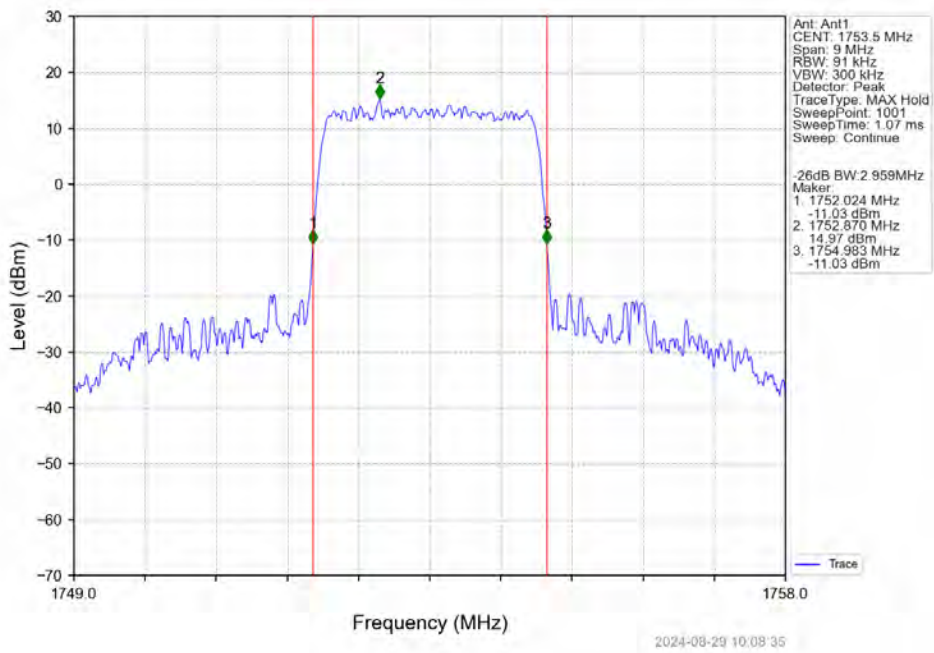

Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



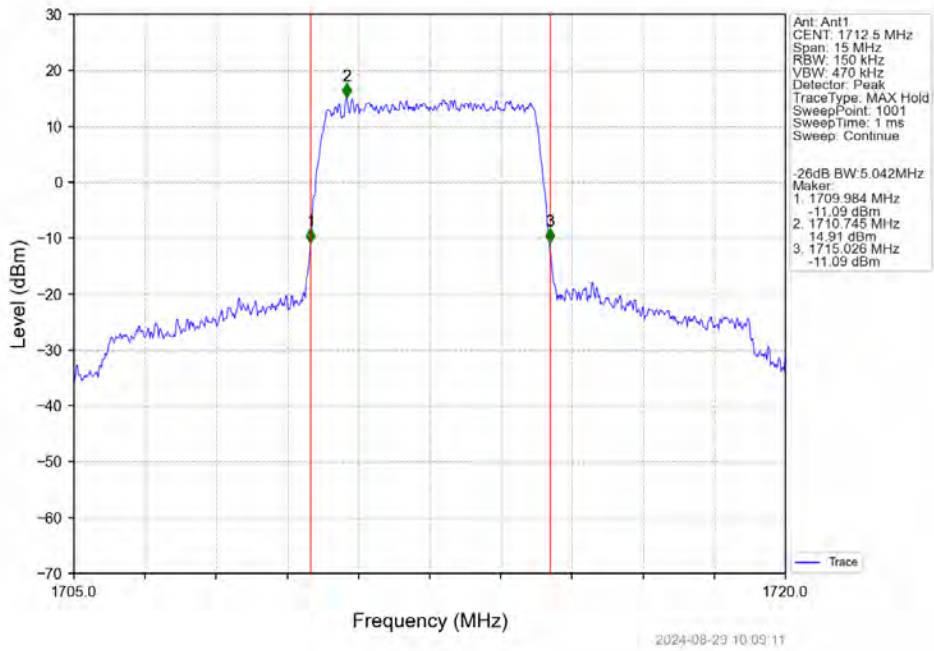
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



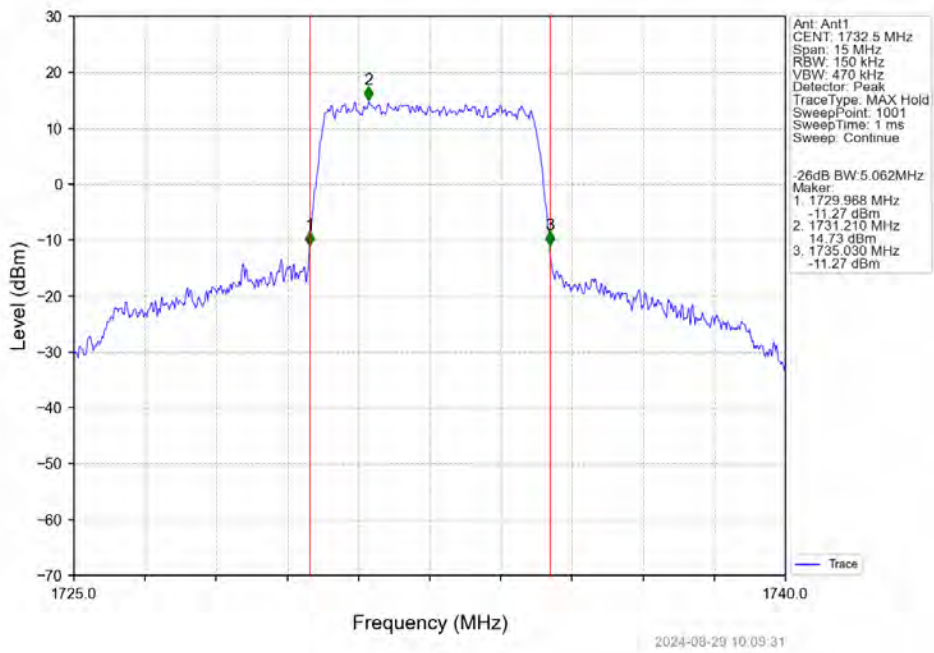

Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



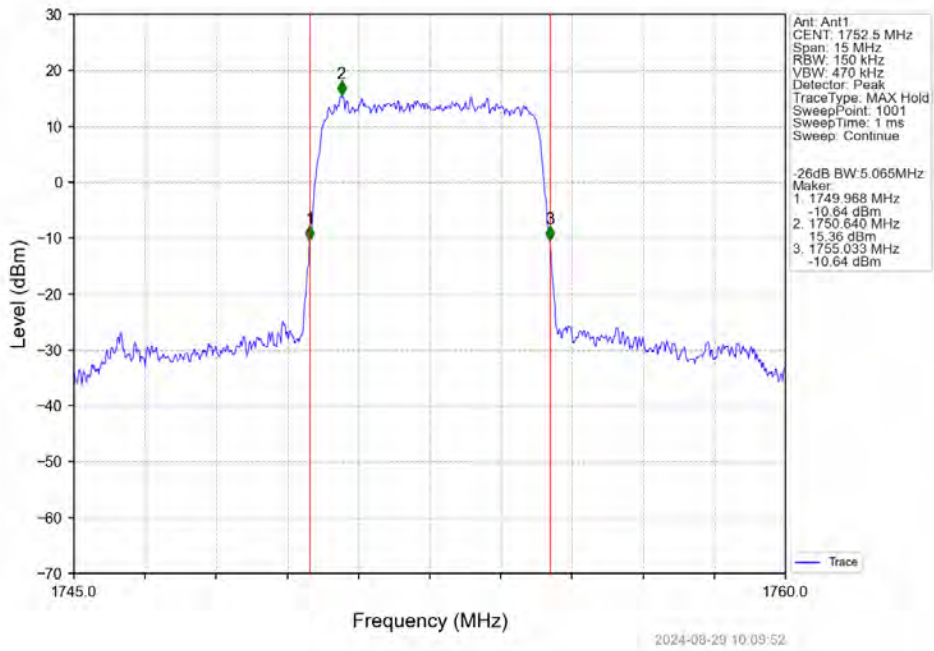
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



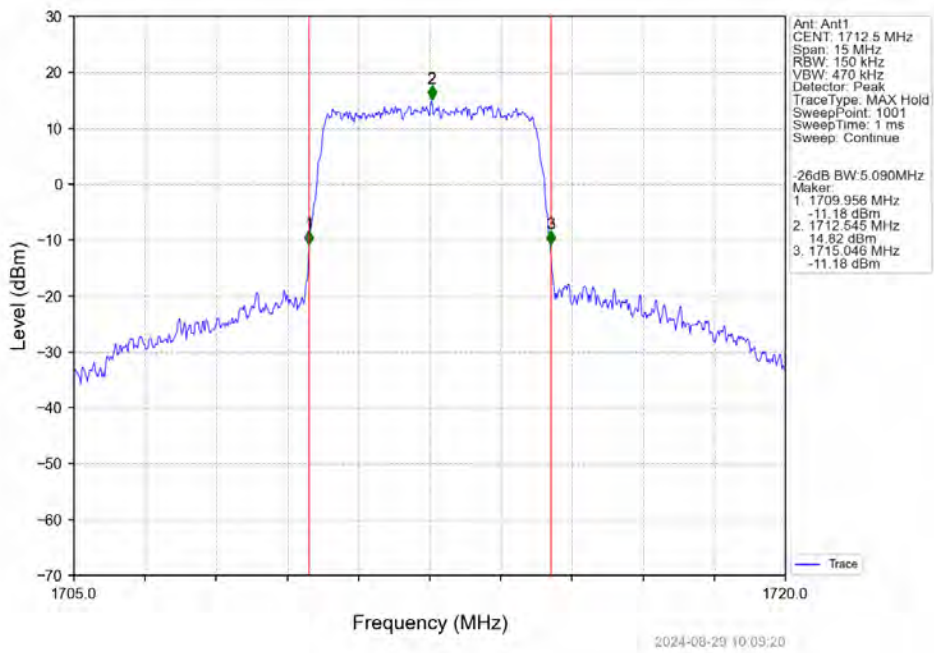

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV




Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



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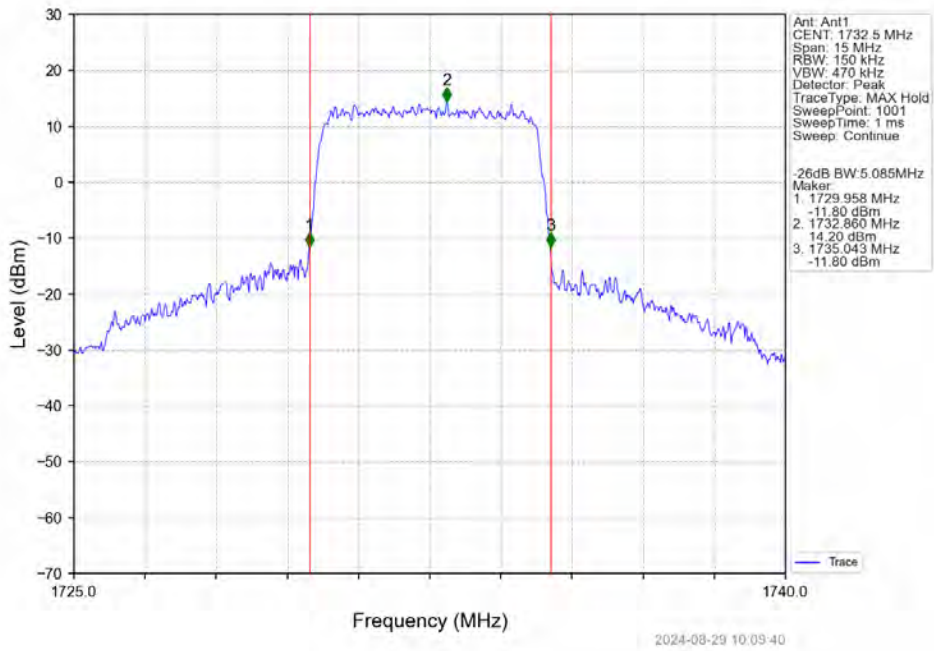
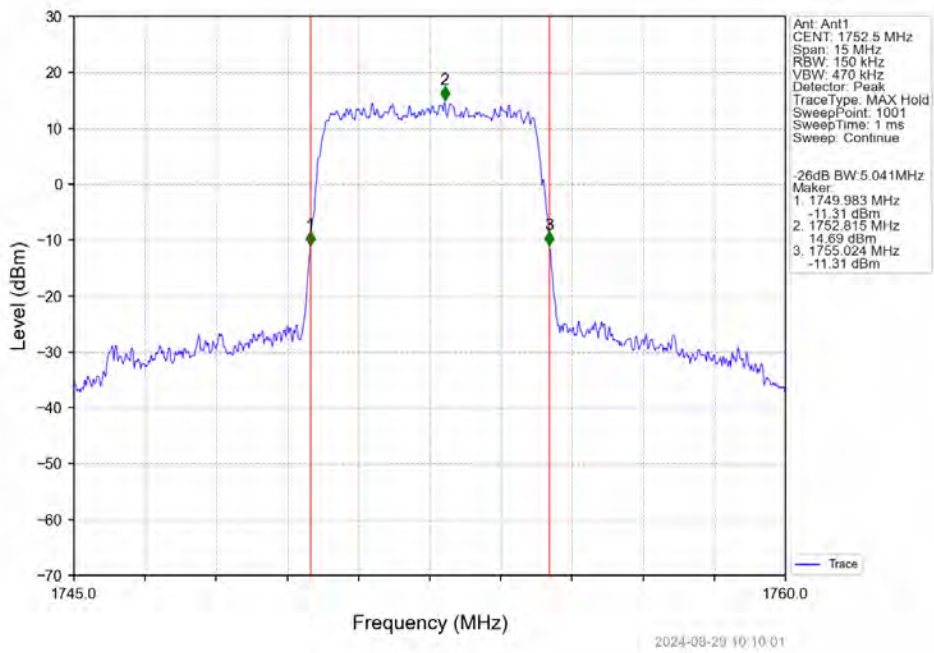
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV




Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



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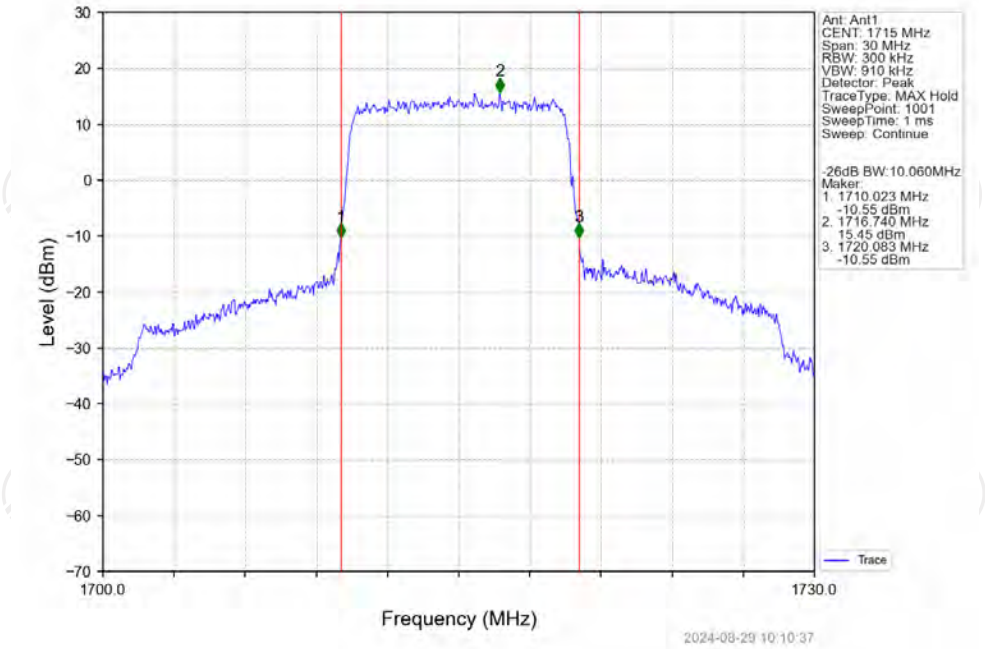
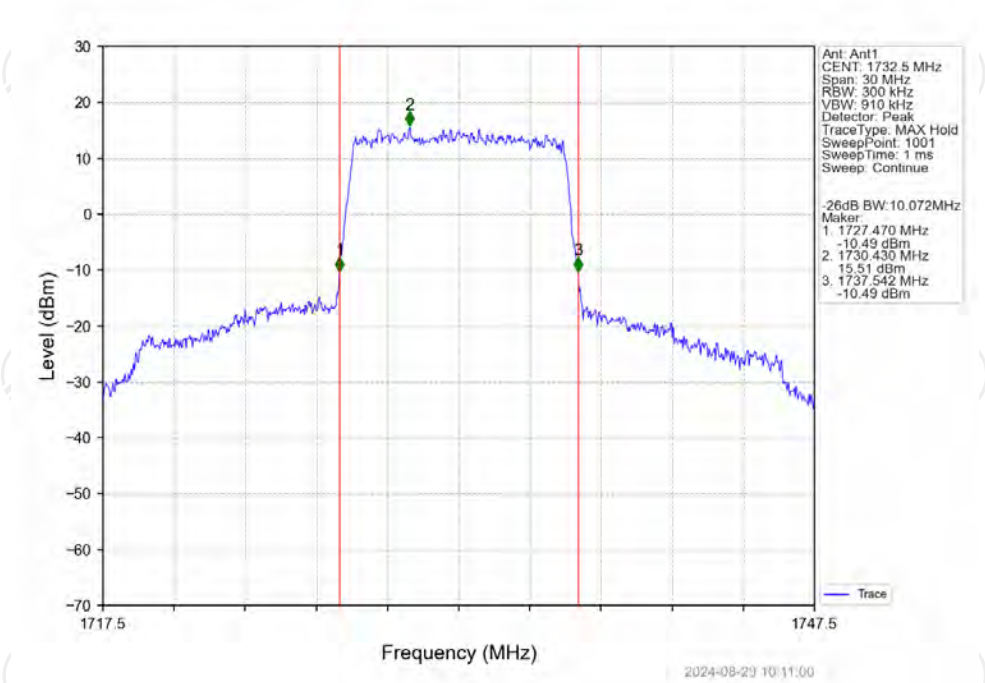
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV




Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



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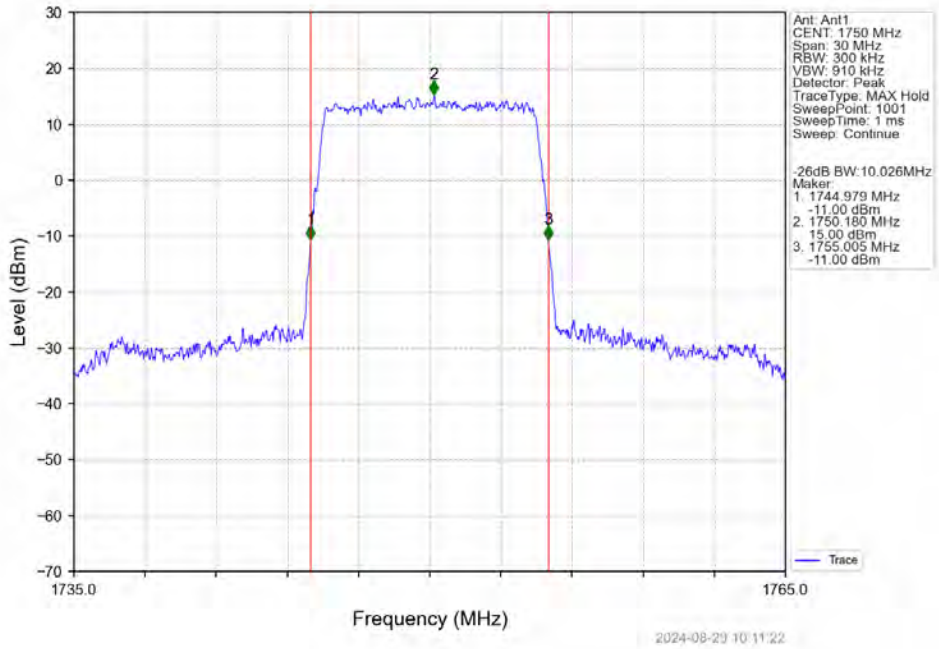
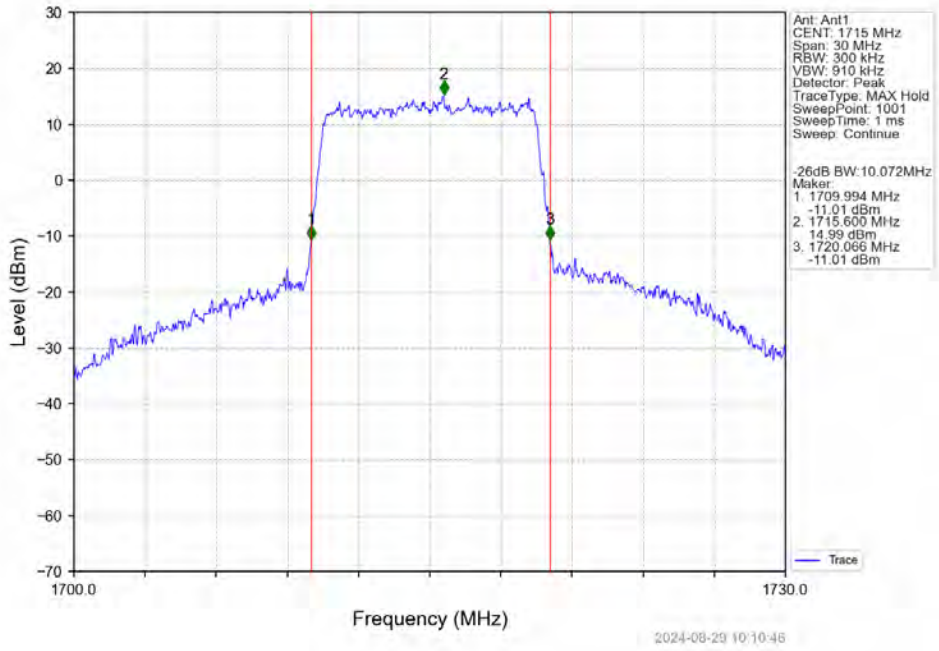
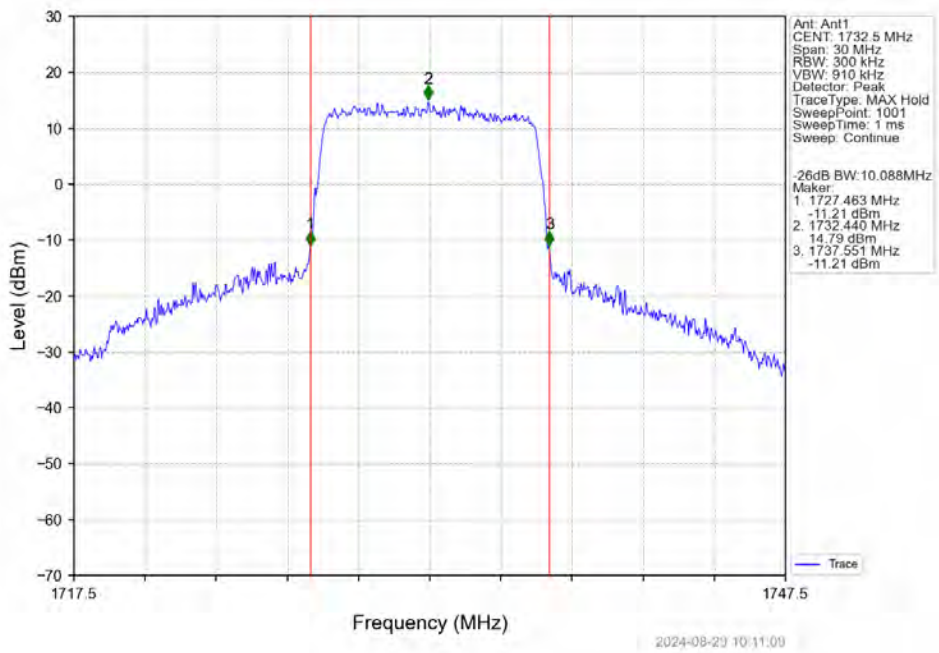
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



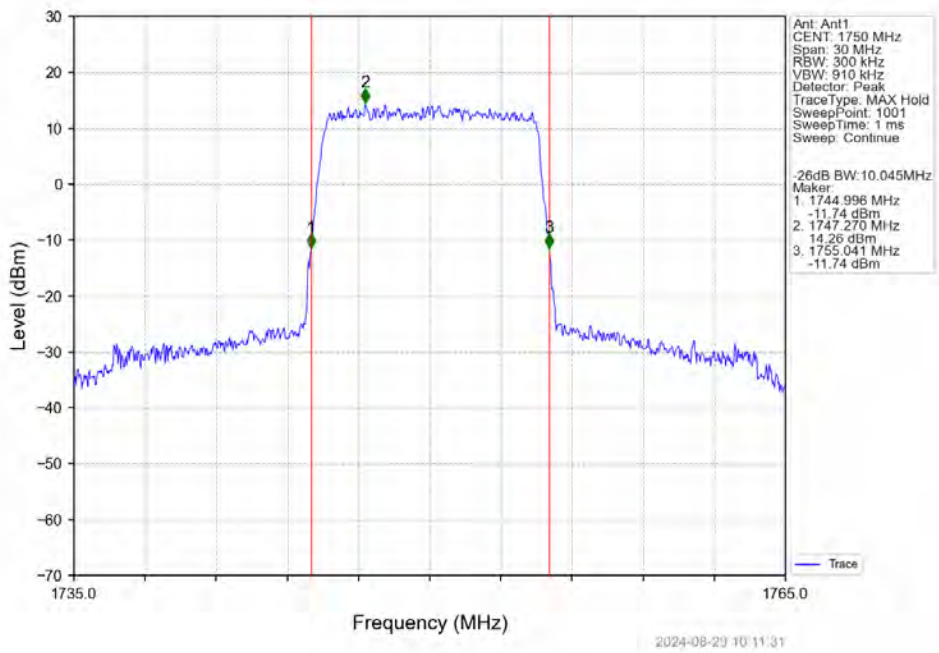

Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV




Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



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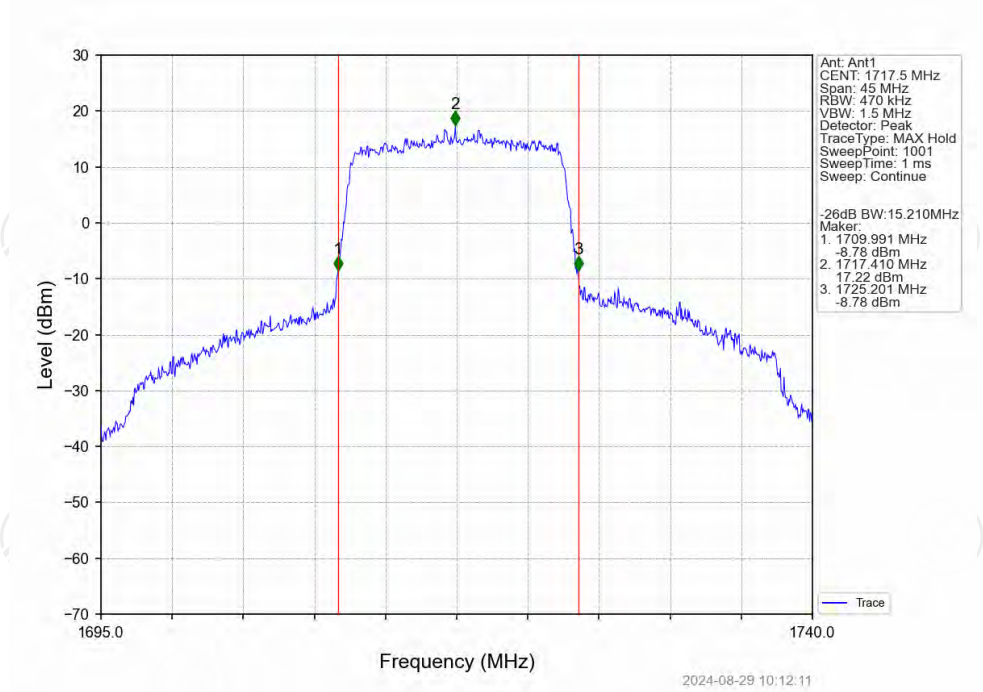
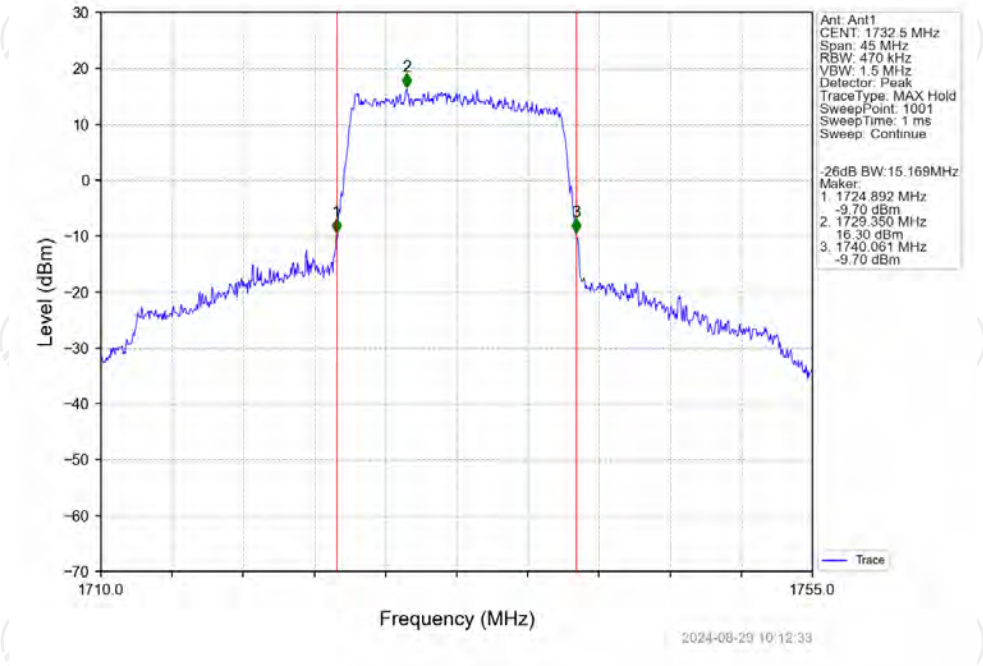
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV




Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



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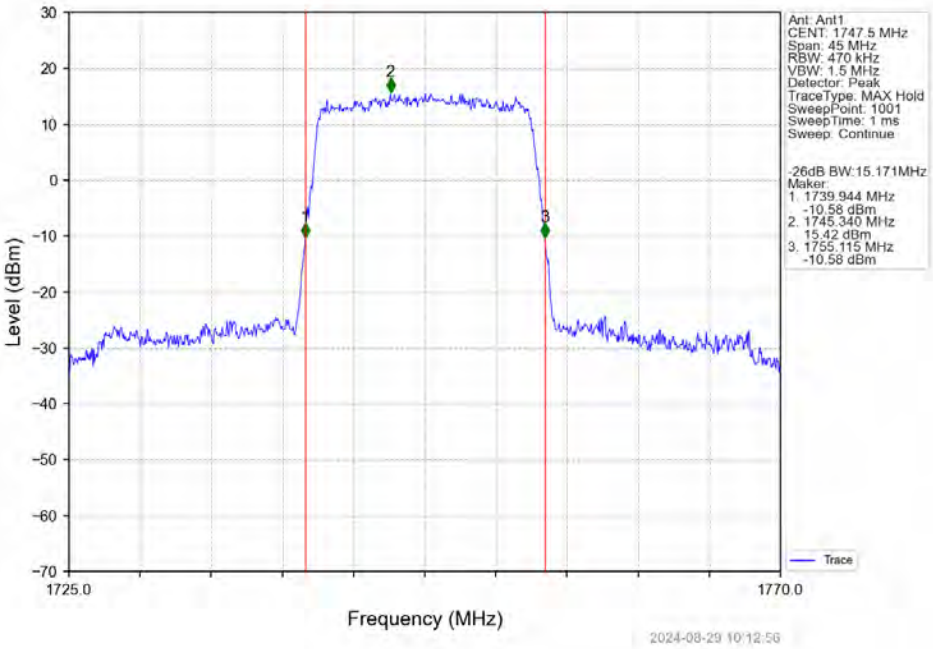
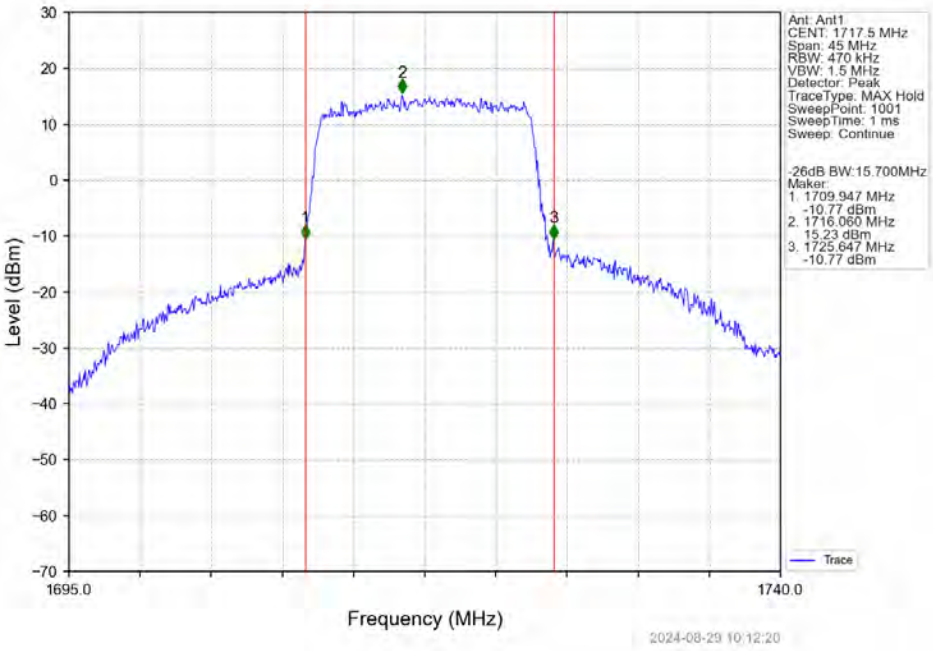
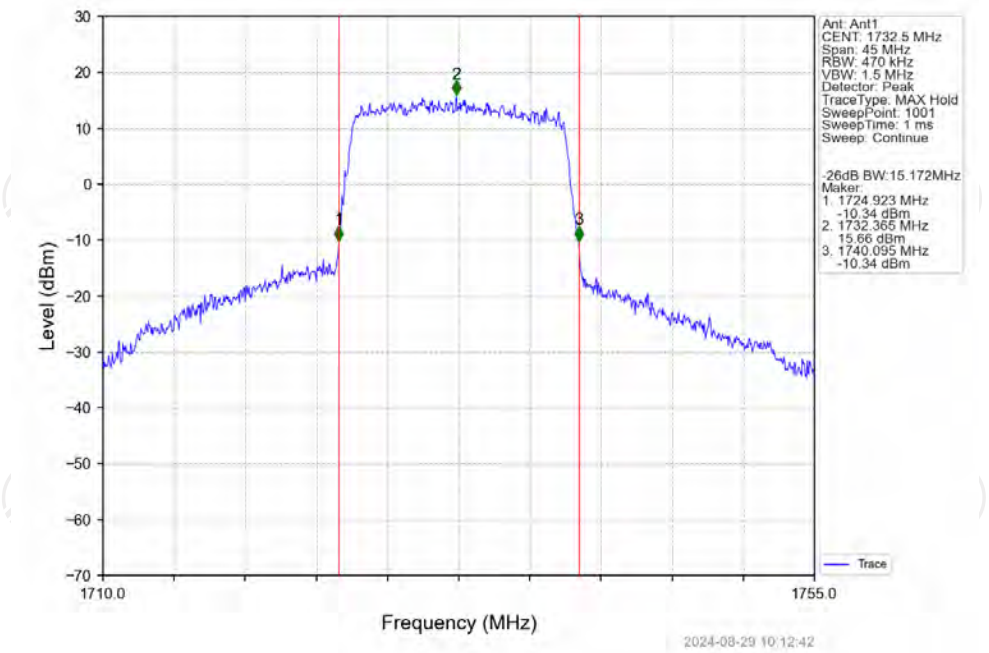
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



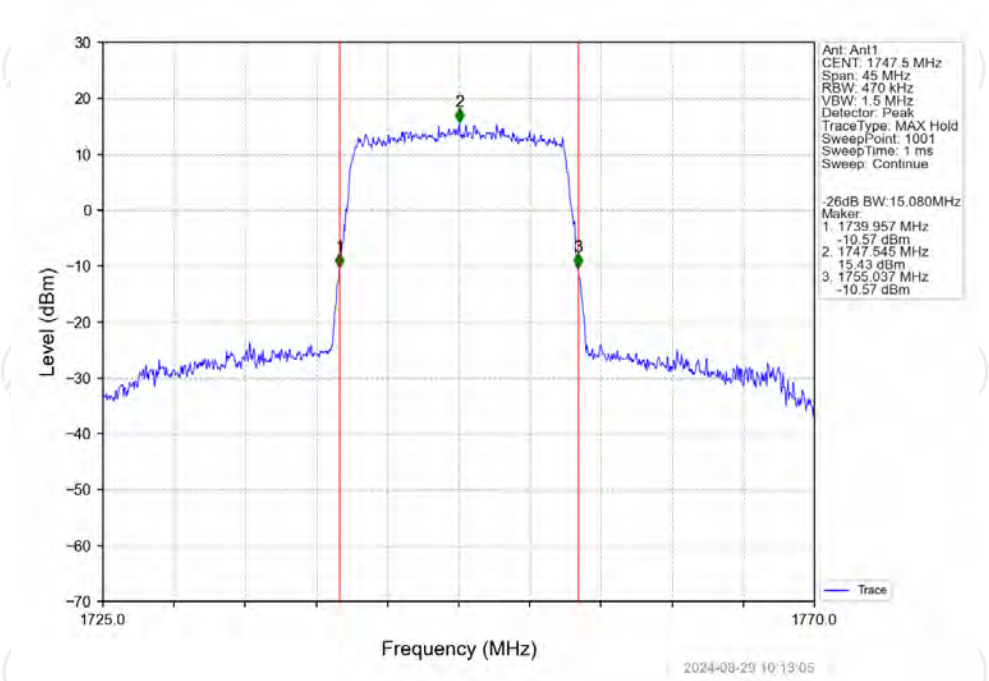

Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



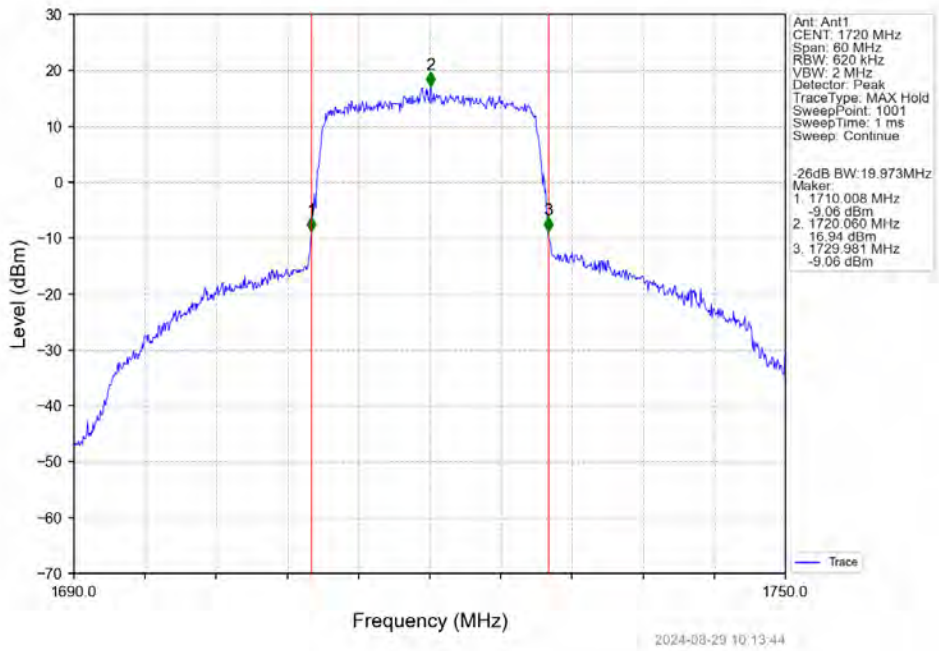
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



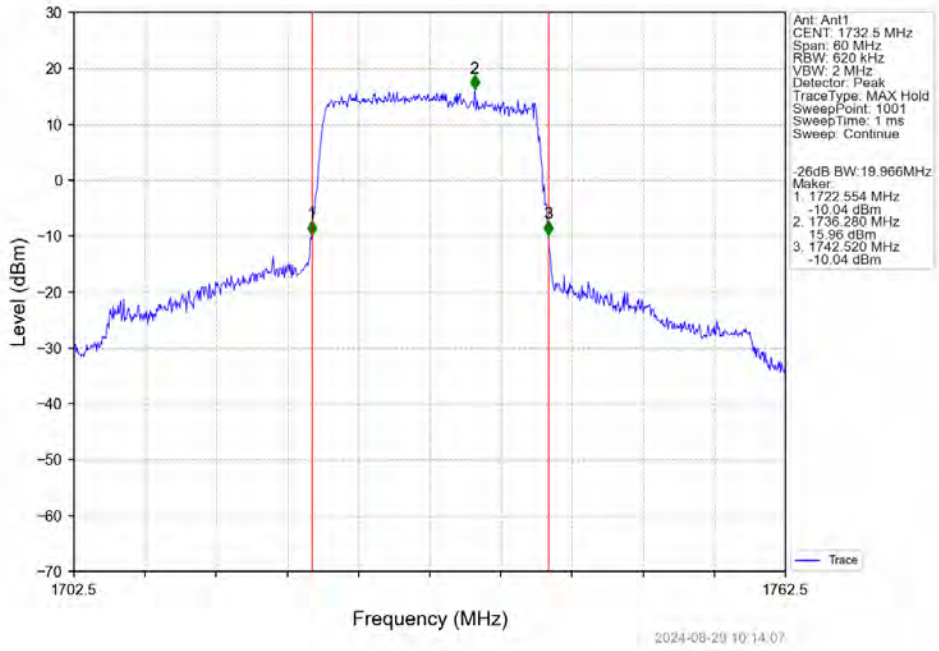

Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



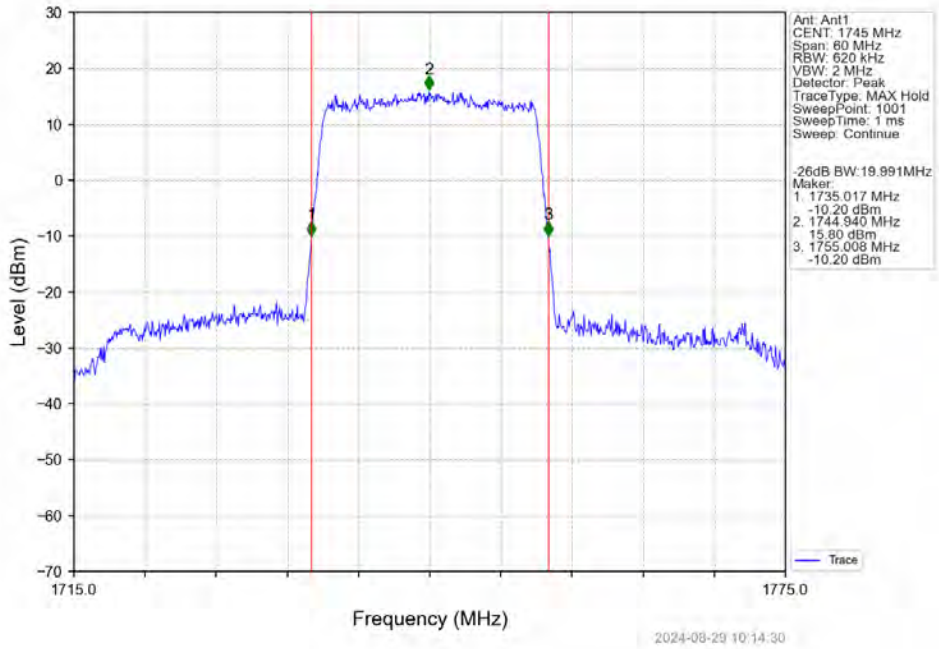
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



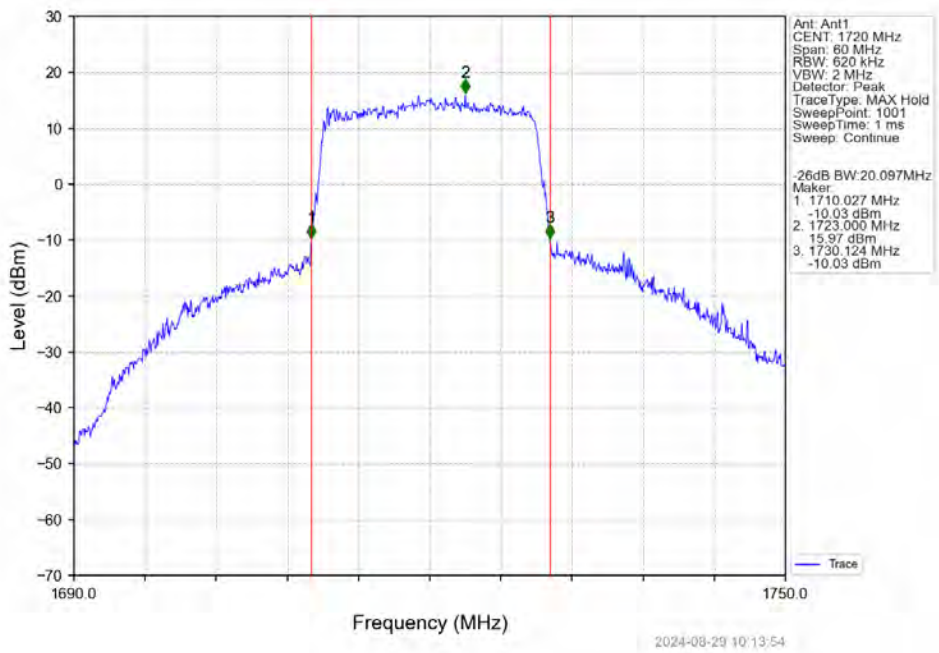

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



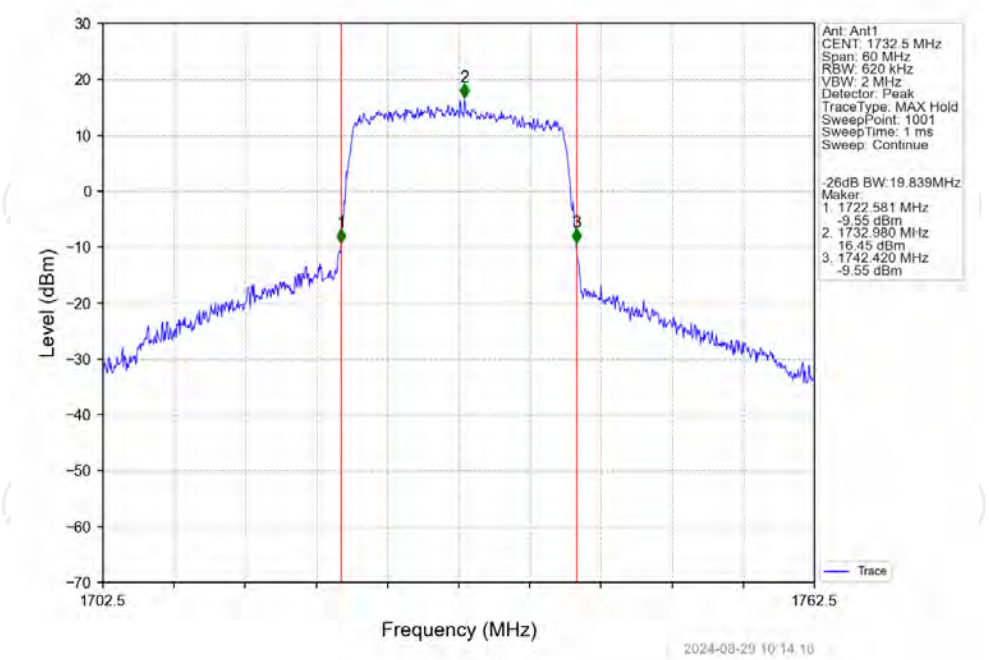
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



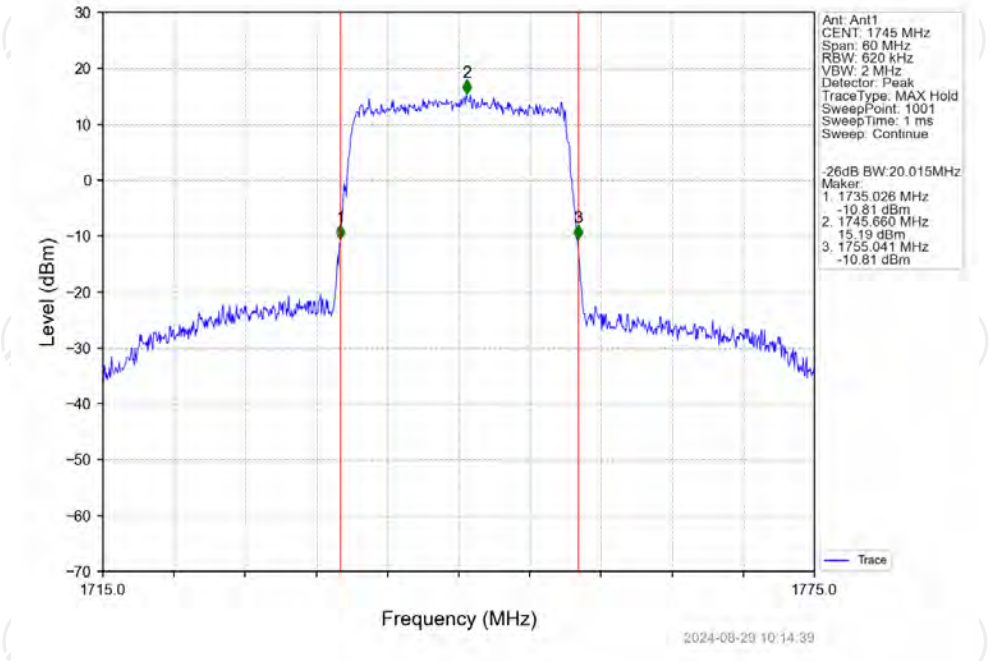

Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV




Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



# 5. Peak-Average Ratio

## 5.1 Test Result

### 5.1.1 B4_1.4MHz

| Band: 4 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1710.7 | 6 | 0 | 4.62 | <=13 | Pass |
| | 1732.5 | 6 | 0 | 4.18 | <=13 | Pass |
| | 1754.3 | 6 | 0 | 5.11 | <=13 | Pass |
| 16QAM | 1710.7 | 6 | 0 | 5.35 | <=13 | Pass |
| | 1732.5 | 6 | 0 | 4.95 | <=13 | Pass |
| | 1754.3 | 6 | 0 | 5.86 | <=13 | Pass |

### 5.1.2 B4_3MHz

| Band: 4 / Bandwidth: 3MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1711.5 | 15 | 0 | 4.66 | <=13 | Pass |
| | 1732.5 | 15 | 0 | 4.35 | <=13 | Pass |
| | 1753.5 | 15 | 0 | 5.36 | <=13 | Pass |
| 16QAM | 1711.5 | 15 | 0 | 5.48 | <=13 | Pass |
| | 1732.5 | 15 | 0 | 5.10 | <=13 | Pass |
| | 1753.5 | 15 | 0 | 6.11 | <=13 | Pass |

### 5.1.3 B4_5MHz

| Band: 4 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1712.5 | 25 | 0 | 4.85 | <=13 | Pass |
| | 1732.5 | 25 | 0 | 4.78 | <=13 | Pass |
| | 1752.5 | 25 | 0 | 5.50 | <=13 | Pass |
| 16QAM | 1712.5 | 25 | 0 | 5.56 | <=13 | Pass |
| | 1732.5 | 25 | 0 | 5.41 | <=13 | Pass |
| | 1752.5 | 25 | 0 | 6.20 | <=13 | Pass |

### 5.1.4 B4_10MHz

| Band: 4 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1715 | 50 | 0 | 4.73 | <=13 | Pass |
| | 1732.5 | 50 | 0 | 4.86 | <=13 | Pass |
| | 1750 | 50 | 0 | 5.57 | <=13 | Pass |
| 16QAM | 1715 | 50 | 0 | 5.39 | <=13 | Pass |
| | 1732.5 | 50 | 0 | 5.57 | <=13 | Pass |

| | | | | | | |
|---|---|---|---|---|---|---|
| | 1750 | 50 | 0 | 6.35 | <=13 | Pass |

## 5.1.5 B4_15MHz

| Band: 4 / Bandwidth: 15MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1717.5 | 75 | 0 | 4.19 | <=13 | Pass |
| | 1732.5 | 75 | 0 | 4.71 | <=13 | Pass |
| | 1747.5 | 75 | 0 | 5.67 | <=13 | Pass |
| 16QAM | 1717.5 | 75 | 0 | 4.90 | <=13 | Pass |
| | 1732.5 | 75 | 0 | 5.35 | <=13 | Pass |
| | 1747.5 | 75 | 0 | 6.32 | <=13 | Pass |

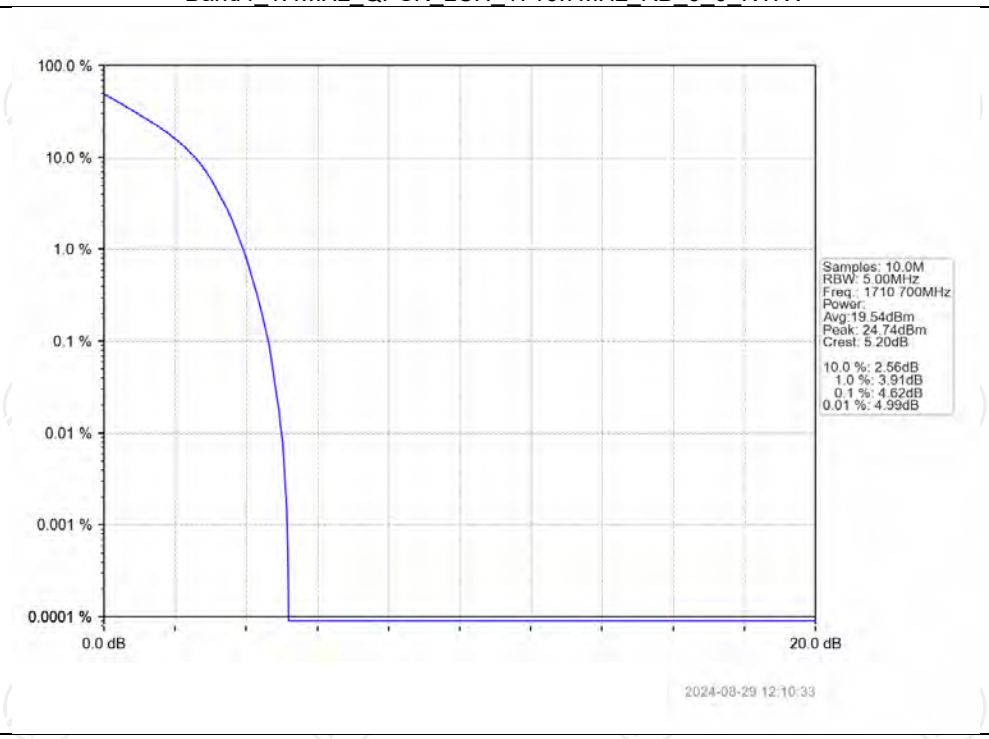
## 5.1.6 B4_20MHz

| Band: 4 / Bandwidth: 20MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1720 | 100 | 0 | 4.24 | <=13 | Pass |
| | 1732.5 | 100 | 0 | 4.72 | <=13 | Pass |
| | 1745 | 100 | 0 | 5.40 | <=13 | Pass |
| 16QAM | 1720 | 100 | 0 | 4.98 | <=13 | Pass |
| | 1732.5 | 100 | 0 | 5.48 | <=13 | Pass |
| | 1745 | 100 | 0 | 6.26 | <=13 | Pass |

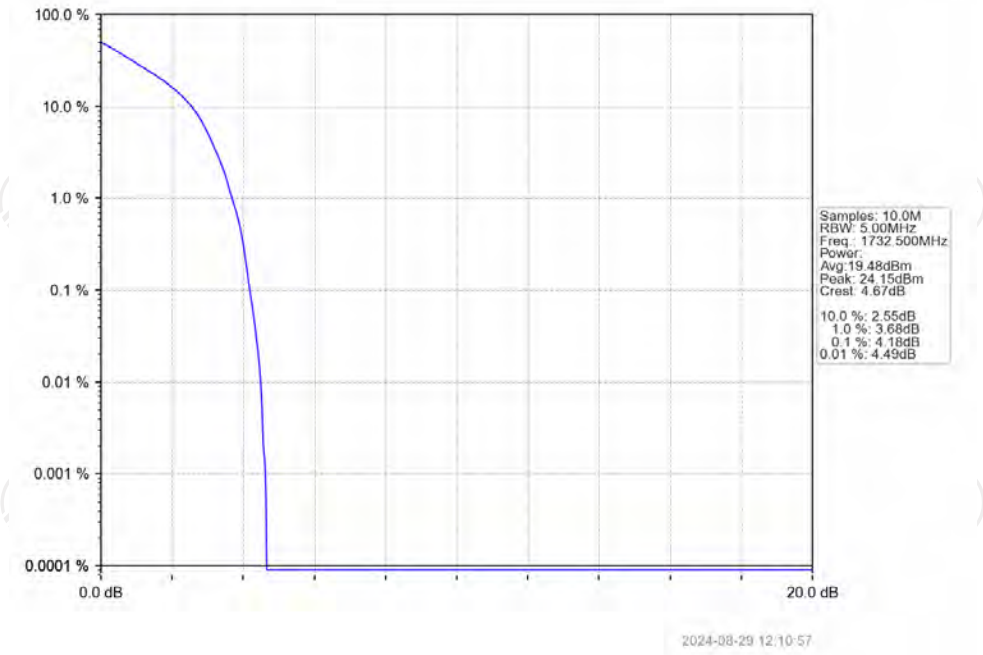
## 5.2 Test Graph

### 5.2.1 B4_1.4MHz

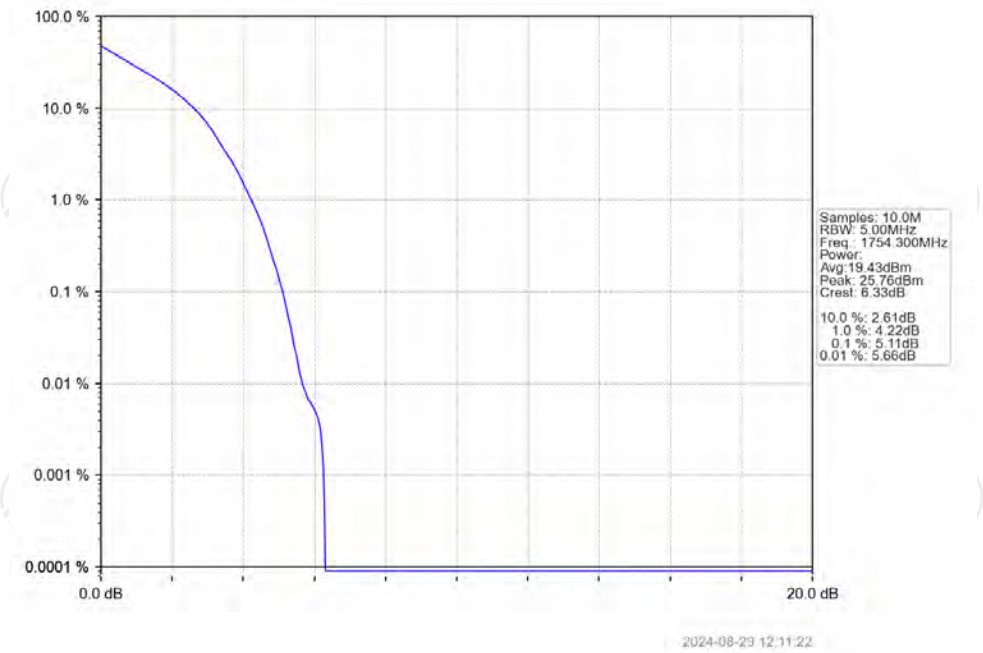
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



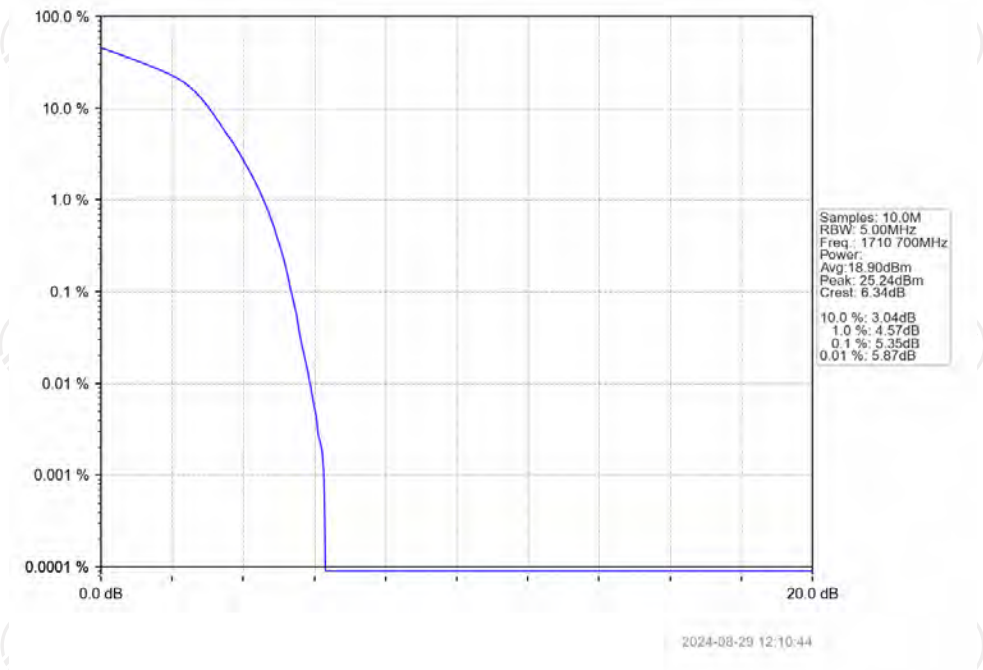

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



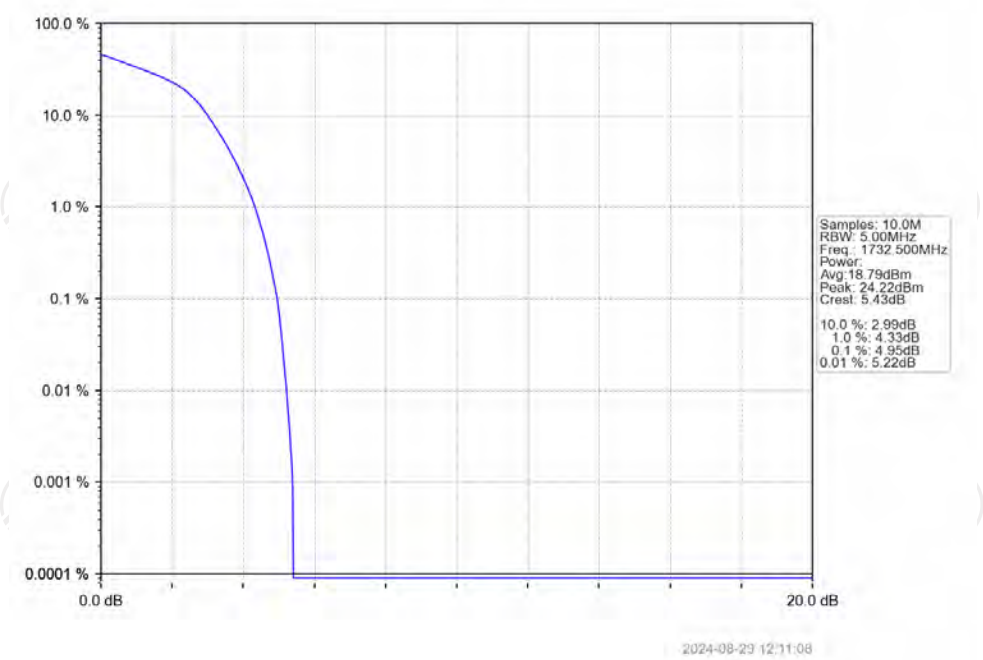
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



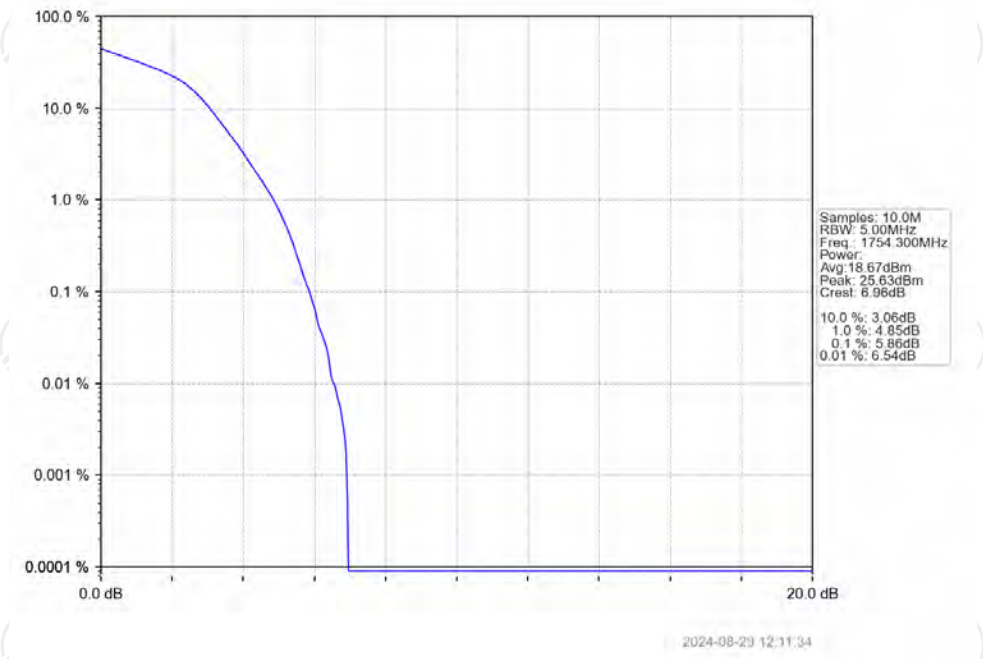

Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV

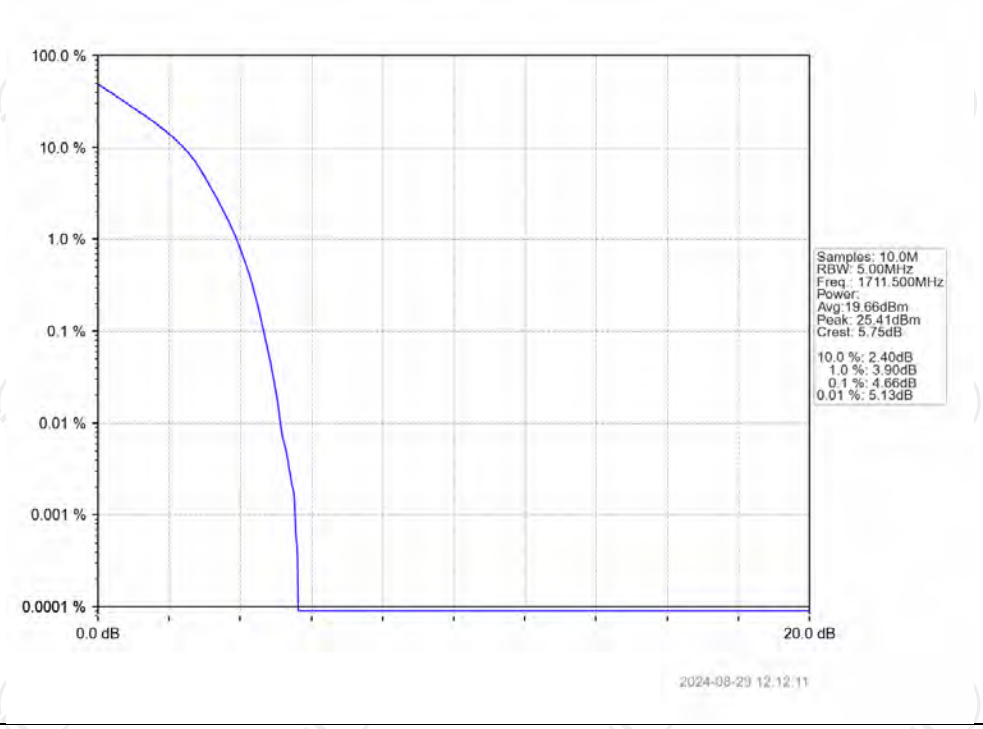



Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV

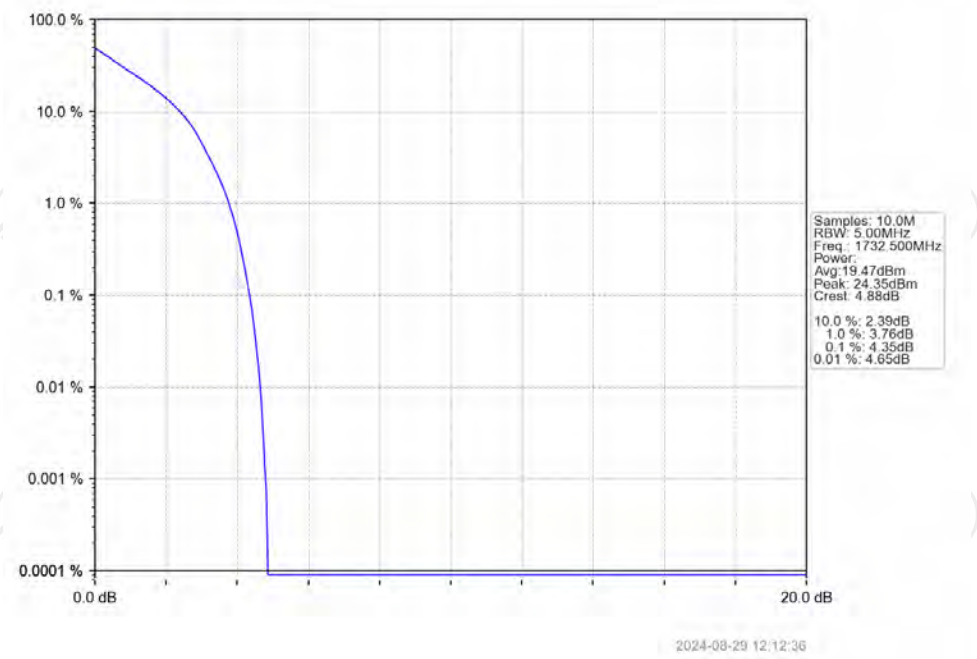


## 5.2.2 B4_3MHz

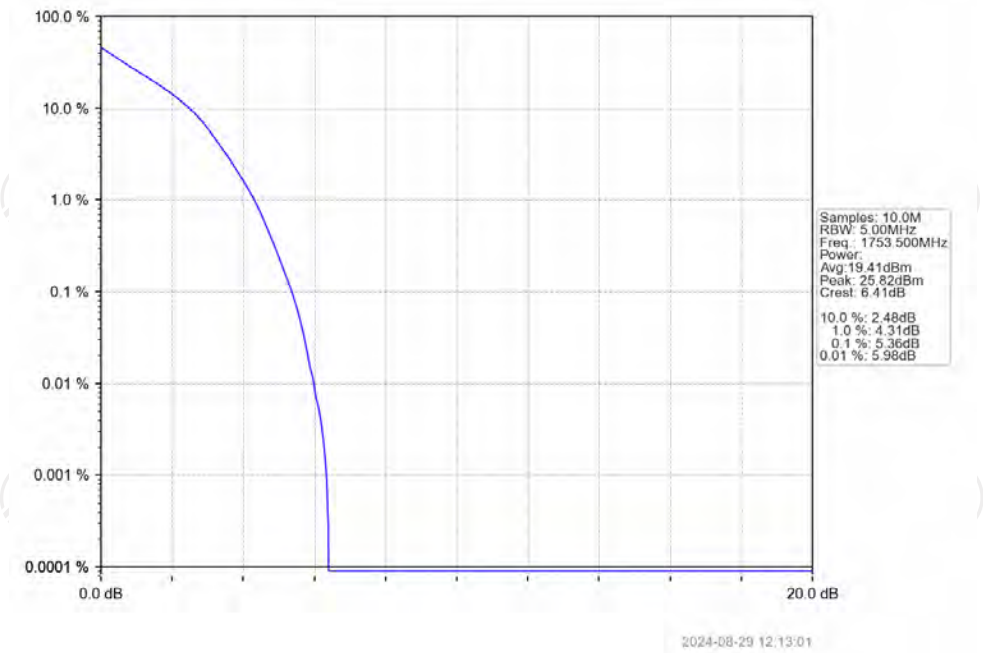
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



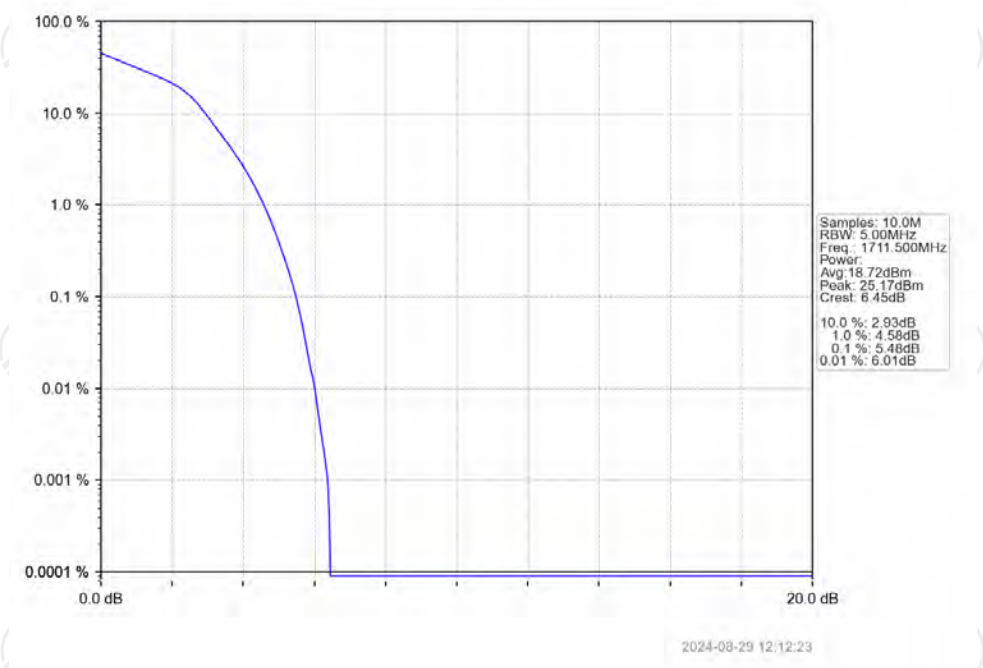

Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



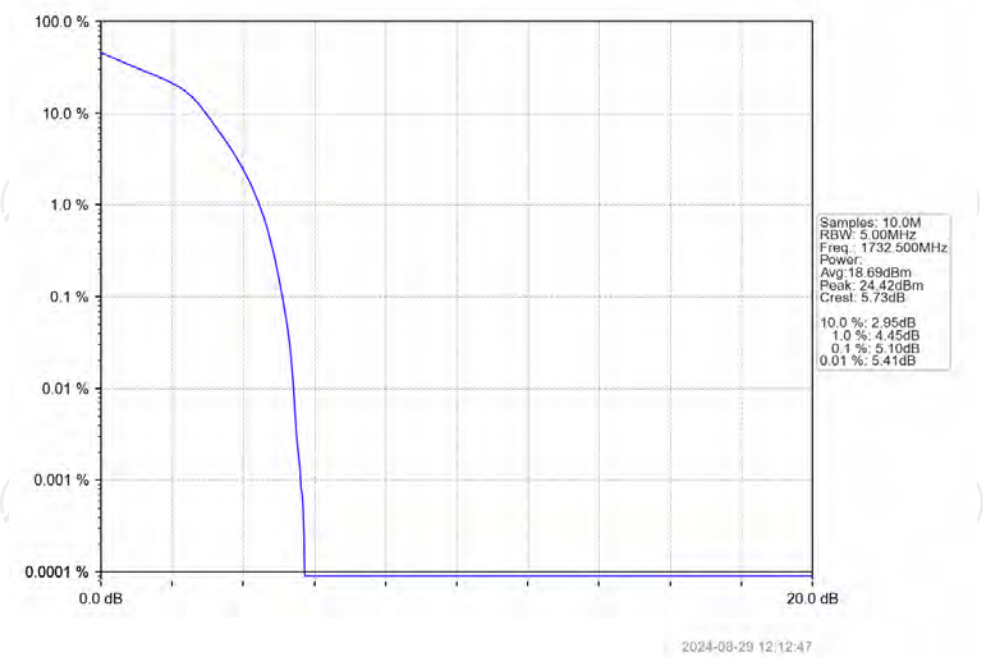
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



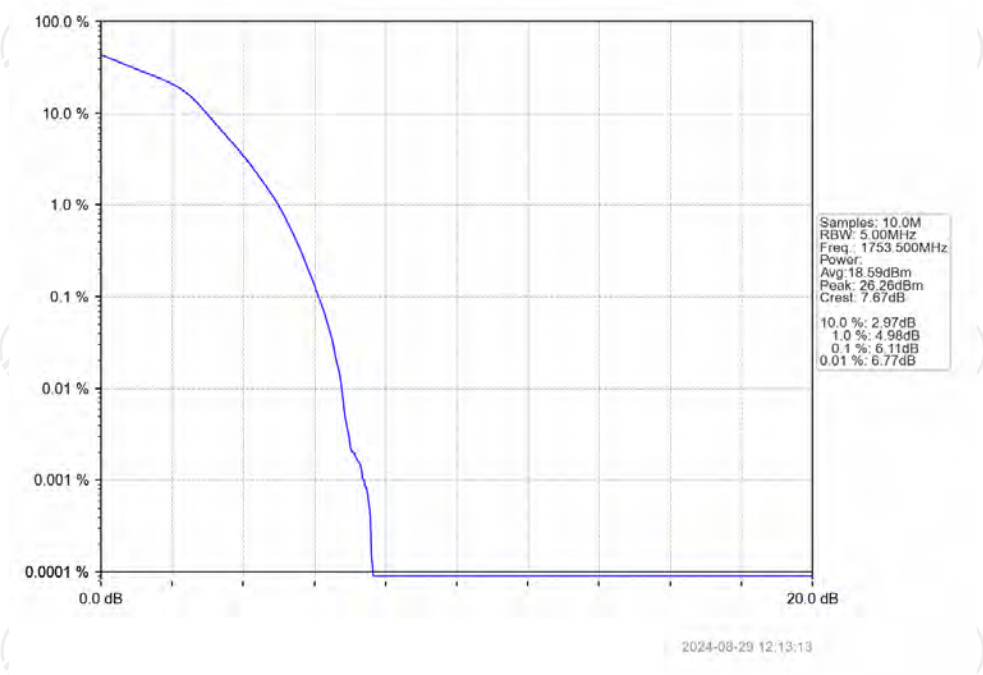

Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV

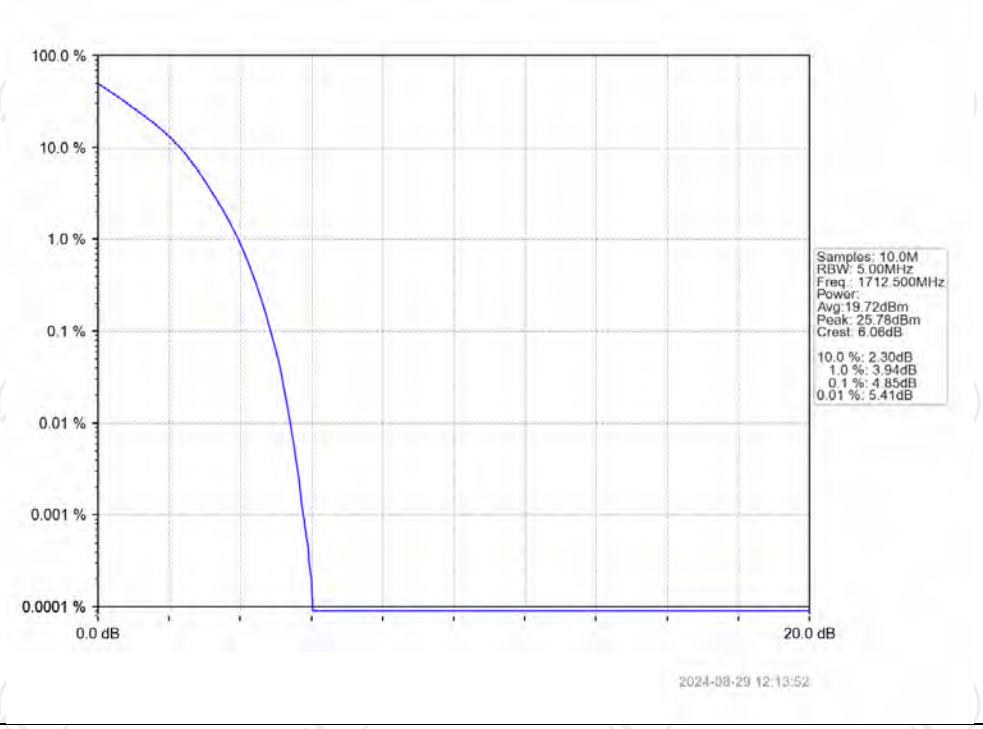



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV

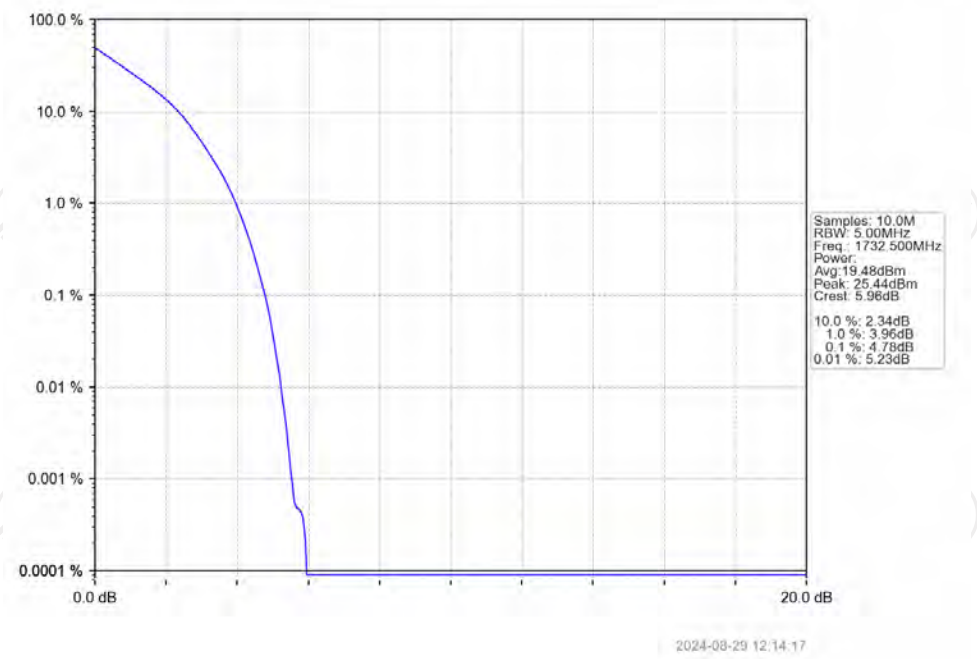


### 5.2.3 B4_5MHz

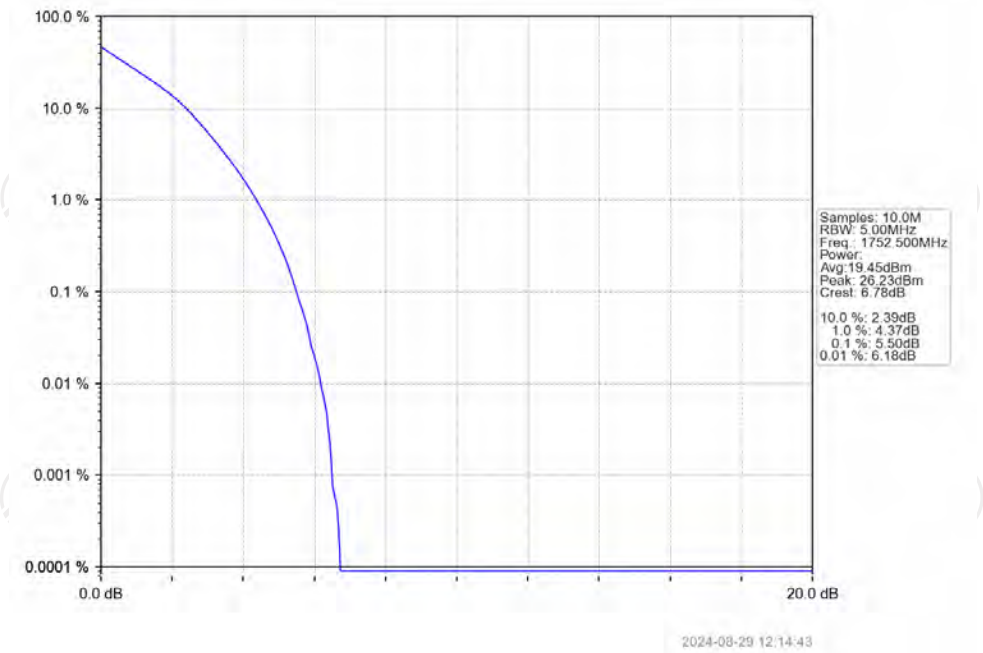
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



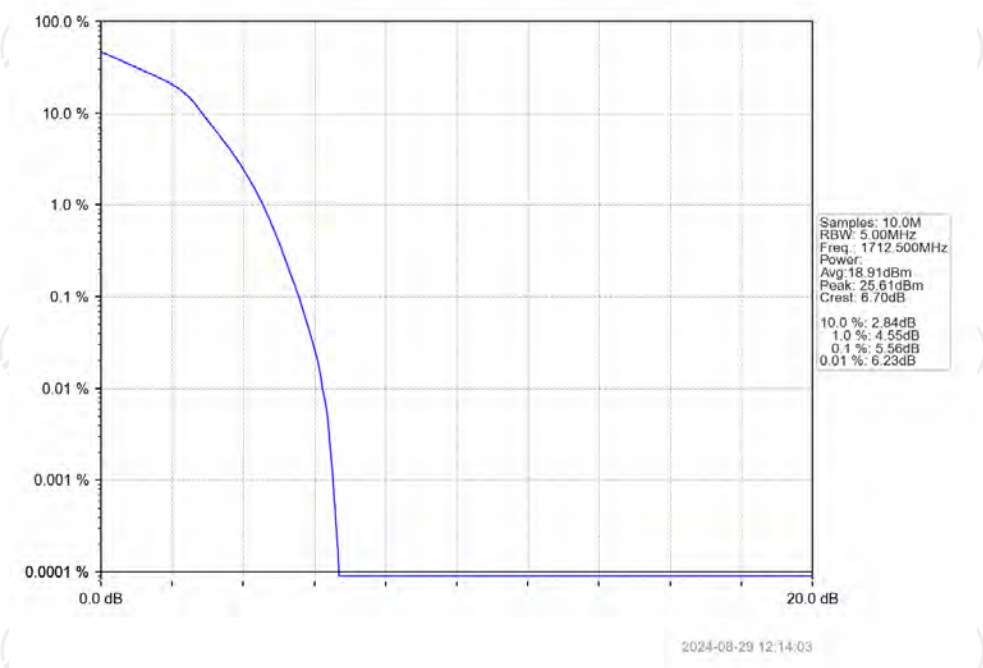

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



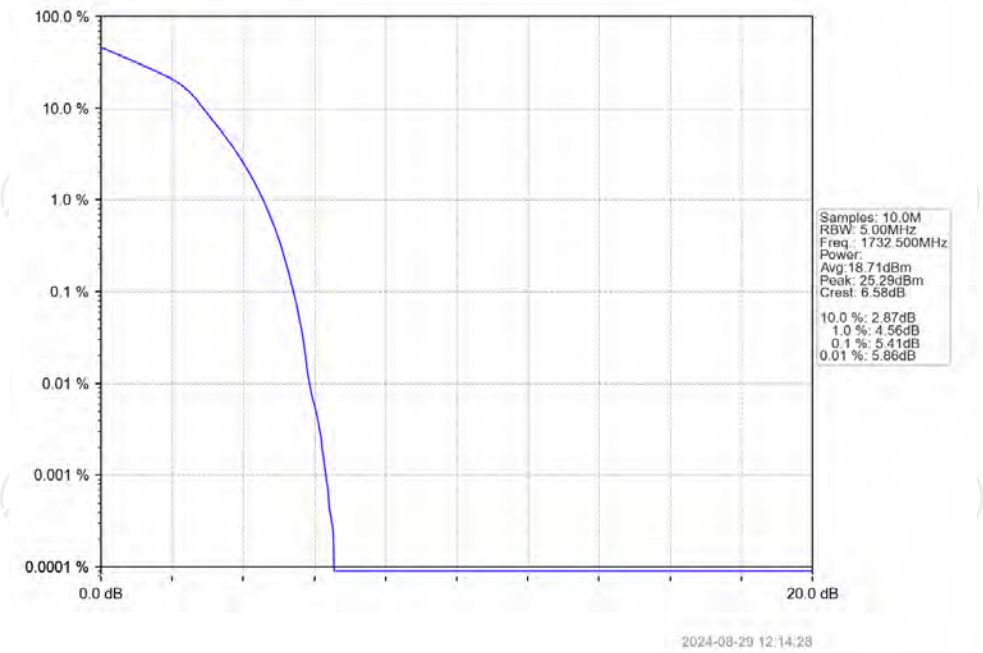
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



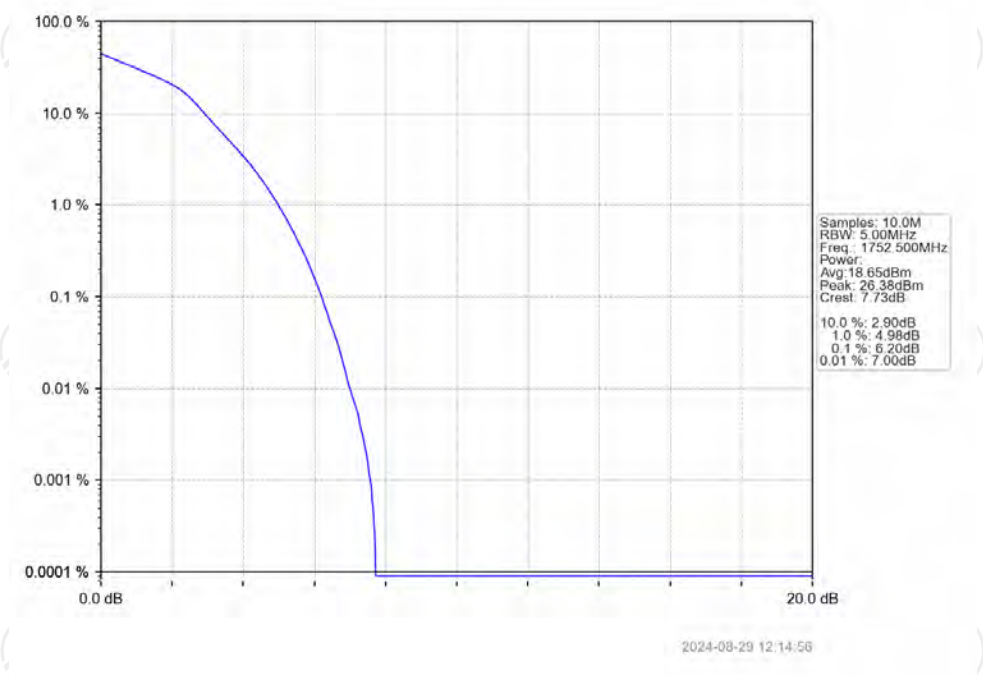

Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV

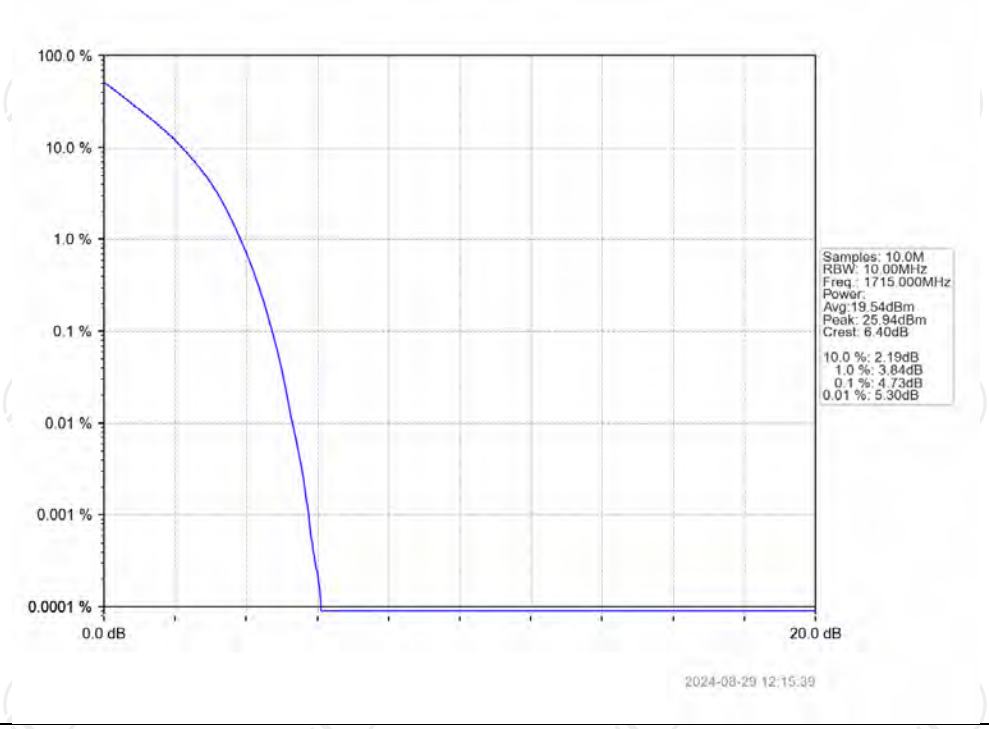



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV

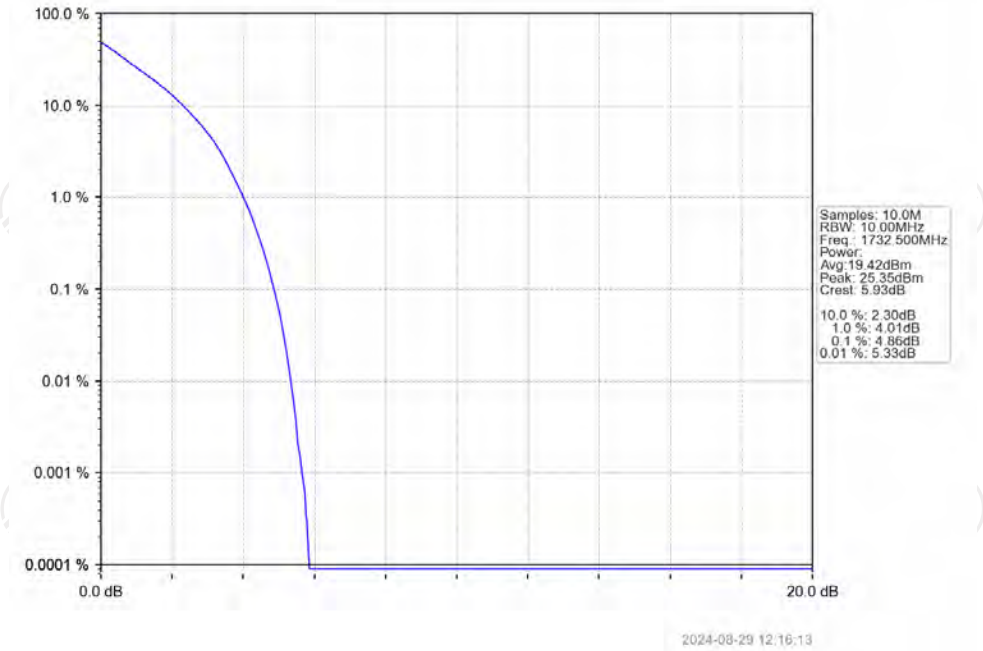


## 5.2.4 B4_10MHz

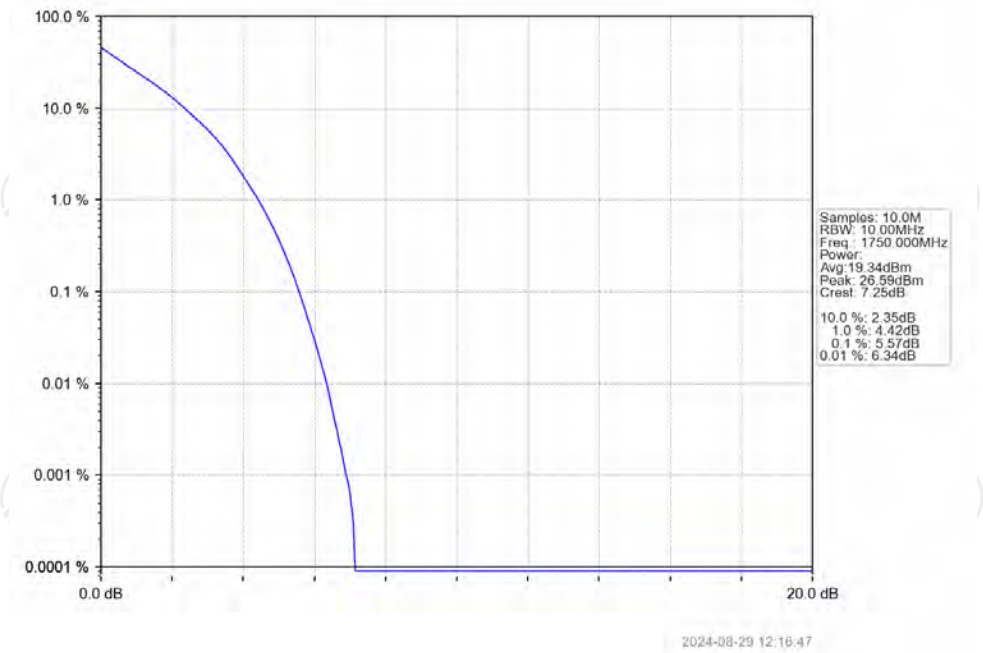
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



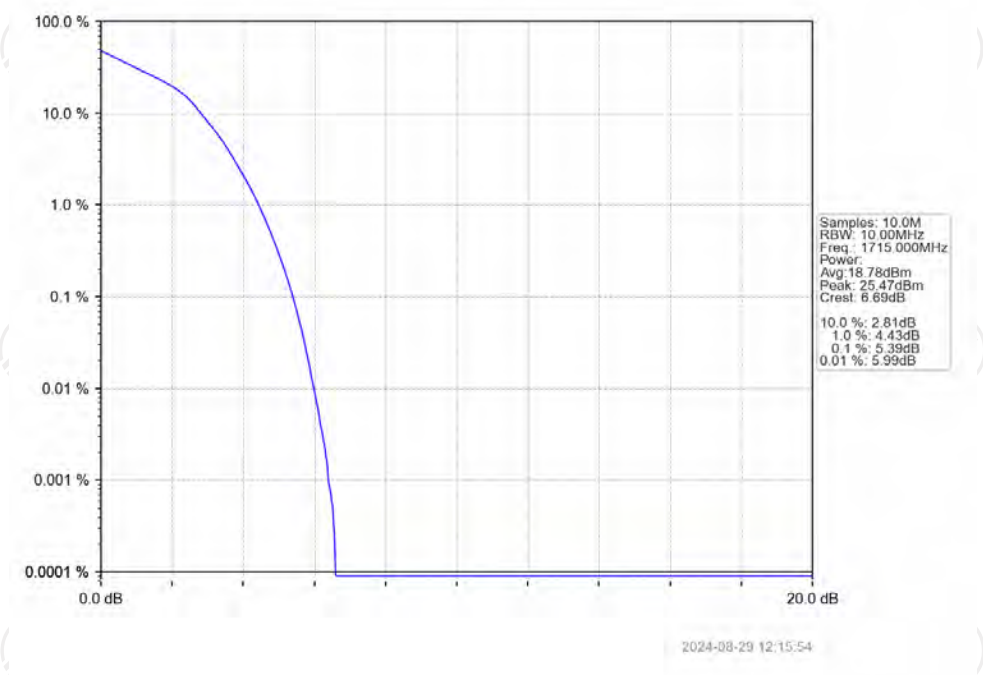

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



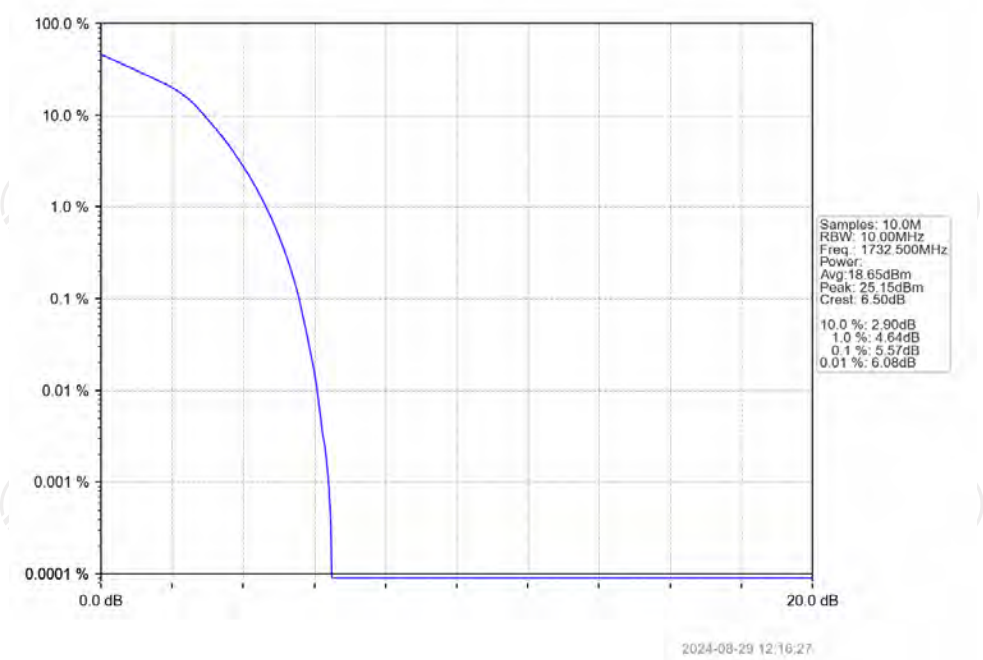
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



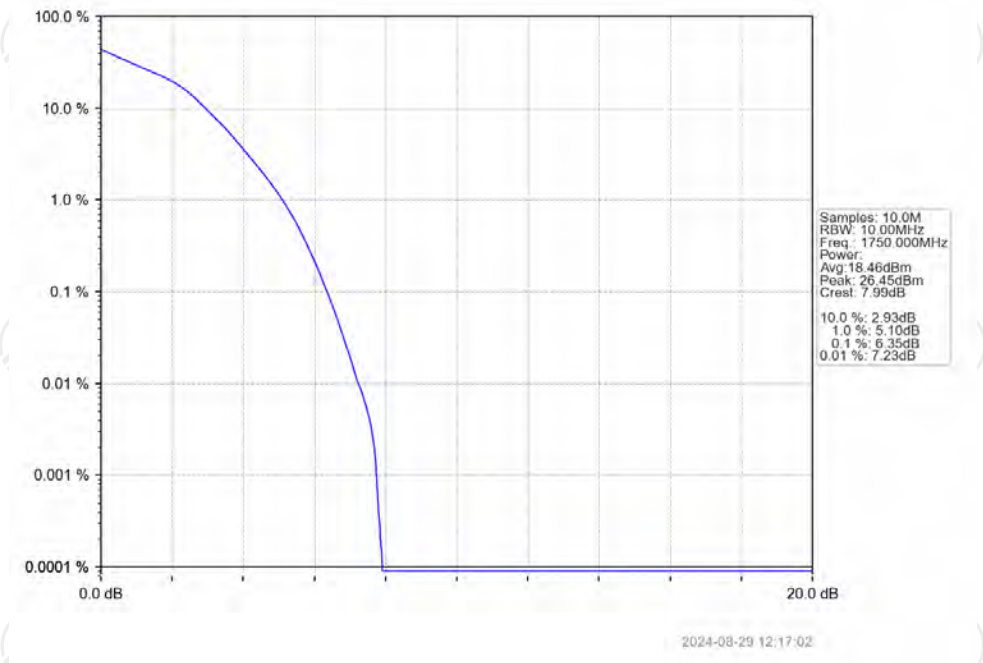

Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV

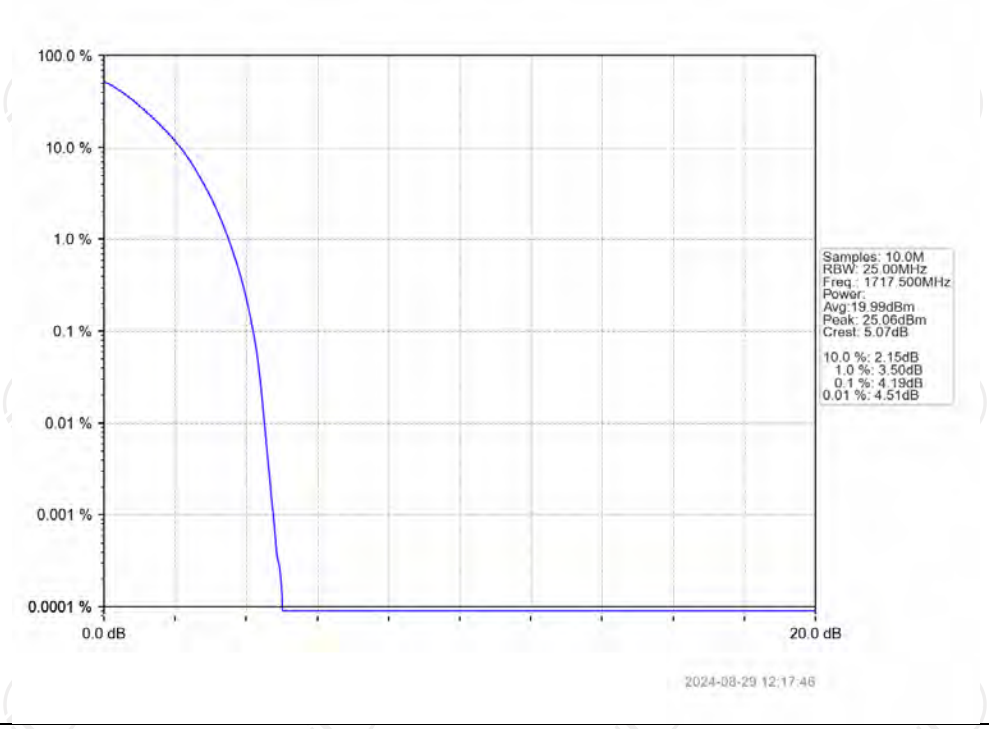



Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV

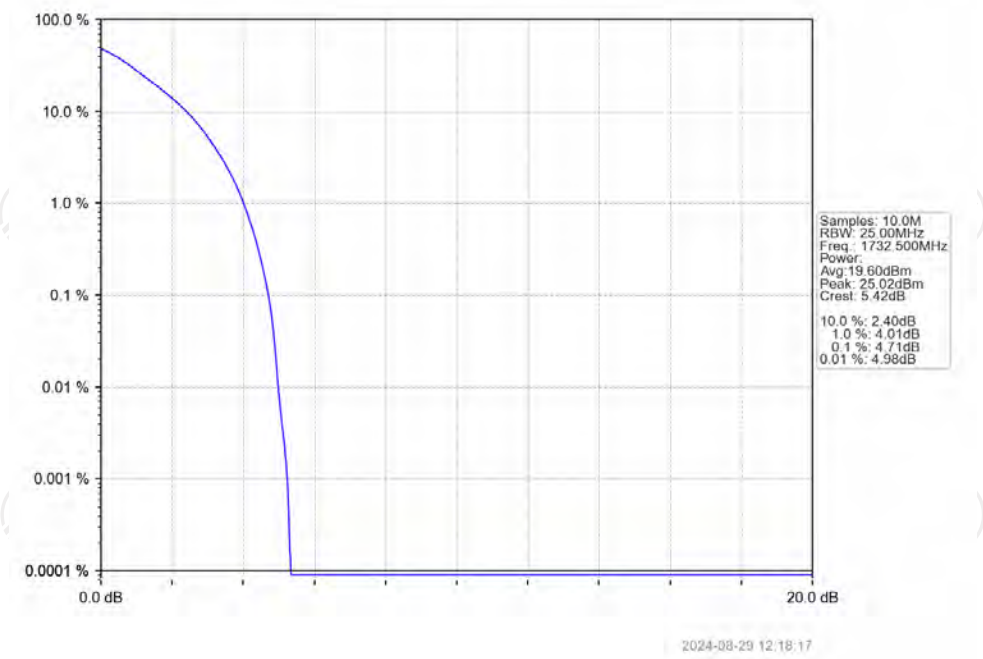


## 5.2.5 B4_15MHz

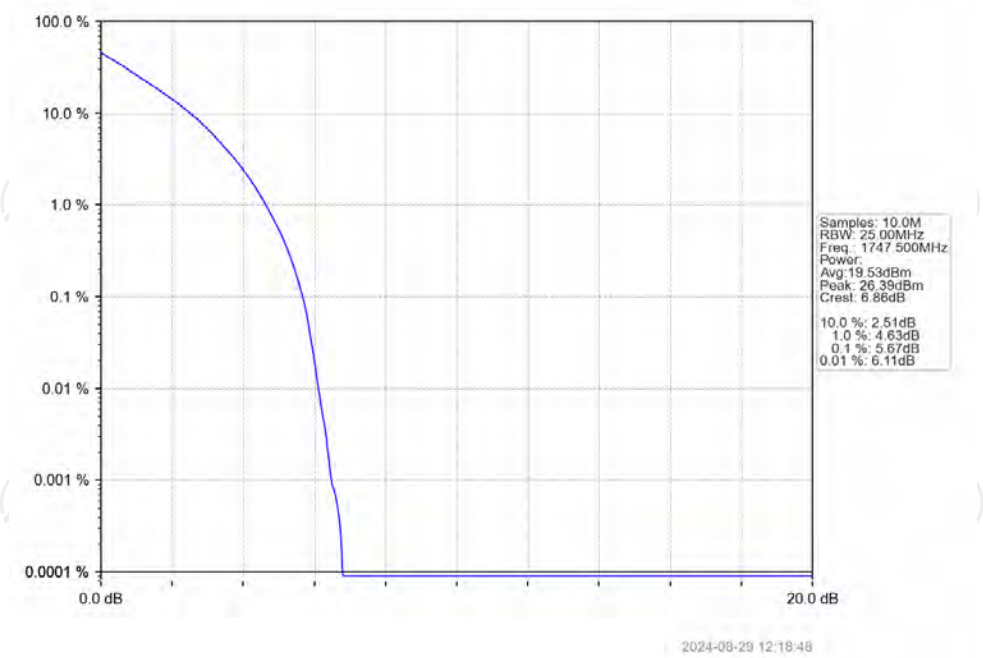
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



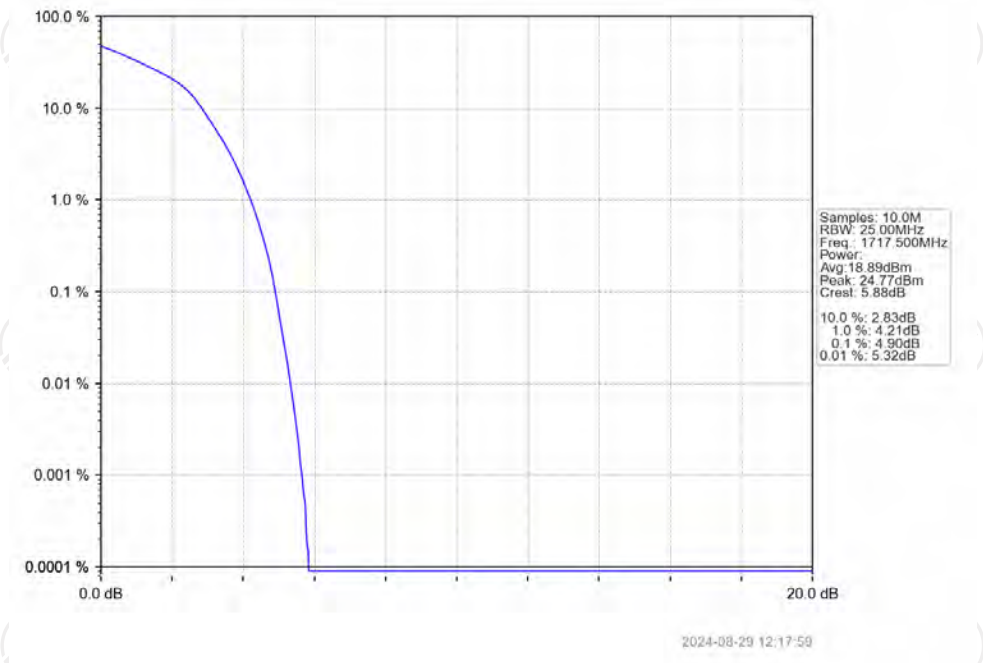

Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



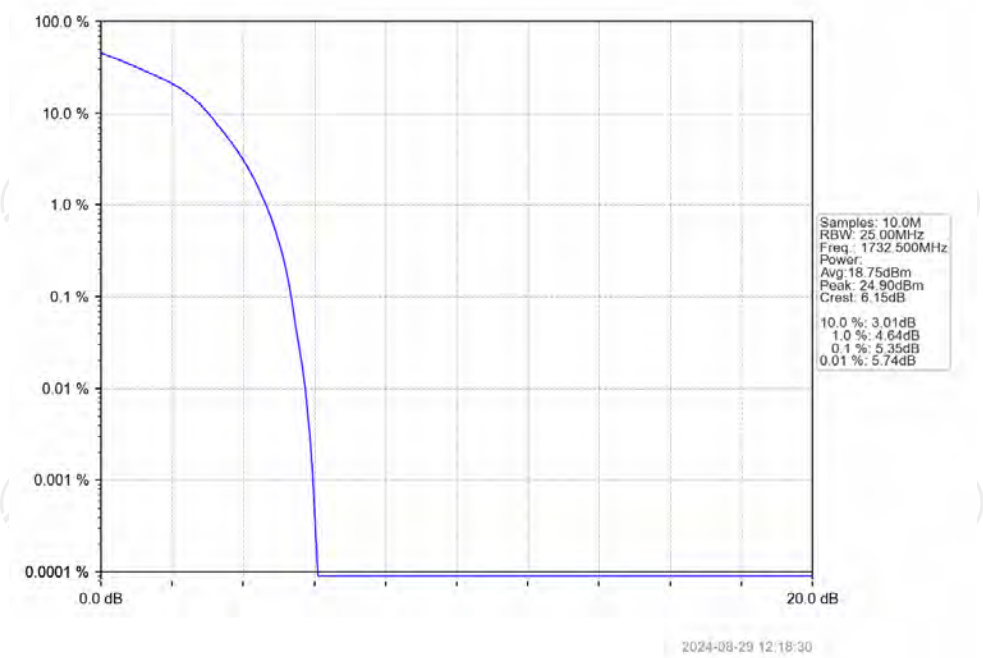
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



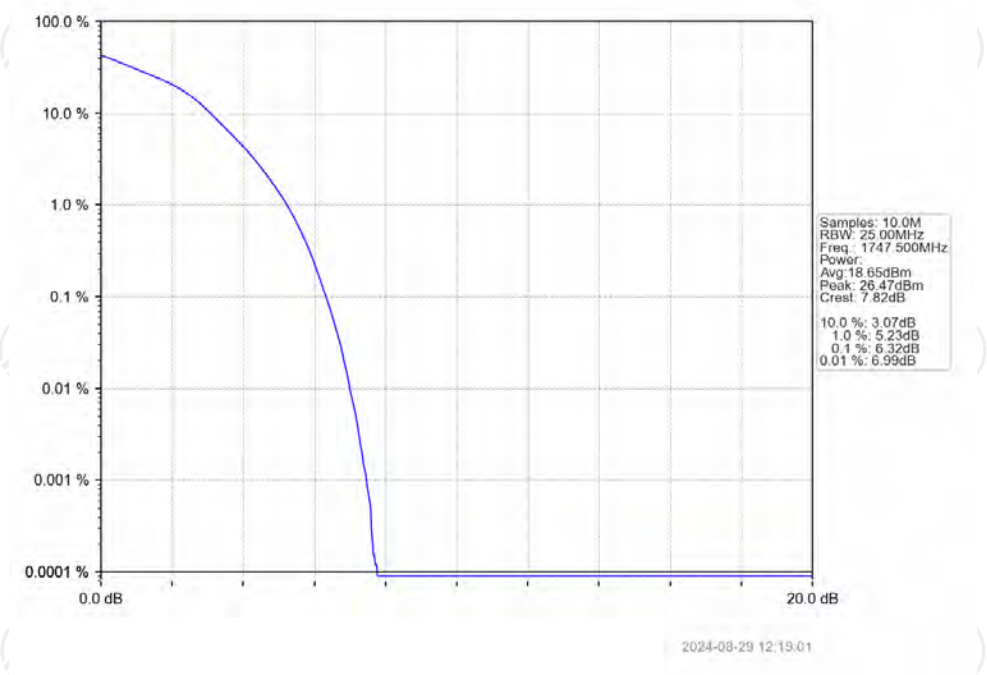

Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV




Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



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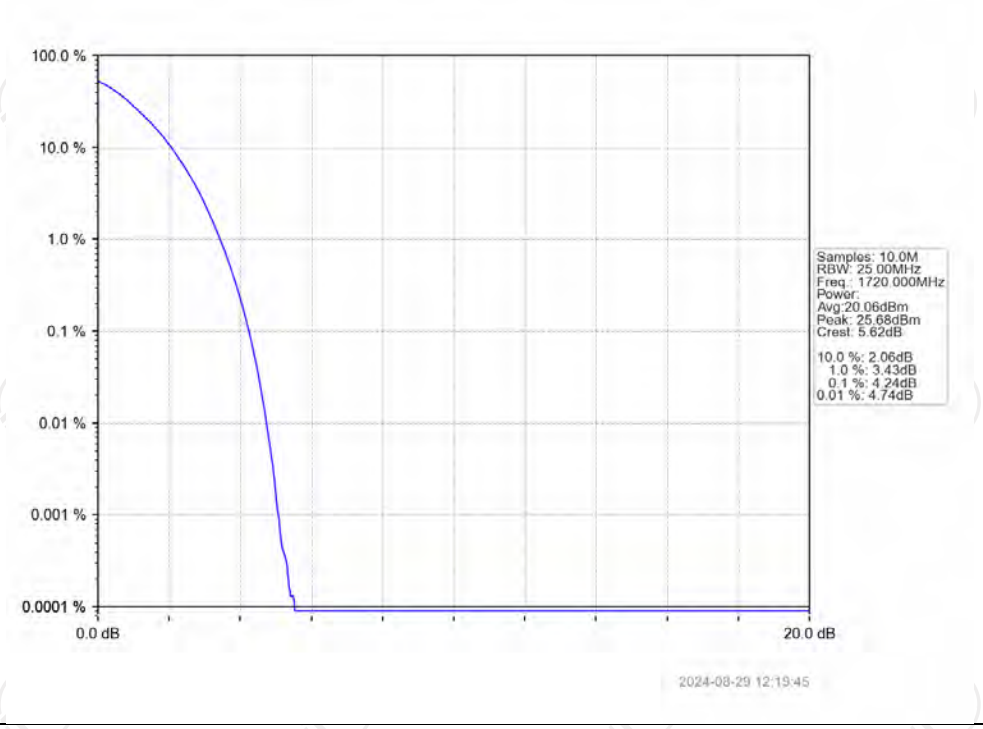
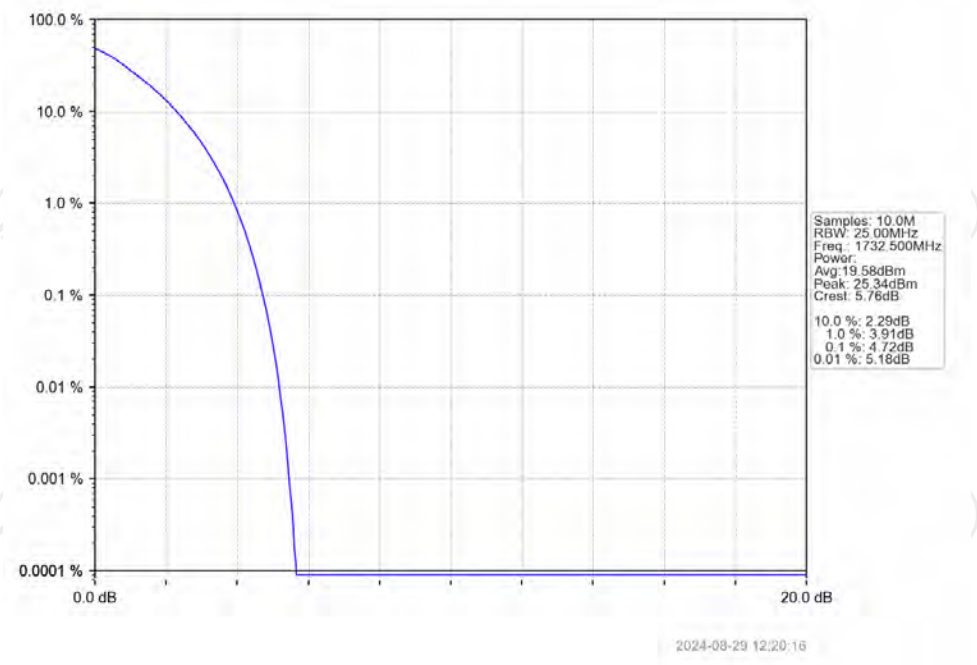
## 5.2.6 B4_20MHz

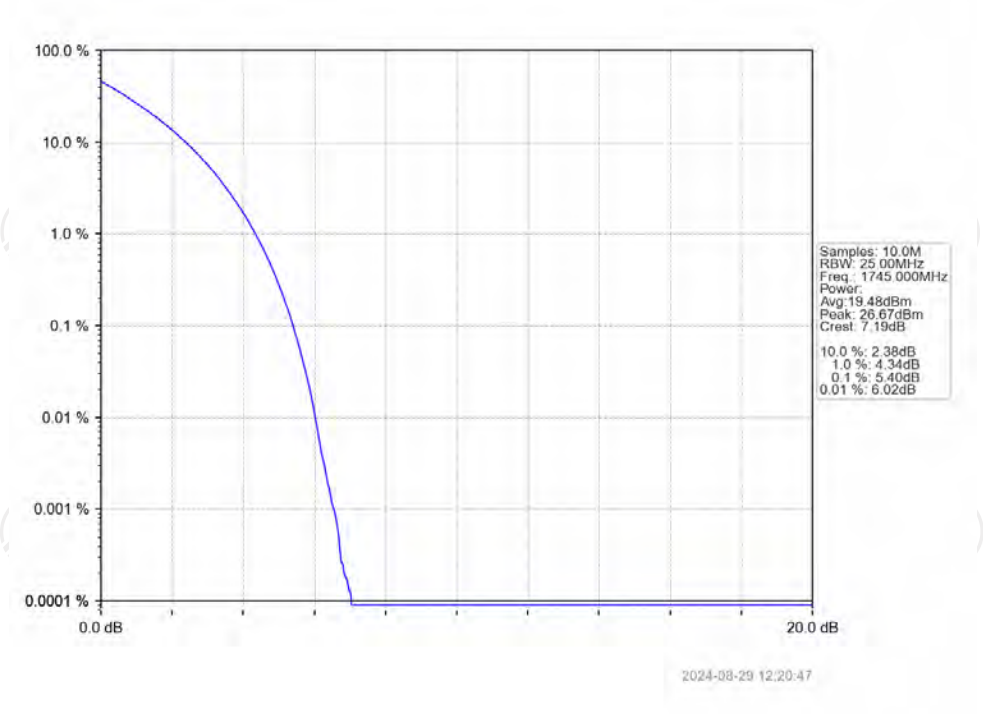
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



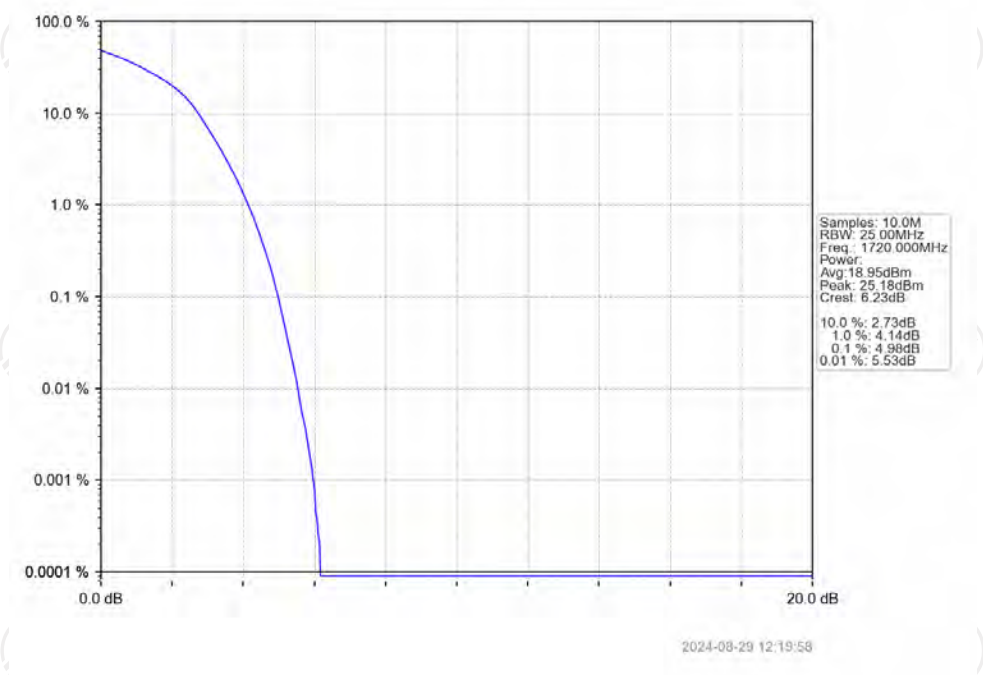

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



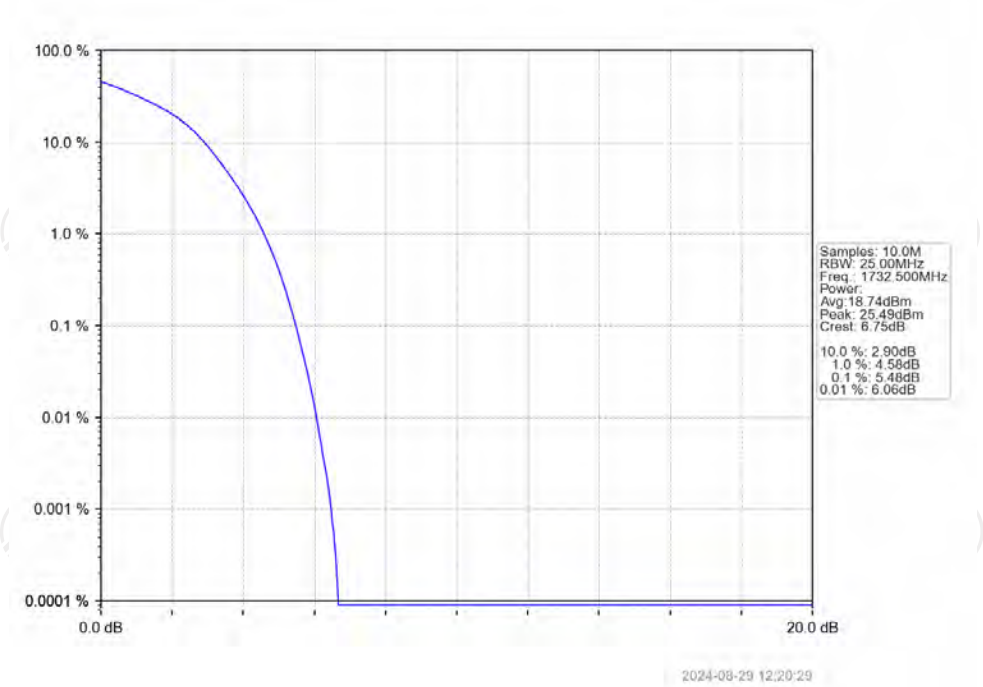
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



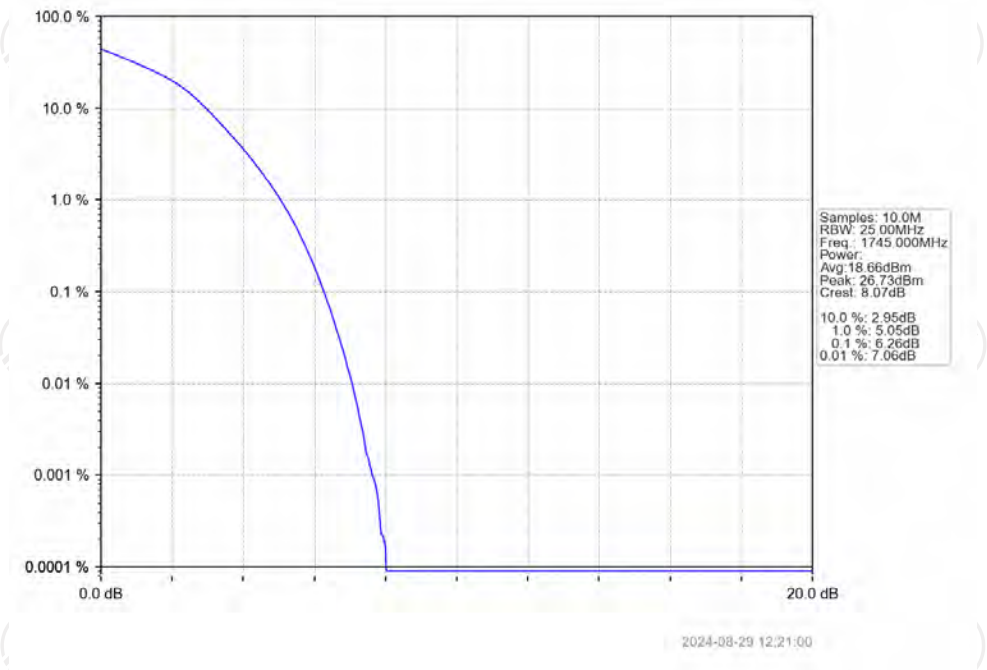

Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV




Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



# 6. Spurious Emission

## 6.1 Test Result

### 6.1.1 B4_1.4MHz

| Band: 4 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1710.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1754.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1710.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1754.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |

### 6.1.2 B4_3MHz

| Band: 4 / Bandwidth: 3MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1711.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1753.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1711.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1753.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |

### 6.1.3 B4_5MHz

| Band: 4 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1712.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1752.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1712.5 | 1 | 0 | Refer To Test Graph | | Pass |

| | | | | | |
|---|---|---|---|---|---|
| | | 25 | 0 | Refer To Test Graph | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | Pass |
| | 1752.5 | 1 | 0 | Refer To Test Graph | Pass |
| | | | 24 | Refer To Test Graph | Pass |
| | | 25 | 0 | Refer To Test Graph | Pass |

## 6.1.4 B4_10MHz

| Band: 4 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1715 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1750 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1715 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1750 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |

## 6.1.5 B4_15MHz

| Band: 4 / Bandwidth: 15MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1717.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1747.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 74 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1717.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1747.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 74 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |

## 6.1.6 B4_20MHz

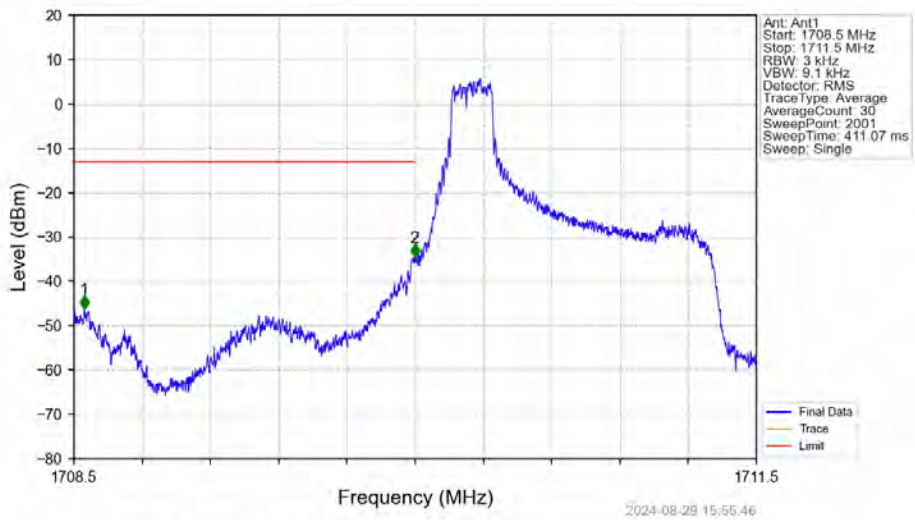
| Band: 4 / Bandwidth: 20MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1720 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1745 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 99 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1720 | 1 | 0 | Refer To Test Graph | | Pass |

| | | | | | |
|---|---|---|---|---|---|
| | | 100 | 0 | Refer To Test Graph | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | Pass |
| | 1745 | 1 | 0 | Refer To Test Graph | Pass |
| | | | 99 | Refer To Test Graph | Pass |
| | | 100 | 0 | Refer To Test Graph | Pass |

## 6.2 Test Graph

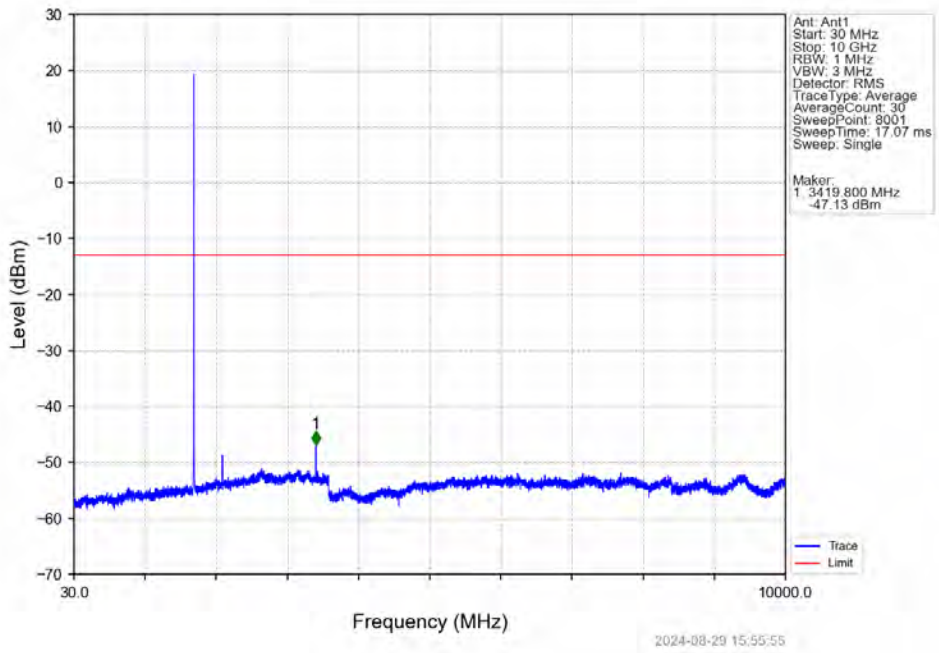
### 6.2.1 B4_1.4MHz

Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV

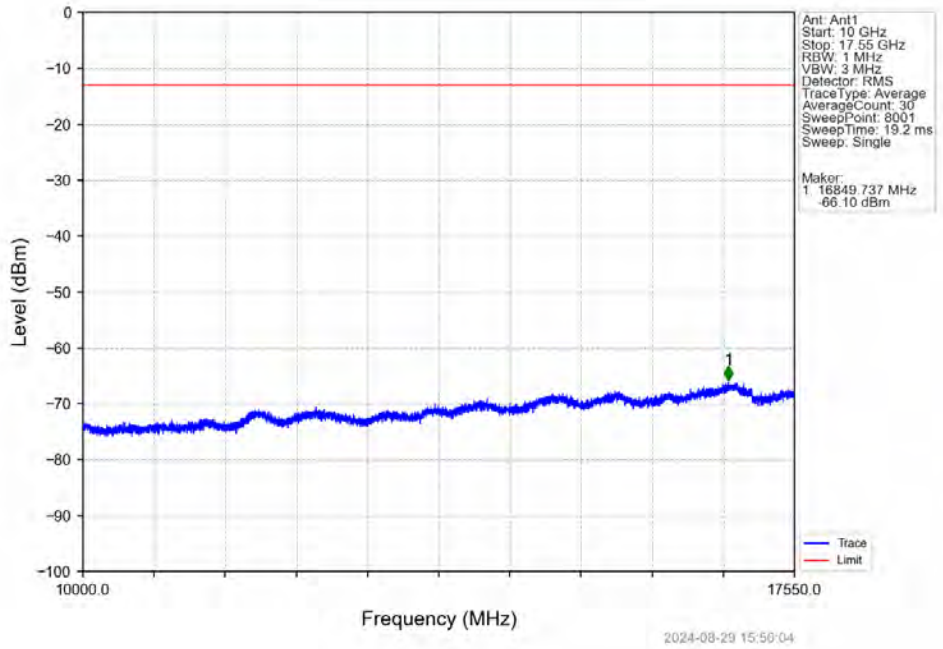



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1708.5 | 1709 | 1 | / | 1 | 1708.545 | -46.30 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.998 | -34.66 | -13 | Pass |
| 1710 | 1711.5 | 0.003 | / | / | / | / | / | / |

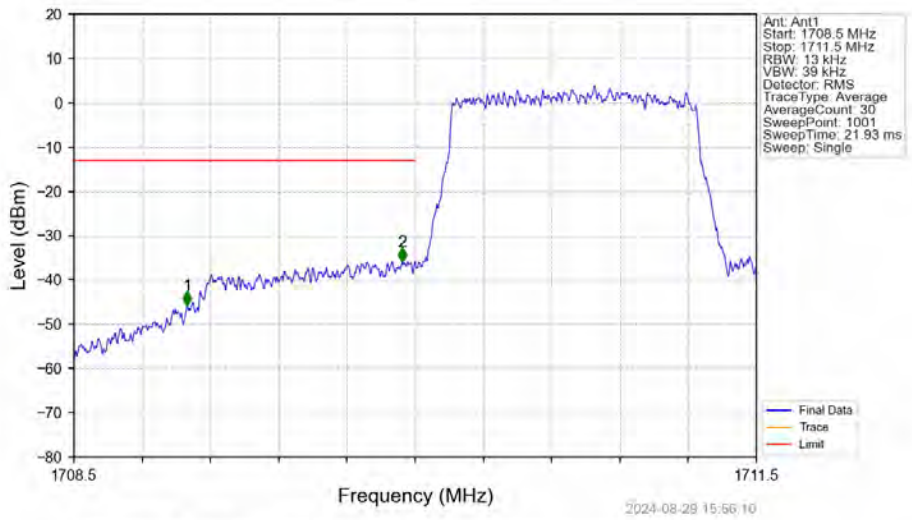
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV

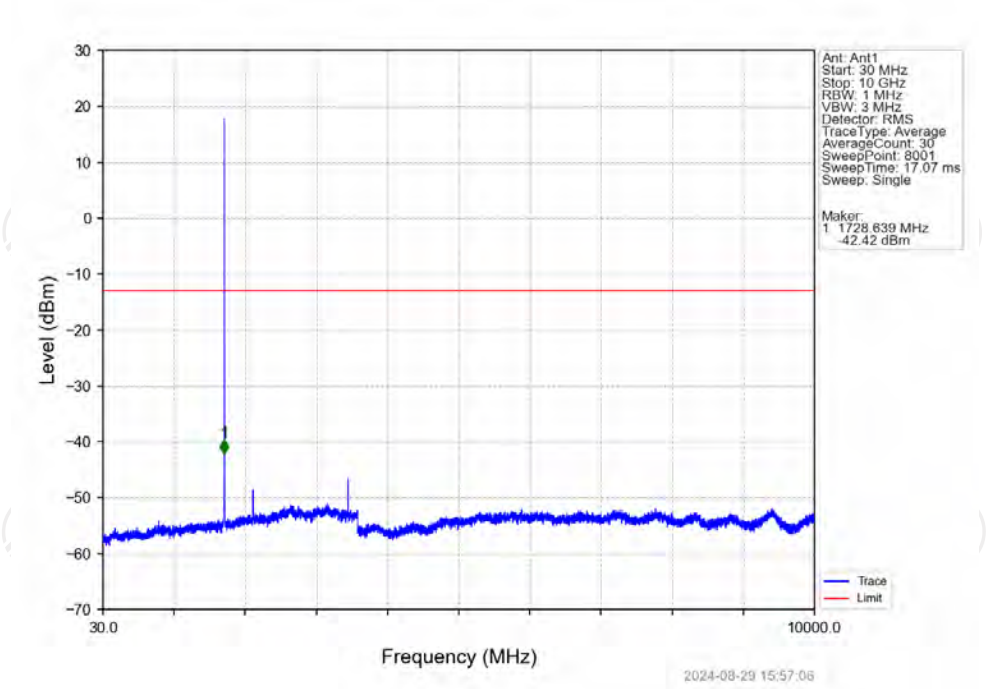



Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV

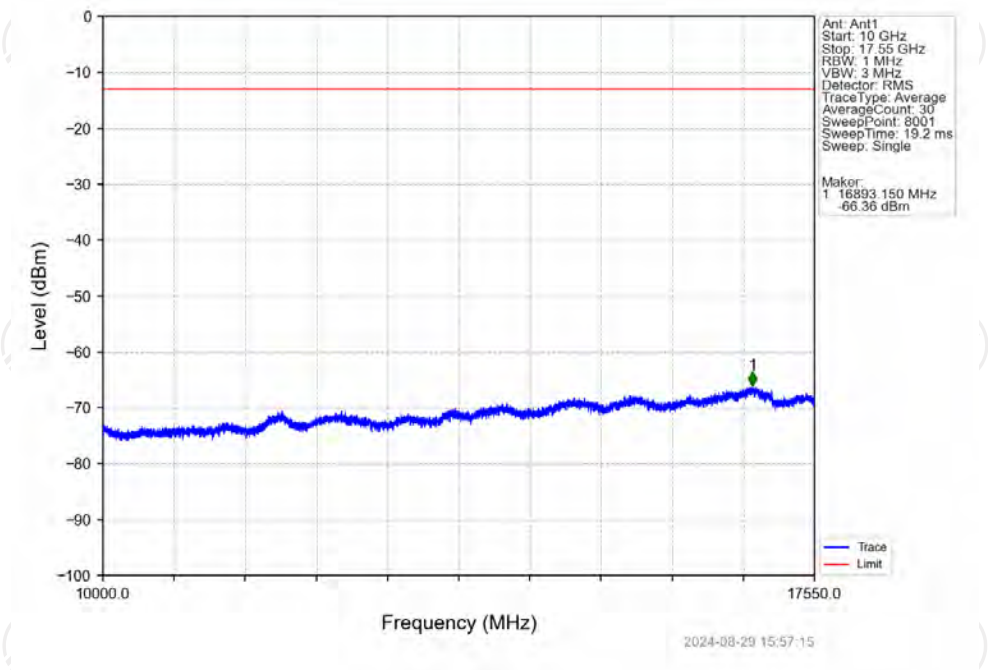



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1708.5 | 1709 | 1 | / | 1 | 1708.998 | -45.70 | -13 | Pass |
| 1709 | 1710 | 0.013 | / | 2 | 1709.943 | -35.79 | -13 | Pass |
| 1710 | 1711.5 | 0.013 | / | / | / | / | / | / |

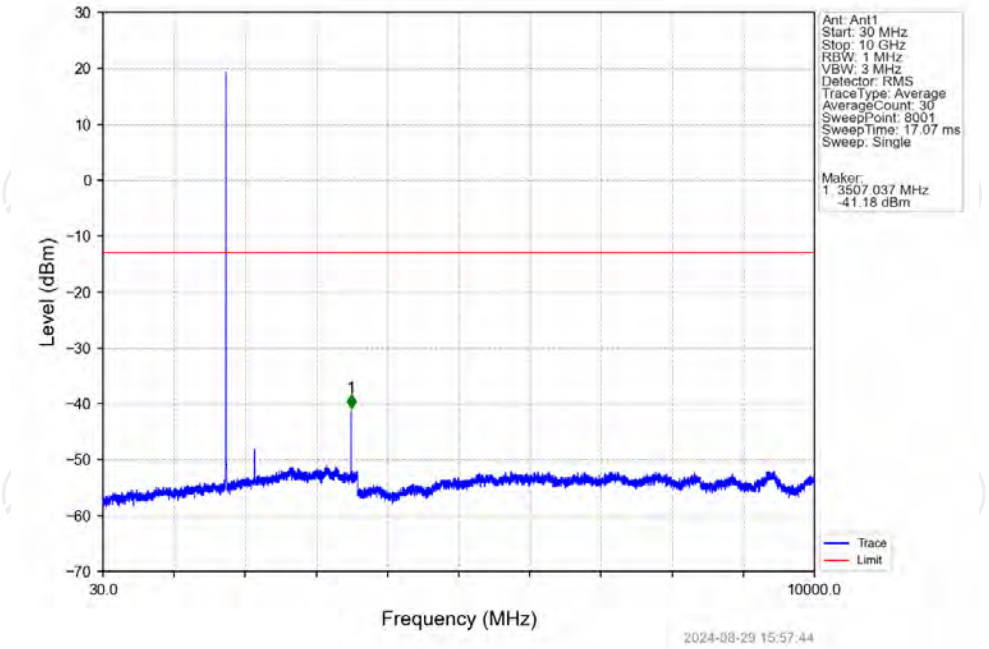
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



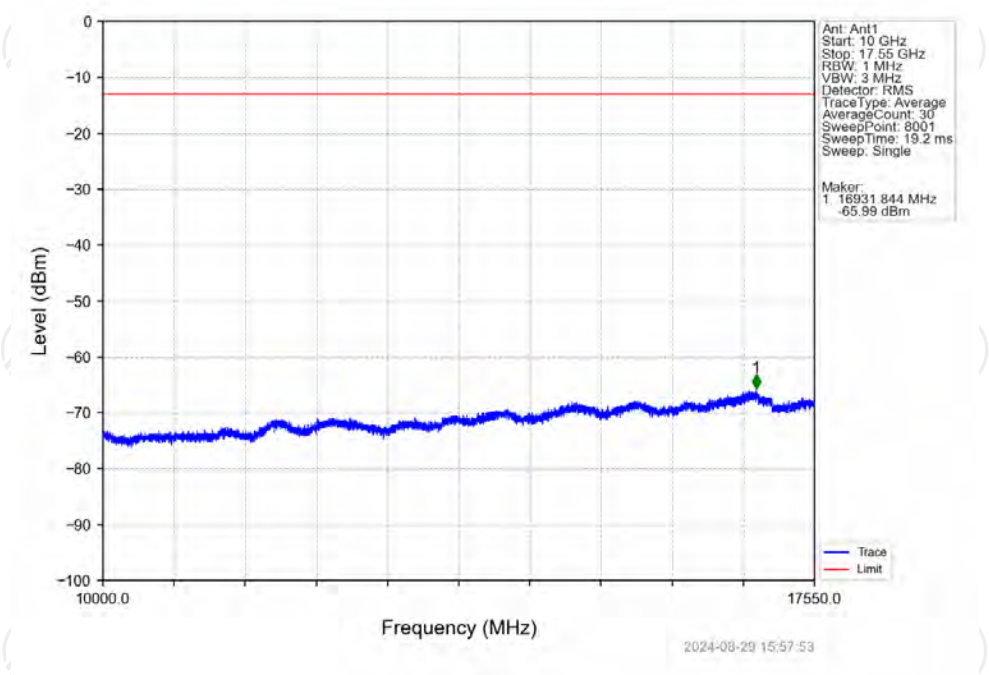

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



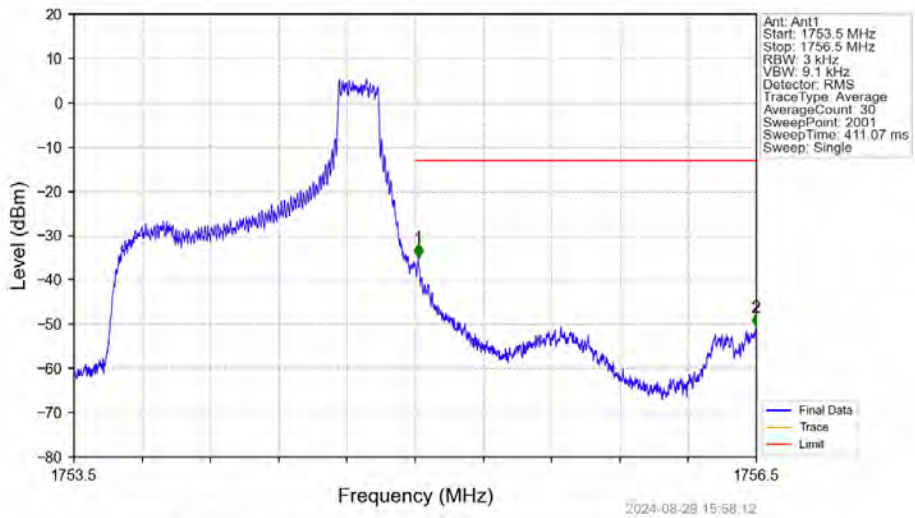
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV




Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV

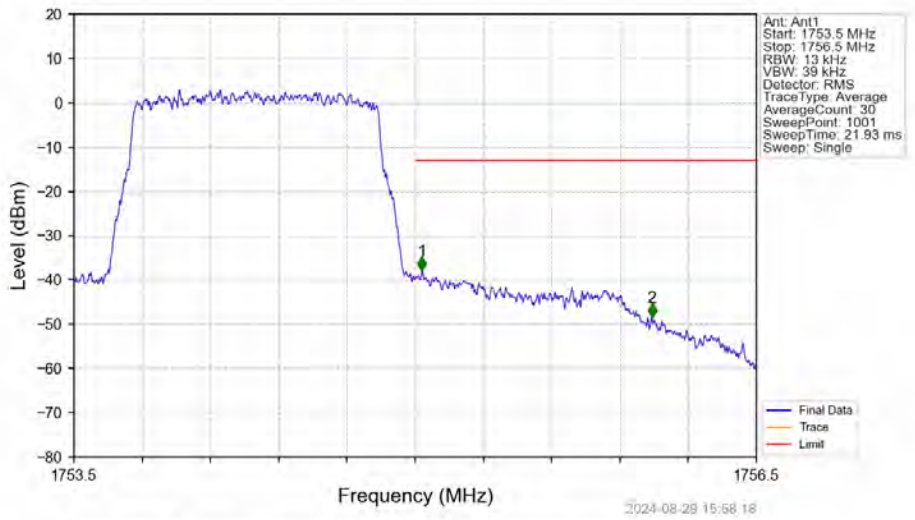


Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_5_NTNV



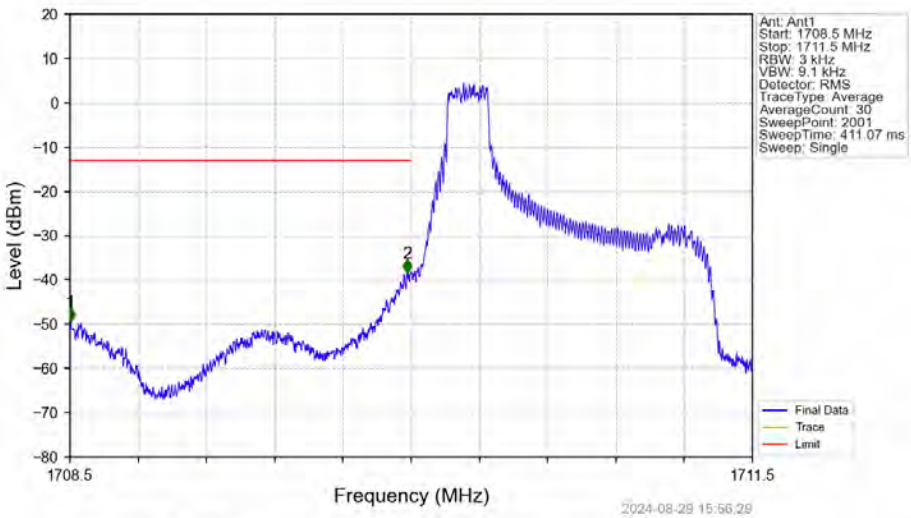

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1753.5 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.014 | -34.99 | -13 | Pass |
| 1756 | 1756.5 | 1 | / | 2 | 1756.498 | -50.68 | -13 | Pass |

Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



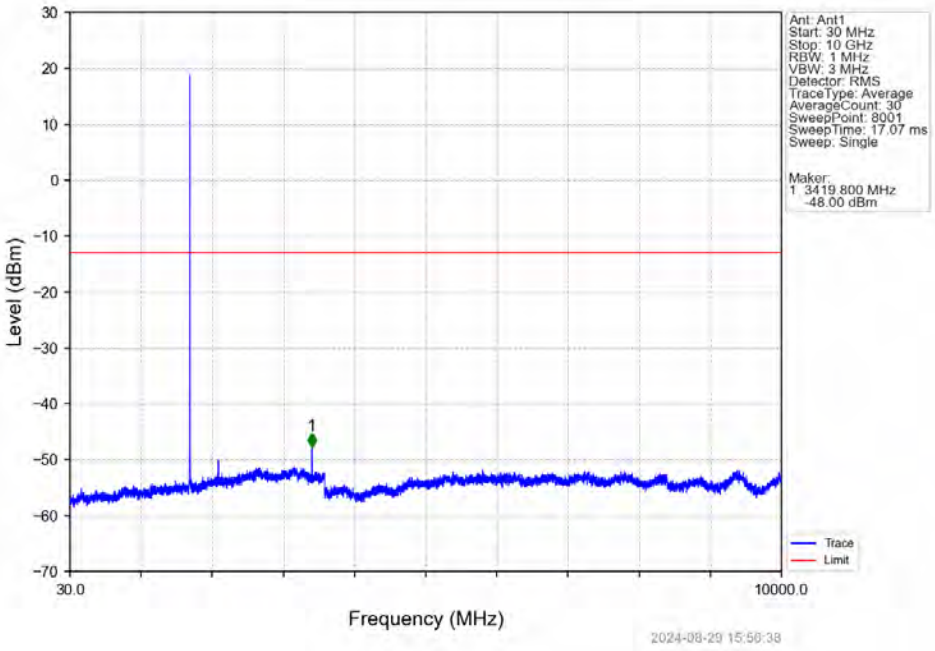

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1753.5 | 1755 | 0.013 | / | / | / | / | / | / |
| 1755 | 1756 | 0.013 | / | 1 | 1755.030 | -37.95 | -13 | Pass |
| 1756 | 1756.5 | 1 | / | 2 | 1756.041 | -48.48 | -13 | Pass |

Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV

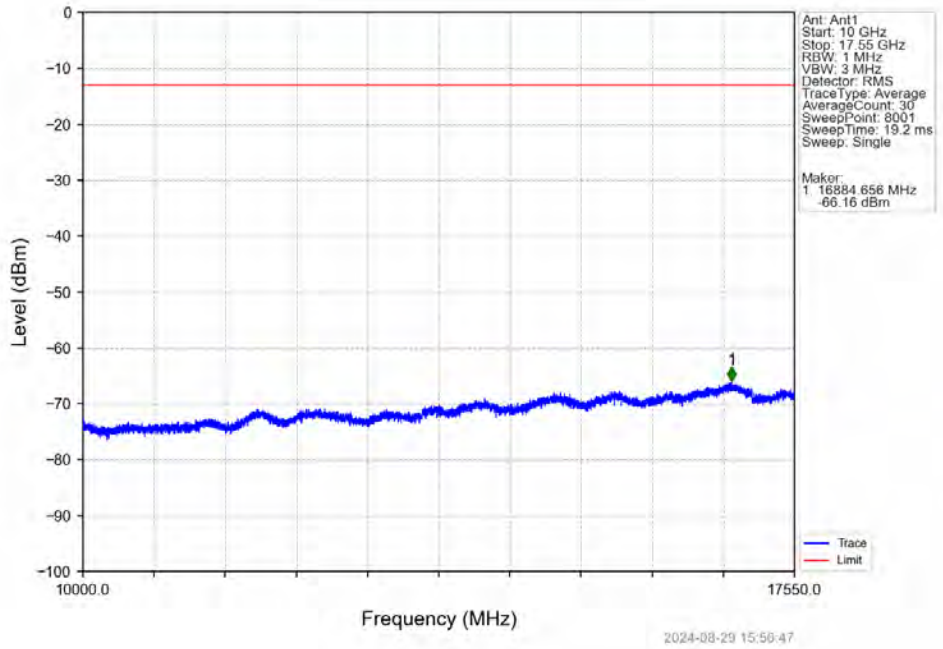



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1708.5 | 1709 | 1 | / | 1 | 1708.503 | -49.33 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.982 | -38.35 | -13 | Pass |
| 1710 | 1711.5 | 0.003 | / | / | / | / | / | / |

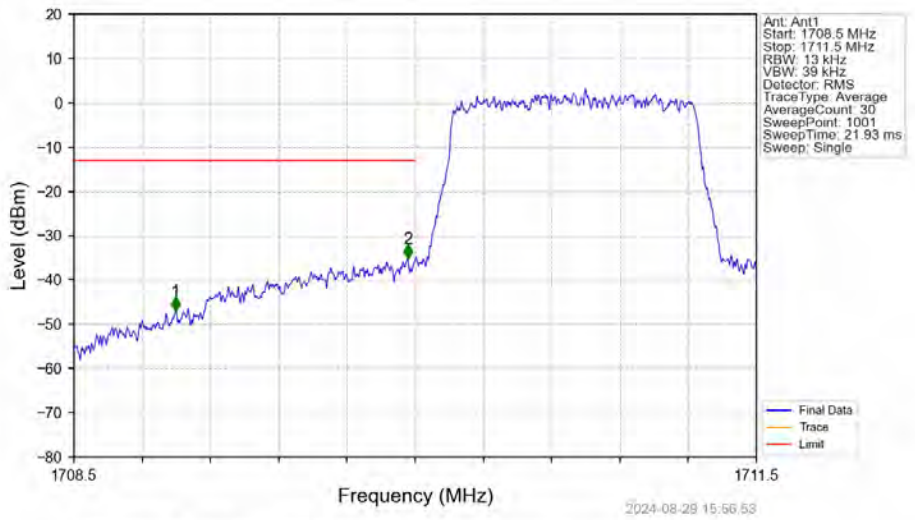
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV

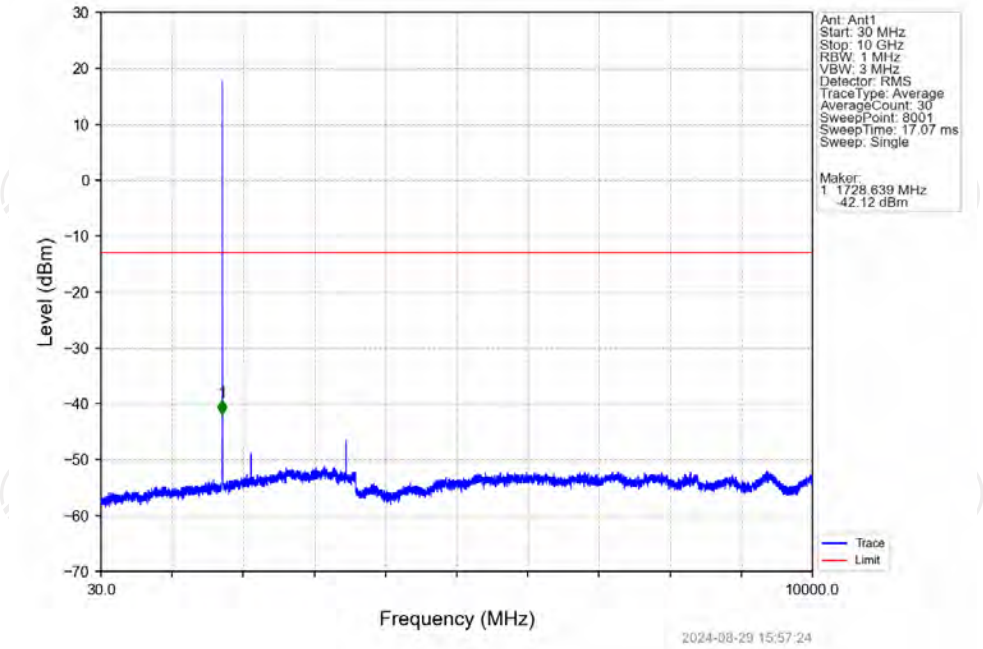



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV

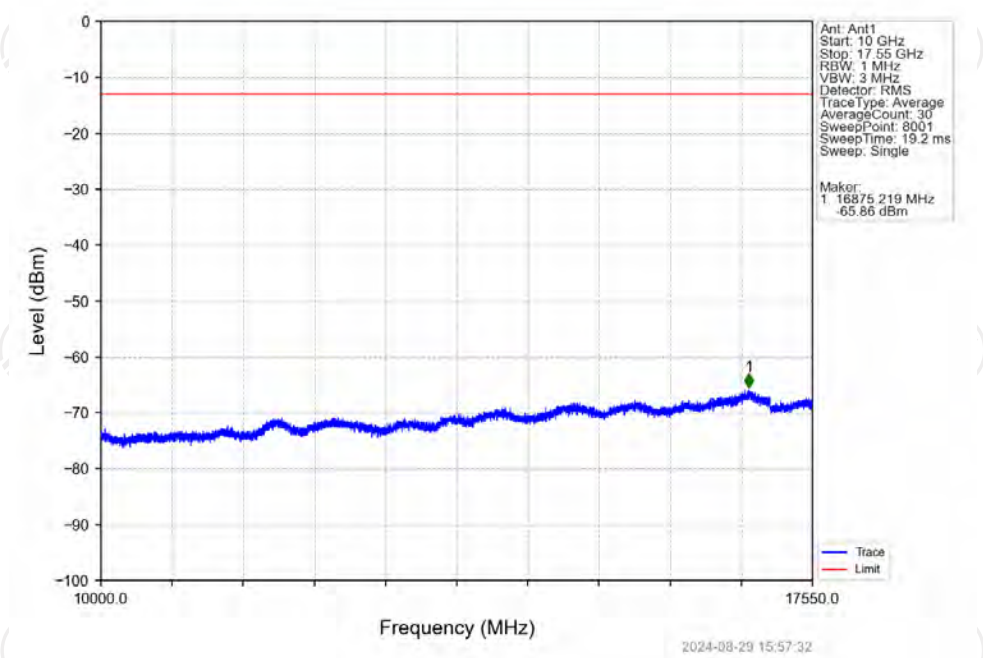



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1708.5 | 1709 | 1 | / | 1 | 1708.947 | -46.90 | -13 | Pass |
| 1709 | 1710 | 0.013 | / | 2 | 1709.967 | -35.10 | -13 | Pass |
| 1710 | 1711.5 | 0.013 | / | / | / | / | / | / |

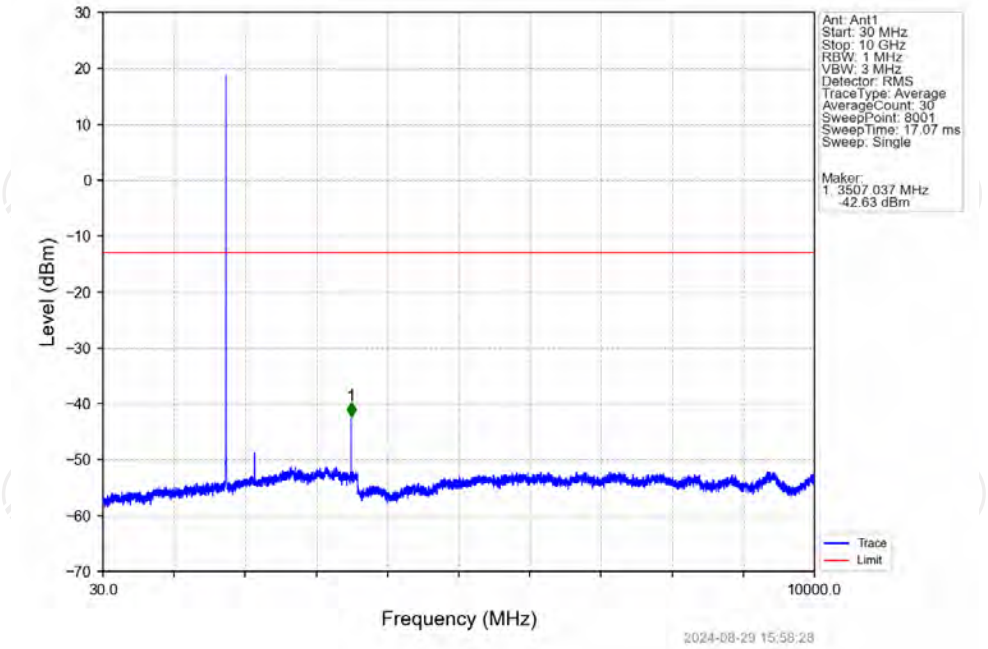
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



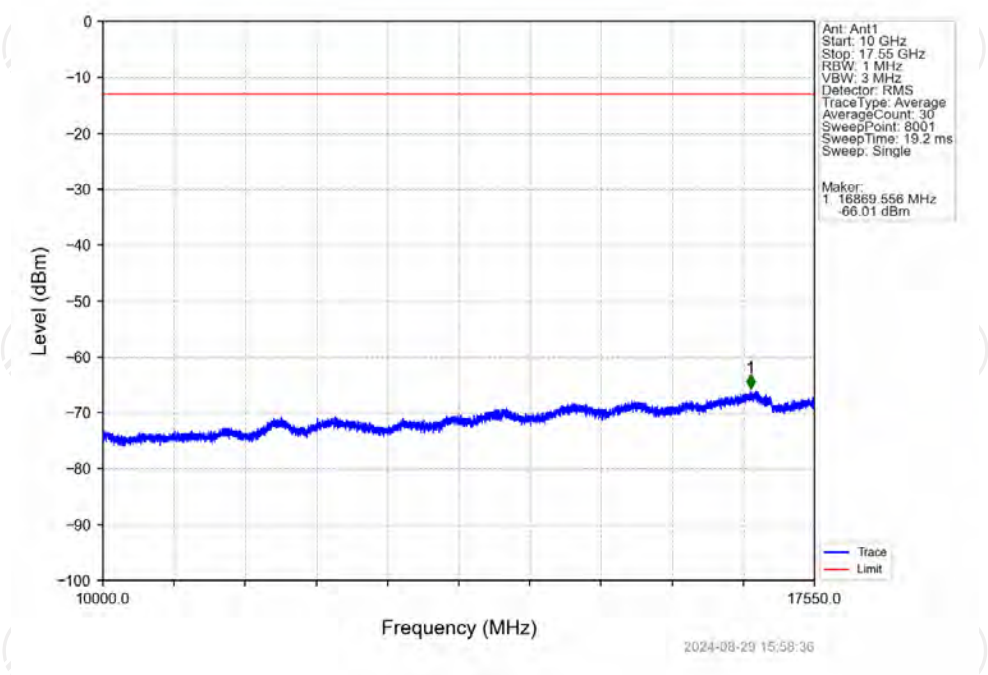

Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



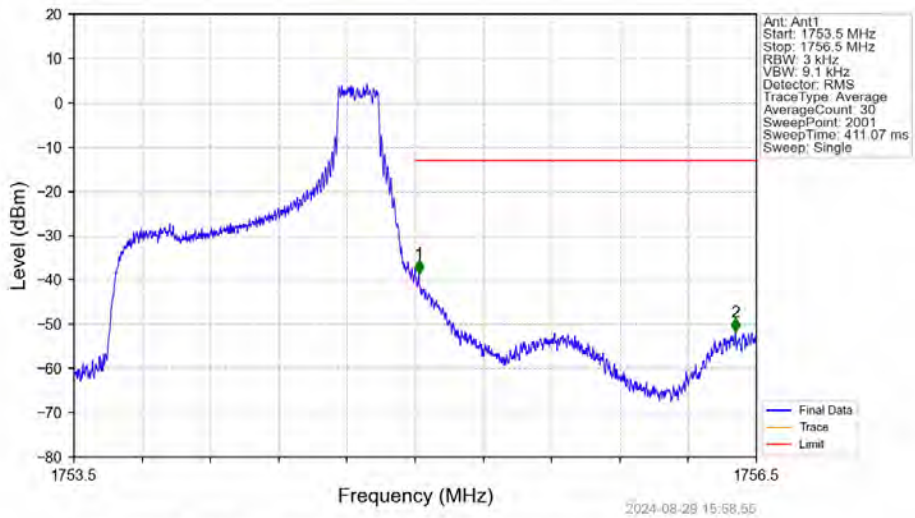
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV




Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV

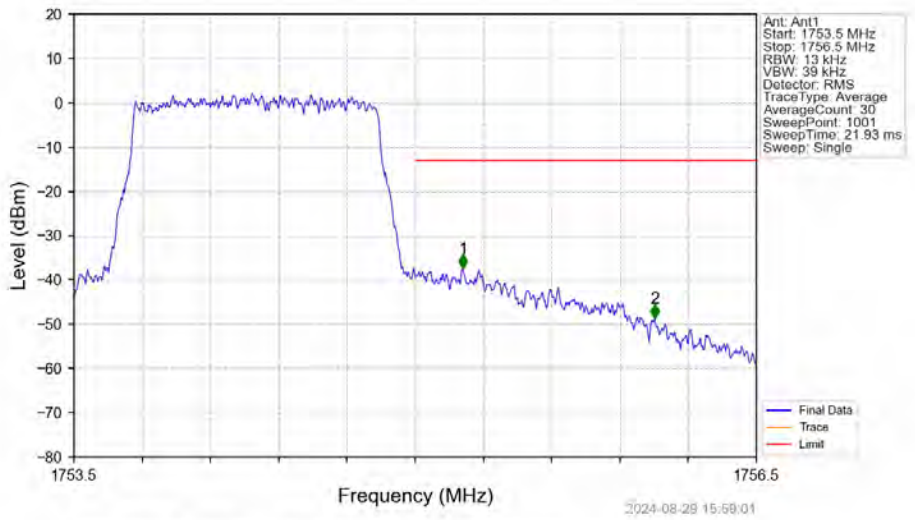


Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_5_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1753.5 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.016 | -38.60 | -13 | Pass |
| 1756 | 1756.5 | 1 | / | 2 | 1756.407 | -51.68 | -13 | Pass |

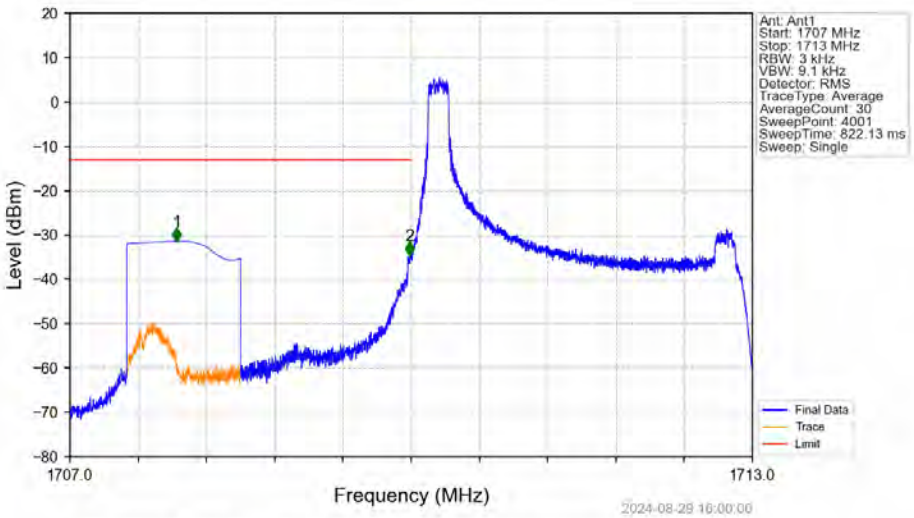
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1753.5 | 1755 | 0.013 | / | / | / | / | / | / |
| 1755 | 1756 | 0.013 | / | 1 | 1755.210 | -37.27 | -13 | Pass |
| 1756 | 1756.5 | 1 | / | 2 | 1756.053 | -48.69 | -13 | Pass |

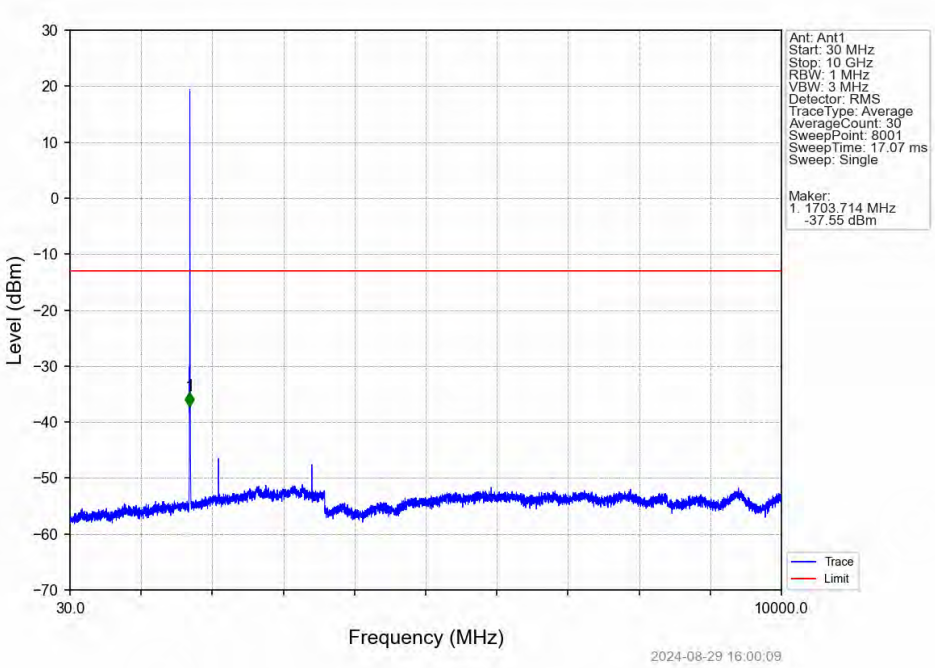
## 6.2.2 B4_3MHz

Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV

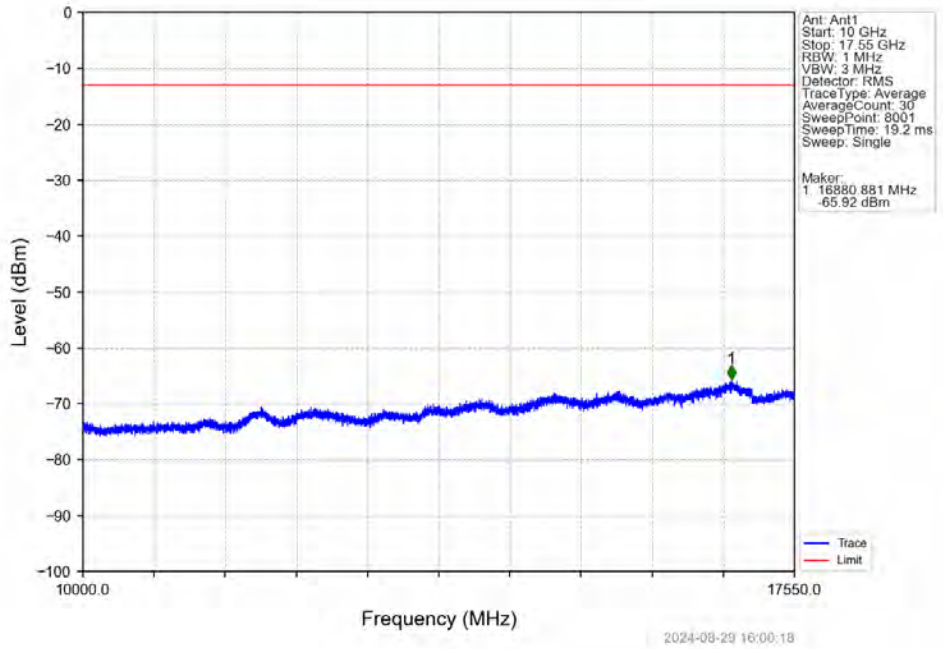



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1707 | 1709 | 1 | CHP | 1 | 1707.939 | -31.47 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.988 | -34.59 | -13 | Pass |
| 1710 | 1713 | 0.003 | / | / | / | / | / | / |

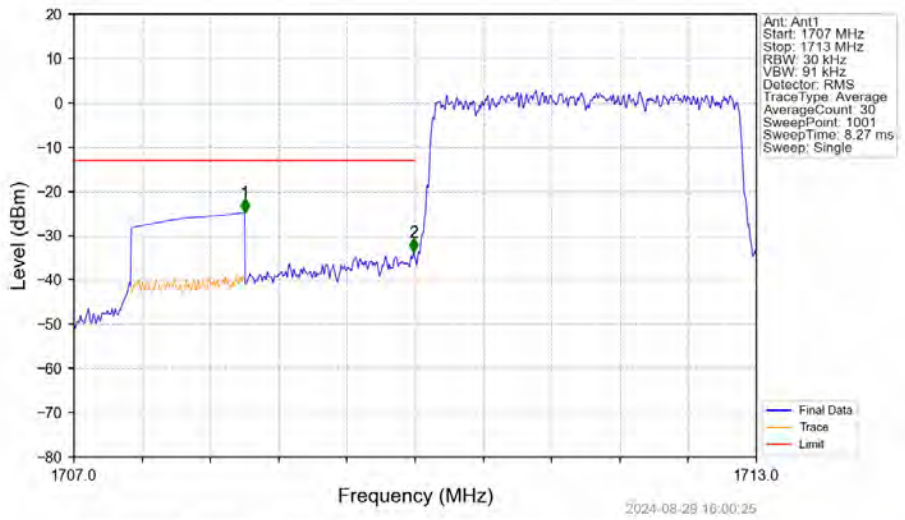
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV



Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV

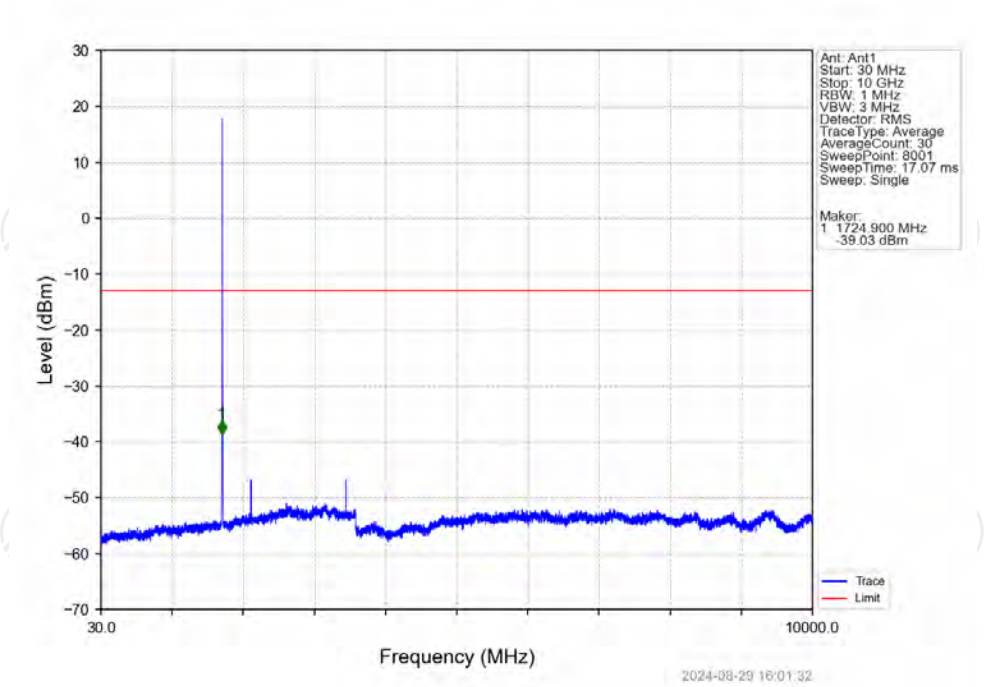



Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV

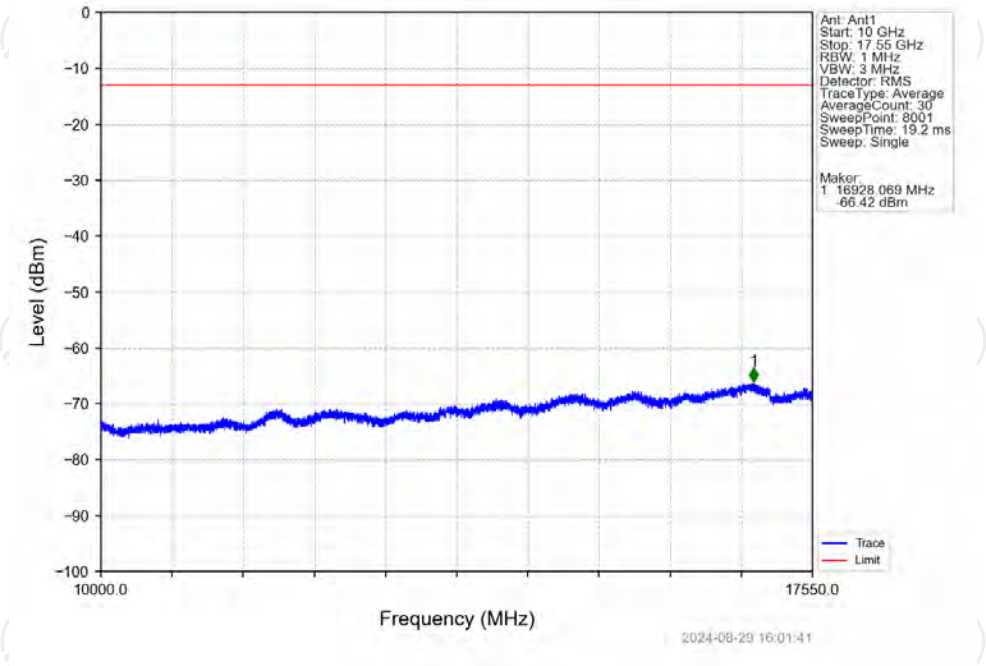



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1707 | 1709 | 1 | CHP | 1 | 1708.500 | -24.81 | -13 | Pass |
| 1709 | 1710 | 0.03 | / | 2 | 1709.988 | -33.74 | -13 | Pass |
| 1710 | 1713 | 0.03 | / | / | / | / | / | / |

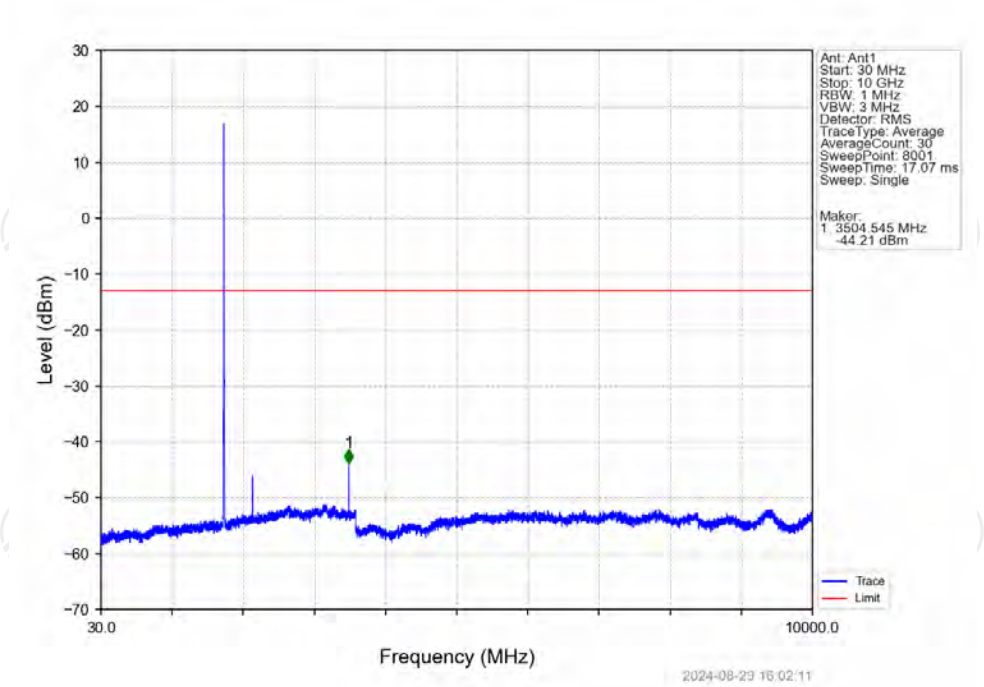
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



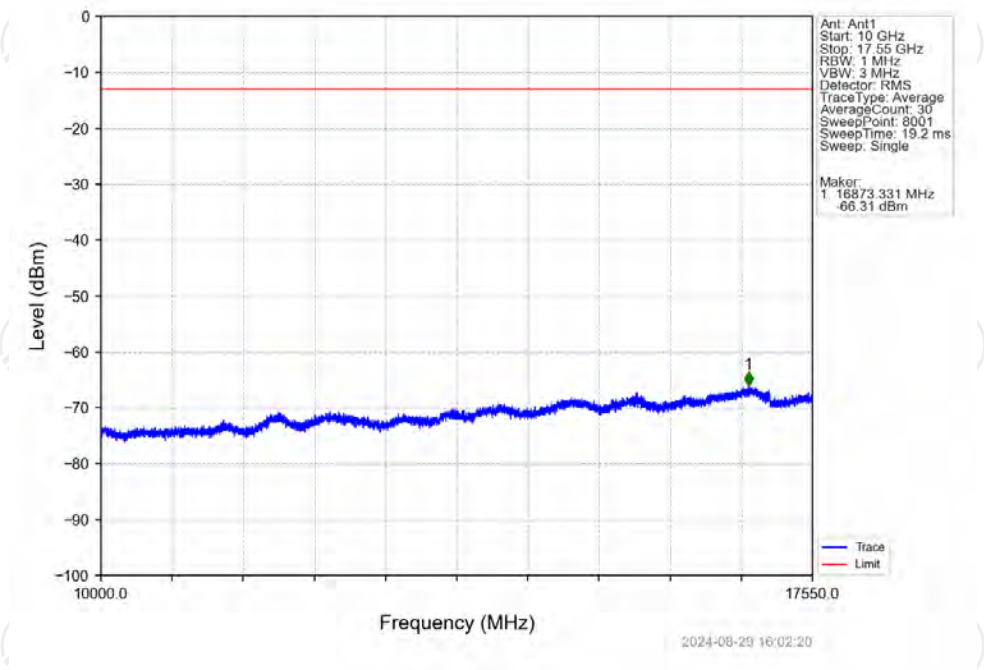

Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



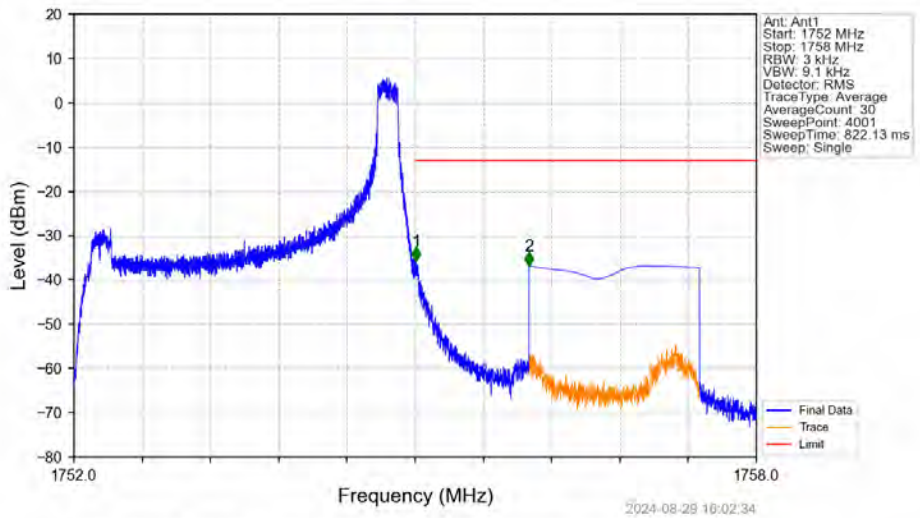
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV




Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV

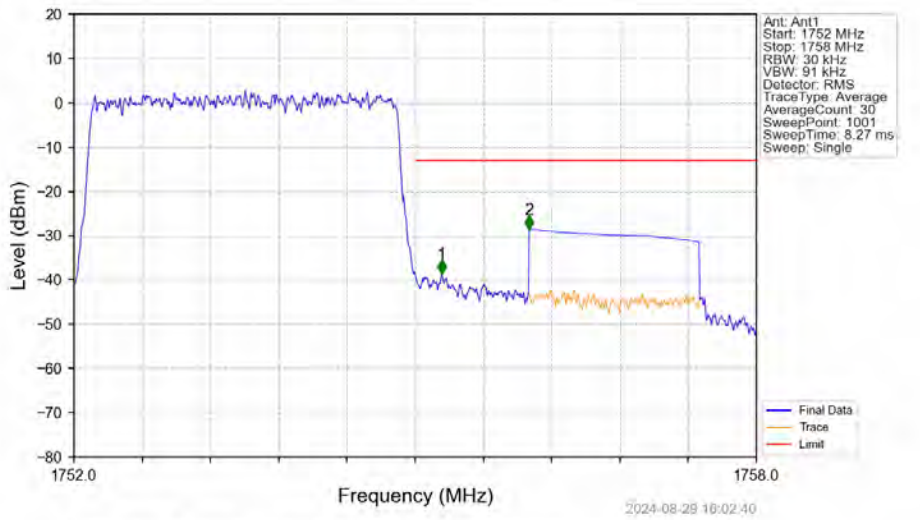


Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_14_NTNV



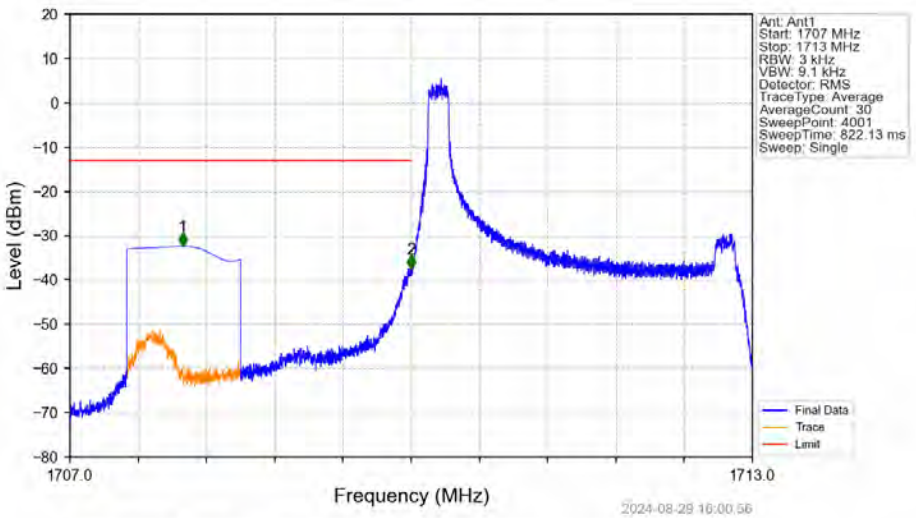

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1752 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.009 | -35.65 | -13 | Pass |
| 1756 | 1758 | 1 | CHP | 2 | 1756.001 | -36.82 | -13 | Pass |

Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



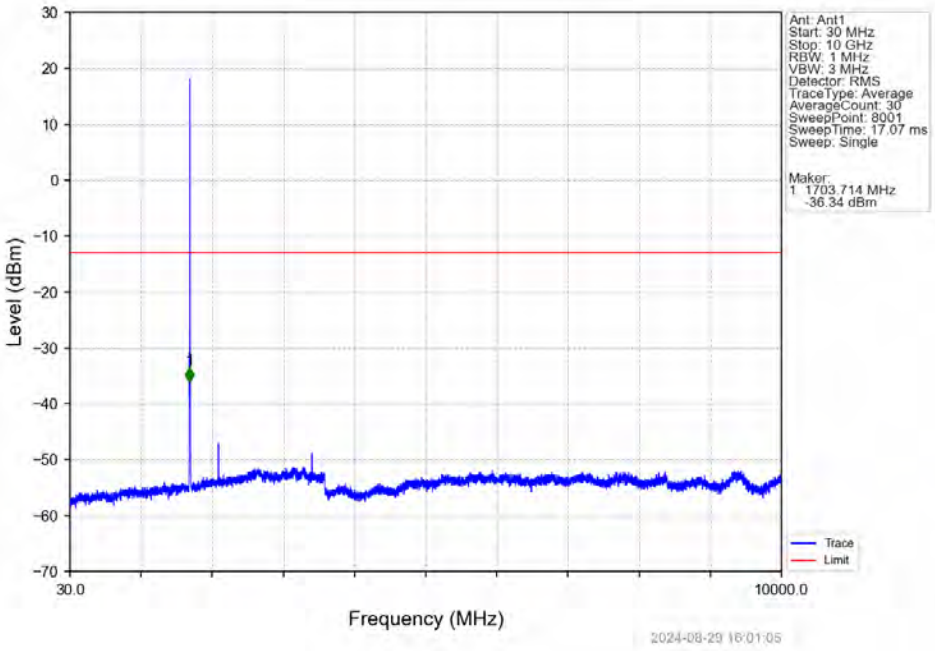

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1752 | 1755 | 0.03 | / | / | / | / | / | / |
| 1755 | 1756 | 0.03 | / | 1 | 1755.234 | -38.52 | -13 | Pass |
| 1756 | 1758 | 1 | CHP | 2 | 1756.002 | -28.59 | -13 | Pass |

Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV

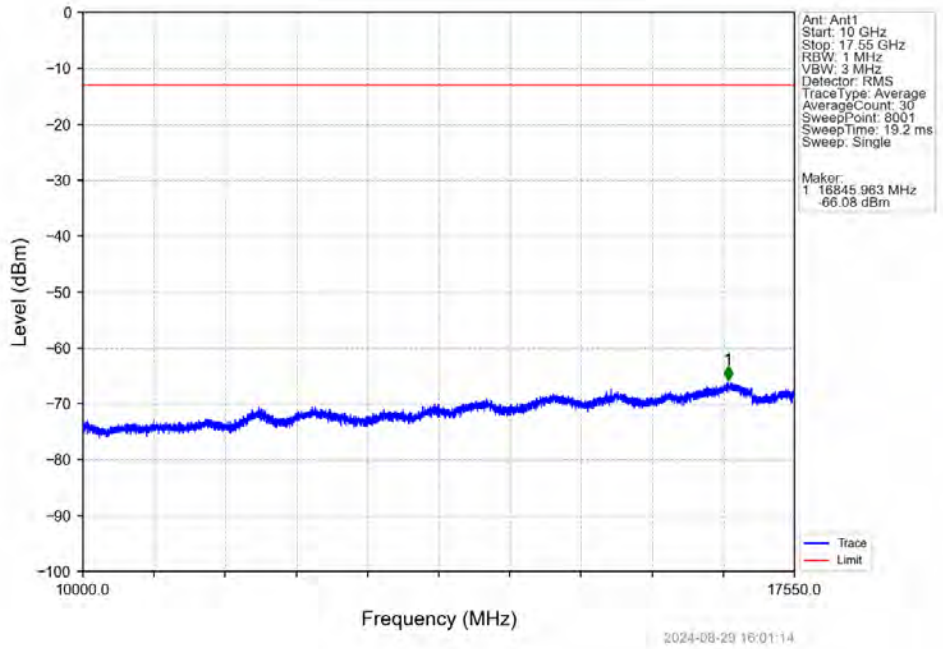



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1707 | 1709 | 1 | CHP | 1 | 1707.990 | -32.44 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.998 | -37.44 | -13 | Pass |
| 1710 | 1713 | 0.003 | / | / | / | / | / | / |

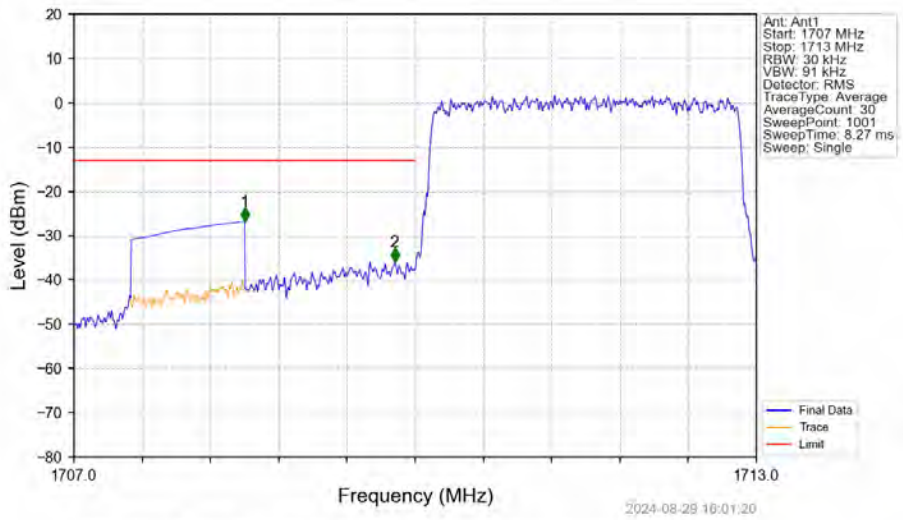
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV

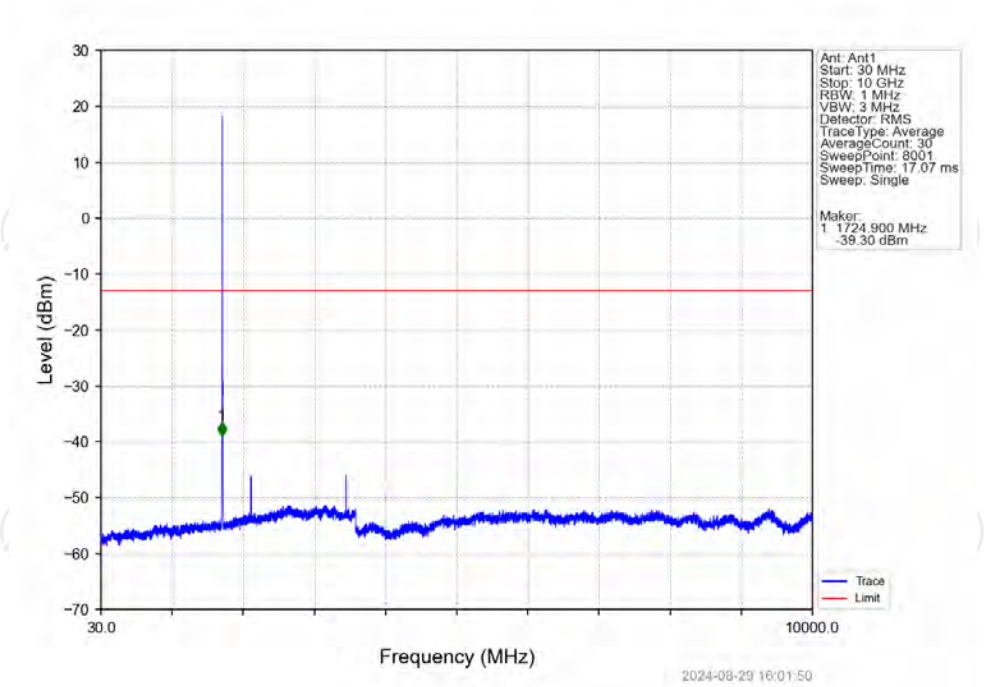



Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV

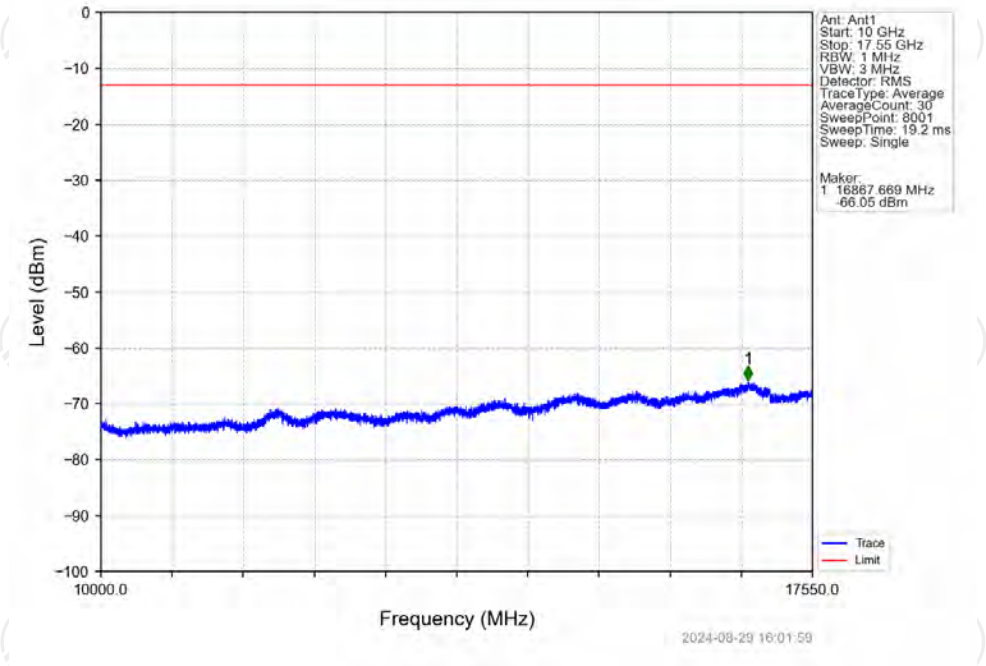



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1707 | 1709 | 1 | CHP | 1 | 1708.500 | -26.71 | -13 | Pass |
| 1709 | 1710 | 0.03 | / | 2 | 1709.820 | -35.83 | -13 | Pass |
| 1710 | 1713 | 0.03 | / | / | / | / | / | / |

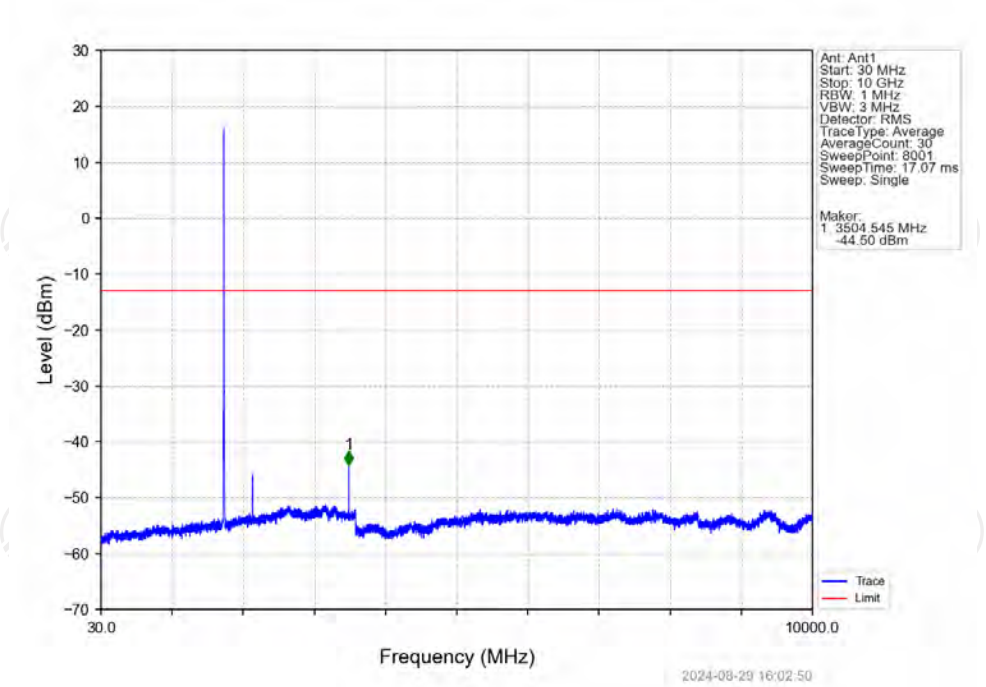
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



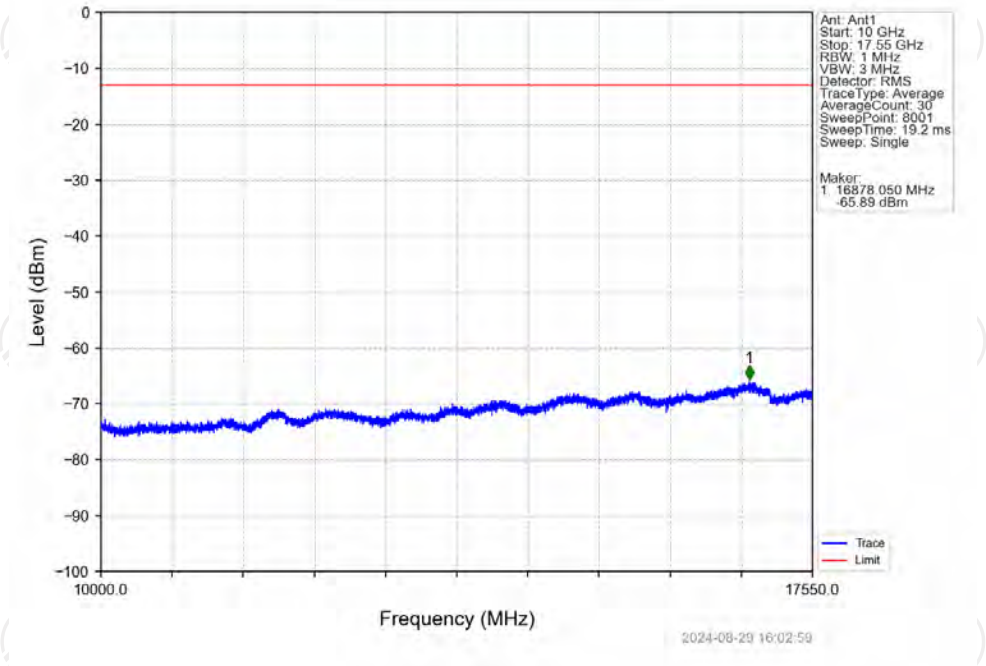

Band4_3MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



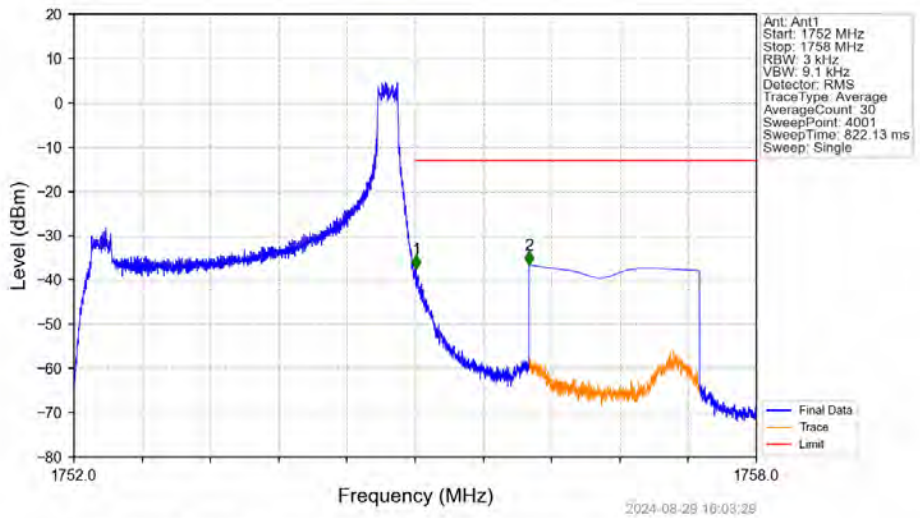
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_0_NTNV




Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_0_NTNV

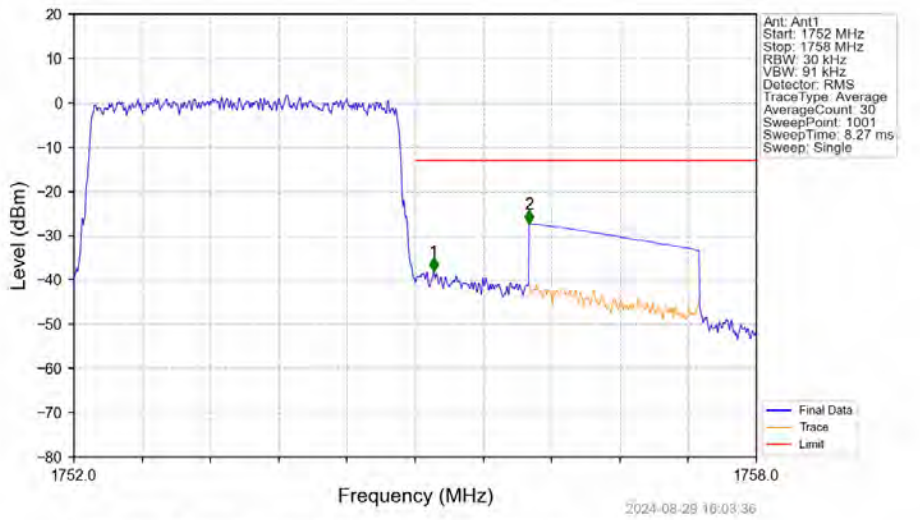


Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_14_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1752 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.009 | -37.43 | -13 | Pass |
| 1756 | 1758 | 1 | CHP | 2 | 1756.001 | -36.53 | -13 | Pass |

Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



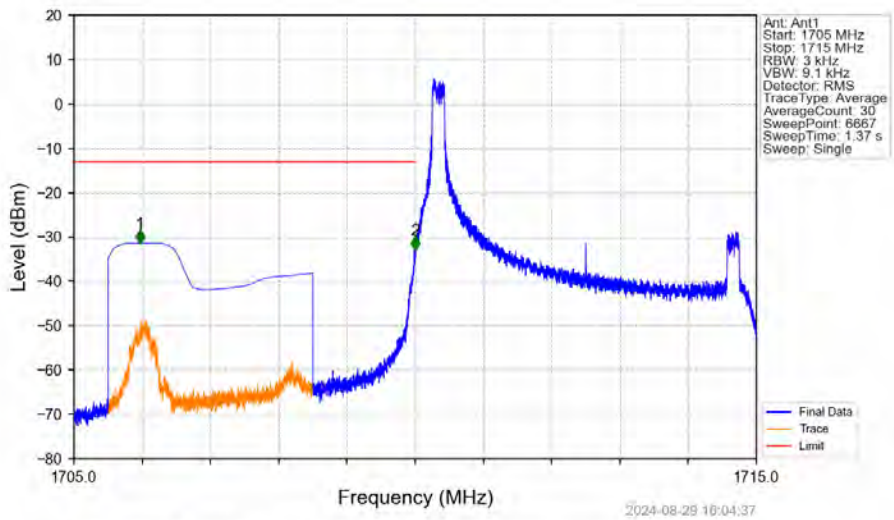

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1752 | 1755 | 0.03 | / | / | / | / | / | / |
| 1755 | 1756 | 0.03 | / | 1 | 1755.162 | -38.05 | -13 | Pass |
| 1756 | 1758 | 1 | CHP | 2 | 1756.002 | -27.30 | -13 | Pass |



Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

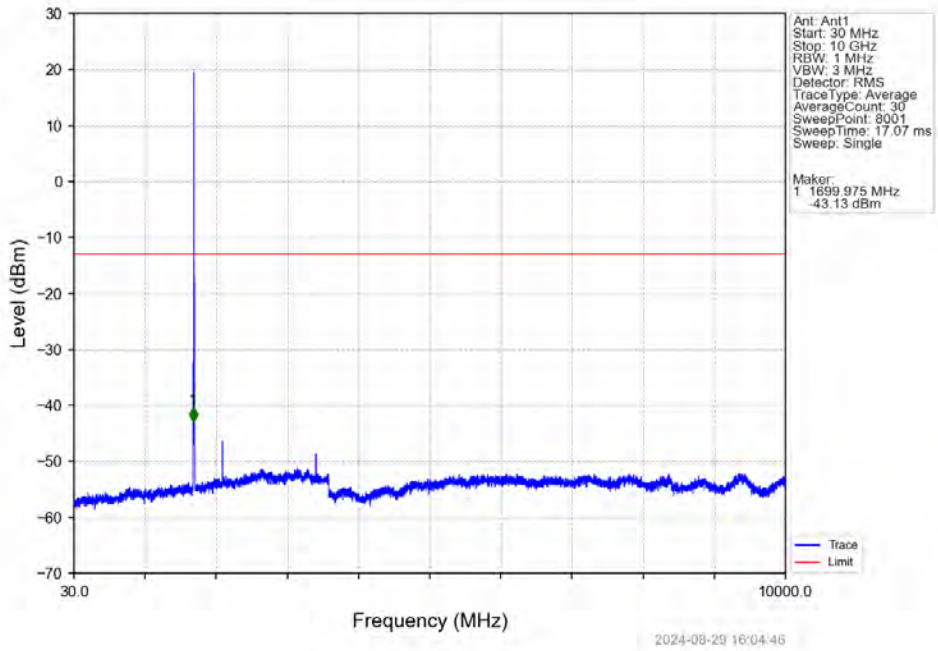
### 6.2.3 B4_5MHz

Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV

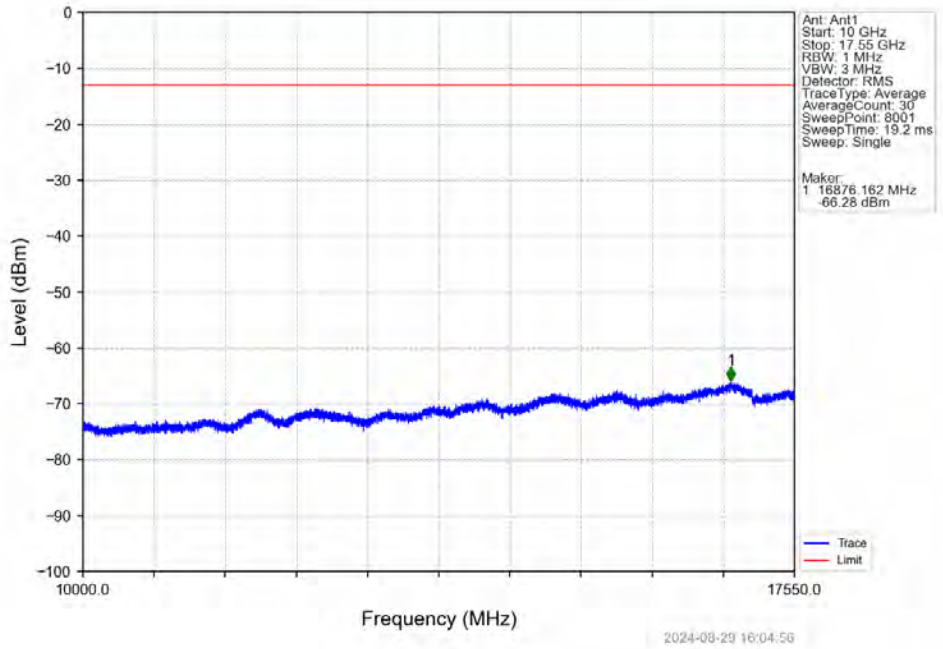



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1705 | 1709 | 1 | CHP | 1 | 1705.965 | -31.42 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.997 | -32.92 | -13 | Pass |
| 1710 | 1715 | 0.003 | / | / | / | / | / | / |

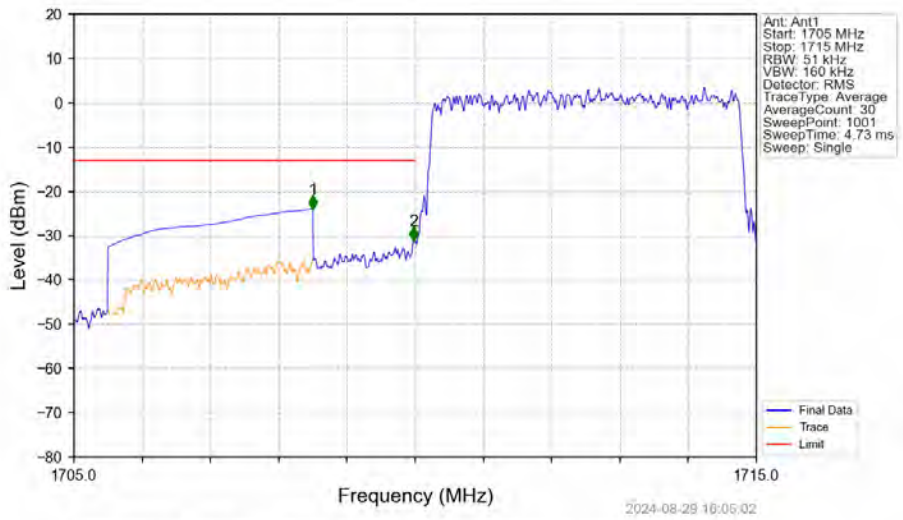
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV



Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV




Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV

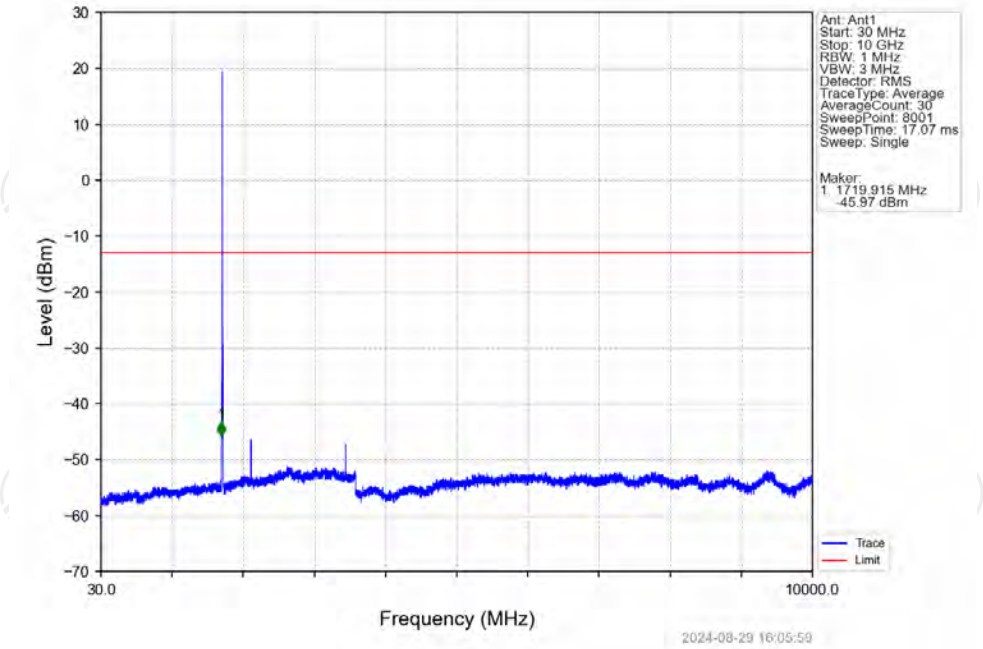



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1705 | 1709 | 1 | CHP | 1 | 1708.500 | -23.97 | -13 | Pass |
| 1709 | 1710 | 0.051 | / | 2 | 1709.980 | -31.11 | -13 | Pass |
| 1710 | 1715 | 0.051 | / | / | / | / | / | / |

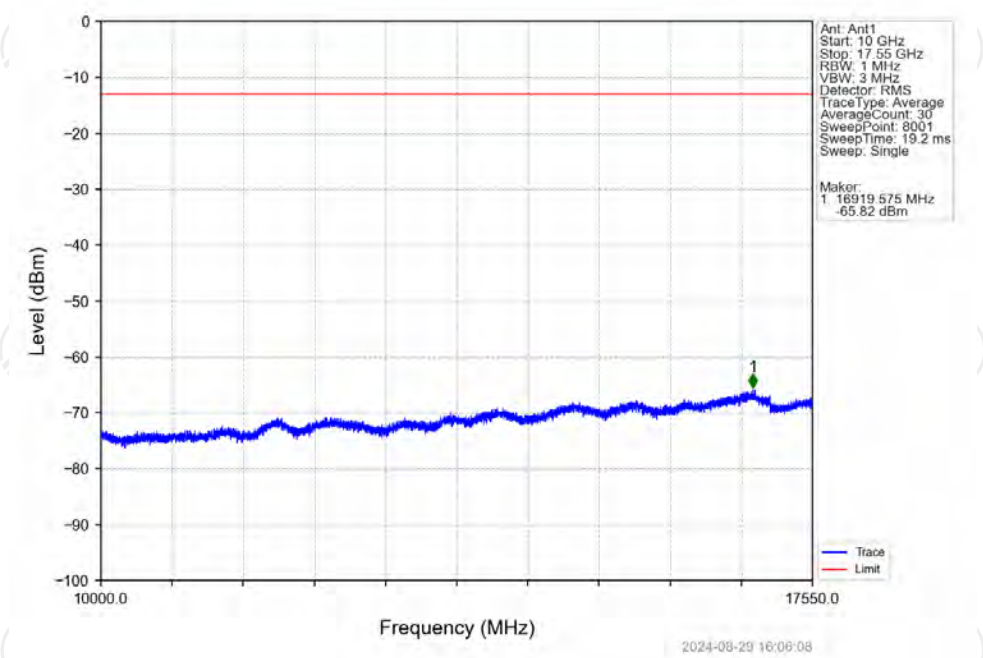


Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

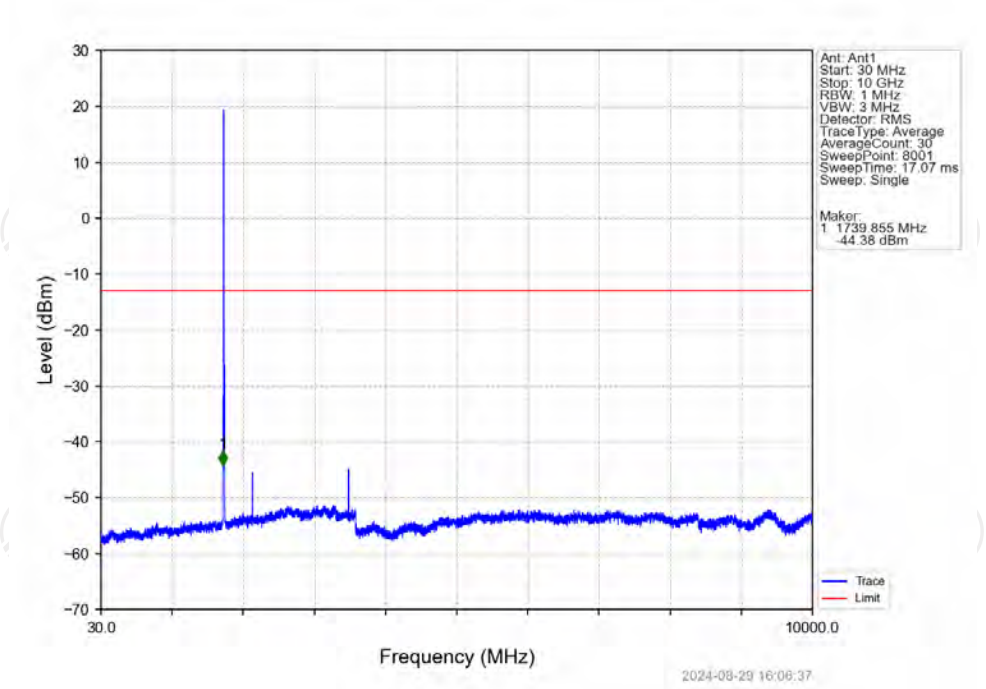
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



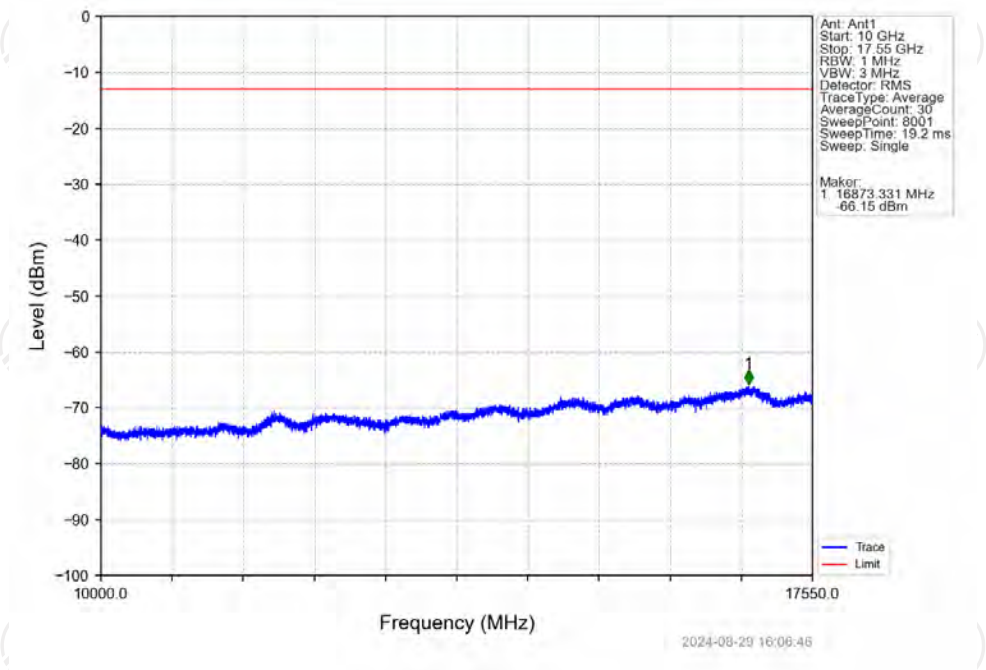

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



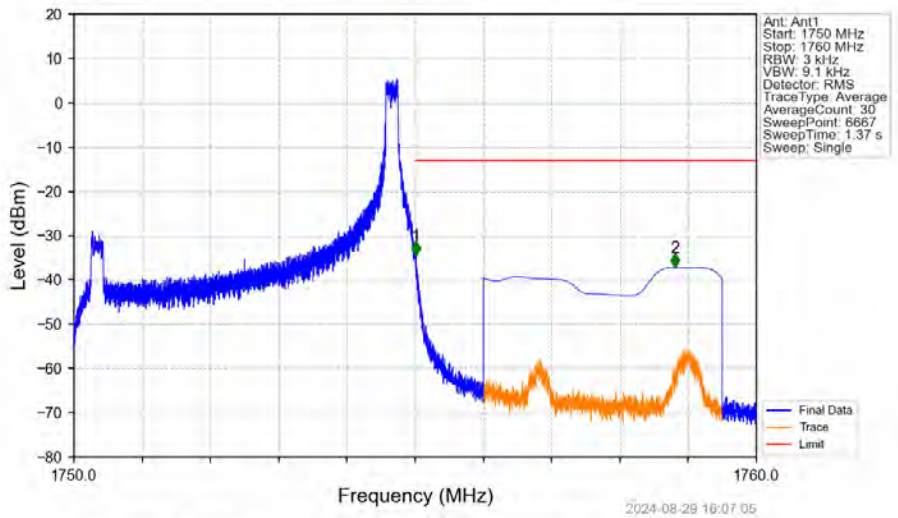
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV




Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV

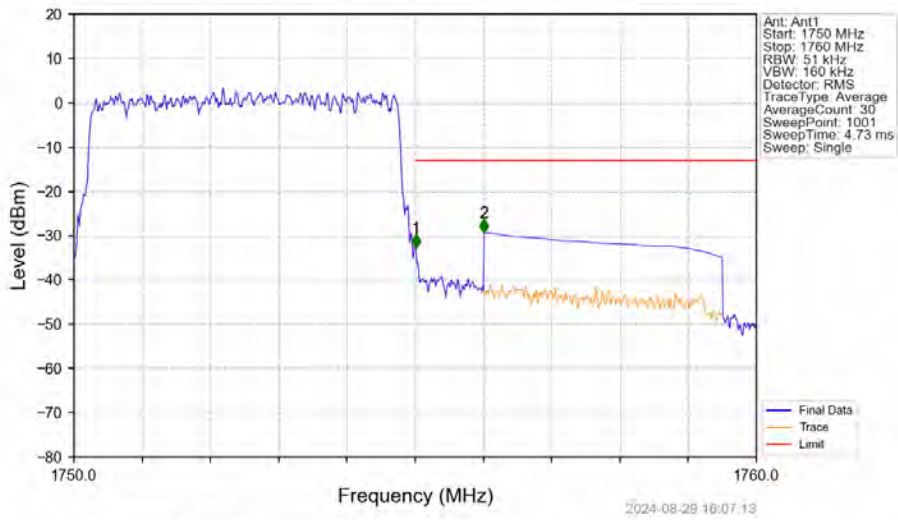


Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_24_NTNV



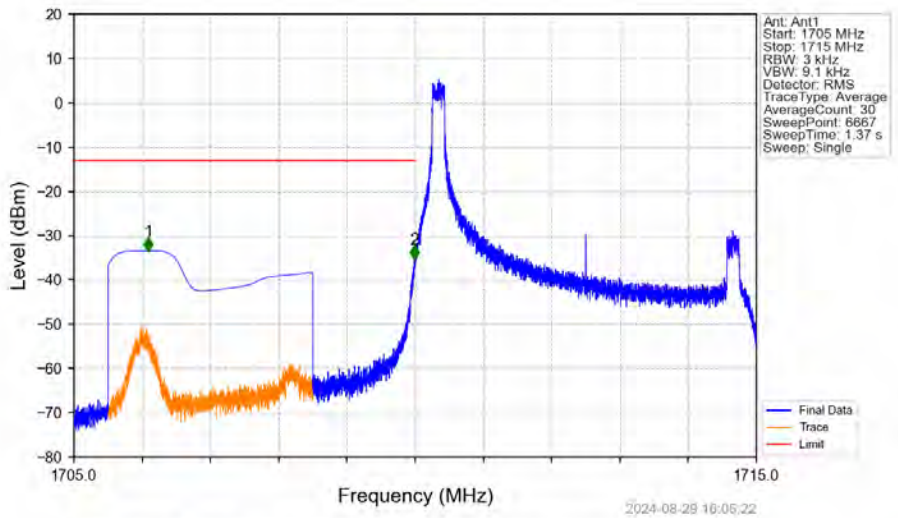

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1750 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.011 | -34.37 | -13 | Pass |
| 1756 | 1760 | 1 | CHP | 2 | 1758.810 | -37.22 | -13 | Pass |

Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



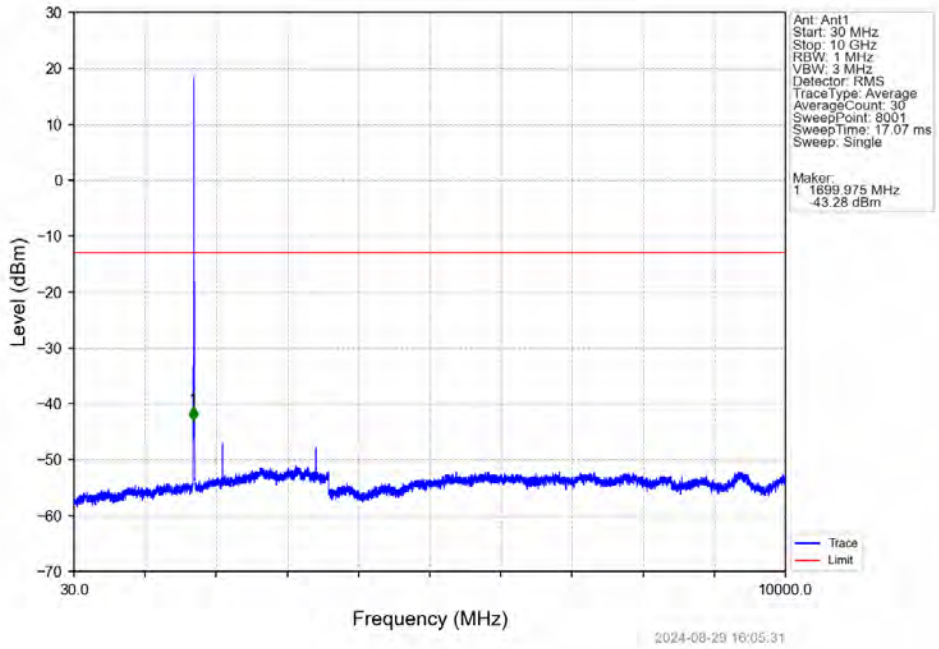

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1750 | 1755 | 0.051 | / | / | / | / | / | / |
| 1755 | 1756 | 0.051 | / | 1 | 1755.010 | -32.77 | -13 | Pass |
| 1756 | 1760 | 1 | CHP | 2 | 1756.010 | -29.33 | -13 | Pass |

Band4_5MHz_16QAM_LCH_1712.5MHz_RB_1_0_NTNV

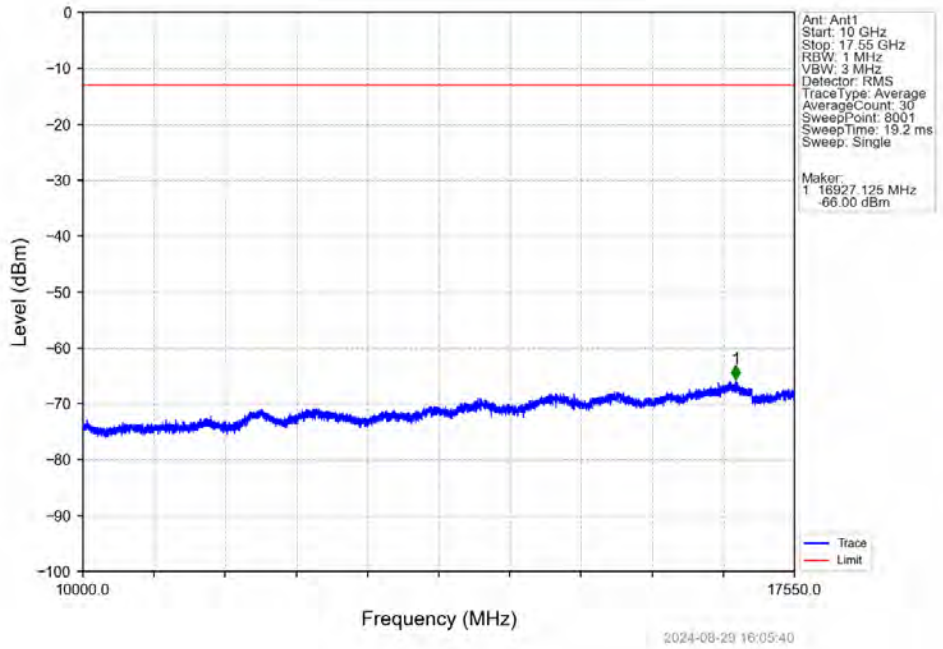



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1705 | 1709 | 1 | CHP | 1 | 1706.089 | -33.44 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.991 | -35.39 | -13 | Pass |
| 1710 | 1715 | 0.003 | / | / | / | / | / | / |

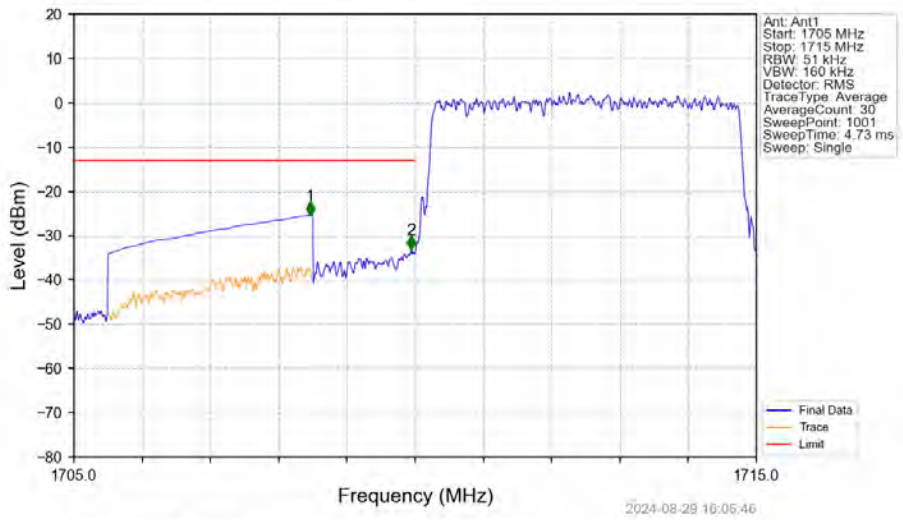
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_1_0_NTNV



Band4_5MHz_16QAM_LCH_1712.5MHz_RB_1_0_NTNV

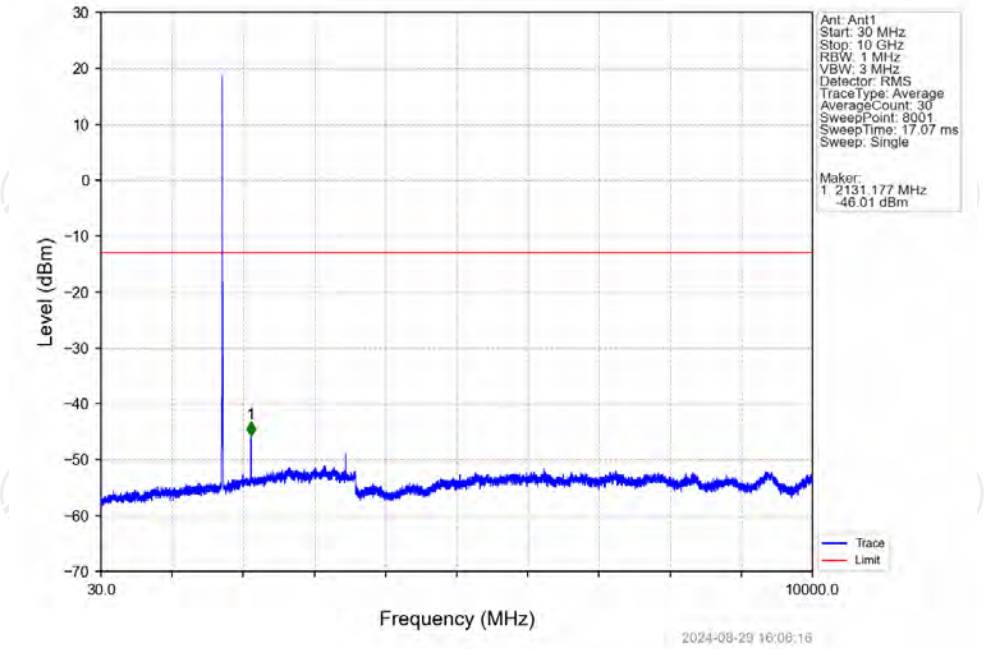



Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV

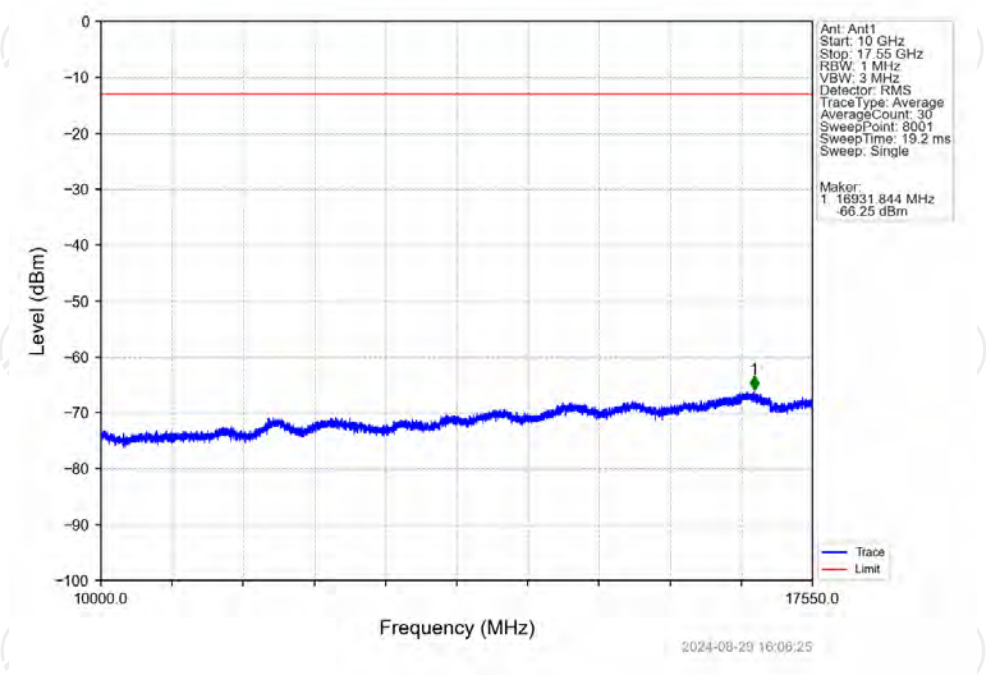



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1705 | 1709 | 1 | CHP | 1 | 1708.460 | -25.45 | -13 | Pass |
| 1709 | 1710 | 0.051 | / | 2 | 1709.940 | -33.21 | -13 | Pass |
| 1710 | 1715 | 0.051 | / | / | / | / | / | / |

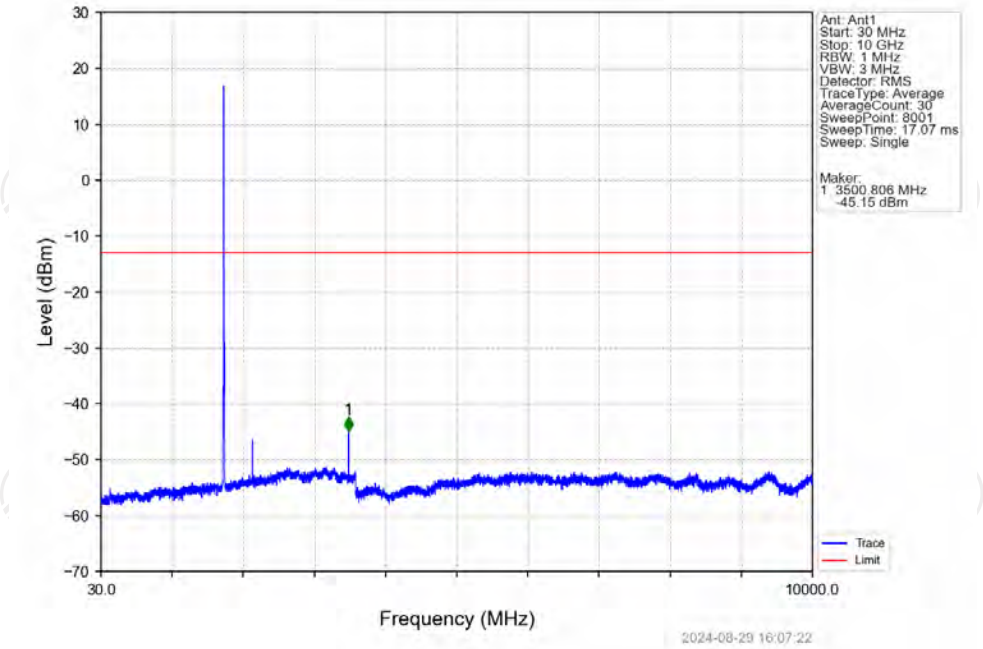
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



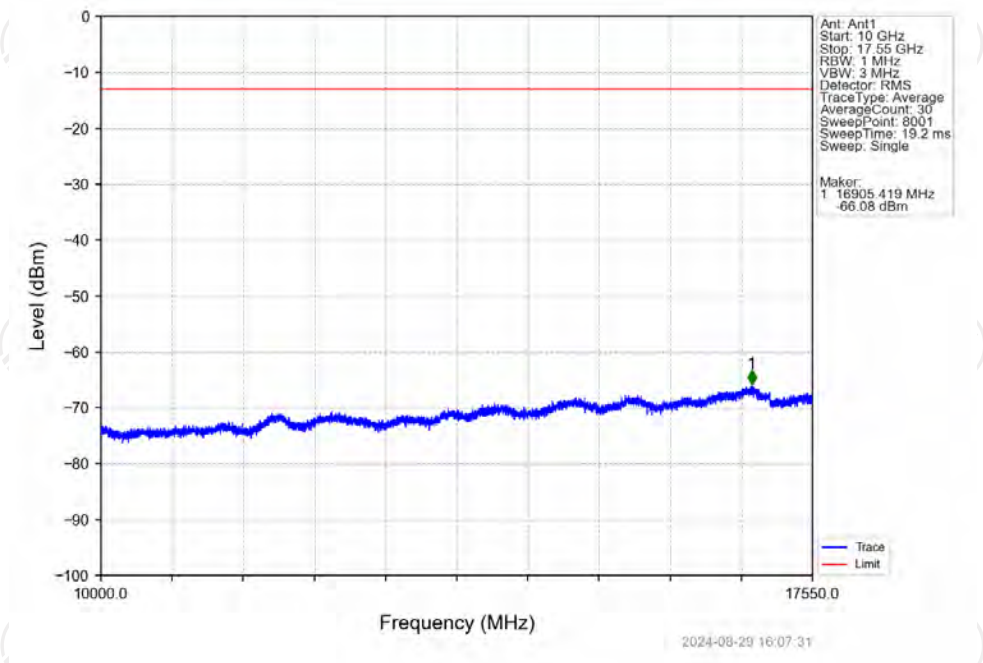

Band4_5MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



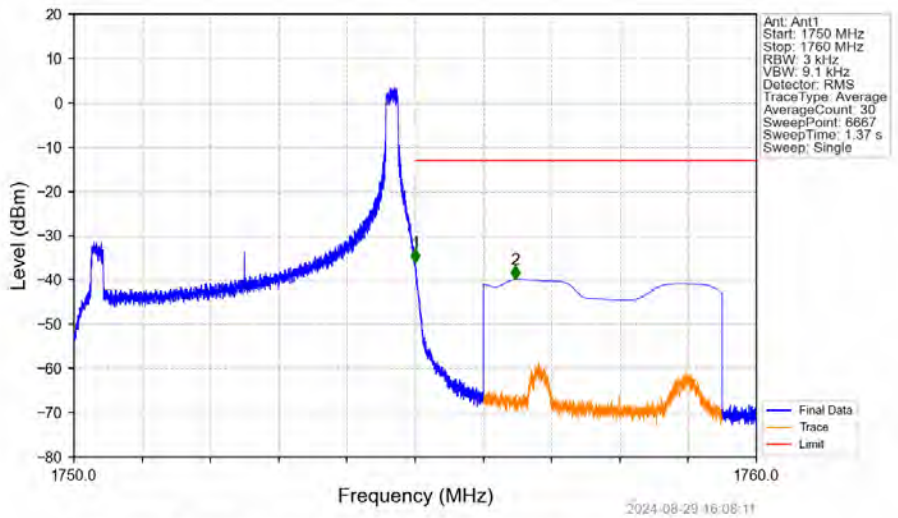
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_1_0_NTNV




Band4_5MHz_16QAM_HCH_1752.5MHz_RB_1_0_NTNV

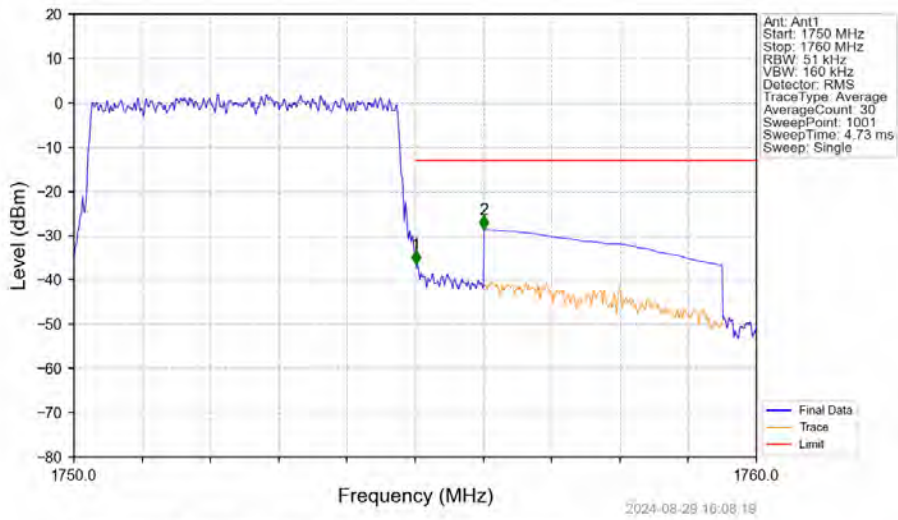


Band4_5MHz_16QAM_HCH_1752.5MHz_RB_1_24_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1750 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.002 | -36.10 | -13 | Pass |
| 1756 | 1760 | 1 | CHP | 2 | 1756.470 | -39.87 | -13 | Pass |

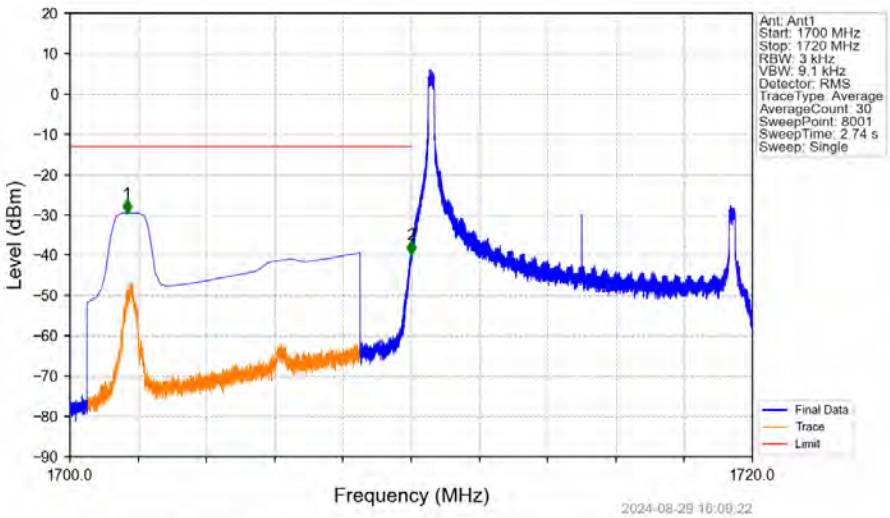
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1750 | 1755 | 0.051 | / | / | / | / | / | / |
| 1755 | 1756 | 0.051 | / | 1 | 1755.010 | -36.42 | -13 | Pass |
| 1756 | 1760 | 1 | CHP | 2 | 1756.010 | -28.61 | -13 | Pass |

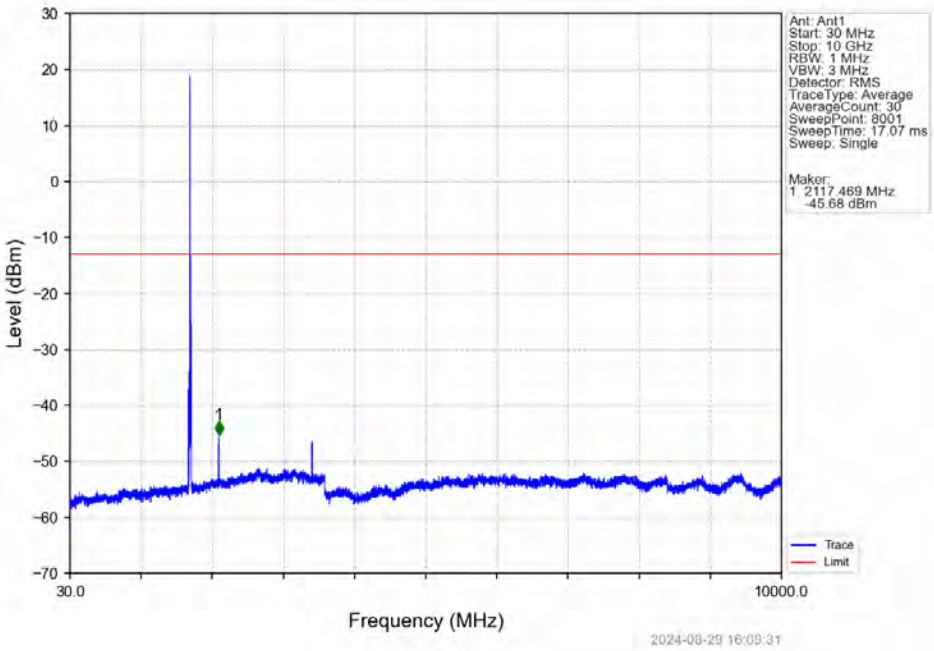
## 6.2.4 B4_10MHz

Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV

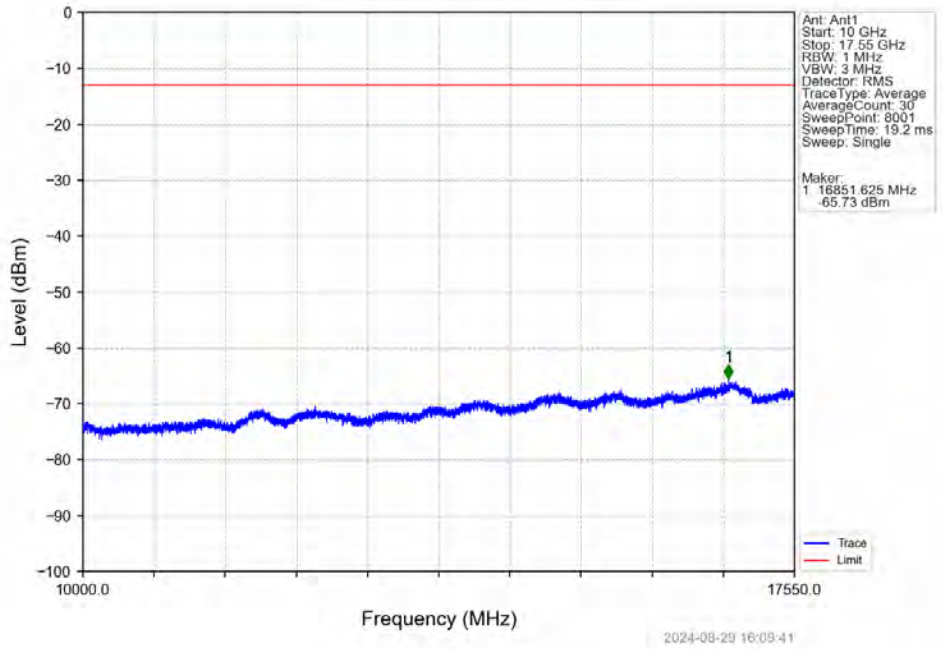



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1700 | 1709 | 1 | CHP | 1 | 1701.678 | -29.54 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.997 | -39.87 | -13 | Pass |
| 1710 | 1720 | 0.003 | / | / | / | / | / | / |

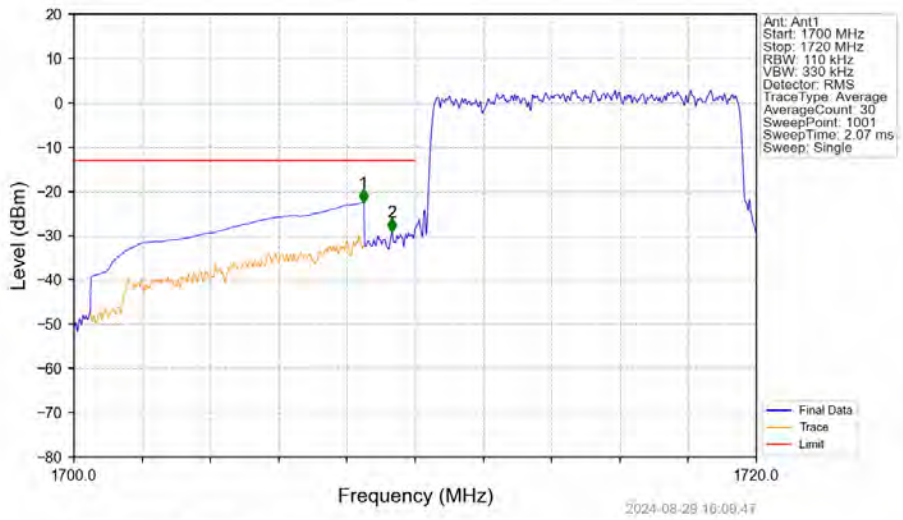
Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV



Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV

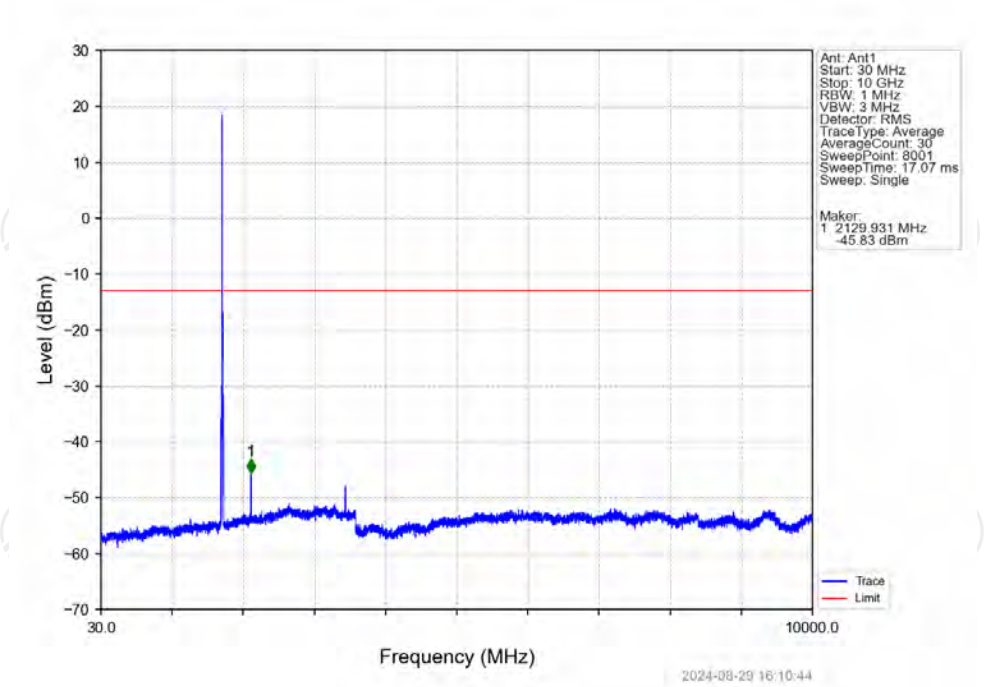



Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV

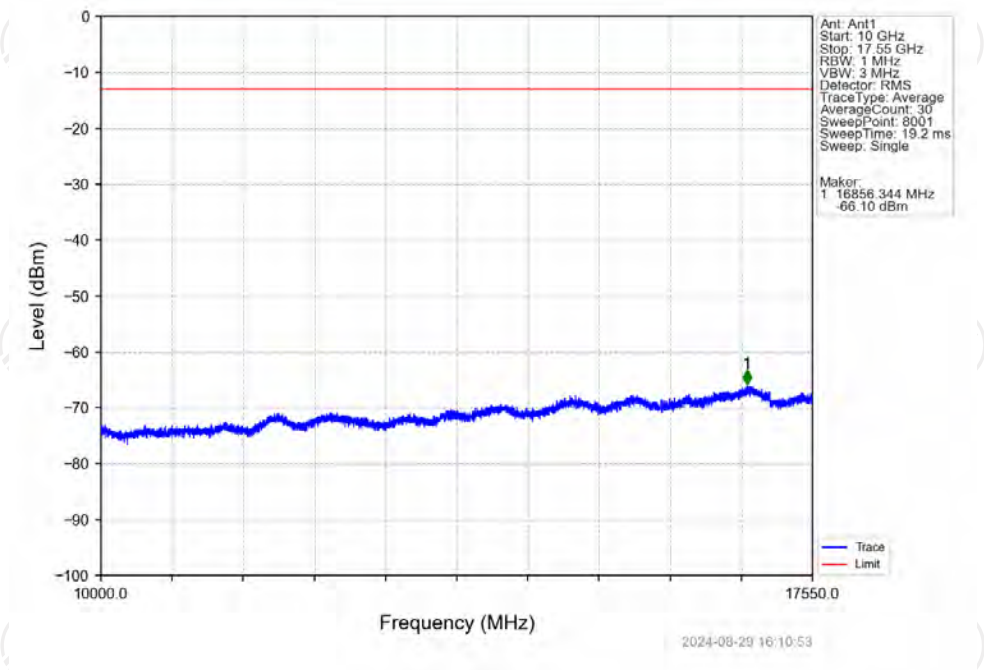



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1700 | 1709 | 1 | CHP | 1 | 1708.480 | -22.54 | -13 | Pass |
| 1709 | 1710 | 0.11 | / | 2 | 1709.320 | -29.17 | -13 | Pass |
| 1710 | 1720 | 0.11 | / | / | / | / | / | / |

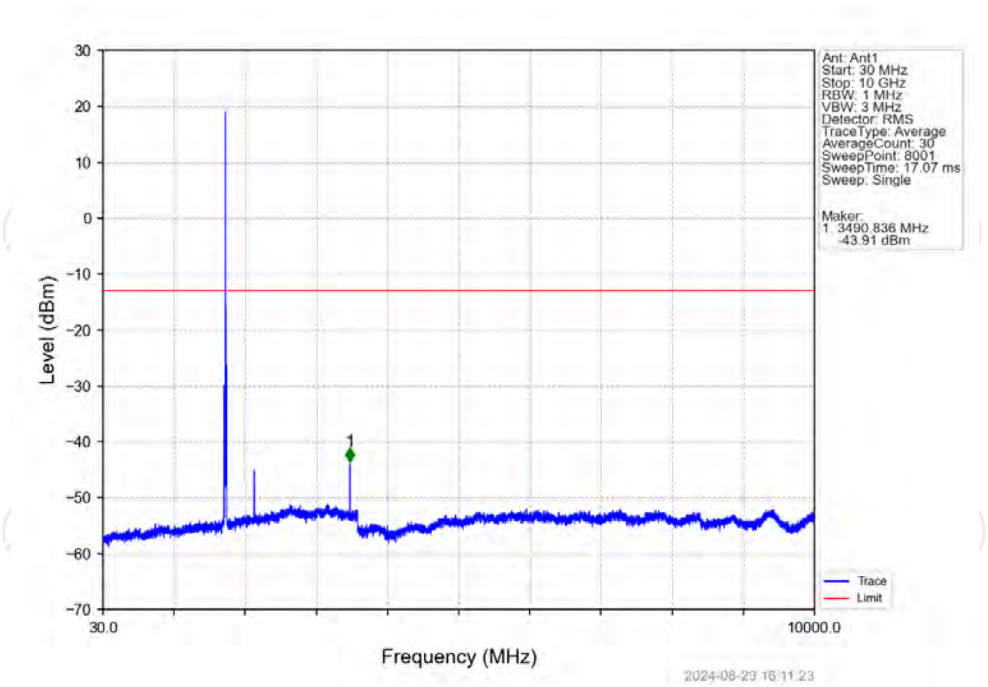
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



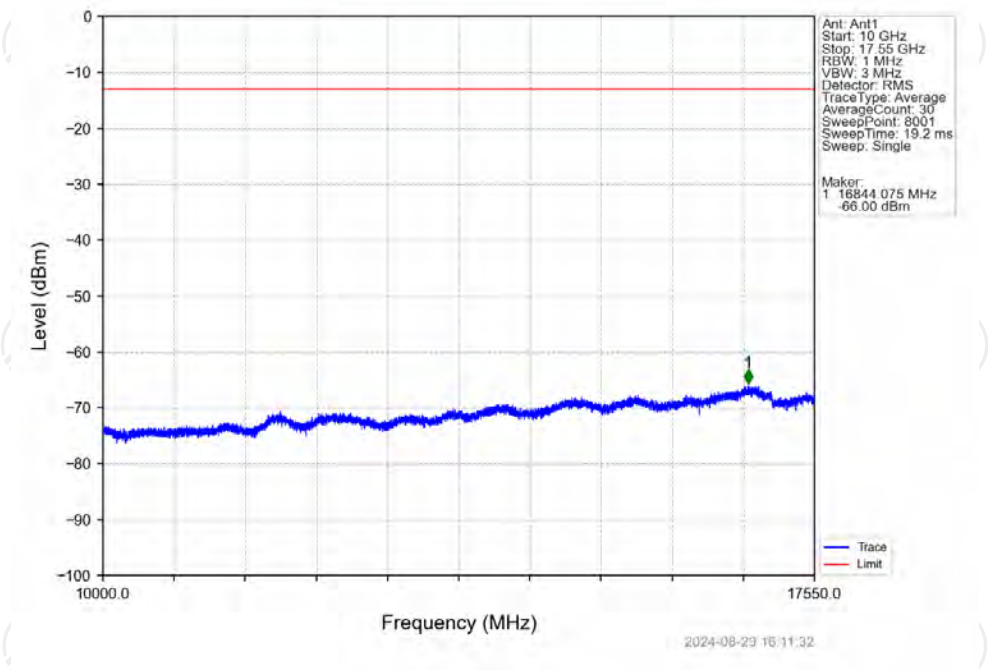

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



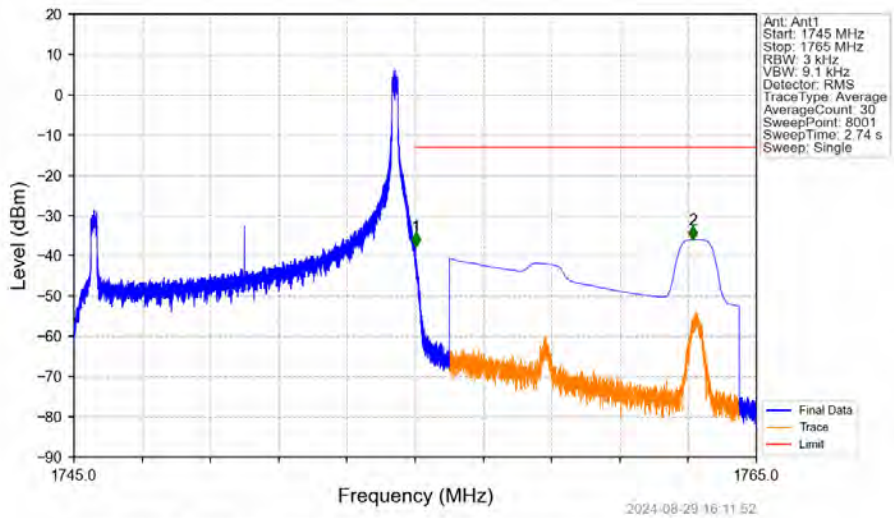
Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV




Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV

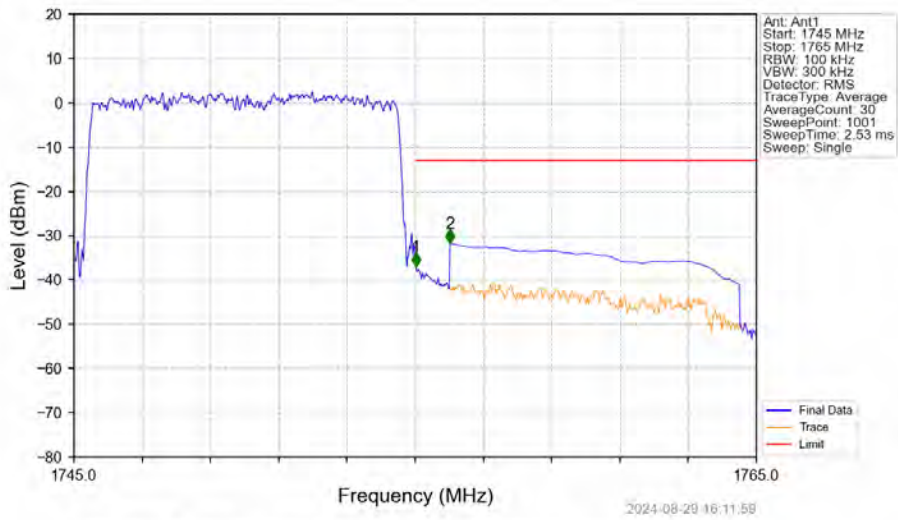


Band4_10MHz_QPSK_HCH_1750MHz_RB_1_49_NTNV



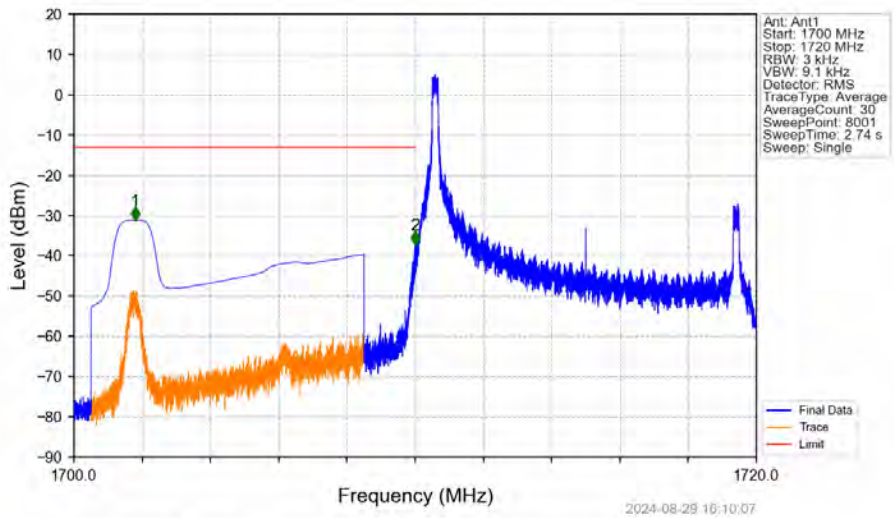

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1745 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.013 | -37.72 | -13 | Pass |
| 1756 | 1765 | 1 | CHP | 2 | 1763.132 | -36.03 | -13 | Pass |

Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



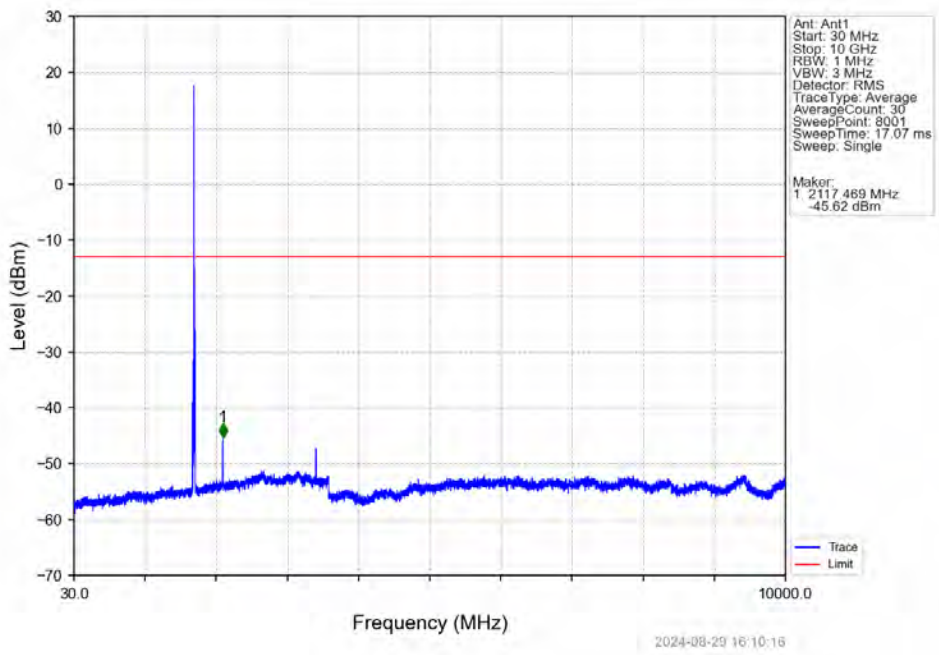

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1745 | 1755 | 0.1 | / | / | / | / | / | / |
| 1755 | 1756 | 0.1 | / | 1 | 1755.020 | -36.96 | -13 | Pass |
| 1756 | 1765 | 1 | CHP | 2 | 1756.020 | -31.75 | -13 | Pass |

Band4_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV

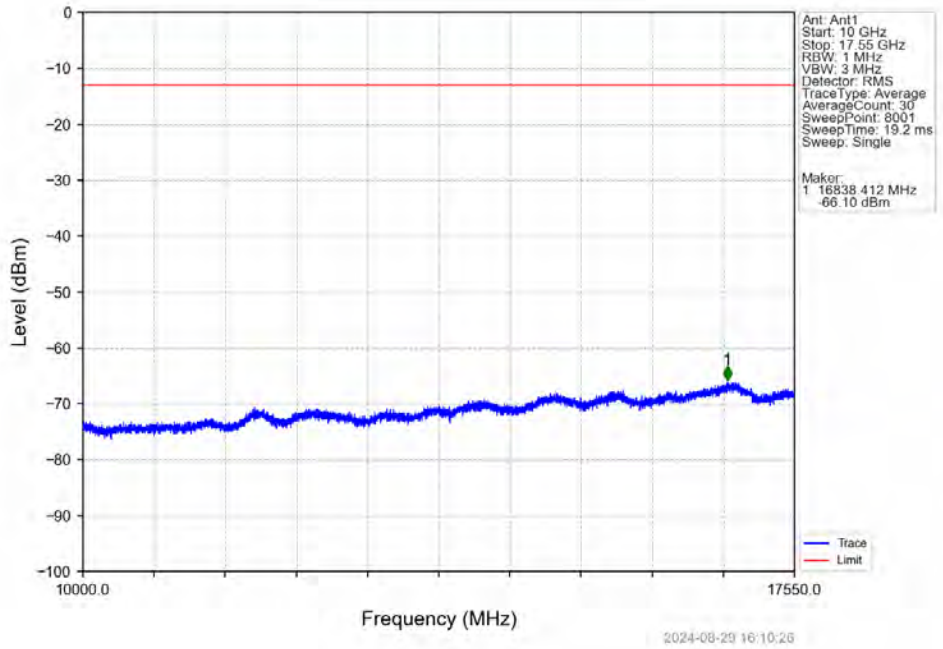



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1700 | 1709 | 1 | CHP | 1 | 1701.793 | -31.24 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.997 | -37.20 | -13 | Pass |
| 1710 | 1720 | 0.003 | / | / | / | / | / | / |

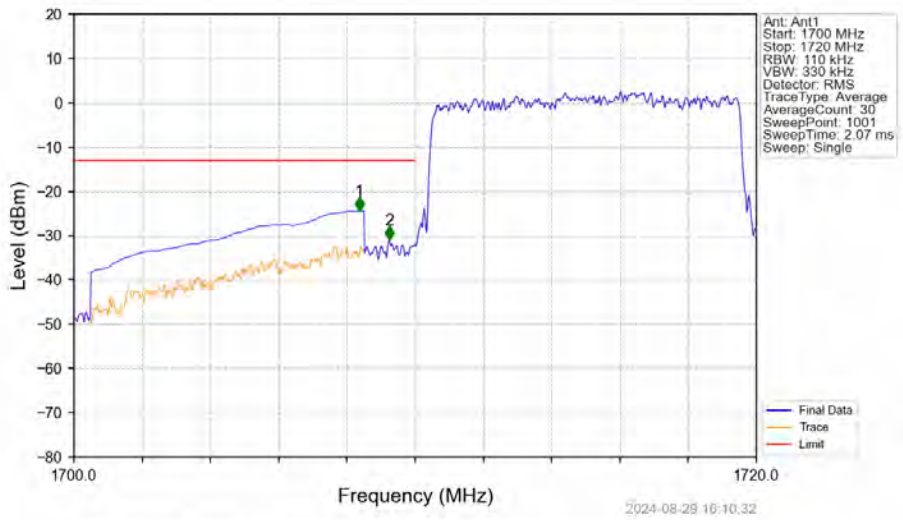
Band4_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV



Band4_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV

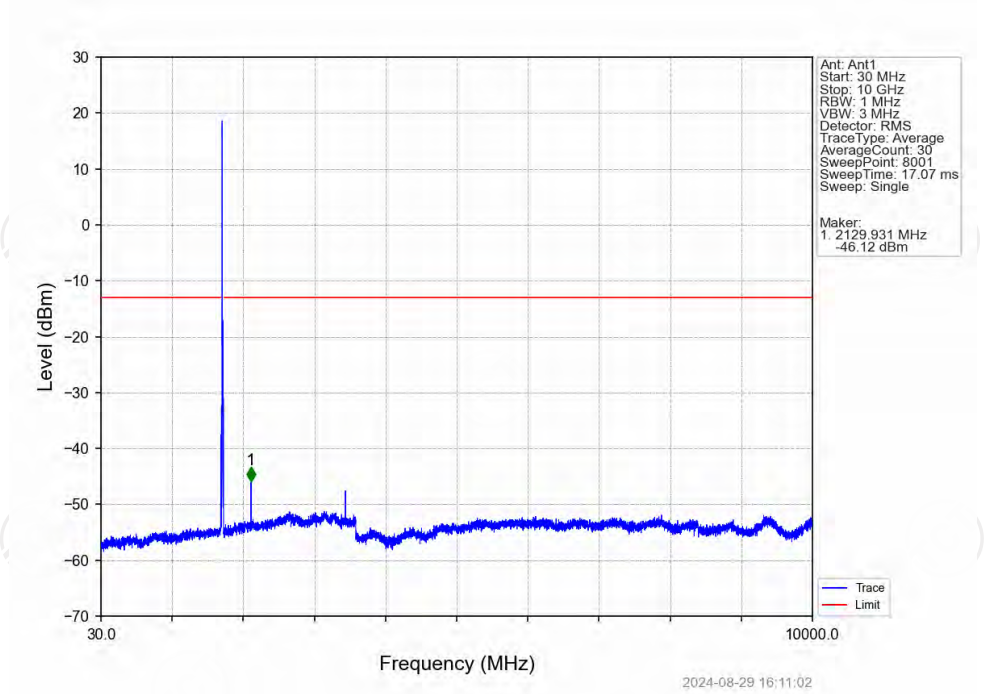



Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV

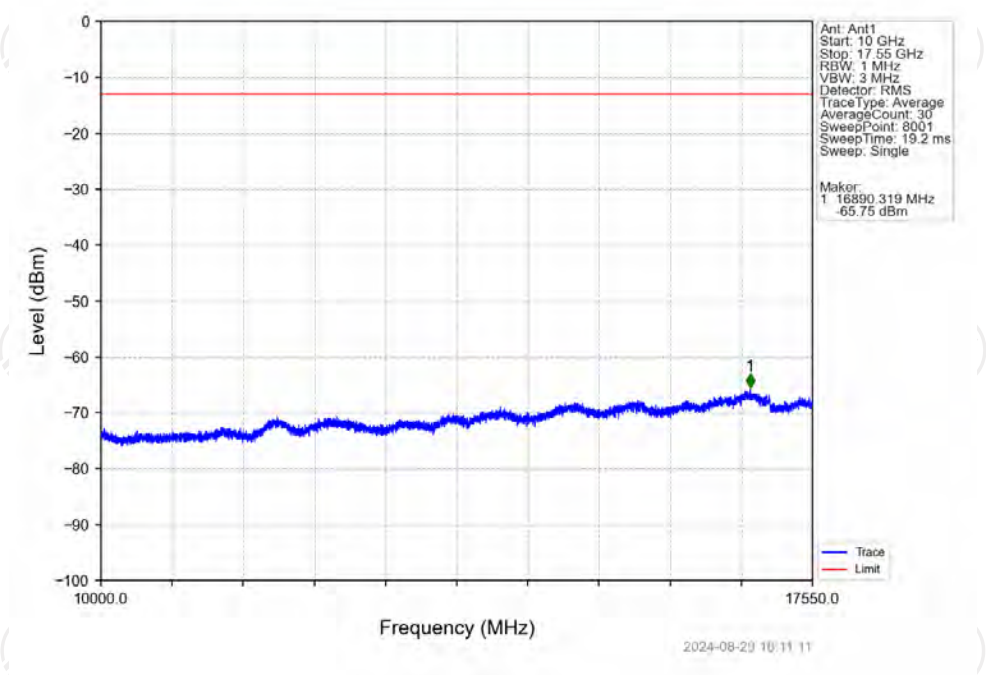



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1700 | 1709 | 1 | CHP | 1 | 1708.360 | -24.44 | -13 | Pass |
| 1709 | 1710 | 0.11 | / | 2 | 1709.240 | -30.95 | -13 | Pass |
| 1710 | 1720 | 0.11 | / | / | / | / | / | / |

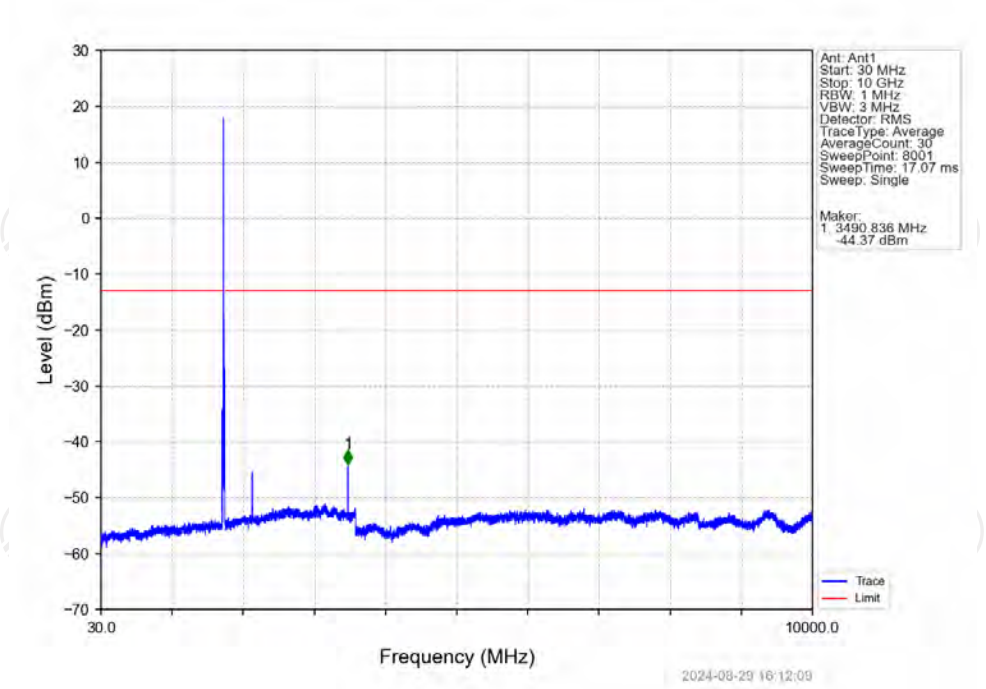
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



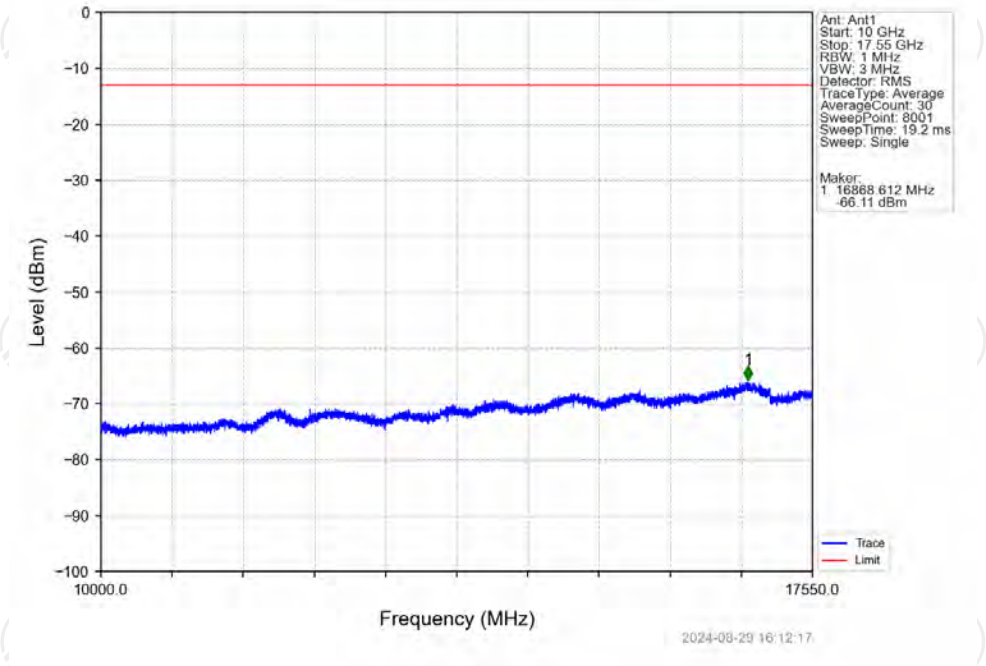

Band4_10MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



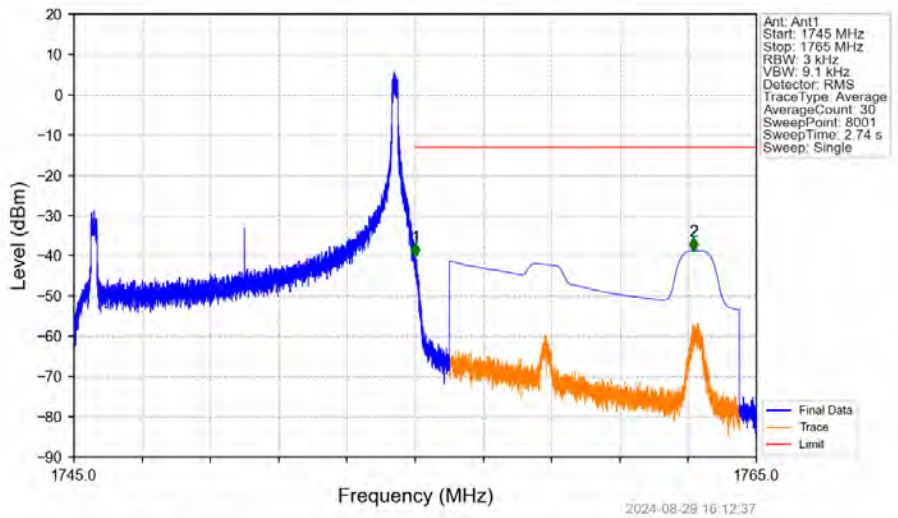
Band4_10MHz_16QAM_HCH_1750MHz_RB_1_0_NTNV




Band4_10MHz_16QAM_HCH_1750MHz_RB_1_0_NTNV

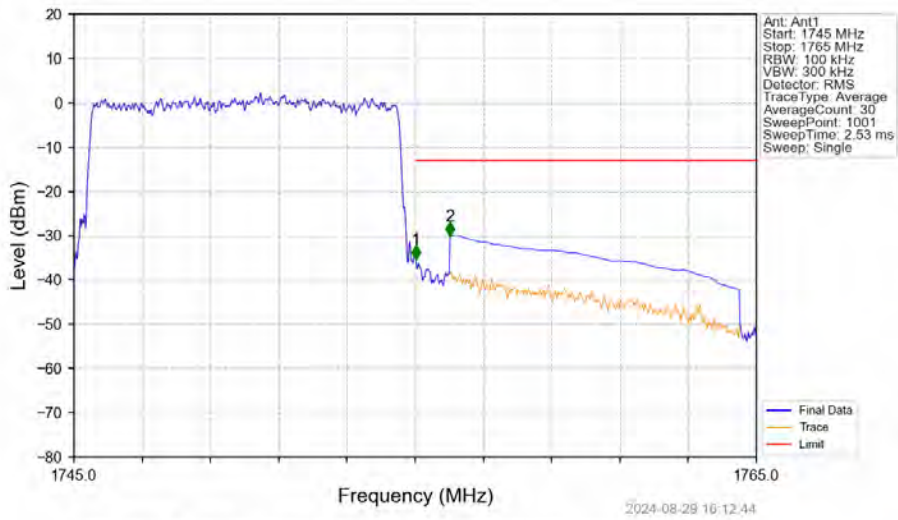


Band4_10MHz_16QAM_HCH_1750MHz_RB_1_49_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1745 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.003 | -40.23 | -13 | Pass |
| 1756 | 1765 | 1 | CHP | 2 | 1763.162 | -38.80 | -13 | Pass |

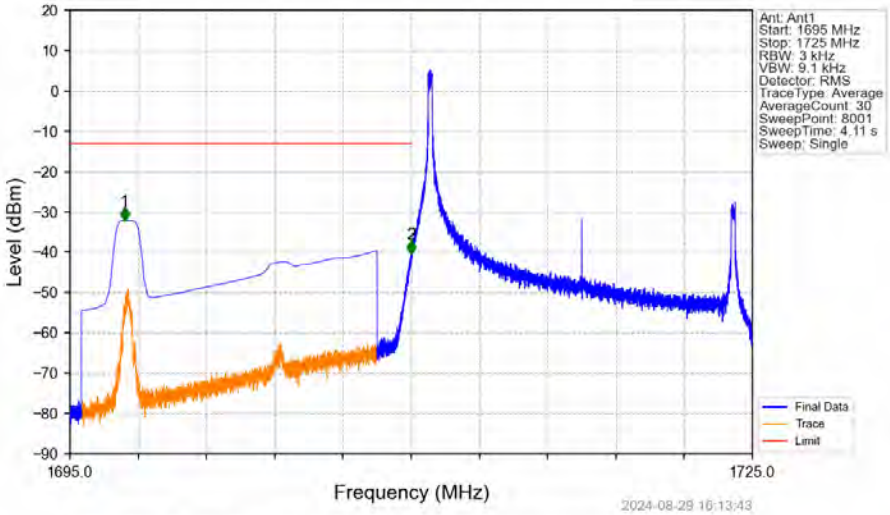
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1745 | 1755 | 0.1 | / | / | / | / | / | / |
| 1755 | 1756 | 0.1 | / | 1 | 1755.020 | -35.27 | -13 | Pass |
| 1756 | 1765 | 1 | CHP | 2 | 1756.020 | -29.98 | -13 | Pass |

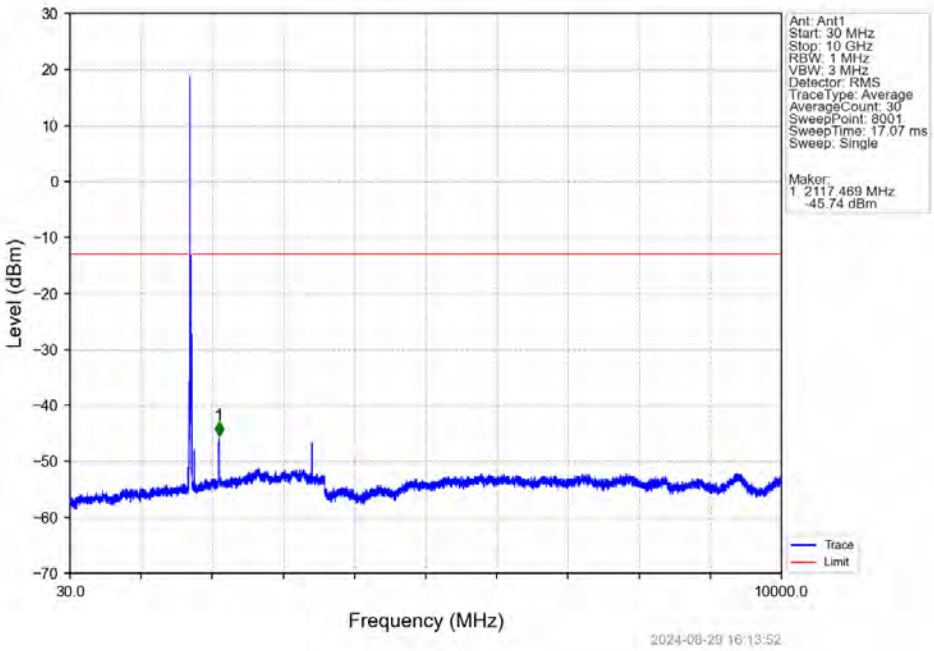
## 6.2.5 B4_15MHz

Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV

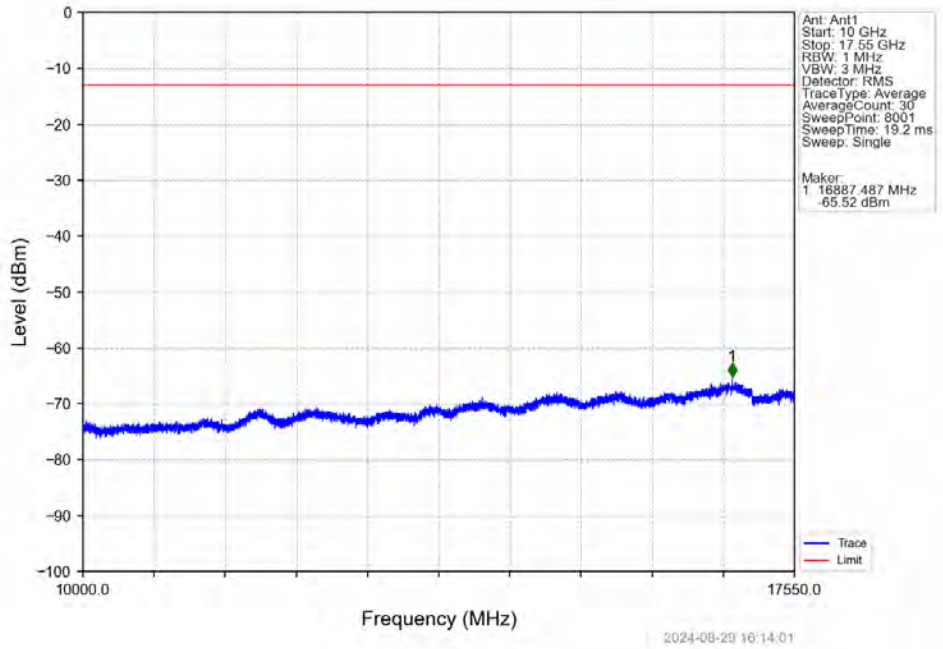



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1695 | 1709 | 1 | CHP | 1 | 1697.408 | -32.14 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.993 | -40.36 | -13 | Pass |
| 1710 | 1725 | 0.003 | / | / | / | / | / | / |

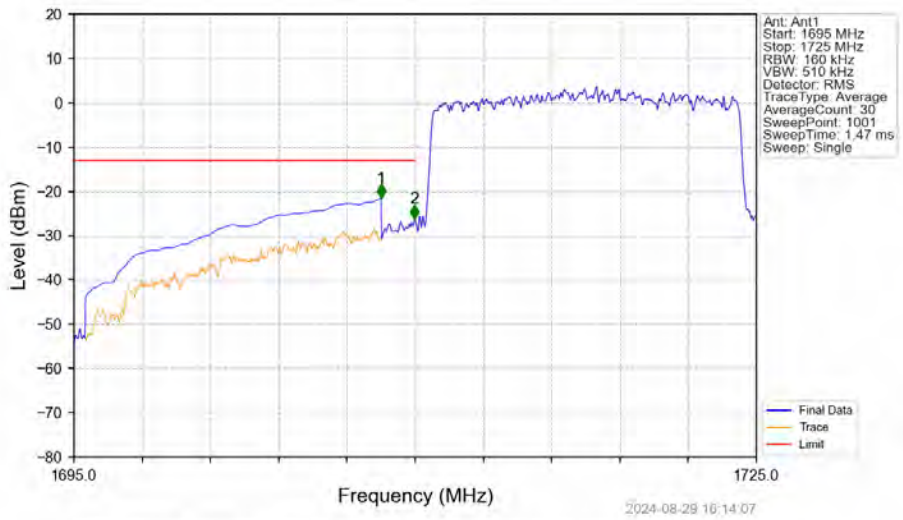
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV



Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV

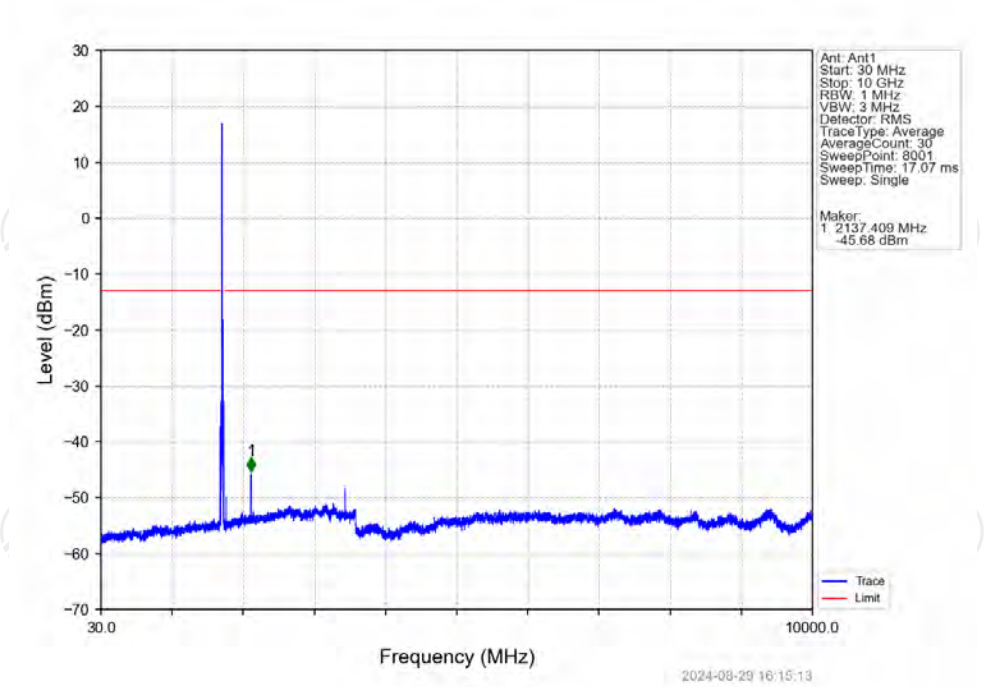



Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV

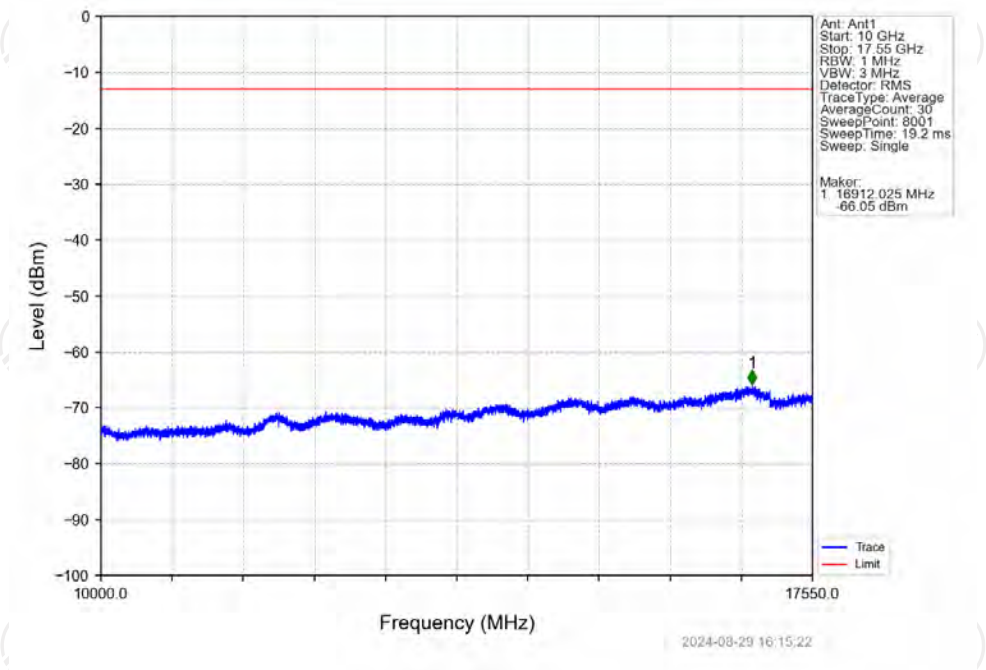



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1695 | 1709 | 1 | CHP | 1 | 1708.500 | -21.56 | -13 | Pass |
| 1709 | 1710 | 0.16 | / | 2 | 1709.970 | -26.12 | -13 | Pass |
| 1710 | 1725 | 0.16 | / | / | / | / | / | / |

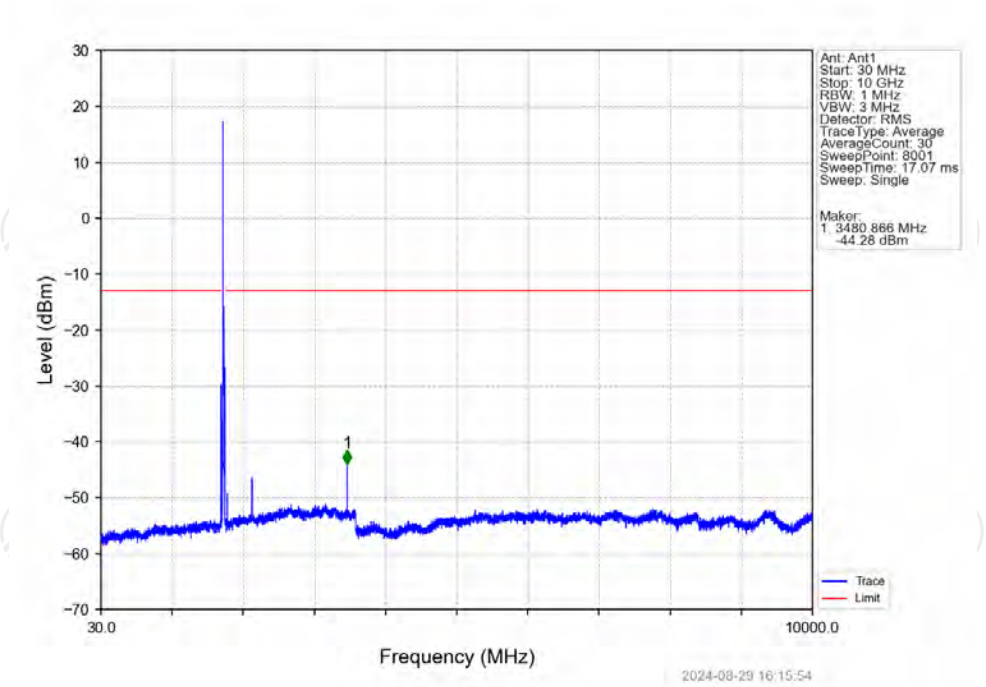
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



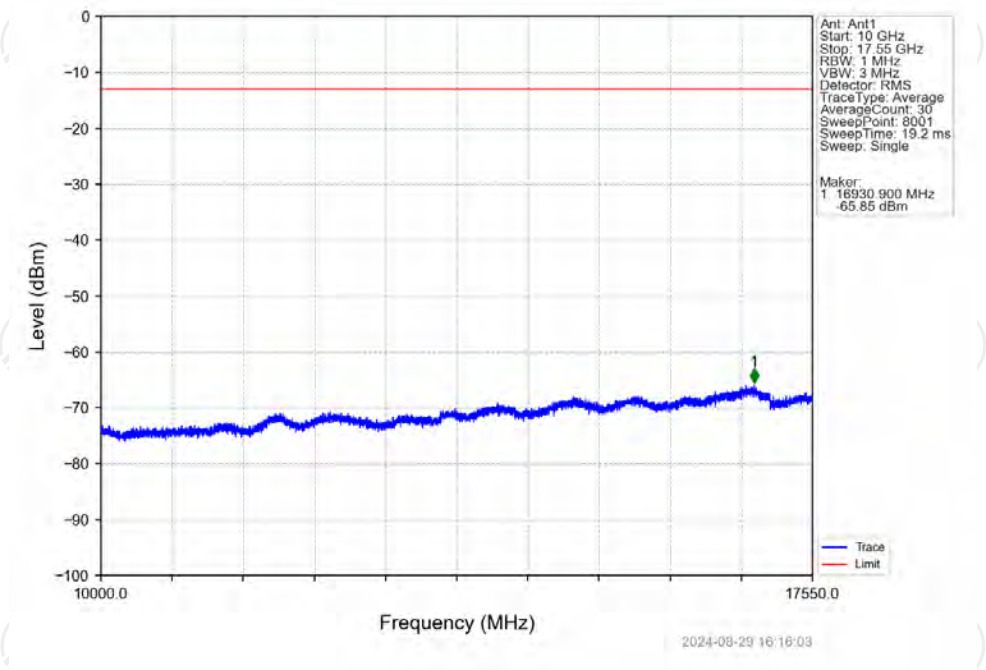

Band4_15MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



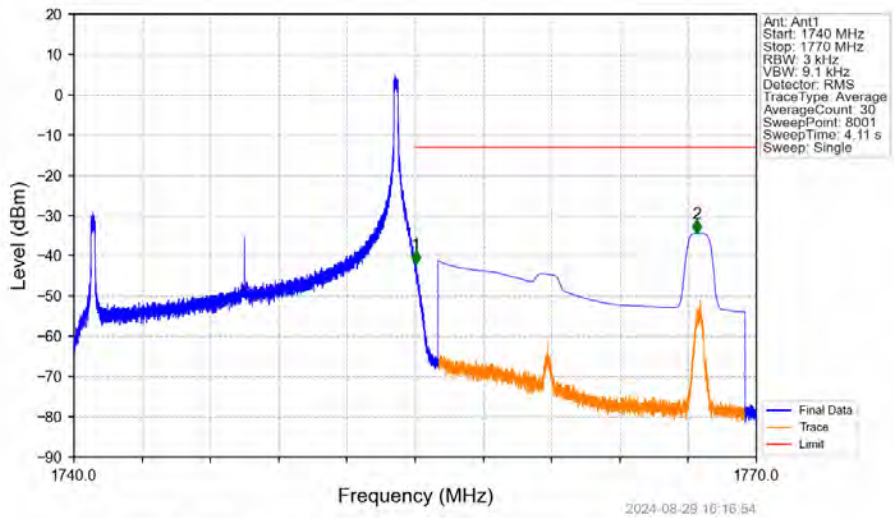
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_0_NTNV




Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_0_NTNV

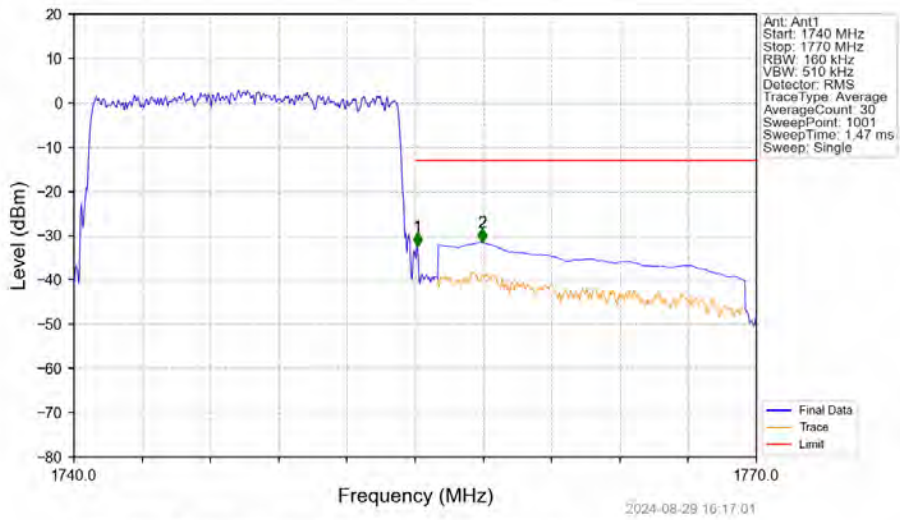


Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_74_NTNV



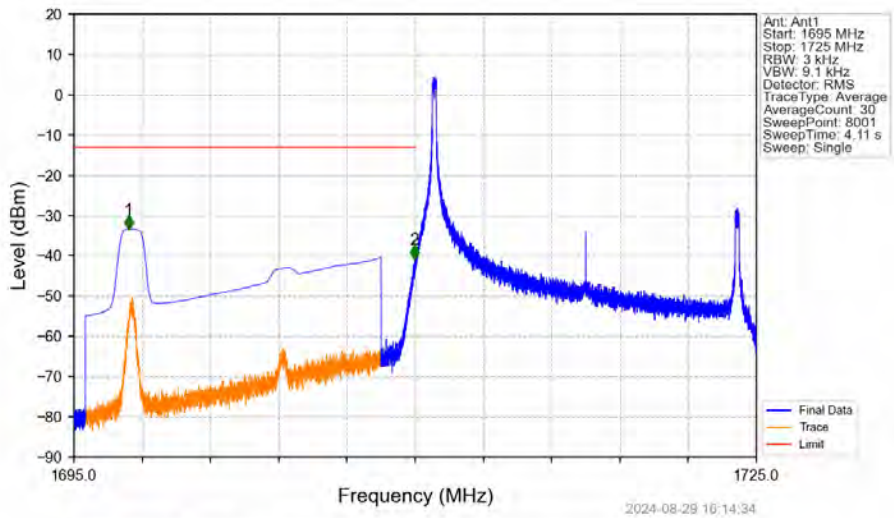

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1740 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.034 | -42.07 | -13 | Pass |
| 1756 | 1770 | 1 | CHP | 2 | 1767.368 | -34.48 | -13 | Pass |

Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



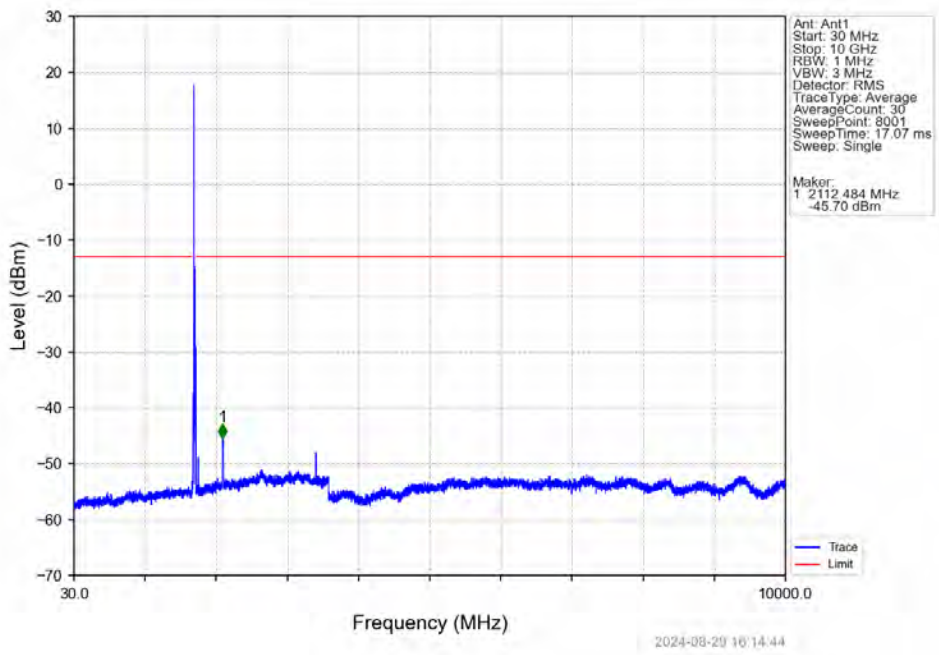

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1740 | 1755 | 0.16 | / | / | / | / | / | / |
| 1755 | 1756 | 0.16 | / | 1 | 1755.090 | -32.36 | -13 | Pass |
| 1756 | 1770 | 1 | CHP | 2 | 1757.940 | -31.52 | -13 | Pass |

Band4_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV

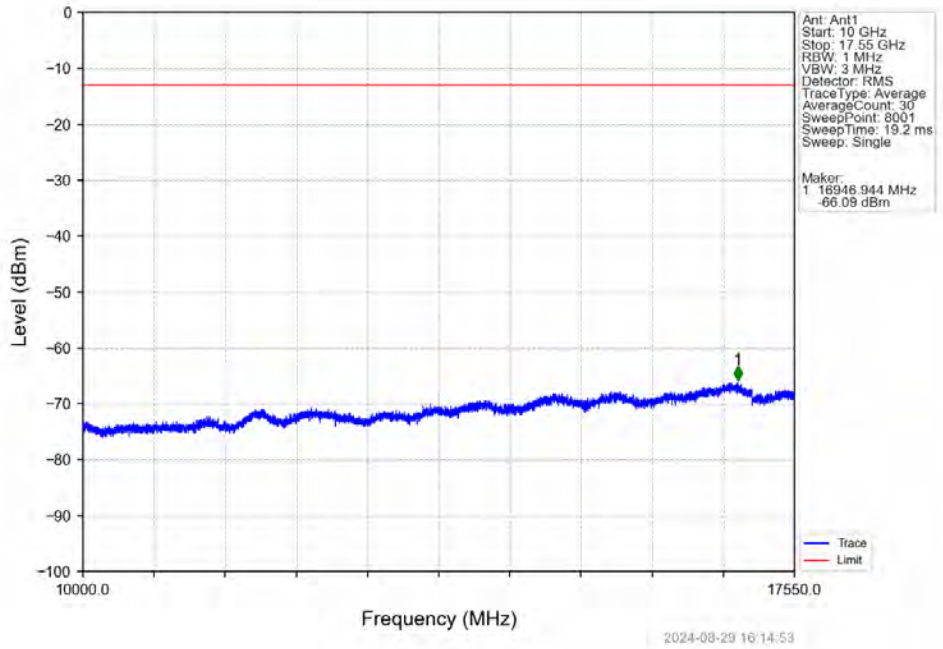



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1695 | 1709 | 1 | CHP | 1 | 1697.408 | -33.45 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.981 | -40.82 | -13 | Pass |
| 1710 | 1725 | 0.003 | / | / | / | / | / | / |

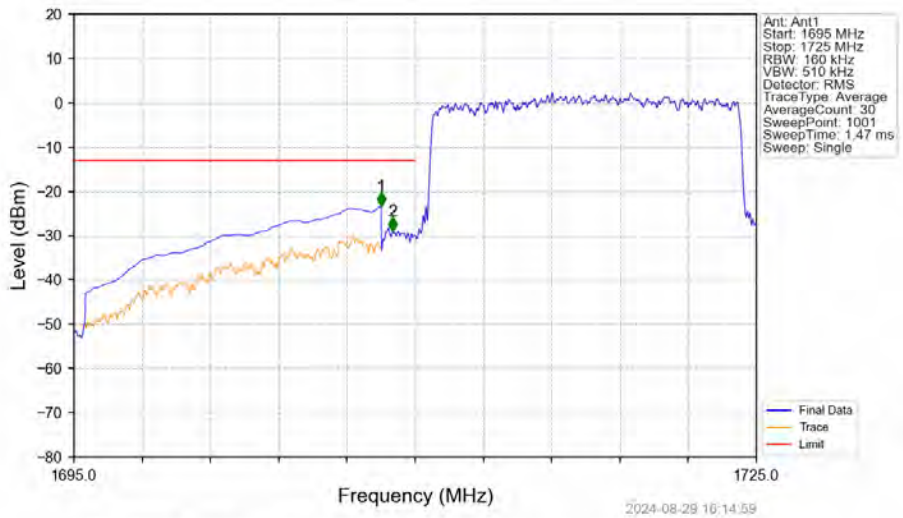
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV



Band4_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV

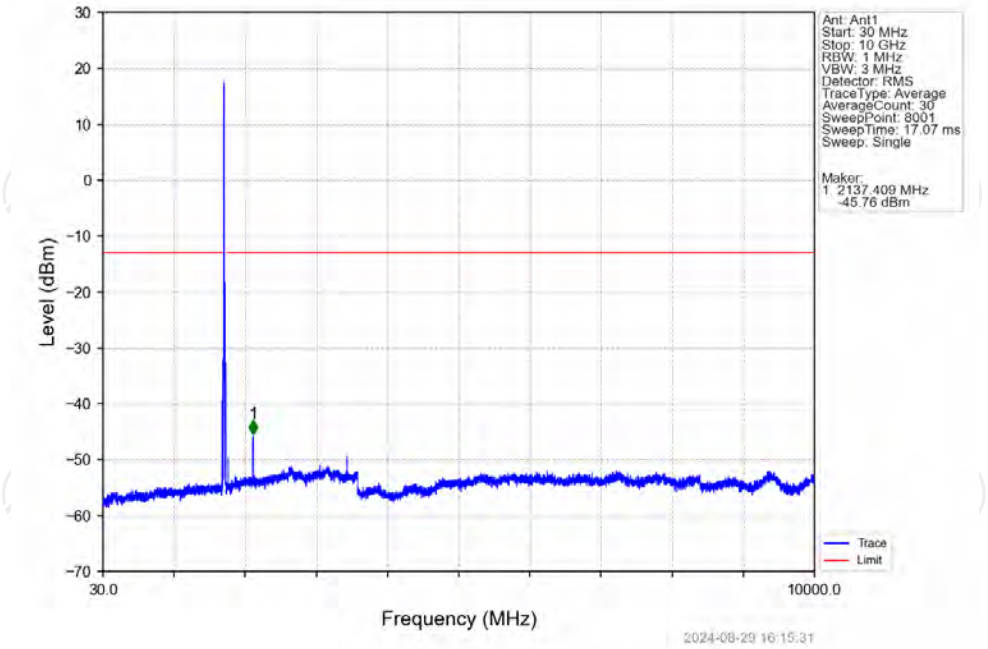



Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV

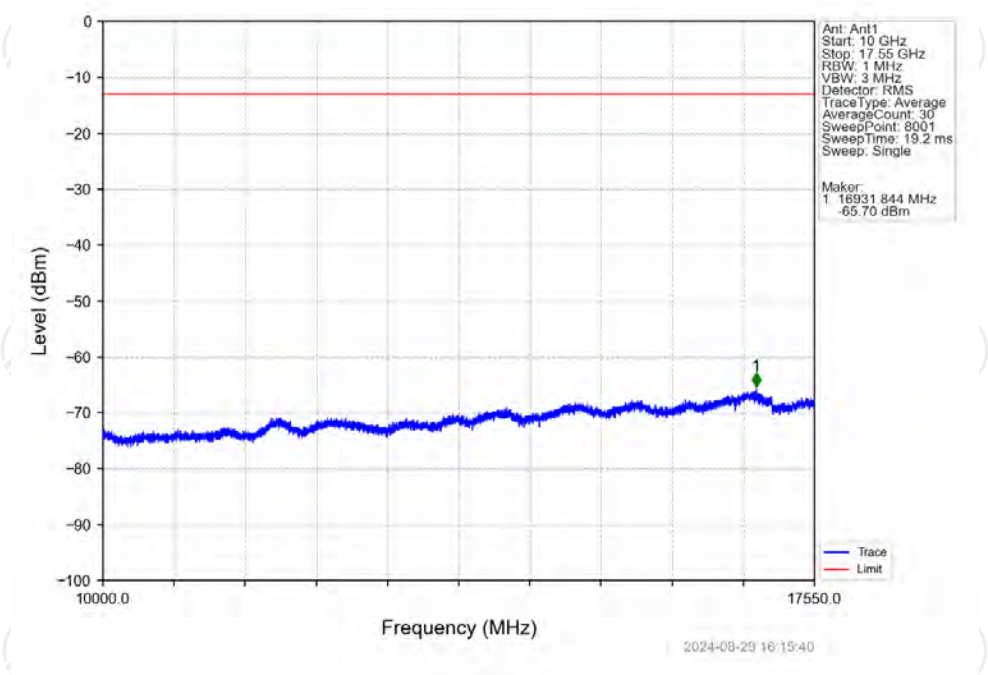



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1695 | 1709 | 1 | CHP | 1 | 1708.500 | -23.27 | -13 | Pass |
| 1709 | 1710 | 0.16 | / | 2 | 1709.010 | -28.96 | -13 | Pass |
| 1710 | 1725 | 0.16 | / | / | / | / | / | / |

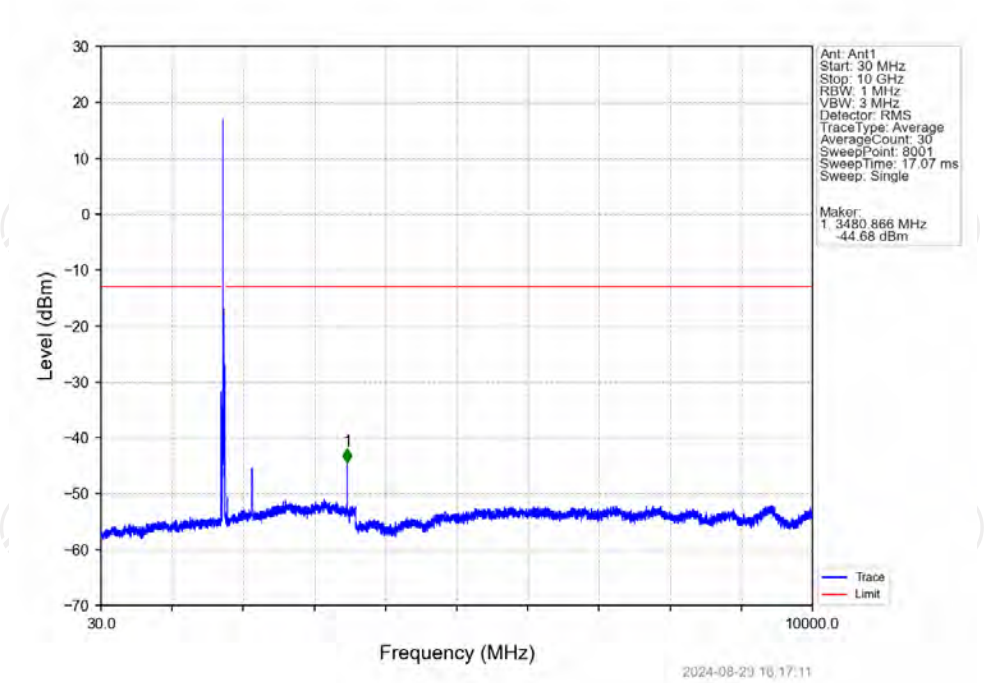
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



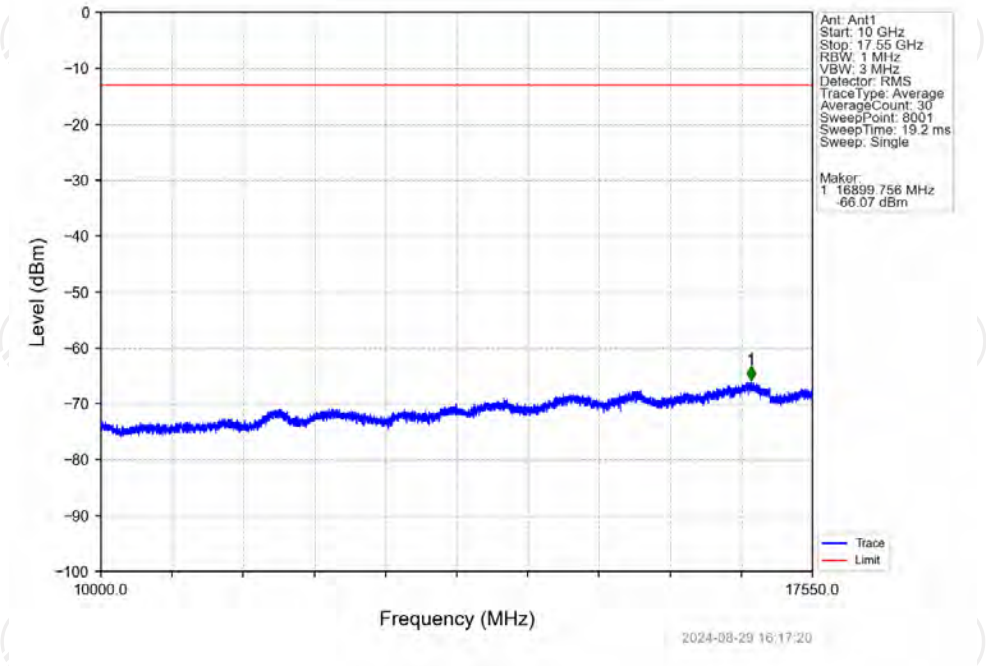

Band4_15MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



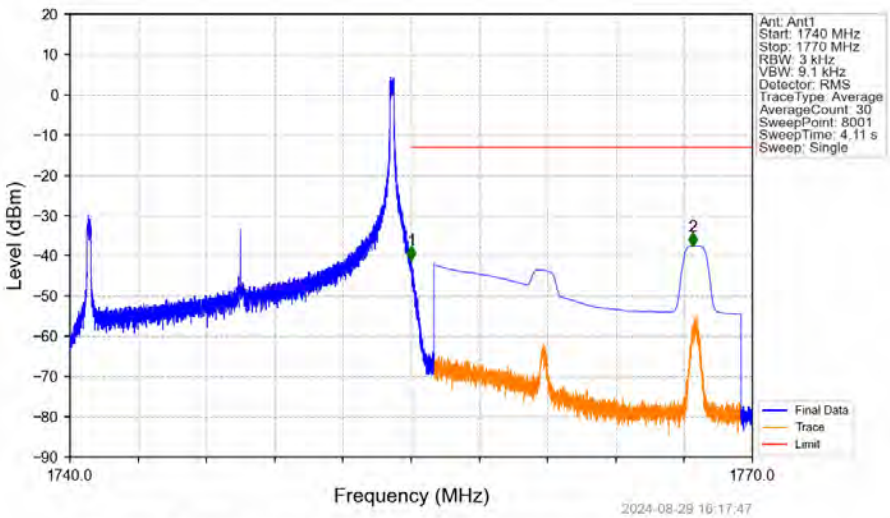
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_1_0_NTNV




Band4_15MHz_16QAM_HCH_1747.5MHz_RB_1_0_NTNV

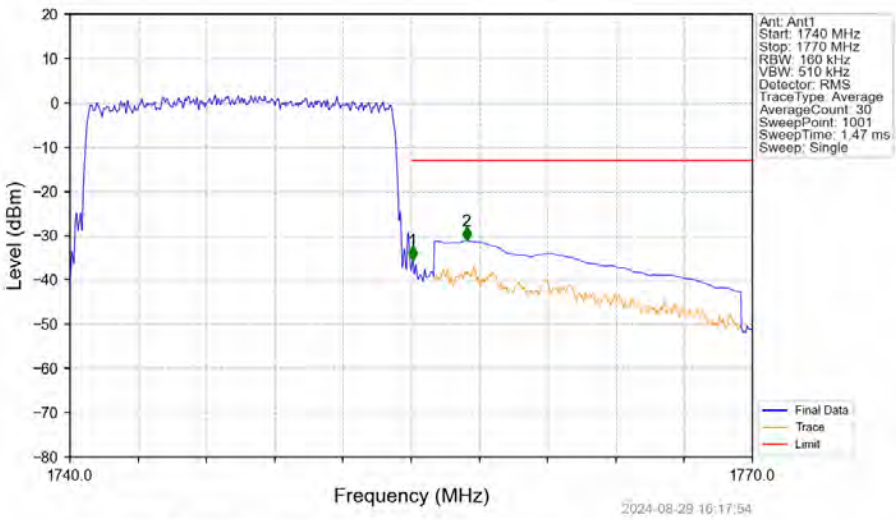


Band4_15MHz_16QAM_HCH_1747.5MHz_RB_1_74_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1740 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.004 | -41.07 | -13 | Pass |
| 1756 | 1770 | 1 | CHP | 2 | 1767.390 | -37.57 | -13 | Pass |

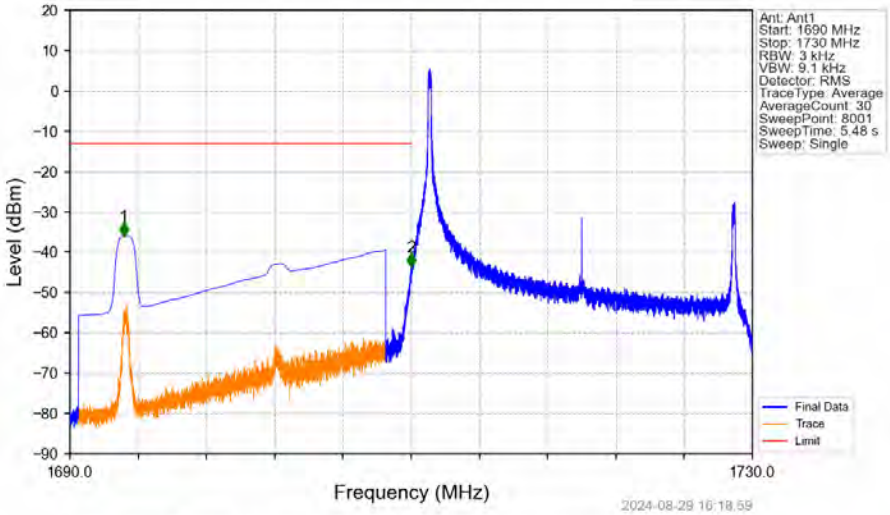
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1740 | 1755 | 0.16 | / | / | / | / | / | / |
| 1755 | 1756 | 0.16 | / | 1 | 1755.060 | -35.49 | -13 | Pass |
| 1756 | 1770 | 1 | CHP | 2 | 1757.430 | -31.11 | -13 | Pass |

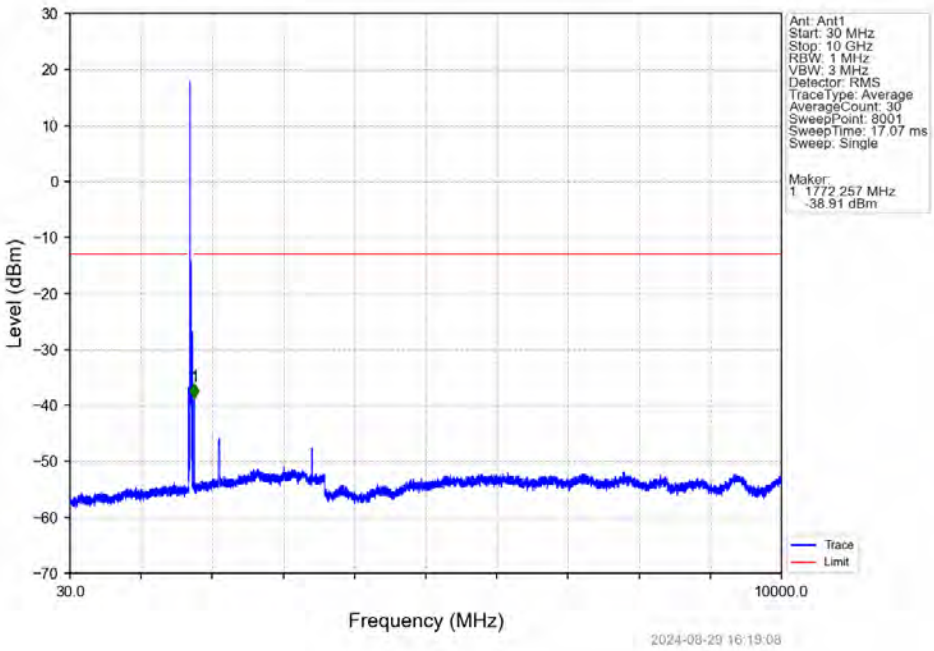
## 6.2.6 B4_20MHz

Band4_20MHz_QPSK_LCH_1720MHz_RB_1_0_NTNV

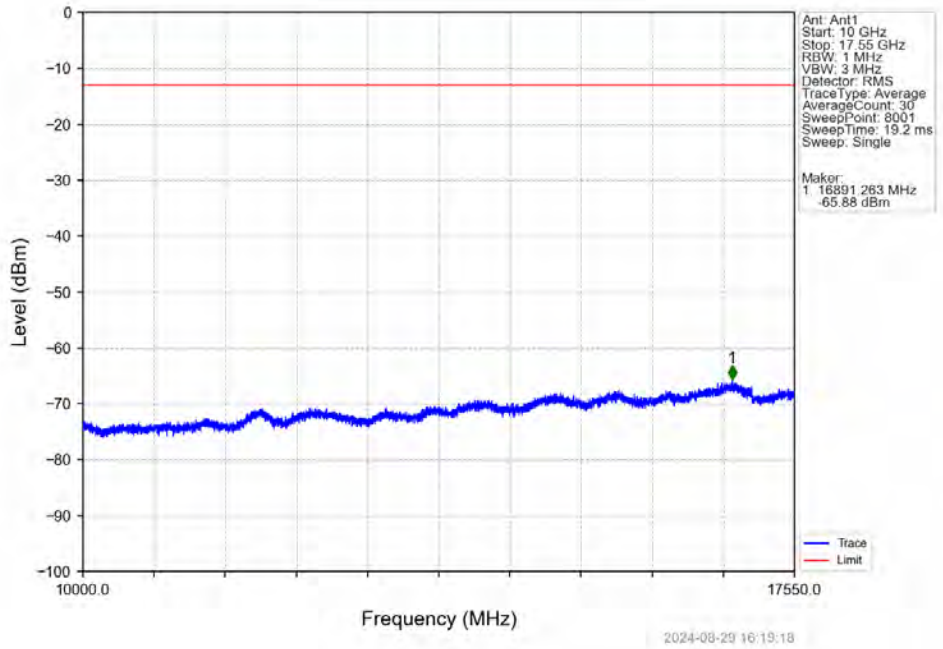



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1690 | 1709 | 1 | CHP | 1 | 1693.170 | -36.13 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.995 | -43.75 | -13 | Pass |
| 1710 | 1730 | 0.003 | / | / | / | / | / | / |

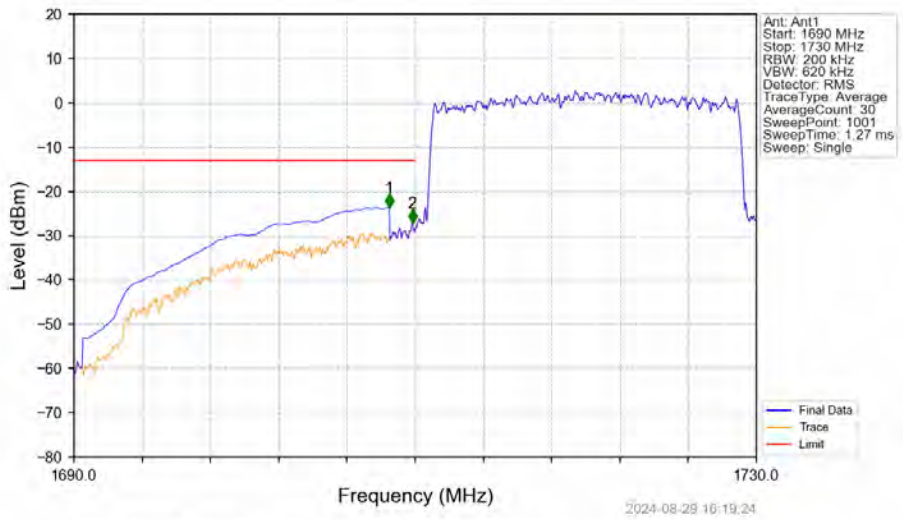
Band4_20MHz_QPSK_LCH_1720MHz_RB_1_0_NTNV



Band4_20MHz_QPSK_LCH_1720MHz_RB_1_0_NTNV

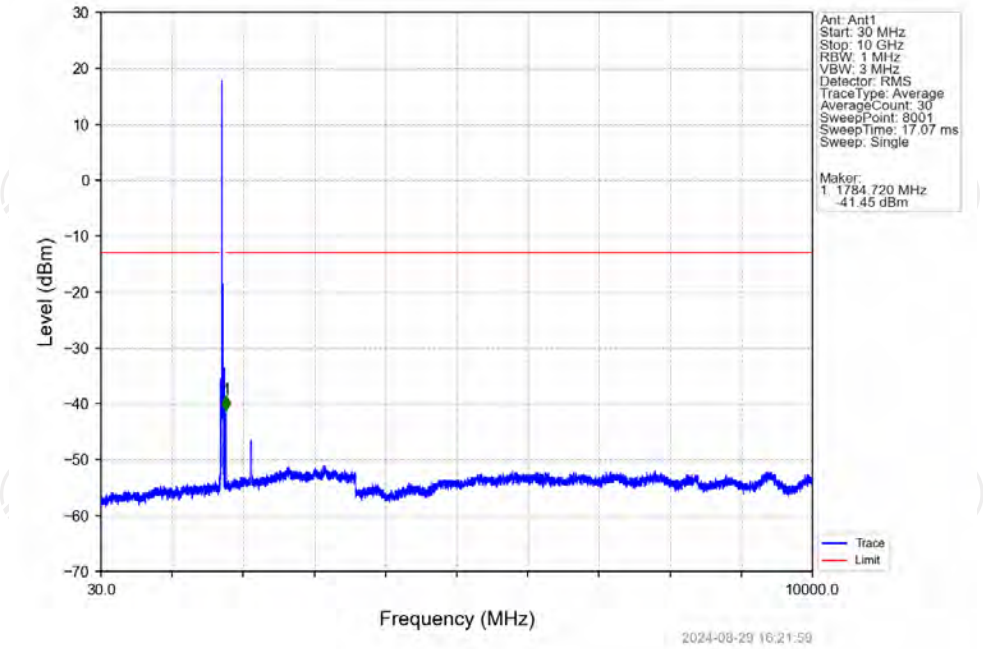



Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV

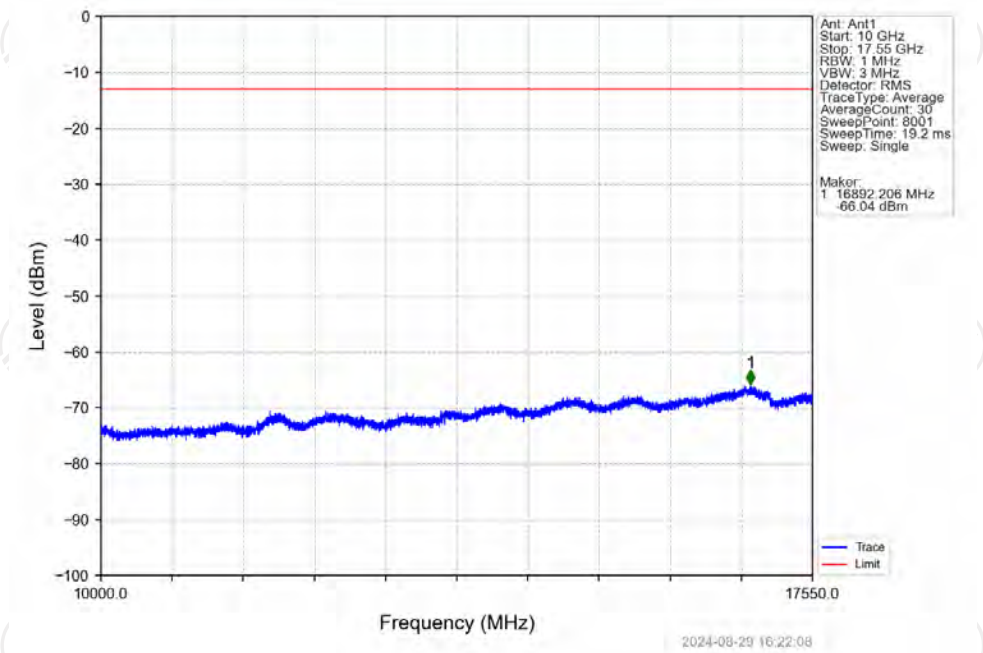



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1690 | 1709 | 1 | CHP | 1 | 1708.480 | -23.59 | -13 | Pass |
| 1709 | 1710 | 0.2 | / | 2 | 1709.840 | -27.09 | -13 | Pass |
| 1710 | 1730 | 0.2 | / | / | / | / | / | / |

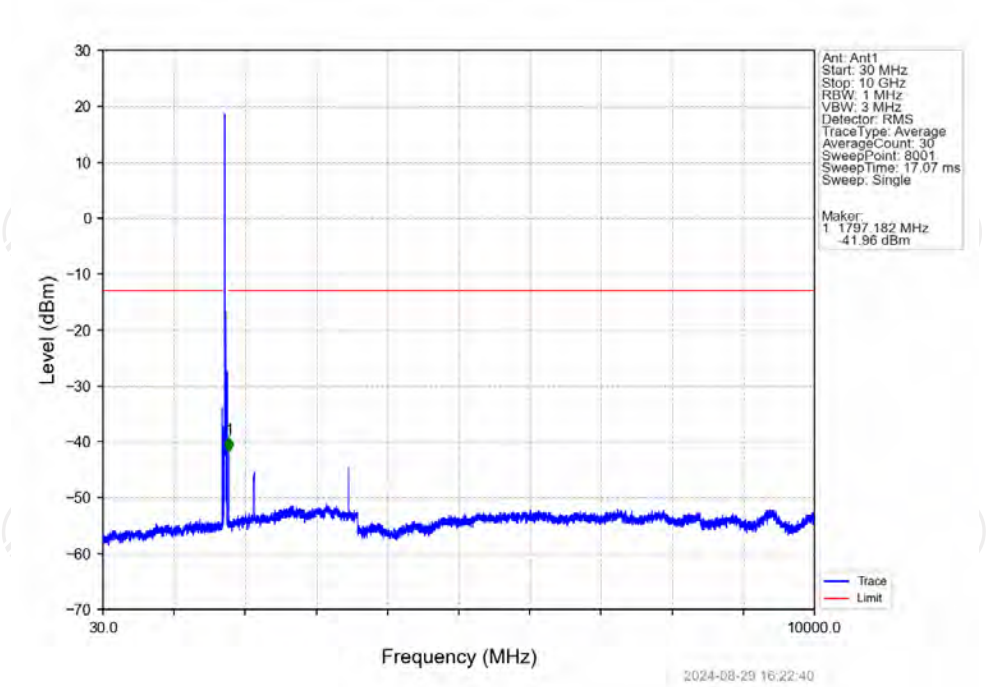
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



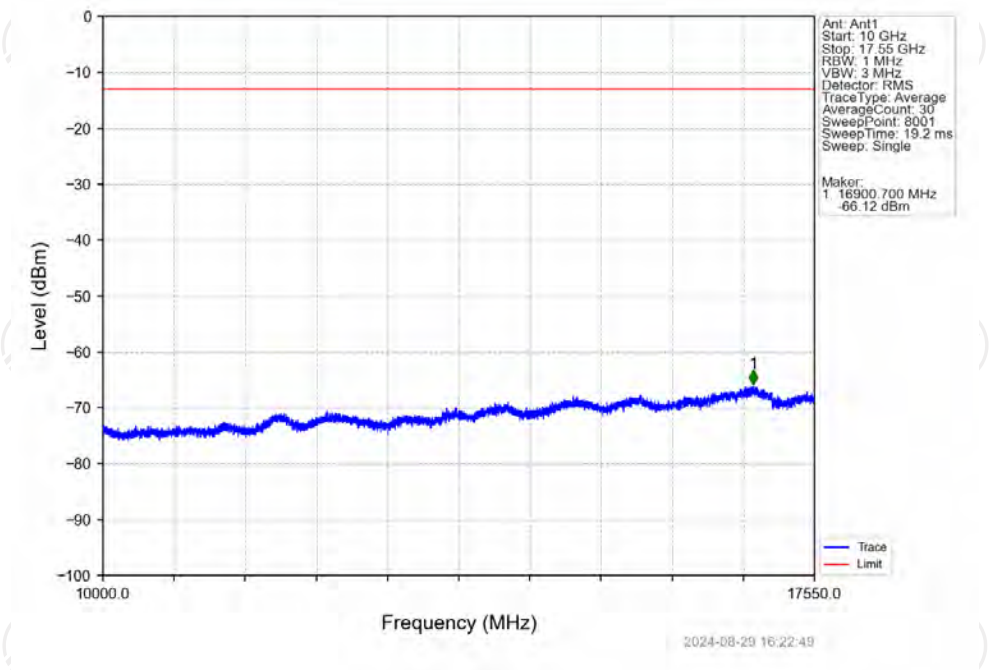

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



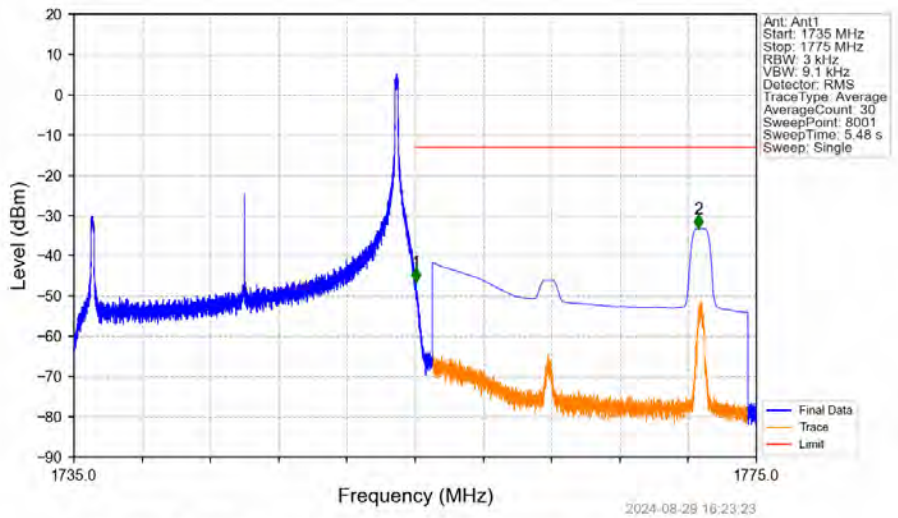
Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV




Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV

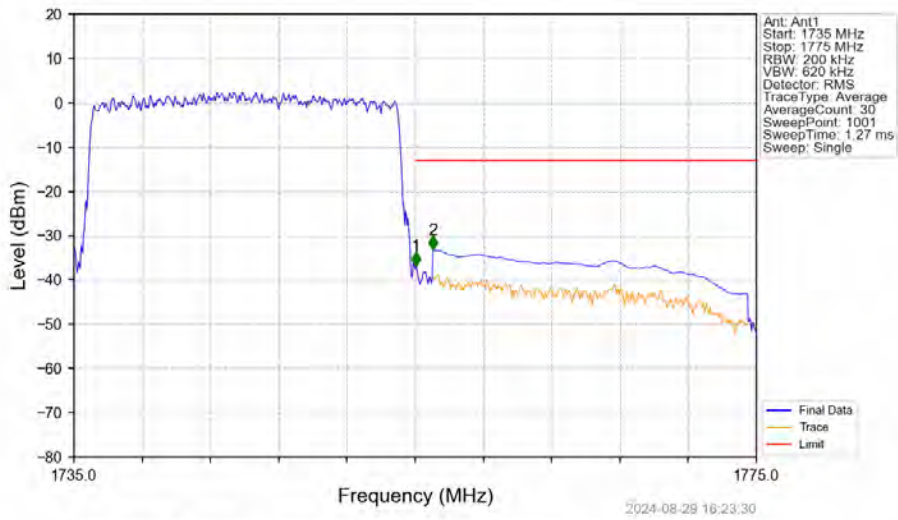


Band4_20MHz_QPSK_HCH_1745MHz_RB_1_99_NTNV



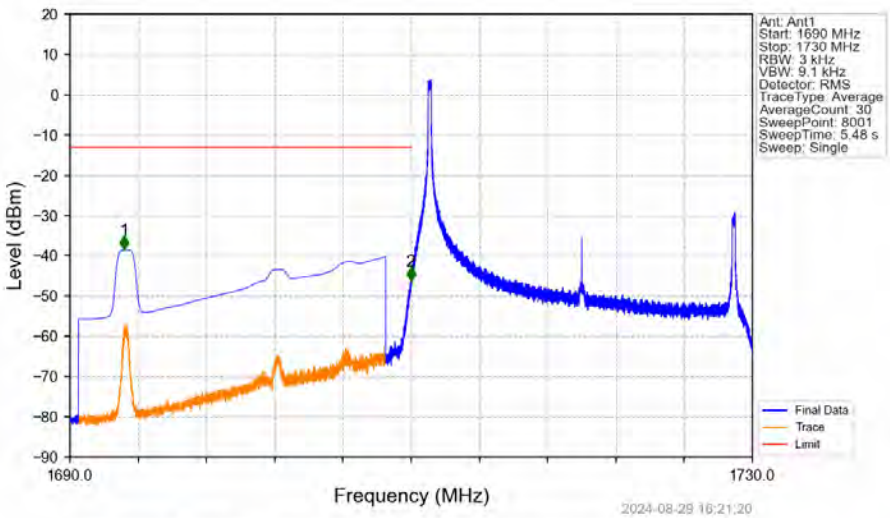

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1735 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.035 | -46.49 | -13 | Pass |
| 1756 | 1775 | 1 | CHP | 2 | 1771.600 | -33.23 | -13 | Pass |

Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



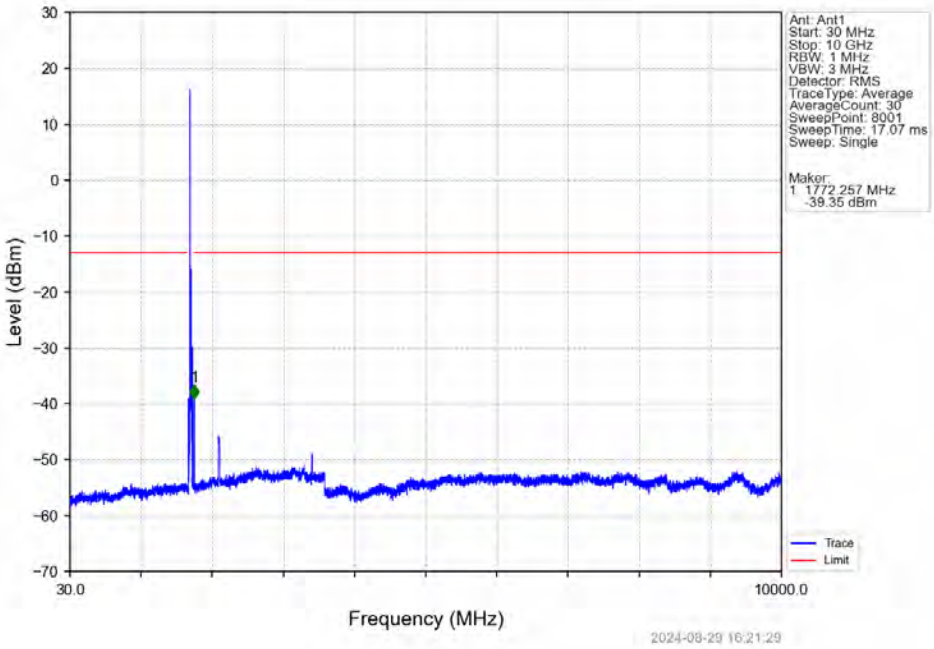

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1735 | 1755 | 0.2 | / | / | / | / | / | / |
| 1755 | 1756 | 0.2 | / | 1 | 1755.040 | -36.85 | -13 | Pass |
| 1756 | 1775 | 1 | CHP | 2 | 1756.040 | -33.06 | -13 | Pass |

Band4_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV

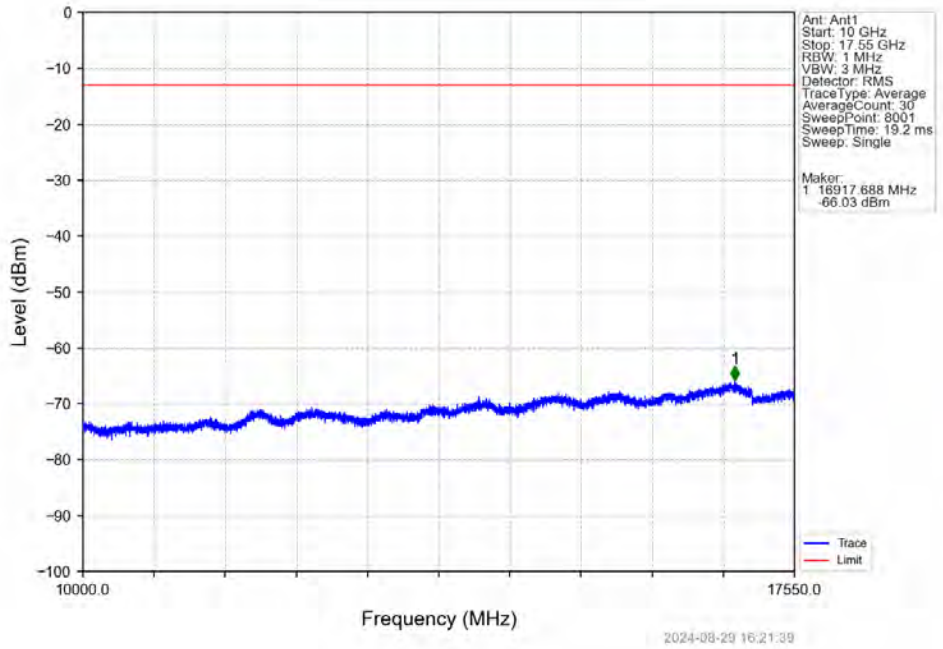



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1690 | 1709 | 1 | CHP | 1 | 1693.190 | -38.54 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.980 | -46.25 | -13 | Pass |
| 1710 | 1730 | 0.003 | / | / | / | / | / | / |

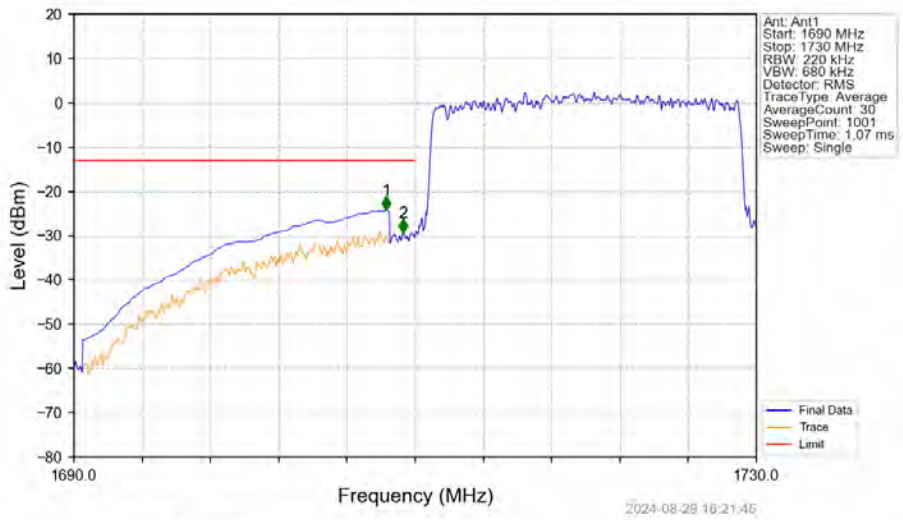
Band4_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV



Band4_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV

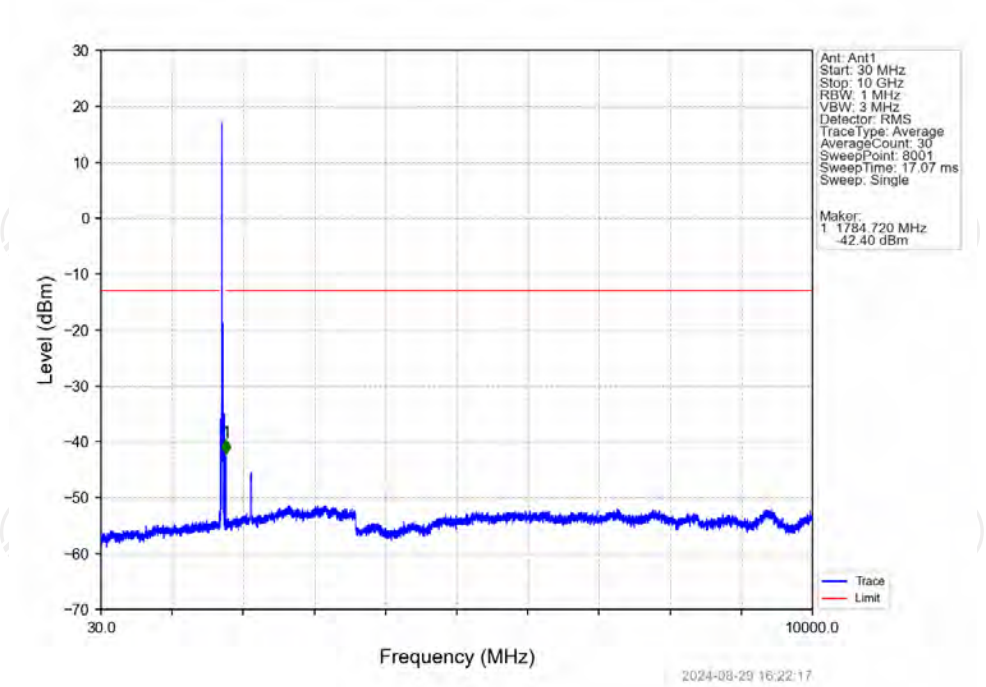



Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV

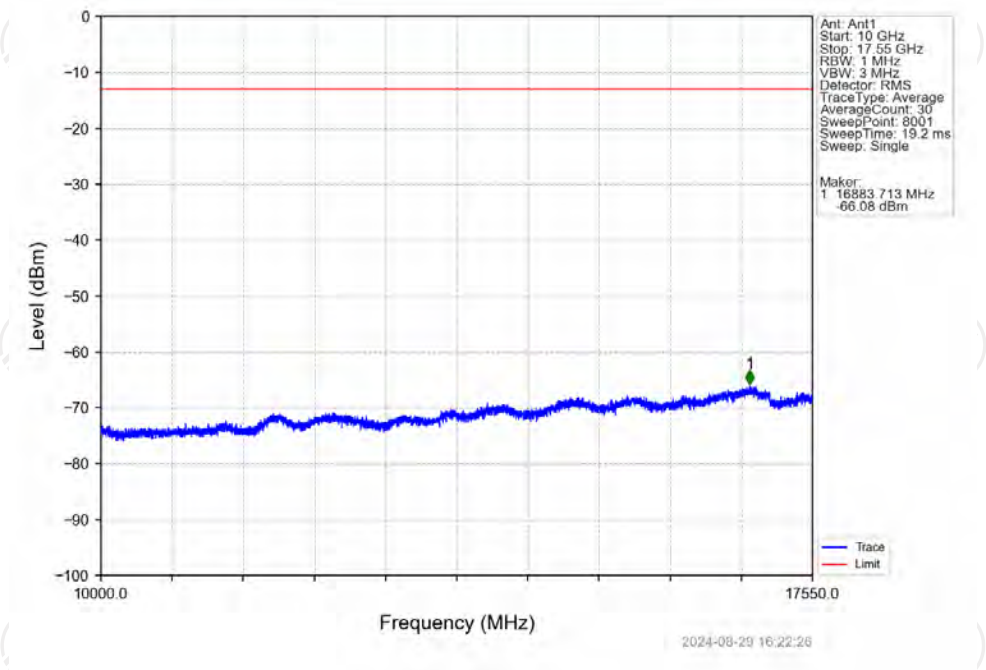



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1690 | 1709 | 1 | CHP | 1 | 1708.320 | -24.29 | -13 | Pass |
| 1709 | 1710 | 0.22 | / | 2 | 1709.280 | -29.39 | -13 | Pass |
| 1710 | 1730 | 0.22 | / | / | / | / | / | / |

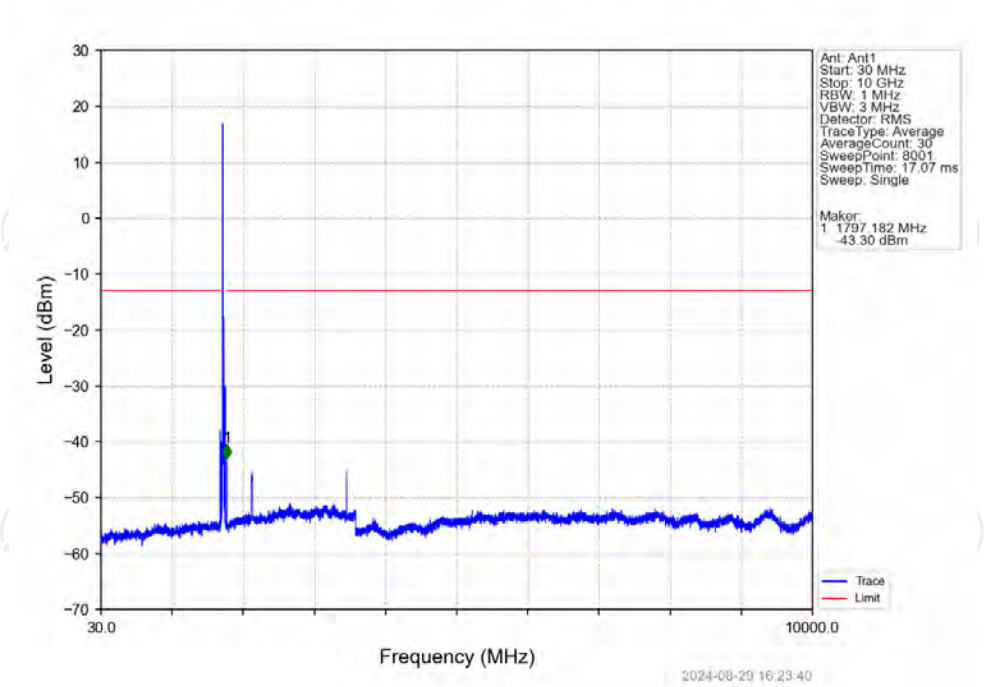
Band4_20MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



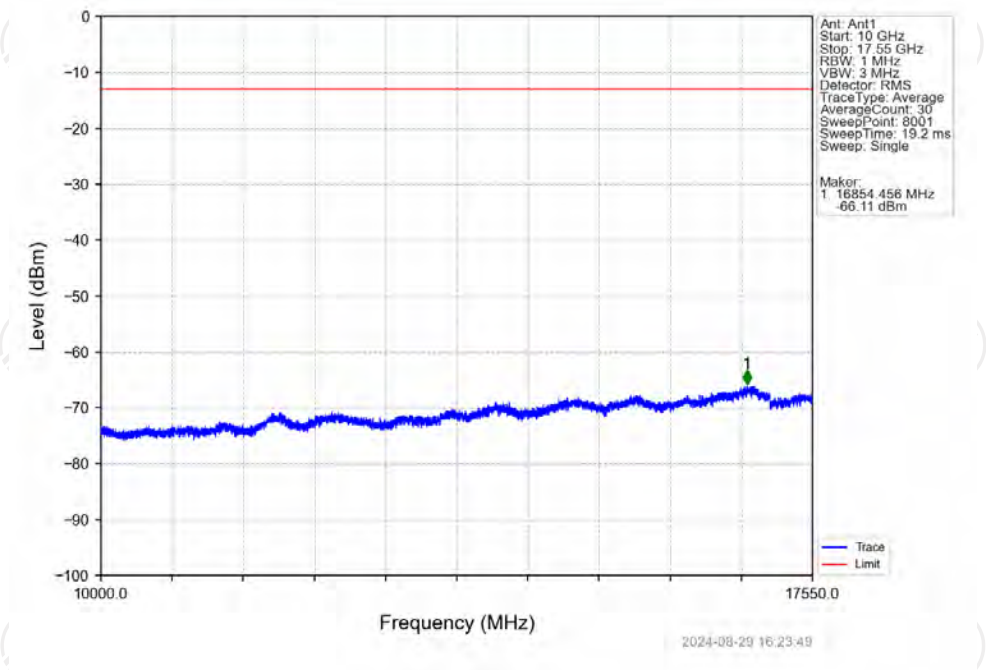

Band4_20MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



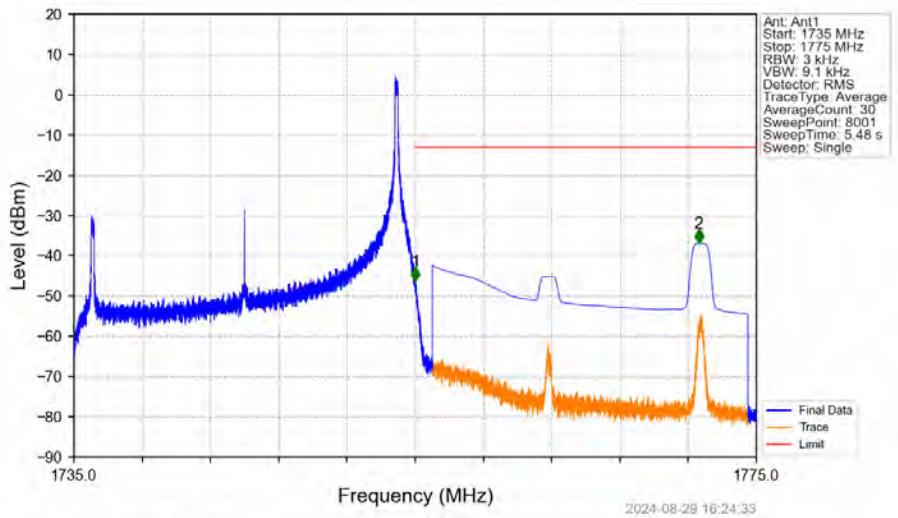
Band4_20MHz_16QAM_HCH_1745MHz_RB_1_0_NTNV




Band4_20MHz_16QAM_HCH_1745MHz_RB_1_0_NTNV

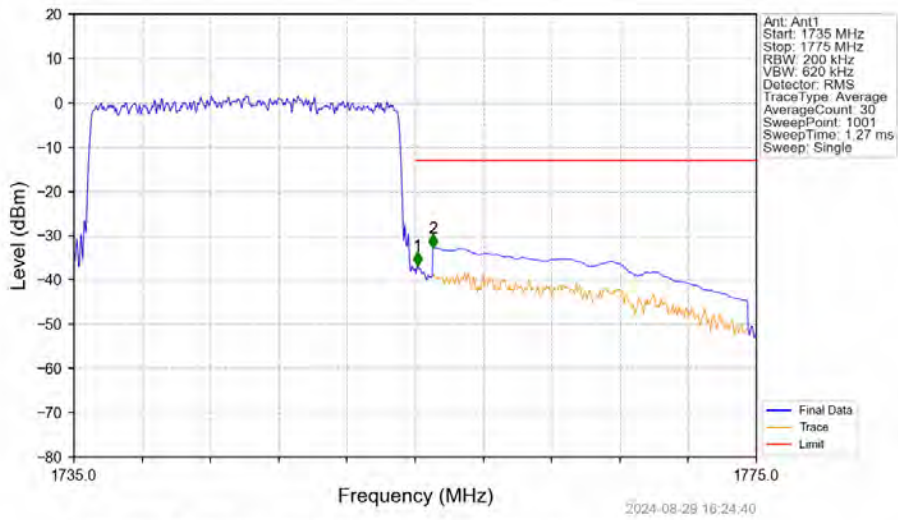


Band4_20MHz_16QAM_HCH_1745MHz_RB_1_99_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1735 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.005 | -46.33 | -13 | Pass |
| 1756 | 1775 | 1 | CHP | 2 | 1771.620 | -36.88 | -13 | Pass |

Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1735 | 1755 | 0.2 | / | / | / | / | / | / |
| 1755 | 1756 | 0.2 | / | 1 | 1755.120 | -36.86 | -13 | Pass |
| 1756 | 1775 | 1 | CHP | 2 | 1756.040 | -32.73 | -13 | Pass |

# 7. Form731

## 7.1 Test Result

### 7.1.1 Form731_Power

| Band | BW | Lower Freq | High Freq | MAX Power (W) | Value | Hz/ppm | Emission Designator | Rule Parts | MAX Power (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 1.4 | 1710.7 | 1754.3 | 0.1148 | 0.0016 | ppm | 1M11G7D | 27L | 20.60 |
| 4 | 1.4 | 1710.7 | 1754.3 | 0.1005 | 0.0014 | ppm | 1M11W7D | 27L | 20.02 |
| 4 | 3 | 1711.5 | 1753.5 | 0.1143 | 0.0011 | ppm | 2M72G7D | 27L | 20.58 |
| 4 | 3 | 1711.5 | 1753.5 | 0.1119 | 0.0011 | ppm | 2M72W7D | 27L | 20.49 |
| 4 | 5 | 1712.5 | 1752.5 | 0.1169 | 0.0017 | ppm | 4M57G7D | 27L | 20.68 |
| 4 | 5 | 1712.5 | 1752.5 | 0.0873 | 0.0013 | ppm | 4M59W7D | 27L | 19.41 |
| 4 | 10 | 1715 | 1750 | 0.1132 | 0.0019 | ppm | 9M11G7D | 27L | 20.54 |
| 4 | 10 | 1715 | 1750 | 0.0998 | 0.0007 | ppm | 9M08W7D | 27L | 19.99 |
| 4 | 15 | 1717.5 | 1747.5 | 0.1140 | 0.0015 | ppm | 13M6G7D | 27L | 20.57 |
| 4 | 15 | 1717.5 | 1747.5 | 0.1132 | 0.0012 | ppm | 13M6W7D | 27L | 20.54 |
| 4 | 20 | 1720 | 1745 | 0.1132 | 0.0009 | ppm | 18M1G7D | 27L | 20.54 |
| 4 | 20 | 1720 | 1745 | 0.1089 | 0.0009 | ppm | 18M1W7D | 27L | 20.37 |

### 7.1.2 Form731_EIRP

| Band | BW | Lower Freq | High Freq | MAX Power (W) | Value | Hz/ppm | Emission Designator | Rule Parts | MAX Power (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 1.4 | 1710.7 | 1754.3 | 0.1330 | 0.0016 | ppm | 1M11G7D | 27L | 21.24 |
| 4 | 1.4 | 1710.7 | 1754.3 | 0.1164 | 0.0014 | ppm | 1M11W7D | 27L | 20.66 |
| 4 | 3 | 1711.5 | 1753.5 | 0.1324 | 0.0011 | ppm | 2M72G7D | 27L | 21.22 |
| 4 | 3 | 1711.5 | 1753.5 | 0.1297 | 0.0011 | ppm | 2M72W7D | 27L | 21.13 |
| 4 | 5 | 1712.5 | 1752.5 | 0.1355 | 0.0017 | ppm | 4M57G7D | 27L | 21.32 |
| 4 | 5 | 1712.5 | 1752.5 | 0.1012 | 0.0013 | ppm | 4M59W7D | 27L | 20.05 |
| 4 | 10 | 1715 | 1750 | 0.1312 | 0.0019 | ppm | 9M11G7D | 27L | 21.18 |
| 4 | 10 | 1715 | 1750 | 0.1156 | 0.0007 | ppm | 9M08W7D | 27L | 20.63 |
| 4 | 15 | 1717.5 | 1747.5 | 0.1321 | 0.0015 | ppm | 13M6G7D | 27L | 21.21 |
| 4 | 15 | 1717.5 | 1747.5 | 0.1312 | 0.0012 | ppm | 13M6W7D | 27L | 21.18 |
| 4 | 20 | 1720 | 1745 | 0.1312 | 0.0009 | ppm | 18M1G7D | 27L | 21.18 |
| 4 | 20 | 1720 | 1745 | 0.1262 | 0.0009 | ppm | 18M1W7D | 27L | 21.01 |