# 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 | 23.85 | -2.13 | 21.72 | <=30 | Pass |
| | | | 2 | 23.82 | -2.13 | 21.69 | <=30 | Pass |
| | | | 5 | 23.84 | -2.13 | 21.71 | <=30 | Pass |
| | | 3 | 0 | 23.89 | -2.13 | 21.76 | <=30 | Pass |
| | | | 2 | 23.84 | -2.13 | 21.71 | <=30 | Pass |
| | | | 3 | 23.82 | -2.13 | 21.69 | <=30 | Pass |
| | | 6 | 0 | 22.77 | -2.13 | 20.64 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 23.80 | -2.13 | 21.67 | <=30 | Pass |
| | | | 2 | 23.83 | -2.13 | 21.70 | <=30 | Pass |
| | | | 5 | 23.84 | -2.13 | 21.71 | <=30 | Pass |
| | | 3 | 0 | 23.69 | -2.13 | 21.56 | <=30 | Pass |
| | | | 2 | 23.74 | -2.13 | 21.61 | <=30 | Pass |
| | | | 3 | 23.69 | -2.13 | 21.56 | <=30 | Pass |
| | | 6 | 0 | 22.72 | -2.13 | 20.59 | <=30 | Pass |
| | 1754.3 | 1 | 0 | 23.95 | -2.13 | 21.82 | <=30 | Pass |
| | | | 2 | 23.99 | -2.13 | 21.86 | <=30 | Pass |
| | | | 5 | 24.02 | -2.13 | 21.89 | <=30 | Pass |
| | | 3 | 0 | 23.96 | -2.13 | 21.83 | <=30 | Pass |
| | | | 2 | 24.01 | -2.13 | 21.88 | <=30 | Pass |
| | | | 3 | 23.94 | -2.13 | 21.81 | <=30 | Pass |
| | | 6 | 0 | 22.93 | -2.13 | 20.80 | <=30 | Pass |
| 16QAM | 1710.7 | 1 | 0 | 22.85 | -2.13 | 20.72 | <=30 | Pass |
| | | | 2 | 22.84 | -2.13 | 20.71 | <=30 | Pass |
| | | | 5 | 22.86 | -2.13 | 20.73 | <=30 | Pass |
| | | 3 | 0 | 22.71 | -2.13 | 20.58 | <=30 | Pass |
| | | | 2 | 22.71 | -2.13 | 20.58 | <=30 | Pass |
| | | | 3 | 22.68 | -2.13 | 20.55 | <=30 | Pass |
| | | 6 | 0 | 21.84 | -2.13 | 19.71 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 23.44 | -2.13 | 21.31 | <=30 | Pass |
| | | | 2 | 23.48 | -2.13 | 21.35 | <=30 | Pass |
| | | | 5 | 23.53 | -2.13 | 21.40 | <=30 | Pass |
| | | 3 | 0 | 22.85 | -2.13 | 20.72 | <=30 | Pass |
| | | | 2 | 22.92 | -2.13 | 20.79 | <=30 | Pass |
| | | | 3 | 22.89 | -2.13 | 20.76 | <=30 | Pass |
| | | 6 | 0 | 21.90 | -2.13 | 19.77 | <=30 | Pass |
| | 1754.3 | 1 | 0 | 23.59 | -2.13 | 21.46 | <=30 | Pass |
| | | | 2 | 23.61 | -2.13 | 21.48 | <=30 | Pass |
| | | | 5 | 23.60 | -2.13 | 21.47 | <=30 | Pass |
| | | 3 | 0 | 22.59 | -2.13 | 20.46 | <=30 | Pass |
| | | | 2 | 22.65 | -2.13 | 20.52 | <=30 | Pass |
| | | | 3 | 22.59 | -2.13 | 20.46 | <=30 | Pass |
| | | 6 | 0 | 21.92 | -2.13 | 19.79 | <=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 | 23.74 | -2.13 | 21.61 | <=30 | Pass |
| | | | 7 | 23.78 | -2.13 | 21.65 | <=30 | Pass |
| | | | 14 | 23.70 | -2.13 | 21.57 | <=30 | Pass |
| | | 8 | 0 | 22.82 | -2.13 | 20.69 | <=30 | Pass |
| | | | 4 | 22.85 | -2.13 | 20.72 | <=30 | Pass |
| | | | 7 | 22.81 | -2.13 | 20.68 | <=30 | Pass |
| | | 15 | 0 | 22.82 | -2.13 | 20.69 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 23.67 | -2.13 | 21.54 | <=30 | Pass |
| | | | 7 | 23.66 | -2.13 | 21.53 | <=30 | Pass |
| | | | 14 | 23.71 | -2.13 | 21.58 | <=30 | Pass |
| | | 8 | 0 | 22.76 | -2.13 | 20.63 | <=30 | Pass |
| | | | 4 | 22.68 | -2.13 | 20.55 | <=30 | Pass |
| | | | 7 | 22.74 | -2.13 | 20.61 | <=30 | Pass |
| | | 15 | 0 | 22.77 | -2.13 | 20.64 | <=30 | Pass |
| | 1753.5 | 1 | 0 | 23.79 | -2.13 | 21.66 | <=30 | Pass |
| | | | 7 | 23.82 | -2.13 | 21.69 | <=30 | Pass |
| | | | 14 | 23.83 | -2.13 | 21.70 | <=30 | Pass |
| | | 8 | 0 | 22.90 | -2.13 | 20.77 | <=30 | Pass |
| | | | 4 | 22.93 | -2.13 | 20.80 | <=30 | Pass |
| | | | 7 | 22.88 | -2.13 | 20.75 | <=30 | Pass |
| | | 15 | 0 | 22.90 | -2.13 | 20.77 | <=30 | Pass |
| 16QAM | 1711.5 | 1 | 0 | 23.59 | -2.13 | 21.46 | <=30 | Pass |
| | | | 7 | 23.58 | -2.13 | 21.45 | <=30 | Pass |
| | | | 14 | 23.50 | -2.13 | 21.37 | <=30 | Pass |
| | | 8 | 0 | 22.07 | -2.13 | 19.94 | <=30 | Pass |
| | | | 4 | 22.15 | -2.13 | 20.02 | <=30 | Pass |
| | | | 7 | 22.14 | -2.13 | 20.01 | <=30 | Pass |
| | | 15 | 0 | 21.95 | -2.13 | 19.82 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 23.01 | -2.13 | 20.88 | <=30 | Pass |
| | | | 7 | 22.99 | -2.13 | 20.86 | <=30 | Pass |
| | | | 14 | 23.02 | -2.13 | 20.89 | <=30 | Pass |
| | | 8 | 0 | 21.97 | -2.13 | 19.84 | <=30 | Pass |
| | | | 4 | 21.99 | -2.13 | 19.86 | <=30 | Pass |
| | | | 7 | 21.99 | -2.13 | 19.86 | <=30 | Pass |
| | | 15 | 0 | 21.84 | -2.13 | 19.71 | <=30 | Pass |
| | 1753.5 | 1 | 0 | 23.68 | -2.13 | 21.55 | <=30 | Pass |
| | | | 7 | 23.74 | -2.13 | 21.61 | <=30 | Pass |
| | | | 14 | 23.67 | -2.13 | 21.54 | <=30 | Pass |
| | | 8 | 0 | 22.08 | -2.13 | 19.95 | <=30 | Pass |
| | | | 4 | 22.10 | -2.13 | 19.97 | <=30 | Pass |
| | | | 7 | 22.11 | -2.13 | 19.98 | <=30 | Pass |
| | | 15 | 0 | 22.00 | -2.13 | 19.87 | <=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 | 23.76 | -2.13 | 21.63 | <=30 | Pass |
| | | | 13 | 23.70 | -2.13 | 21.57 | <=30 | Pass |
| | | | 24 | 23.73 | -2.13 | 21.60 | <=30 | Pass |
| | | 12 | 0 | 22.87 | -2.13 | 20.74 | <=30 | Pass |
| | | | 6 | 22.75 | -2.13 | 20.62 | <=30 | Pass |
| | | | 13 | 22.84 | -2.13 | 20.71 | <=30 | Pass |
| | | 25 | 0 | 22.71 | -2.13 | 20.58 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 23.79 | -2.13 | 21.66 | <=30 | Pass |
| | | | 13 | 23.65 | -2.13 | 21.52 | <=30 | Pass |
| | | | 24 | 23.63 | -2.13 | 21.50 | <=30 | Pass |
| | | 12 | 0 | 22.72 | -2.13 | 20.59 | <=30 | Pass |
| | | | 6 | 22.80 | -2.13 | 20.67 | <=30 | Pass |
| | | | 13 | 22.74 | -2.13 | 20.61 | <=30 | Pass |
| | | 25 | 0 | 22.79 | -2.13 | 20.66 | <=30 | Pass |
| | 1752.5 | 1 | 0 | 23.90 | -2.13 | 21.77 | <=30 | Pass |
| | | | 13 | 23.94 | -2.13 | 21.81 | <=30 | Pass |
| | | | 24 | 23.96 | -2.13 | 21.83 | <=30 | Pass |
| | | 12 | 0 | 22.94 | -2.13 | 20.81 | <=30 | Pass |
| | | | 6 | 22.84 | -2.13 | 20.71 | <=30 | Pass |
| | | | 13 | 22.89 | -2.13 | 20.76 | <=30 | Pass |
| | | 25 | 0 | 22.93 | -2.13 | 20.80 | <=30 | Pass |
| 16QAM | 1712.5 | 1 | 0 | 22.54 | -2.13 | 20.41 | <=30 | Pass |
| | | | 13 | 22.46 | -2.13 | 20.33 | <=30 | Pass |
| | | | 24 | 22.46 | -2.13 | 20.33 | <=30 | Pass |
| | | 12 | 0 | 21.85 | -2.13 | 19.72 | <=30 | Pass |
| | | | 6 | 21.80 | -2.13 | 19.67 | <=30 | Pass |
| | | | 13 | 21.83 | -2.13 | 19.70 | <=30 | Pass |
| | | 25 | 0 | 21.91 | -2.13 | 19.78 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 23.34 | -2.13 | 21.21 | <=30 | Pass |
| | | | 13 | 23.33 | -2.13 | 21.20 | <=30 | Pass |
| | | | 24 | 23.38 | -2.13 | 21.25 | <=30 | Pass |
| | | 12 | 0 | 21.77 | -2.13 | 19.64 | <=30 | Pass |
| | | | 6 | 21.79 | -2.13 | 19.66 | <=30 | Pass |
| | | | 13 | 21.79 | -2.13 | 19.66 | <=30 | Pass |
| | | 25 | 0 | 21.85 | -2.13 | 19.72 | <=30 | Pass |
| | 1752.5 | 1 | 0 | 23.11 | -2.13 | 20.98 | <=30 | Pass |
| | | | 13 | 23.14 | -2.13 | 21.01 | <=30 | Pass |
| | | | 24 | 23.23 | -2.13 | 21.10 | <=30 | Pass |
| | | 12 | 0 | 21.80 | -2.13 | 19.67 | <=30 | Pass |
| | | | 6 | 21.85 | -2.13 | 19.72 | <=30 | Pass |
| | | | 13 | 21.83 | -2.13 | 19.70 | <=30 | Pass |
| | | 25 | 0 | 21.88 | -2.13 | 19.75 | <=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 | 23.87 | -2.13 | 21.74 | <=30 | Pass |
| | | | 25 | 23.82 | -2.13 | 21.69 | <=30 | Pass |
| | | | 49 | 23.81 | -2.13 | 21.68 | <=30 | Pass |
| | | 25 | 0 | 22.85 | -2.13 | 20.72 | <=30 | Pass |
| | | | 13 | 22.86 | -2.13 | 20.73 | <=30 | Pass |
| | | | 25 | 22.80 | -2.13 | 20.67 | <=30 | Pass |
| | | 50 | 0 | 22.87 | -2.13 | 20.74 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 23.80 | -2.13 | 21.67 | <=30 | Pass |
| | | | 25 | 23.79 | -2.13 | 21.66 | <=30 | Pass |
| | | | 49 | 23.83 | -2.13 | 21.70 | <=30 | Pass |
| | | 25 | 0 | 22.74 | -2.13 | 20.61 | <=30 | Pass |
| | | | 13 | 22.70 | -2.13 | 20.57 | <=30 | Pass |
| | | | 25 | 22.79 | -2.13 | 20.66 | <=30 | Pass |
| | | 50 | 0 | 22.75 | -2.13 | 20.62 | <=30 | Pass |
| | 1750 | 1 | 0 | 23.85 | -2.13 | 21.72 | <=30 | Pass |
| | | | 25 | 23.92 | -2.13 | 21.79 | <=30 | Pass |
| | | | 49 | 24.01 | -2.13 | 21.88 | <=30 | Pass |
| | | 25 | 0 | 22.87 | -2.13 | 20.74 | <=30 | Pass |
| | | | 13 | 22.95 | -2.13 | 20.82 | <=30 | Pass |
| | | | 25 | 22.94 | -2.13 | 20.81 | <=30 | Pass |
| | | 50 | 0 | 22.83 | -2.13 | 20.70 | <=30 | Pass |
| 16QAM | 1715 | 1 | 0 | 23.86 | -2.13 | 21.73 | <=30 | Pass |
| | | | 25 | 23.80 | -2.13 | 21.67 | <=30 | Pass |
| | | | 49 | 23.75 | -2.13 | 21.62 | <=30 | Pass |
| | | 25 | 0 | 21.85 | -2.13 | 19.72 | <=30 | Pass |
| | | | 13 | 21.88 | -2.13 | 19.75 | <=30 | Pass |
| | | | 25 | 21.88 | -2.13 | 19.75 | <=30 | Pass |
| | | 50 | 0 | 21.85 | -2.13 | 19.72 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 23.00 | -2.13 | 20.87 | <=30 | Pass |
| | | | 25 | 23.05 | -2.13 | 20.92 | <=30 | Pass |
| | | | 49 | 23.10 | -2.13 | 20.97 | <=30 | Pass |
| | | 25 | 0 | 21.99 | -2.13 | 19.86 | <=30 | Pass |
| | | | 13 | 21.93 | -2.13 | 19.80 | <=30 | Pass |
| | | | 25 | 21.98 | -2.13 | 19.85 | <=30 | Pass |
| | | 50 | 0 | 21.84 | -2.13 | 19.71 | <=30 | Pass |
| | 1750 | 1 | 0 | 23.69 | -2.13 | 21.56 | <=30 | Pass |
| | | | 25 | 23.79 | -2.13 | 21.66 | <=30 | Pass |
| | | | 49 | 23.79 | -2.13 | 21.66 | <=30 | Pass |
| | | 25 | 0 | 21.94 | -2.13 | 19.81 | <=30 | Pass |
| | | | 13 | 22.00 | -2.13 | 19.87 | <=30 | Pass |
| | | | 25 | 21.96 | -2.13 | 19.83 | <=30 | Pass |
| | | 50 | 0 | 21.95 | -2.13 | 19.82 | <=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 | 23.86 | -2.13 | 21.73 | <=30 | Pass |
| | | | 38 | 23.78 | -2.13 | 21.65 | <=30 | Pass |
| | | | 74 | 23.79 | -2.13 | 21.66 | <=30 | Pass |
| | | 36 | 0 | 22.89 | -2.13 | 20.76 | <=30 | Pass |
| | | | 18 | 22.80 | -2.13 | 20.67 | <=30 | Pass |
| | | | 39 | 22.79 | -2.13 | 20.66 | <=30 | Pass |
| | | 75 | 0 | 22.77 | -2.13 | 20.64 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 23.67 | -2.13 | 21.54 | <=30 | Pass |
| | | | 38 | 23.64 | -2.13 | 21.51 | <=30 | Pass |
| | | | 74 | 23.68 | -2.13 | 21.55 | <=30 | Pass |
| | | 36 | 0 | 22.73 | -2.13 | 20.60 | <=30 | Pass |
| | | | 18 | 22.79 | -2.13 | 20.66 | <=30 | Pass |
| | | | 39 | 22.84 | -2.13 | 20.71 | <=30 | Pass |
| | | 75 | 0 | 22.76 | -2.13 | 20.63 | <=30 | Pass |
| | 1747.5 | 1 | 0 | 23.83 | -2.13 | 21.70 | <=30 | Pass |
| | | | 38 | 23.93 | -2.13 | 21.80 | <=30 | Pass |
| | | | 74 | 24.09 | -2.13 | 21.96 | <=30 | Pass |
| | | 36 | 0 | 22.88 | -2.13 | 20.75 | <=30 | Pass |
| | | | 18 | 22.88 | -2.13 | 20.75 | <=30 | Pass |
| | | | 39 | 23.00 | -2.13 | 20.87 | <=30 | Pass |
| | | 75 | 0 | 22.93 | -2.13 | 20.80 | <=30 | Pass |
| 16QAM | 1717.5 | 1 | 0 | 23.83 | -2.13 | 21.70 | <=30 | Pass |
| | | | 38 | 23.77 | -2.13 | 21.64 | <=30 | Pass |
| | | | 74 | 23.79 | -2.13 | 21.66 | <=30 | Pass |
| | | 36 | 0 | 21.87 | -2.13 | 19.74 | <=30 | Pass |
| | | | 18 | 21.84 | -2.13 | 19.71 | <=30 | Pass |
| | | | 39 | 21.81 | -2.13 | 19.68 | <=30 | Pass |
| | | 75 | 0 | 21.80 | -2.13 | 19.67 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 23.42 | -2.13 | 21.29 | <=30 | Pass |
| | | | 38 | 23.39 | -2.13 | 21.26 | <=30 | Pass |
| | | | 74 | 23.42 | -2.13 | 21.29 | <=30 | Pass |
| | | 36 | 0 | 21.80 | -2.13 | 19.67 | <=30 | Pass |
| | | | 18 | 21.87 | -2.13 | 19.74 | <=30 | Pass |
| | | | 39 | 21.87 | -2.13 | 19.74 | <=30 | Pass |
| | | 75 | 0 | 21.79 | -2.13 | 19.66 | <=30 | Pass |
| | 1747.5 | 1 | 0 | 23.64 | -2.13 | 21.51 | <=30 | Pass |
| | | | 38 | 23.77 | -2.13 | 21.64 | <=30 | Pass |
| | | | 74 | 23.85 | -2.13 | 21.72 | <=30 | Pass |
| | | 36 | 0 | 21.98 | -2.13 | 19.85 | <=30 | Pass |
| | | | 18 | 22.04 | -2.13 | 19.91 | <=30 | Pass |
| | | | 39 | 21.97 | -2.13 | 19.84 | <=30 | Pass |
| | | 75 | 0 | 22.01 | -2.13 | 19.88 | <=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 | 23.83 | -2.13 | 21.70 | <=30 | Pass |
| | | | 50 | 23.73 | -2.13 | 21.60 | <=30 | Pass |
| | | | 99 | 23.66 | -2.13 | 21.53 | <=30 | Pass |
| | | 50 | 0 | 22.80 | -2.13 | 20.67 | <=30 | Pass |
| | | | 25 | 22.73 | -2.13 | 20.60 | <=30 | Pass |
| | | | 50 | 22.80 | -2.13 | 20.67 | <=30 | Pass |
| | | 100 | 0 | 22.77 | -2.13 | 20.64 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 23.81 | -2.13 | 21.68 | <=30 | Pass |
| | | | 50 | 23.73 | -2.13 | 21.60 | <=30 | Pass |
| | | | 99 | 23.90 | -2.13 | 21.77 | <=30 | Pass |
| | | 50 | 0 | 22.75 | -2.13 | 20.62 | <=30 | Pass |
| | | | 25 | 22.76 | -2.13 | 20.63 | <=30 | Pass |
| | | | 50 | 22.82 | -2.13 | 20.69 | <=30 | Pass |
| | | 100 | 0 | 22.76 | -2.13 | 20.63 | <=30 | Pass |
| | 1745 | 1 | 0 | 23.98 | -2.13 | 21.85 | <=30 | Pass |
| | | | 50 | 23.88 | -2.13 | 21.75 | <=30 | Pass |
| | | | 99 | 24.08 | -2.13 | 21.95 | <=30 | Pass |
| | | 50 | 0 | 22.87 | -2.13 | 20.74 | <=30 | Pass |
| | | | 25 | 22.94 | -2.13 | 20.81 | <=30 | Pass |
| | | | 50 | 22.99 | -2.13 | 20.86 | <=30 | Pass |
| | | 100 | 0 | 22.87 | -2.13 | 20.74 | <=30 | Pass |
| 16QAM | 1720 | 1 | 0 | 23.43 | -2.13 | 21.30 | <=30 | Pass |
| | | | 50 | 23.35 | -2.13 | 21.22 | <=30 | Pass |
| | | | 99 | 23.36 | -2.13 | 21.23 | <=30 | Pass |
| | | 50 | 0 | 21.92 | -2.13 | 19.79 | <=30 | Pass |
| | | | 25 | 21.82 | -2.13 | 19.69 | <=30 | Pass |
| | | | 50 | 21.90 | -2.13 | 19.77 | <=30 | Pass |
| | | 100 | 0 | 21.83 | -2.13 | 19.70 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 24.09 | -2.13 | 21.96 | <=30 | Pass |
| | | | 50 | 24.07 | -2.13 | 21.94 | <=30 | Pass |
| | | | 99 | 24.14 | -2.13 | 22.01 | <=30 | Pass |
| | | 50 | 0 | 21.77 | -2.13 | 19.64 | <=30 | Pass |
| | | | 25 | 21.77 | -2.13 | 19.64 | <=30 | Pass |
| | | | 50 | 21.86 | -2.13 | 19.73 | <=30 | Pass |
| | | 100 | 0 | 21.90 | -2.13 | 19.77 | <=30 | Pass |
| | 1745 | 1 | 0 | 23.73 | -2.13 | 21.60 | <=30 | Pass |
| | | | 50 | 23.72 | -2.13 | 21.59 | <=30 | Pass |
| | | | 99 | 23.82 | -2.13 | 21.69 | <=30 | Pass |
| | | 50 | 0 | 21.96 | -2.13 | 19.83 | <=30 | Pass |
| | | | 25 | 22.11 | -2.13 | 19.98 | <=30 | Pass |
| | | | 50 | 22.09 | -2.13 | 19.96 | <=30 | Pass |
| | | 100 | 0 | 21.85 | -2.13 | 19.72 | <=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 | 3.29 | 17.538 | 0.0103 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 7.224 | 0.0042 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -10.185 | -0.0060 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | -18.339 | -0.0107 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 2.661 | 0.0016 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -8.140 | -0.0048 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -17.967 | -0.0105 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -35.462 | -0.0207 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -21.787 | -0.0127 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -29.197 | -0.0171 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | -27.895 | -0.0163 | -2.5 to 2.5 | Pass |
| | 1732.5 | 6 | 0 | 20 | 3.29 | 44.932 | 0.0259 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 14.563 | 0.0084 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 26.021 | 0.0150 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 2.217 | 0.0013 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | -31.128 | -0.0180 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -38.667 | -0.0223 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -20.514 | -0.0118 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -22.202 | -0.0128 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -24.362 | -0.0141 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -23.174 | -0.0134 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | -15.578 | -0.0090 | -2.5 to 2.5 | Pass |
| | 1754.3 | 6 | 0 | 20 | 3.29 | 12.531 | 0.0071 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 23.789 | 0.0136 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -9.370 | -0.0053 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 6.452 | 0.0037 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | -19.913 | -0.0114 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -25.721 | -0.0147 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -10.257 | -0.0058 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 0.801 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -11.745 | -0.0067 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -45.605 | -0.0260 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | -16.279 | -0.0093 | -2.5 to 2.5 | Pass |
| 16QAM | 1710.7 | 6 | 0 | 20 | 3.29 | -22.888 | -0.0134 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 1.287 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -9.069 | -0.0053 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | -27.037 | -0.0158 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | -13.433 | -0.0079 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -21.558 | -0.0126 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -16.994 | -0.0099 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -15.407 | -0.0090 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -15.807 | -0.0092 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -10.357 | -0.0061 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | -2.460 | -0.0014 | -2.5 to 2.5 | Pass |
| | 1732.5 | 6 | 0 | 20 | 3.29 | -39.611 | -0.0229 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | -26.078 | -0.0151 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -34.633 | -0.0200 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | -36.078 | -0.0208 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 4.921 | 0.0028 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 1.917 | 0.0011 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 0 | 3.87 | 0.615 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -4.306 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -5.393 | -0.0031 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -2.232 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 0.701 | 0.0004 | -2.5 to 2.5 | Pass |
| | 1754.3 | 6 | 0 | 20 | 3.29 | -30.398 | -0.0173 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | -35.205 | -0.0201 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -37.651 | -0.0215 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 4.048 | 0.0023 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 5.293 | 0.0030 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 18.654 | 0.0106 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 19.441 | 0.0111 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 27.380 | 0.0156 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | 34.661 | 0.0198 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | 39.496 | 0.0225 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 10.471 | 0.0060 | -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 | 3.29 | 0.157 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 9.699 | 0.0057 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -14.234 | -0.0083 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | -33.388 | -0.0195 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | -21.100 | -0.0123 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -34.447 | -0.0201 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -29.469 | -0.0172 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -20.800 | -0.0122 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -11.473 | -0.0067 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -29.798 | -0.0174 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 1.602 | 0.0009 | -2.5 to 2.5 | Pass |
| | 1732.5 | 15 | 0 | 20 | 3.29 | -6.709 | -0.0039 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 21.143 | 0.0122 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 1.874 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 18.997 | 0.0110 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 26.422 | 0.0153 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 31.257 | 0.0180 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -1.631 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 7.324 | 0.0042 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | 6.824 | 0.0039 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | 12.674 | 0.0073 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 17.424 | 0.0101 | -2.5 to 2.5 | Pass |
| | 1753.5 | 15 | 0 | 20 | 3.29 | 17.238 | 0.0098 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 0.143 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 5.207 | 0.0030 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 3.791 | 0.0022 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | -12.431 | -0.0071 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -32.558 | -0.0186 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 25.549 | 0.0146 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 7.725 | 0.0044 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -7.596 | -0.0043 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -20.242 | -0.0115 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | -3.033 | -0.0017 | -2.5 to 2.5 | Pass |
| 16QAM | 1711.5 | 15 | 0 | 20 | 3.29 | -35.477 | -0.0207 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | -22.273 | -0.0130 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 2.275 | 0.0013 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -30 | 3.87 | 0.887 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | -43.659 | -0.0255 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -13.976 | -0.0082 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -6.795 | -0.0040 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -45.977 | -0.0269 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -30.313 | -0.0177 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -32.501 | -0.0190 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 17.495 | 0.0102 | -2.5 to 2.5 | Pass |
| | 1732.5 | 15 | 0 | 20 | 3.29 | 18.396 | 0.0106 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 23.861 | 0.0138 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 16.308 | 0.0094 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 19.555 | 0.0113 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 19.298 | 0.0111 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 20.428 | 0.0118 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 25.120 | 0.0145 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 32.473 | 0.0187 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | 29.597 | 0.0171 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | 27.924 | 0.0161 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 19.884 | 0.0115 | -2.5 to 2.5 | Pass |
| | 1753.5 | 15 | 0 | 20 | 3.29 | -36.950 | -0.0211 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | -24.991 | -0.0143 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -35.477 | -0.0202 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | -17.982 | -0.0103 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | -10.743 | -0.0061 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -19.484 | -0.0111 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -21.286 | -0.0121 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -31.343 | -0.0179 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -39.325 | -0.0224 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -38.595 | -0.0220 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | -34.561 | -0.0197 | -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 | 3.29 | 16.265 | 0.0095 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 30.084 | 0.0176 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -0.315 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | -12.674 | -0.0074 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | -33.803 | -0.0197 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -7.610 | -0.0044 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -26.722 | -0.0156 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -7.067 | -0.0041 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -28.410 | -0.0166 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -5.250 | -0.0031 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | -24.519 | -0.0143 | -2.5 to 2.5 | Pass |
| | 1732.5 | 25 | 0 | 20 | 3.29 | 32.630 | 0.0188 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 30.112 | 0.0174 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -6.294 | -0.0036 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | -8.998 | -0.0052 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 0.372 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 2.847 | 0.0016 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -16.594 | -0.0096 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -31.843 | -0.0184 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -17.138 | -0.0099 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | 3.648 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 39.897 | 0.0230 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1752.5 | 25 | 0 | 20 | 3.29 | 10.557 | 0.0060 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | -3.991 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 1.659 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | -7.095 | -0.0040 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | -24.333 | -0.0139 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -12.317 | -0.0070 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 12.102 | 0.0069 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -4.950 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -20.685 | -0.0118 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -34.919 | -0.0199 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | -10.672 | -0.0061 | -2.5 to 2.5 | Pass |
| 16QAM | 1712.5 | 25 | 0 | 20 | 3.29 | -36.664 | -0.0214 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | -10.915 | -0.0064 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -18.640 | -0.0109 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | -16.437 | -0.0096 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | -13.018 | -0.0076 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -11.673 | -0.0068 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -15.535 | -0.0091 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 17.424 | 0.0102 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | 26.536 | 0.0155 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | 25.864 | 0.0151 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 25.878 | 0.0151 | -2.5 to 2.5 | Pass |
| | 1732.5 | 25 | 0 | 20 | 3.29 | 1.245 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 14.691 | 0.0085 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -13.075 | -0.0075 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 8.583 | 0.0050 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 18.811 | 0.0109 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 2.375 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 23.975 | 0.0138 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -7.782 | -0.0045 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | 15.364 | 0.0089 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | 28.496 | 0.0164 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 6.924 | 0.0040 | -2.5 to 2.5 | Pass |
| | 1752.5 | 25 | 0 | 20 | 3.29 | -15.063 | -0.0086 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | -16.251 | -0.0093 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -16.551 | -0.0094 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | -5.550 | -0.0032 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 4.535 | 0.0026 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 6.294 | 0.0036 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 14.548 | 0.0083 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 25.678 | 0.0147 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | 2.618 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | 20.356 | 0.0116 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 25.907 | 0.0148 | -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 | 3.29 | 25.849 | 0.0151 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 4.363 | 0.0025 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -12.217 | -0.0071 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | -24.133 | -0.0141 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | -19.283 | -0.0112 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -20.385 | -0.0119 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -27.566 | -0.0161 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -15.950 | -0.0093 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 30 | 3.87 | -16.122 | -0.0094 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -17.824 | -0.0104 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 25.549 | 0.0149 | -2.5 to 2.5 | Pass |
| | 1732.5 | 50 | 0 | 20 | 3.29 | 11.330 | 0.0065 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 34.561 | 0.0199 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 33.932 | 0.0196 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 21.029 | 0.0121 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 36.092 | 0.0208 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 15.736 | 0.0091 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 26.379 | 0.0152 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 14.806 | 0.0085 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | 14.305 | 0.0083 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | 24.276 | 0.0140 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 37.508 | 0.0216 | -2.5 to 2.5 | Pass |
| | 1750 | 50 | 0 | 20 | 3.29 | -23.704 | -0.0135 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 5.865 | 0.0034 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -10.328 | -0.0059 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | -29.669 | -0.0170 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | -5.722 | -0.0033 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -11.387 | -0.0065 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -11.201 | -0.0064 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -1.917 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -7.110 | -0.0041 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -7.796 | -0.0045 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | -12.102 | -0.0069 | -2.5 to 2.5 | Pass |
| 16QAM | 1715 | 50 | 0 | 20 | 3.29 | 10.800 | 0.0063 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 12.074 | 0.0070 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 30.112 | 0.0176 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 0.272 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 20.313 | 0.0118 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 25.935 | 0.0151 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 31.600 | 0.0184 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 39.797 | 0.0232 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | 14.763 | 0.0086 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | 23.689 | 0.0138 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 25.849 | 0.0151 | -2.5 to 2.5 | Pass |
| | 1732.5 | 50 | 0 | 20 | 3.29 | 39.854 | 0.0230 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 23.046 | 0.0133 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 10.300 | 0.0059 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 5.264 | 0.0030 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 7.753 | 0.0045 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 26.951 | 0.0156 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 1.373 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 12.245 | 0.0071 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | 18.597 | 0.0107 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | 0.343 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 15.836 | 0.0091 | -2.5 to 2.5 | Pass |
| | 1750 | 50 | 0 | 20 | 3.29 | -8.354 | -0.0048 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | -0.343 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 10.657 | 0.0061 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 26.221 | 0.0150 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 10.057 | 0.0057 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 32.487 | 0.0186 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 10.614 | 0.0061 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 21.715 | 0.0124 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | 11.559 | 0.0066 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | 22.516 | 0.0129 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 8.569 | 0.0049 | -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 | 3.29 | 22.545 | 0.0131 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | -22.531 | -0.0131 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -18.940 | -0.0110 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | -2.360 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | -26.636 | -0.0155 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -34.833 | -0.0203 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -28.896 | -0.0168 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -15.879 | -0.0092 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -1.488 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -23.746 | -0.0138 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | -3.419 | -0.0020 | -2.5 to 2.5 | Pass |
| | 1732.5 | 75 | 0 | 20 | 3.29 | 6.366 | 0.0037 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 32.401 | 0.0187 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 25.535 | 0.0147 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 35.548 | 0.0205 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 23.375 | 0.0135 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 10.242 | 0.0059 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 10.743 | 0.0062 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 19.469 | 0.0112 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -0.973 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -13.962 | -0.0081 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | -2.604 | -0.0015 | -2.5 to 2.5 | Pass |
| | 1747.5 | 75 | 0 | 20 | 3.29 | 16.251 | 0.0093 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 39.840 | 0.0228 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 31.586 | 0.0181 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 18.454 | 0.0106 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | -2.704 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -18.754 | -0.0107 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -11.988 | -0.0069 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -27.037 | -0.0155 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -36.063 | -0.0206 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -35.877 | -0.0205 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | -37.580 | -0.0215 | -2.5 to 2.5 | Pass |
| 16QAM | 1717.5 | 75 | 0 | 20 | 3.29 | -15.736 | -0.0092 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | -19.083 | -0.0111 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 1.559 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 18.582 | 0.0108 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 30.770 | 0.0179 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 20.370 | 0.0119 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 29.168 | 0.0170 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 16.751 | 0.0098 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | 14.005 | 0.0082 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | 18.725 | 0.0109 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 19.884 | 0.0116 | -2.5 to 2.5 | Pass |
| | 1732.5 | 75 | 0 | 20 | 3.29 | 14.763 | 0.0085 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 29.354 | 0.0169 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 37.022 | 0.0214 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | -0.072 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 28.968 | 0.0167 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 4.606 | 0.0027 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 30.842 | 0.0178 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 7.524 | 0.0043 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | 23.432 | 0.0135 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | 17.738 | 0.0102 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 21.787 | 0.0126 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1747.5 | 75 | 0 | 20 | 3.29 | -35.934 | -0.0206 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 12.589 | 0.0072 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 15.593 | 0.0089 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 4.549 | 0.0026 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 30.255 | 0.0173 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 17.710 | 0.0101 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 32.058 | 0.0183 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 1.359 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | 9.456 | 0.0054 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | 26.708 | 0.0153 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 37.394 | 0.0214 | -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 | 3.29 | 13.218 | 0.0077 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | -31.843 | -0.0185 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -23.718 | -0.0138 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | -29.325 | -0.0170 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | -18.268 | -0.0106 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -38.109 | -0.0222 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 8.397 | 0.0049 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -32.229 | -0.0187 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -10.800 | -0.0063 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -26.908 | -0.0156 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 0.701 | 0.0004 | -2.5 to 2.5 | Pass |
| | 1732.5 | 100 | 0 | 20 | 3.29 | 28.782 | 0.0166 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 30.470 | 0.0176 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 28.567 | 0.0165 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 14.920 | 0.0086 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 16.294 | 0.0094 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 14.534 | 0.0084 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -14.892 | -0.0086 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -12.302 | -0.0071 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -5.465 | -0.0032 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -0.973 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 15.564 | 0.0090 | -2.5 to 2.5 | Pass |
| | 1745 | 100 | 0 | 20 | 3.29 | 9.456 | 0.0054 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | -9.799 | -0.0056 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | -32.086 | -0.0184 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 3.219 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | -9.241 | -0.0053 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | -2.732 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | -7.467 | -0.0043 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | -11.973 | -0.0069 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -16.465 | -0.0094 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -14.863 | -0.0085 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | -0.215 | -0.0001 | -2.5 to 2.5 | Pass |
| 16QAM | 1720 | 100 | 0 | 20 | 3.29 | -11.816 | -0.0069 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | -1.130 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 29.097 | 0.0169 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 11.258 | 0.0065 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 23.875 | 0.0139 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 21.143 | 0.0123 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 25.363 | 0.0147 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 19.970 | 0.0116 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 30 | 3.87 | 34.275 | 0.0199 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | 41.456 | 0.0241 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 2.918 | 0.0017 | -2.5 to 2.5 | Pass |
| | 1732.5 | 100 | 0 | 20 | 3.29 | -0.072 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 28.653 | 0.0165 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 22.244 | 0.0128 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 16.265 | 0.0094 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 10.228 | 0.0059 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 8.140 | 0.0047 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 24.304 | 0.0140 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 33.245 | 0.0192 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | 21.601 | 0.0125 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | 22.087 | 0.0127 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 28.825 | 0.0166 | -2.5 to 2.5 | Pass |
| | 1745 | 100 | 0 | 20 | 3.29 | 7.167 | 0.0041 | -2.5 to 2.5 | Pass |
| | | | | | 3.87 | 16.780 | 0.0096 | -2.5 to 2.5 | Pass |
| | | | | | 4.45 | 27.151 | 0.0156 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.87 | 3.290 | 0.0019 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.87 | 9.255 | 0.0053 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.87 | 8.340 | 0.0048 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.87 | 30.584 | 0.0175 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.87 | 11.573 | 0.0066 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.87 | -24.862 | -0.0142 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.87 | -11.458 | -0.0066 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.87 | 11.659 | 0.0067 | -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 |

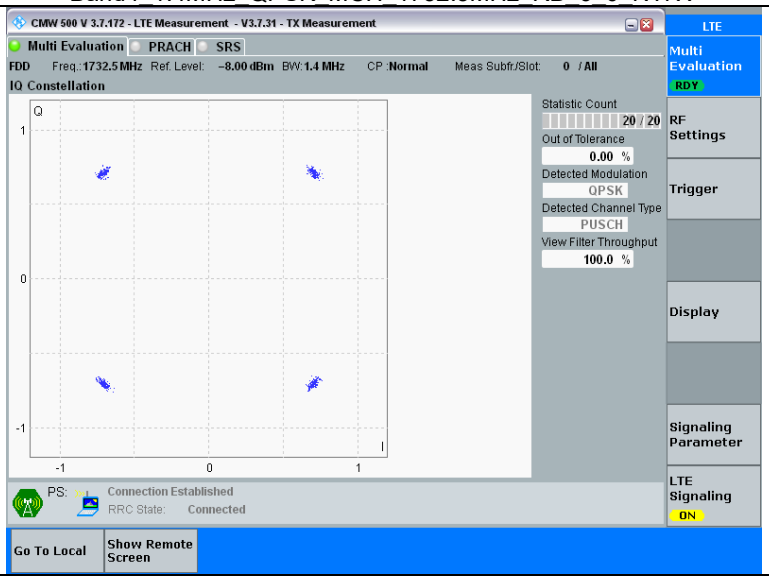
### 3.1.6 B4_20MHz

| 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 |

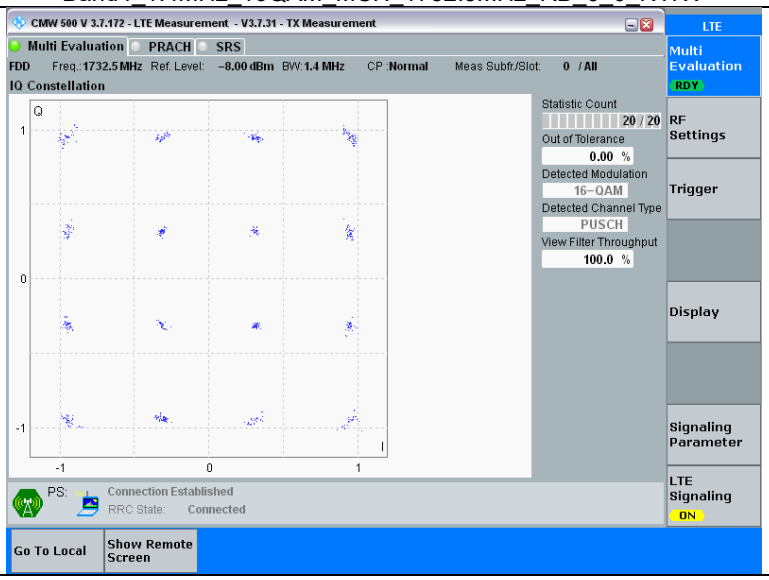
## 3.2 Test Graph

### 3.2.1 B4_1.4MHz

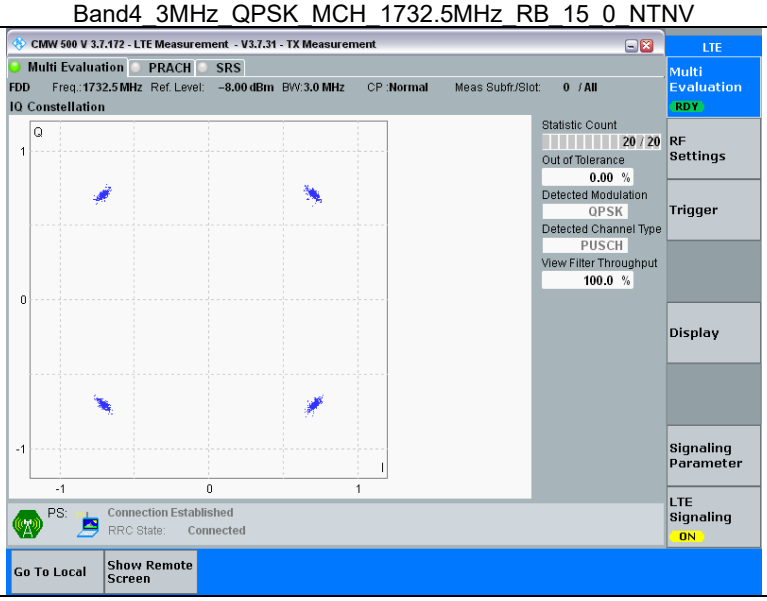
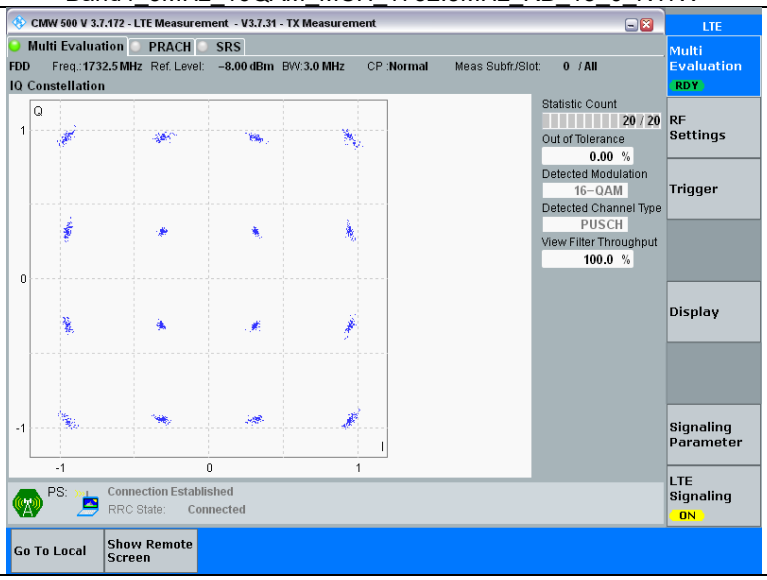
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



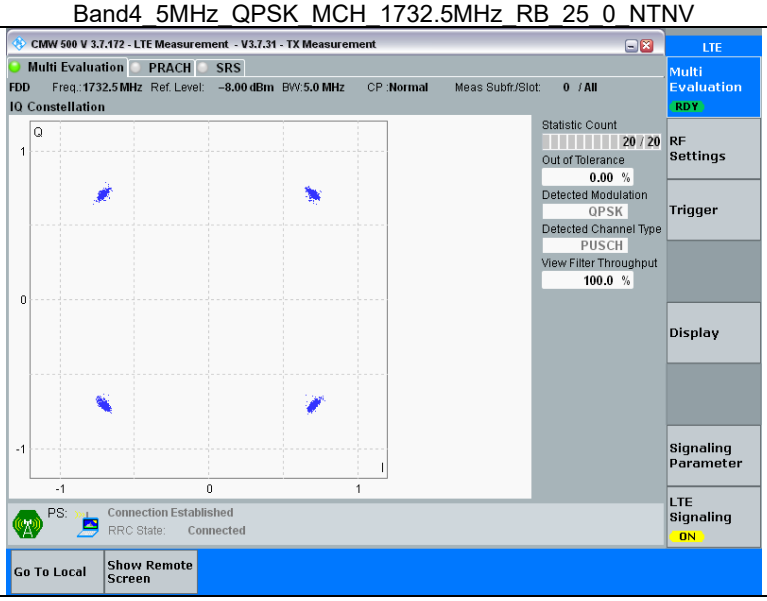
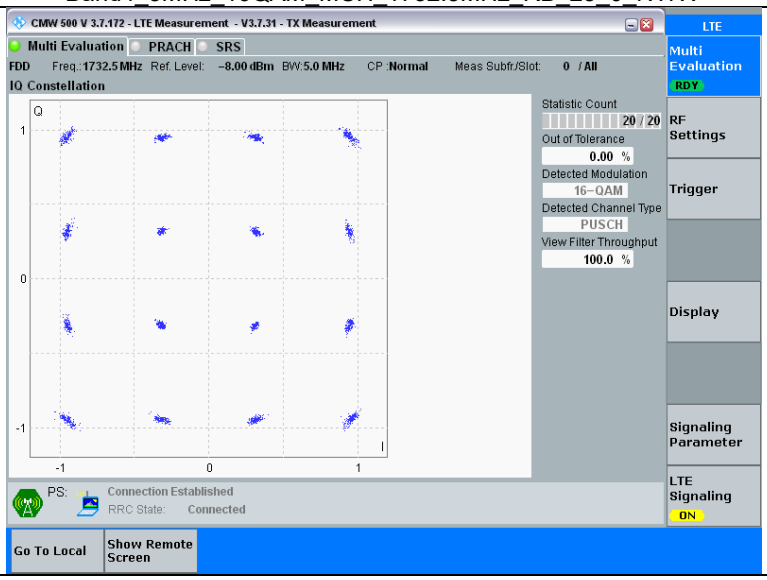

Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



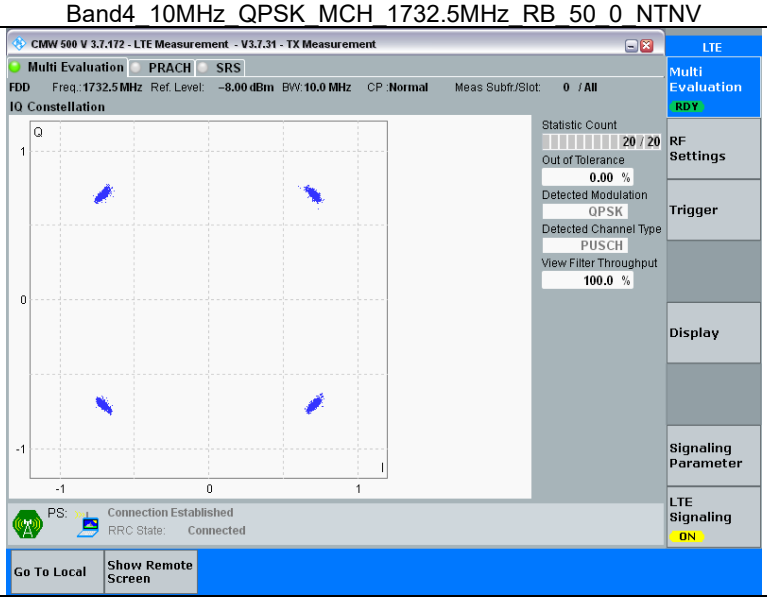
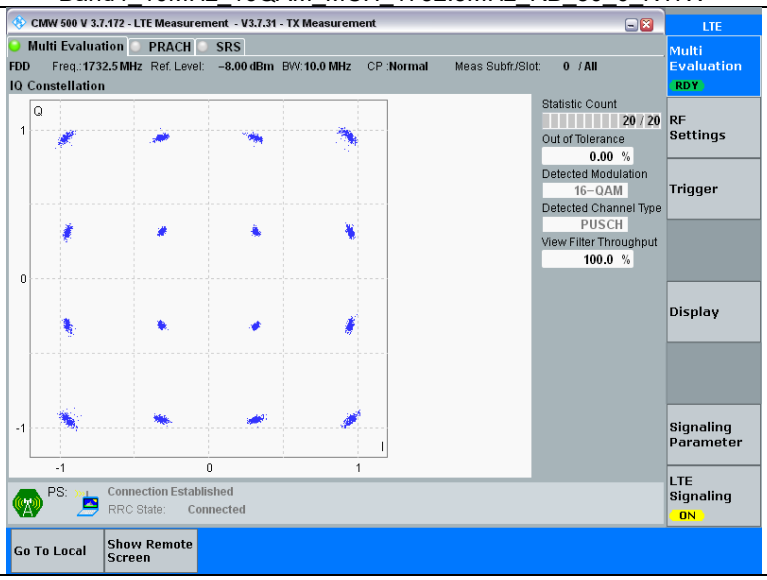
### 3.2.2 B4_3MHz

| Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV |
| --- |
|  |
| Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV |
|  |

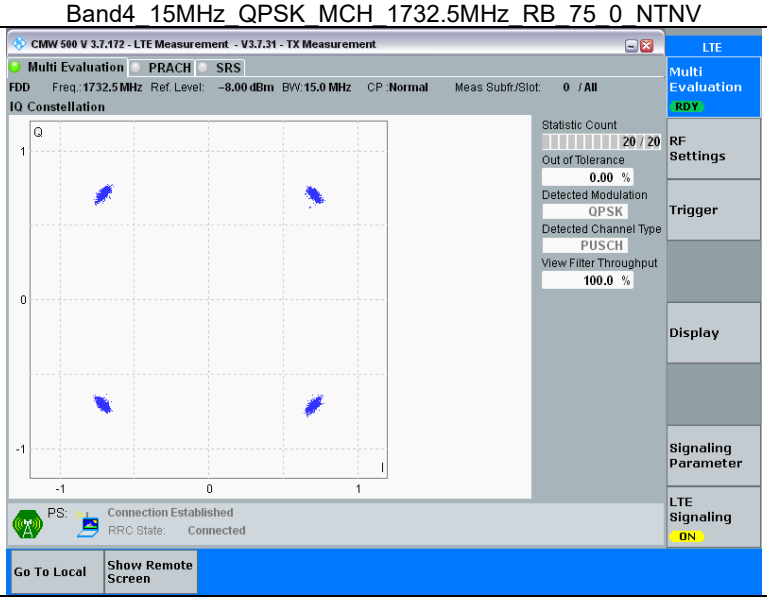
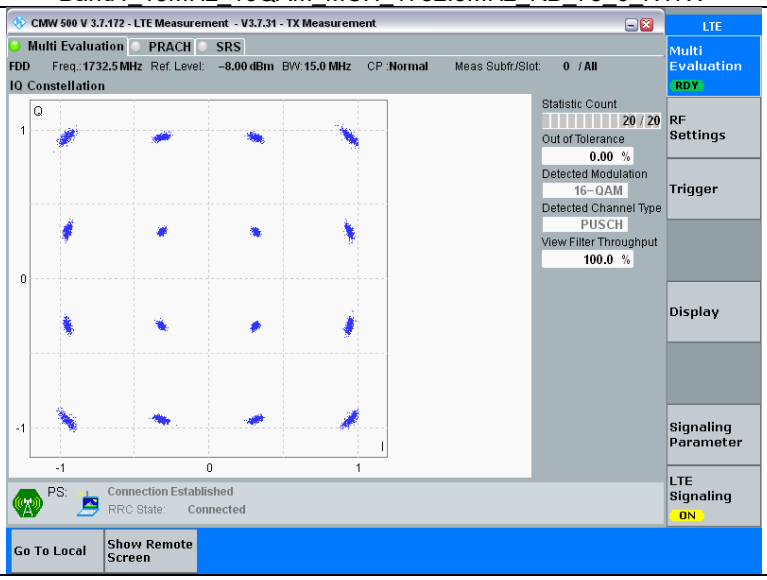
### 3.2.3 B4_5MHz

| Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV |
| --- |
|  |
| Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV |
|  |

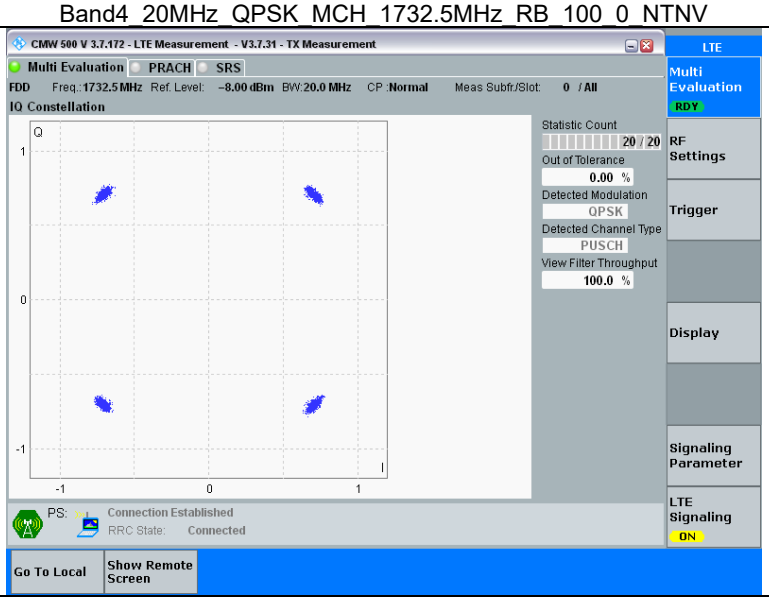
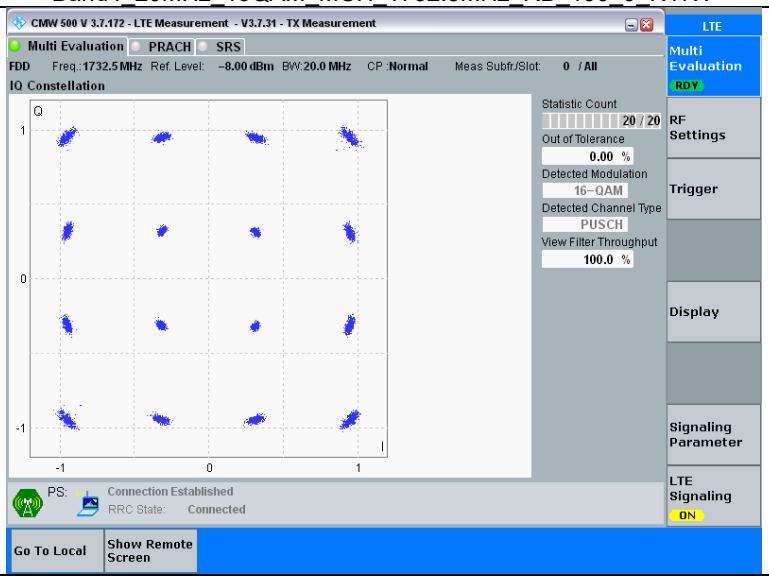
### 3.2.4 B4_10MHz

| 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 | 1.117 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.114 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.110 | / | Pass |
| | 16QAM | 1710.7 | 6 | 0 | 1.115 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.104 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.115 | / | Pass |
| 3 | QPSK | 1711.5 | 15 | 0 | 2.761 | / | Pass |
| | | 1732.5 | 15 | 0 | 2.750 | / | Pass |
| | | 1753.5 | 15 | 0 | 2.759 | / | Pass |
| | 16QAM | 1711.5 | 15 | 0 | 2.767 | / | Pass |
| | | 1732.5 | 15 | 0 | 2.746 | / | Pass |
| | | 1753.5 | 15 | 0 | 2.746 | / | Pass |
| 5 | QPSK | 1712.5 | 25 | 0 | 4.565 | / | Pass |
| | | 1732.5 | 25 | 0 | 4.543 | / | Pass |
| | | 1752.5 | 25 | 0 | 4.548 | / | Pass |
| | 16QAM | 1712.5 | 25 | 0 | 4.528 | / | Pass |
| | | 1732.5 | 25 | 0 | 4.565 | / | Pass |
| | | 1752.5 | 25 | 0 | 4.551 | / | Pass |
| 10 | QPSK | 1715 | 50 | 0 | 9.049 | / | Pass |
| | | 1732.5 | 50 | 0 | 9.097 | / | Pass |
| | | 1750 | 50 | 0 | 9.051 | / | Pass |
| | 16QAM | 1715 | 50 | 0 | 9.047 | / | Pass |
| | | 1732.5 | 50 | 0 | 9.079 | / | Pass |
| | | 1750 | 50 | 0 | 9.096 | / | Pass |
| 15 | QPSK | 1717.5 | 75 | 0 | 13.622 | / | Pass |
| | | 1732.5 | 75 | 0 | 13.607 | / | Pass |
| | | 1747.5 | 75 | 0 | 13.572 | / | Pass |
| | 16QAM | 1717.5 | 75 | 0 | 13.602 | / | Pass |
| | | 1732.5 | 75 | 0 | 13.625 | / | Pass |
| | | 1747.5 | 75 | 0 | 13.628 | / | Pass |
| 20 | QPSK | 1720 | 100 | 0 | 18.159 | / | Pass |
| | | 1732.5 | 100 | 0 | 18.148 | / | Pass |
| | | 1745 | 100 | 0 | 18.156 | / | Pass |
| | 16QAM | 1720 | 100 | 0 | 18.180 | / | Pass |
| | | 1732.5 | 100 | 0 | 18.114 | / | Pass |
| | | 1745 | 100 | 0 | 18.108 | / | Pass |

### 4.1.2 Band4_XDB

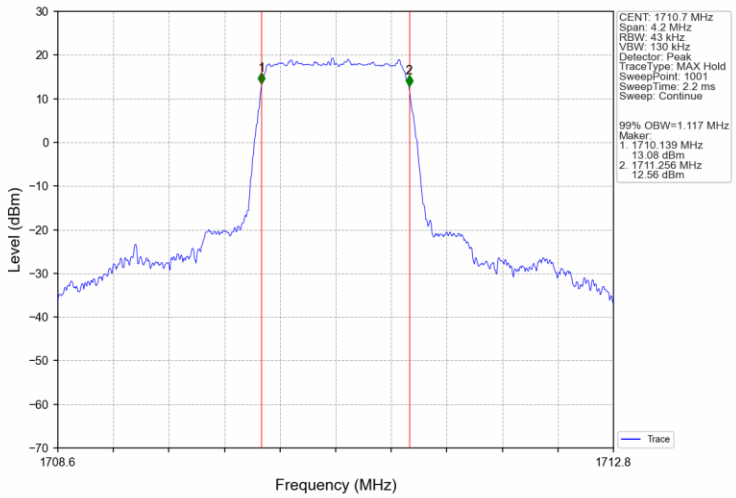
| Band: 4 / NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 1.4 | QPSK | 1710.7 | 6 | 0 | 1.271 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.273 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.278 | / | Pass |
| | 16QAM | 1710.7 | 6 | 0 | 1.272 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.267 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.266 | / | Pass |
| 3 | QPSK | 1711.5 | 15 | 0 | 3.110 | / | Pass |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1732.5 | 15 | 0 | 3.102 | / | Pass |
| | | 1753.5 | 15 | 0 | 3.090 | / | Pass |
| | 16QAM | 1711.5 | 15 | 0 | 3.094 | / | Pass |
| | | 1732.5 | 15 | 0 | 3.121 | / | Pass |
| | | 1753.5 | 15 | 0 | 3.090 | / | Pass |
| 5 | QPSK | 1712.5 | 25 | 0 | 5.051 | / | Pass |
| | | 1732.5 | 25 | 0 | 5.079 | / | Pass |
| | | 1752.5 | 25 | 0 | 5.049 | / | Pass |
| | 16QAM | 1712.5 | 25 | 0 | 5.046 | / | Pass |
| | | 1732.5 | 25 | 0 | 5.048 | / | Pass |
| | | 1752.5 | 25 | 0 | 5.060 | / | Pass |
| 10 | QPSK | 1715 | 50 | 0 | 10.053 | / | Pass |
| | | 1732.5 | 50 | 0 | 10.005 | / | Pass |
| | | 1750 | 50 | 0 | 10.023 | / | Pass |
| | 16QAM | 1715 | 50 | 0 | 10.049 | / | Pass |
| | | 1732.5 | 50 | 0 | 10.085 | / | Pass |
| | | 1750 | 50 | 0 | 10.030 | / | Pass |
| 15 | QPSK | 1717.5 | 75 | 0 | 15.231 | / | Pass |
| | | 1732.5 | 75 | 0 | 15.114 | / | Pass |
| | | 1747.5 | 75 | 0 | 15.096 | / | Pass |
| | 16QAM | 1717.5 | 75 | 0 | 15.211 | / | Pass |
| | | 1732.5 | 75 | 0 | 15.158 | / | Pass |
| | | 1747.5 | 75 | 0 | 15.139 | / | Pass |
| 20 | QPSK | 1720 | 100 | 0 | 20.015 | / | Pass |
| | | 1732.5 | 100 | 0 | 19.968 | / | Pass |
| | | 1745 | 100 | 0 | 20.012 | / | Pass |
| | 16QAM | 1720 | 100 | 0 | 20.013 | / | Pass |
| | | 1732.5 | 100 | 0 | 20.076 | / | Pass |
| | | 1745 | 100 | 0 | 19.986 | / | Pass |

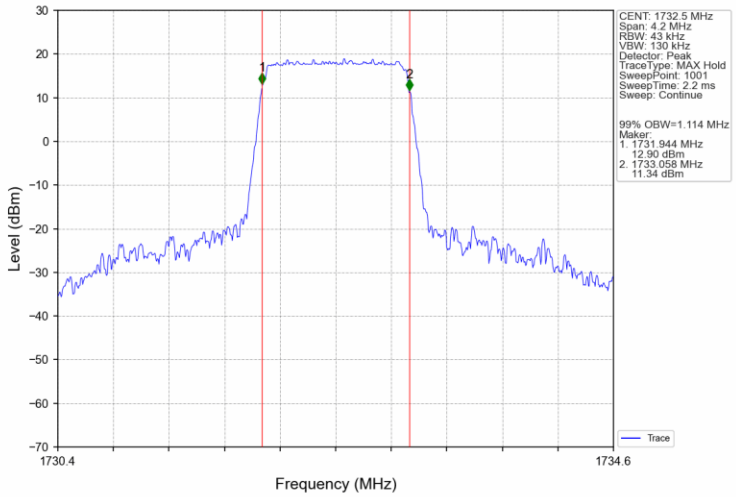
## 4.2 Test Graph

### 4.2.1 Band4_OBW

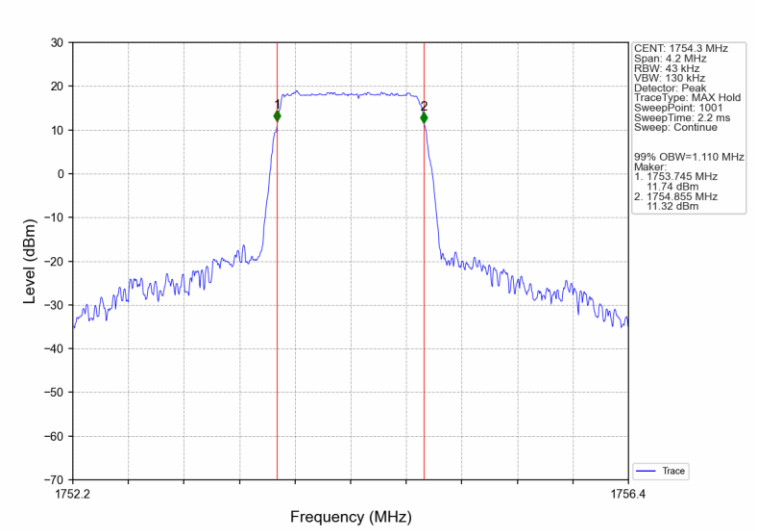
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



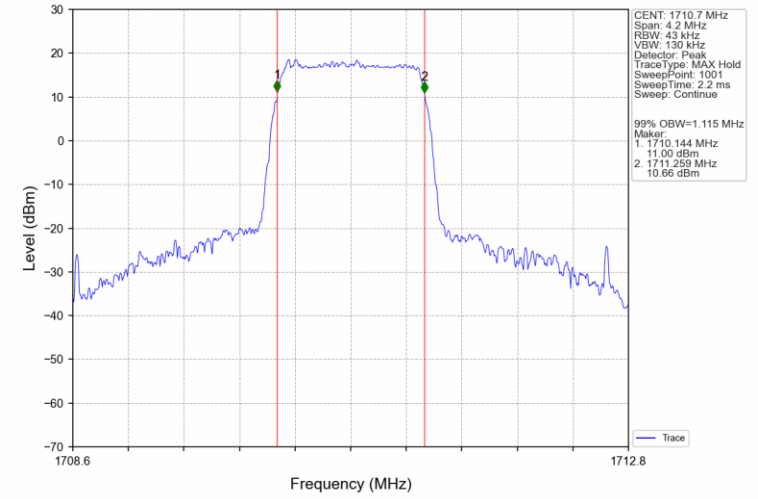

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



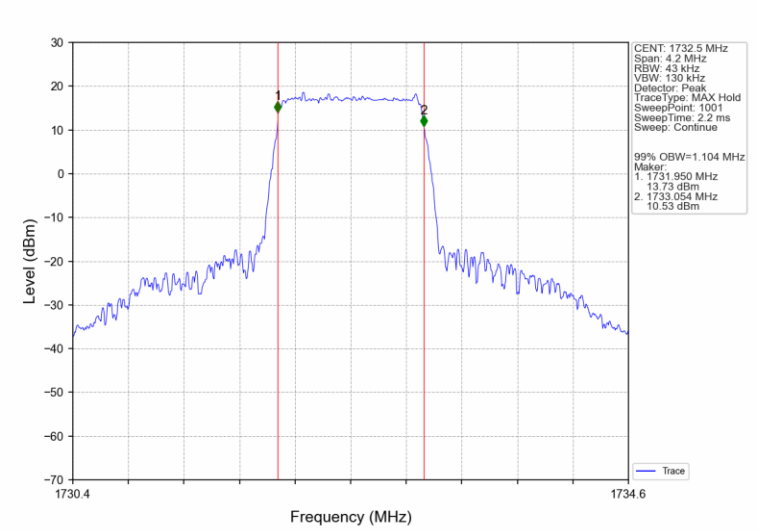
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



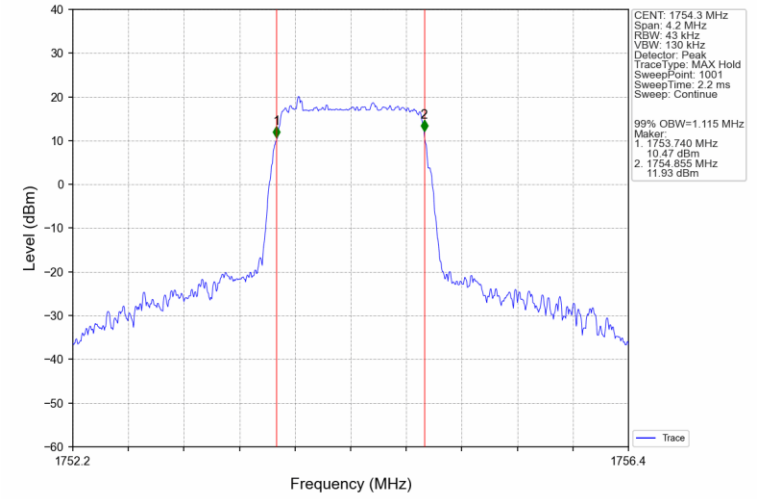

Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



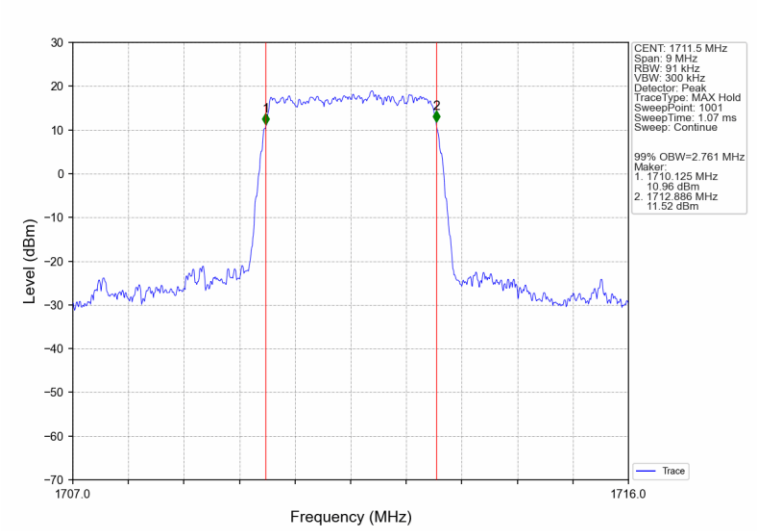
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



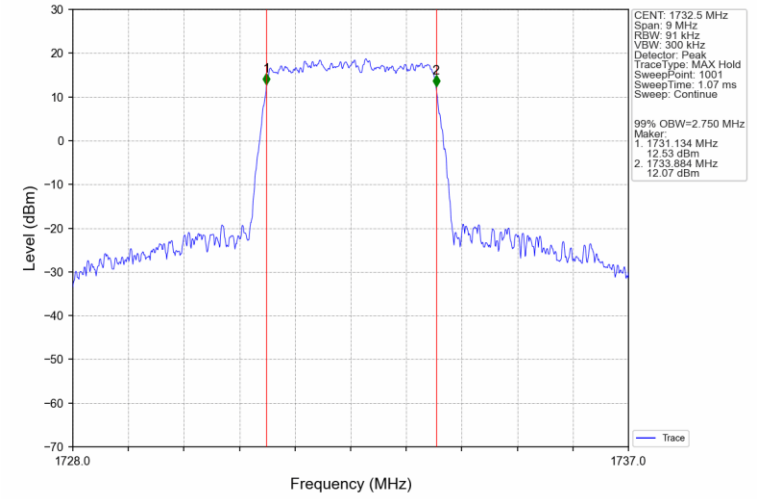

Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



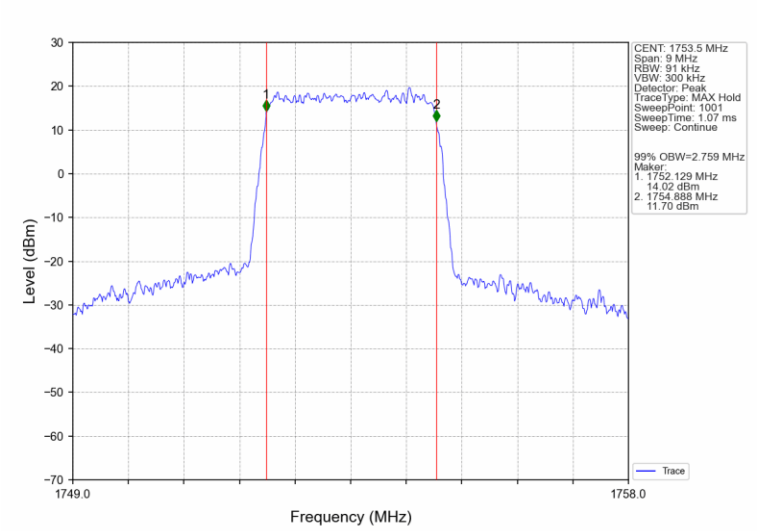
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



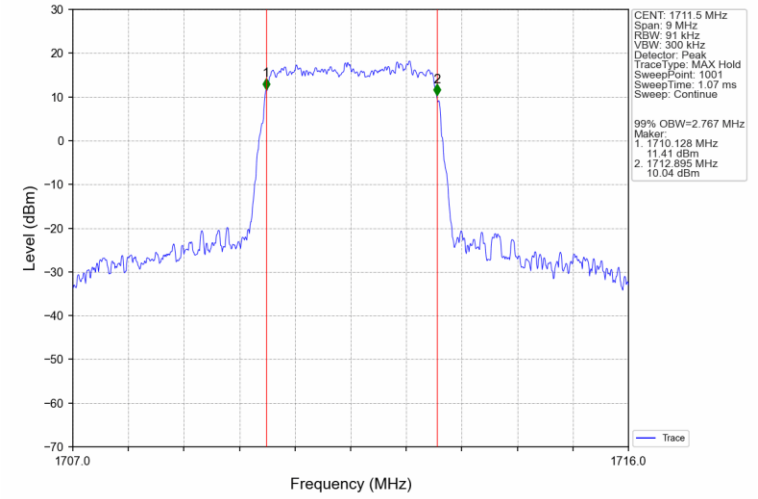

Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



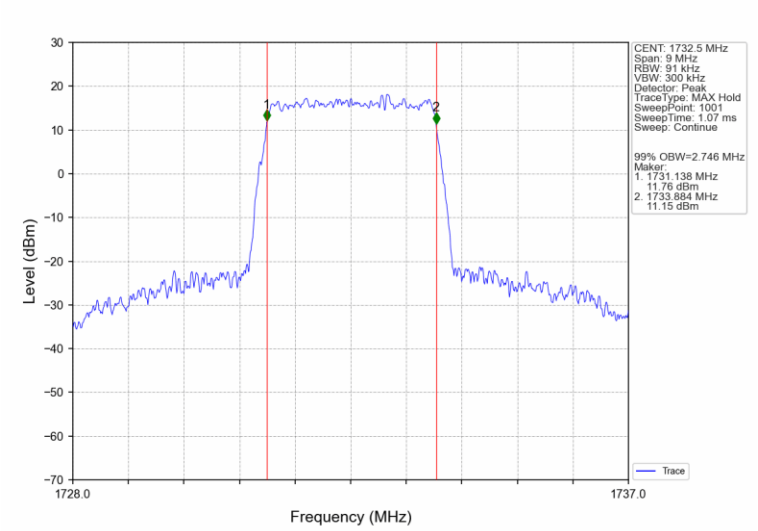
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



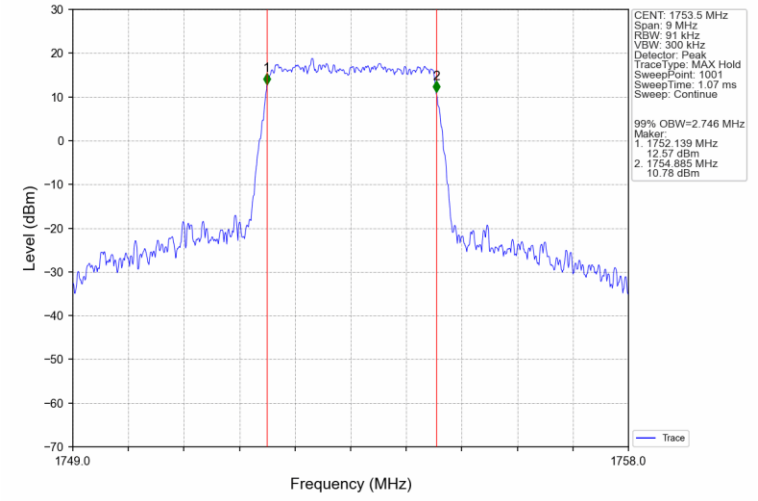

Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



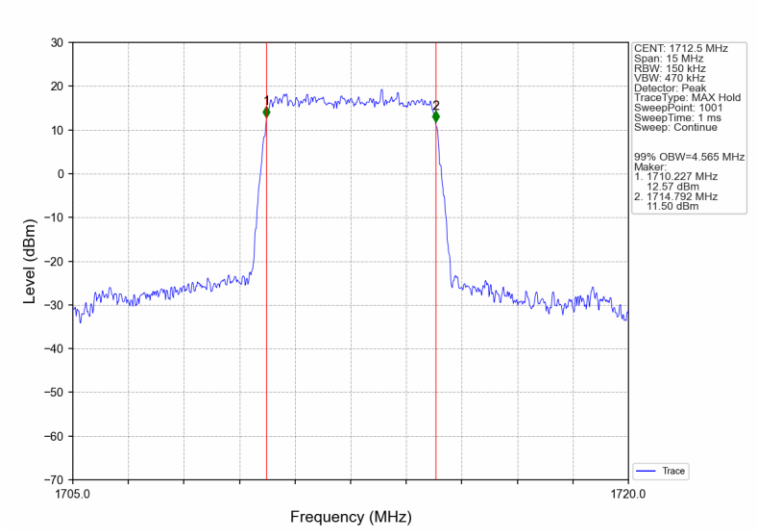
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



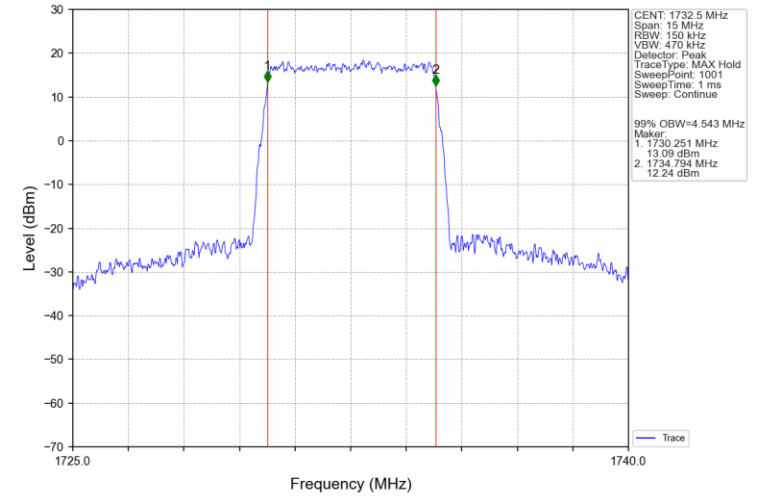

Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



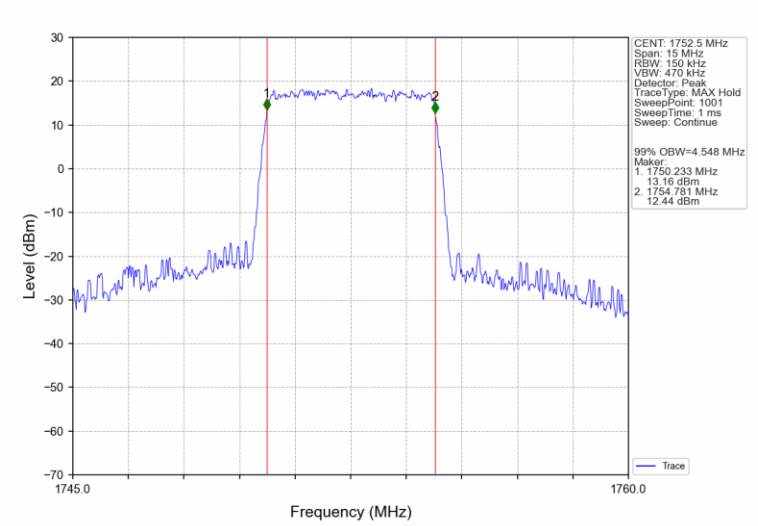
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



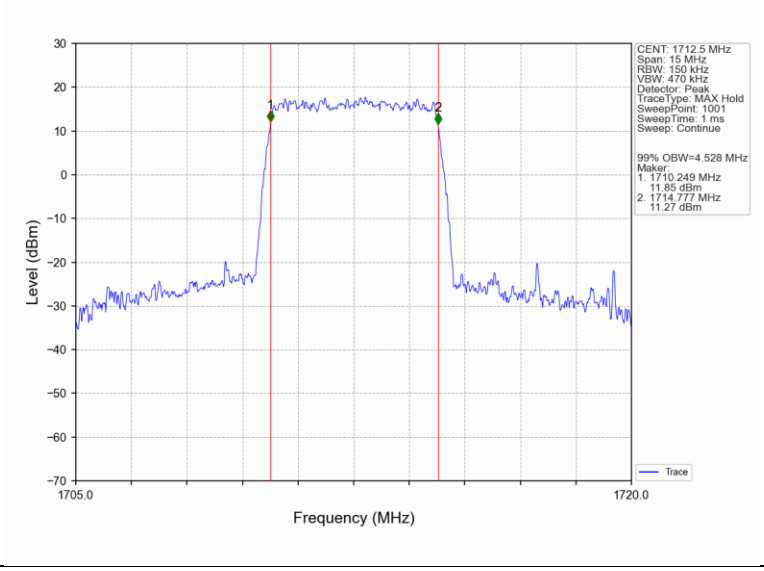

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



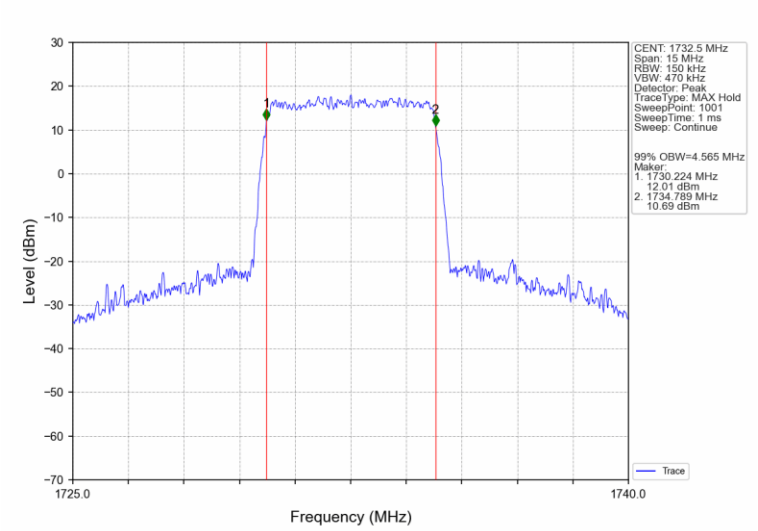
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



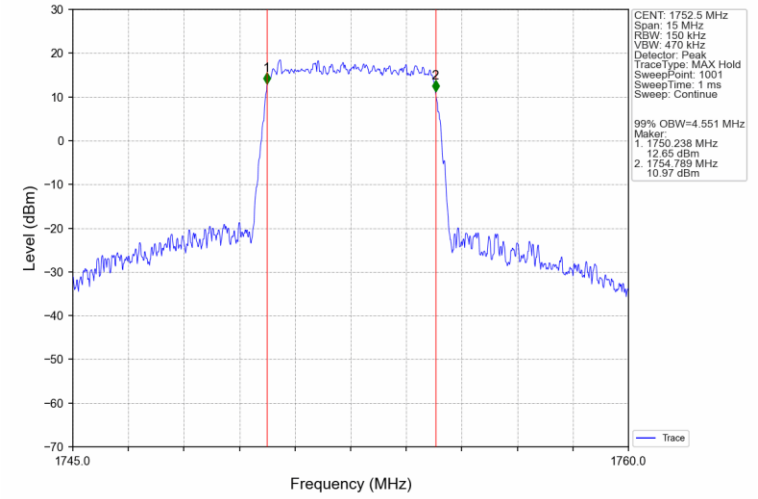

Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



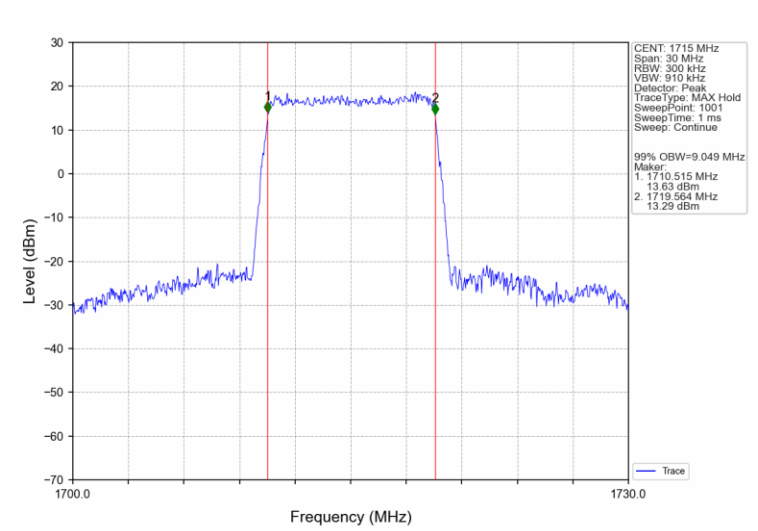
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



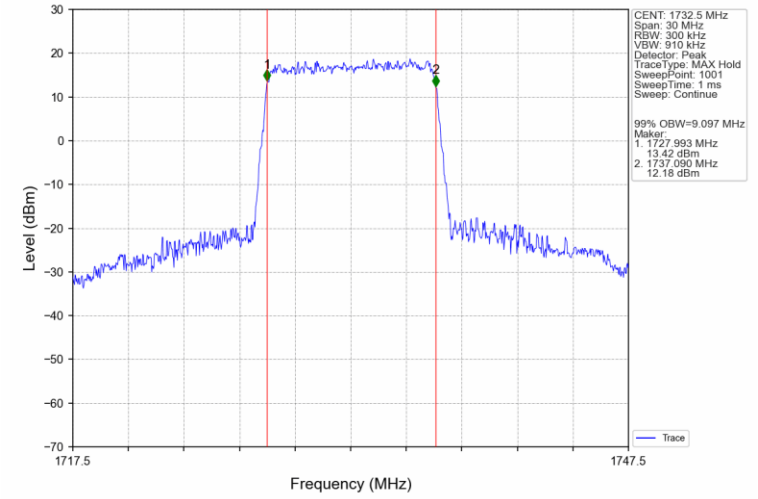

Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



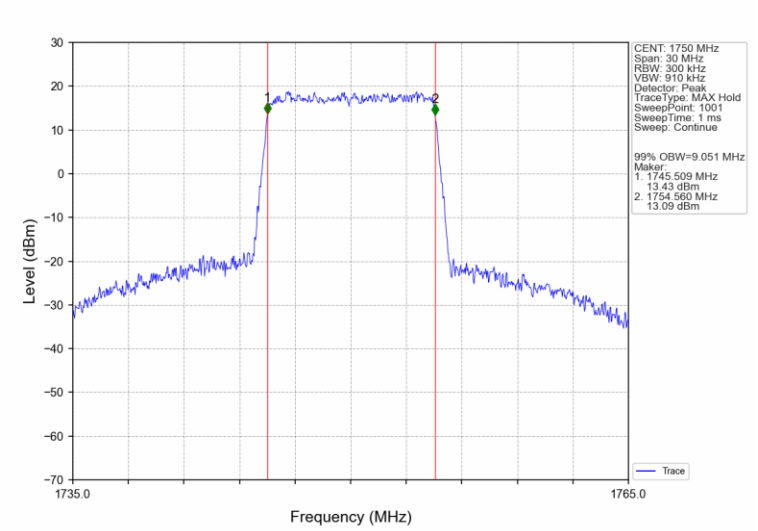
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



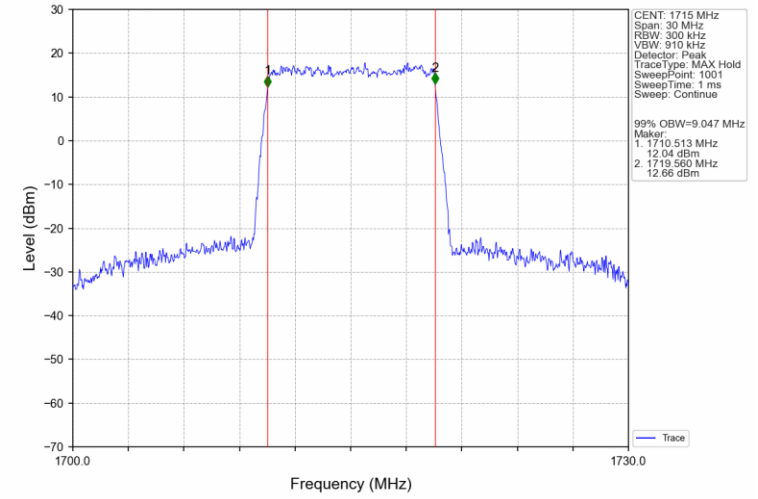

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



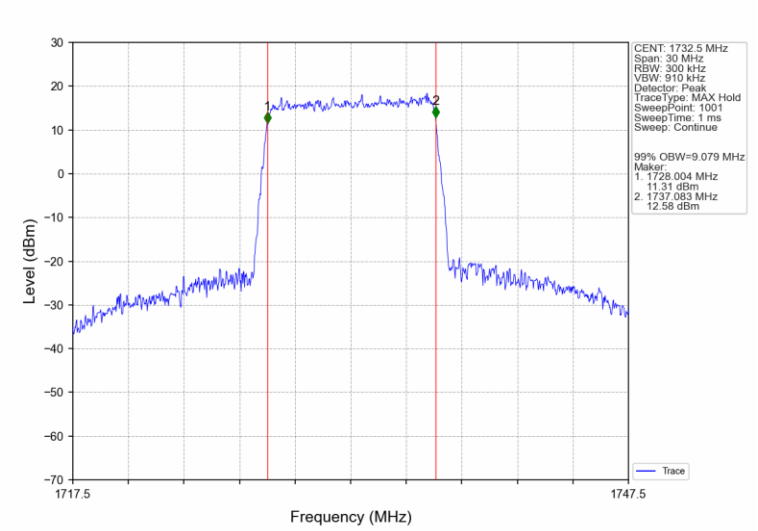
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



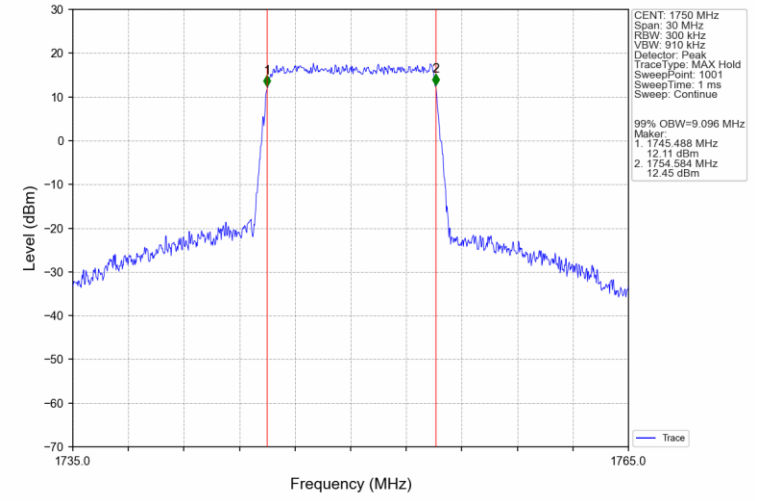

Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



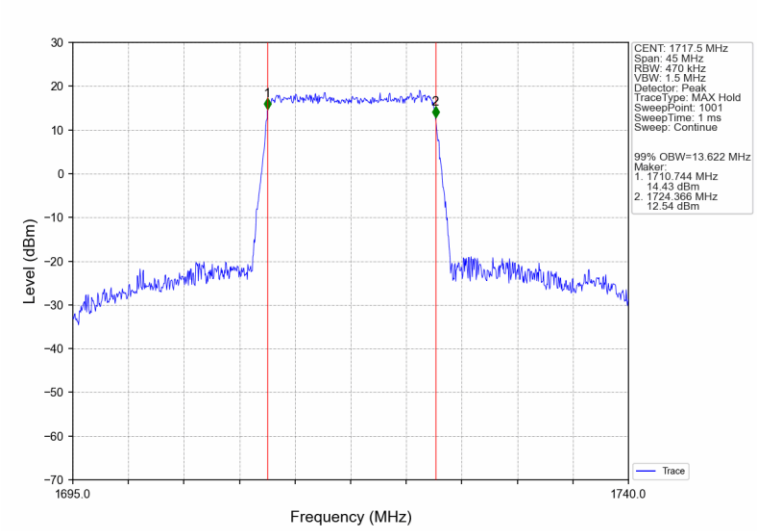
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



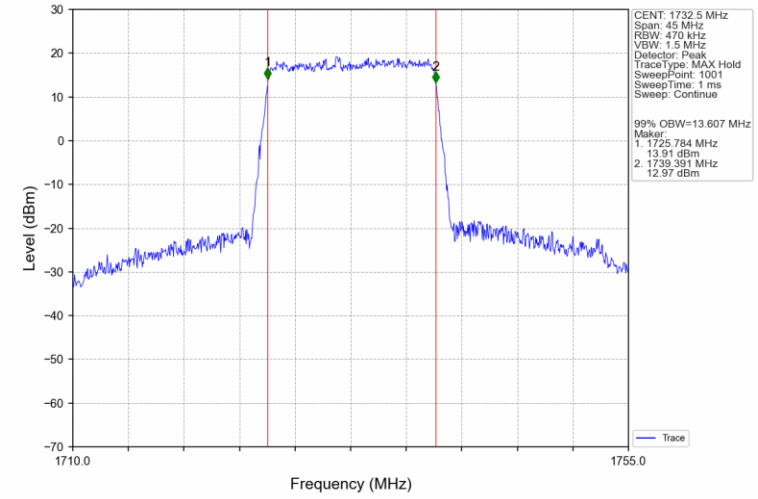

Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



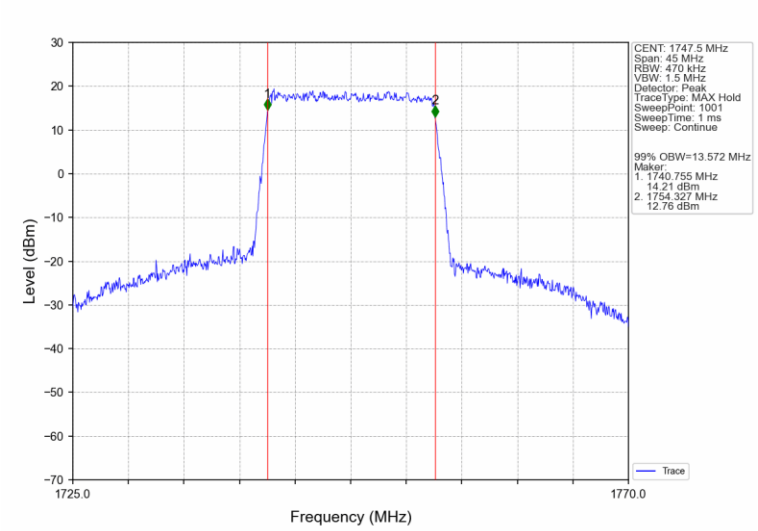
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



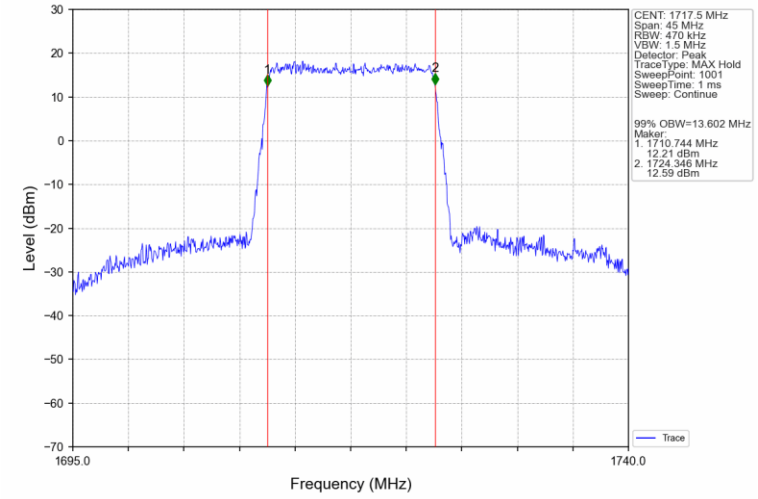

Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



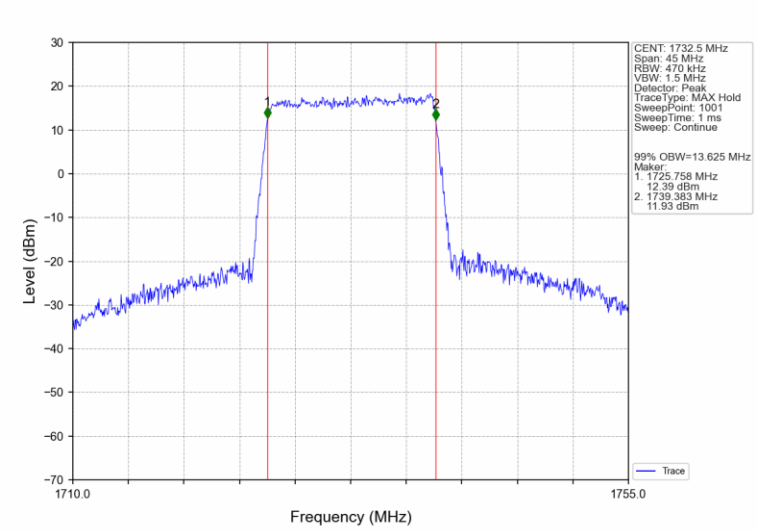
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



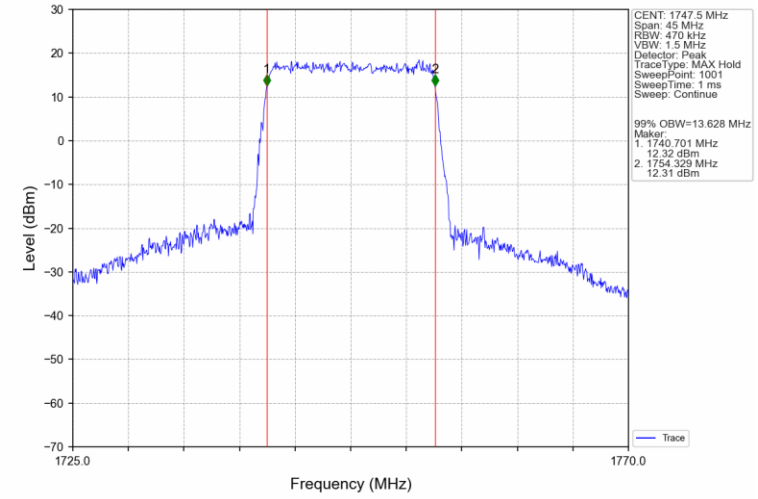

Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



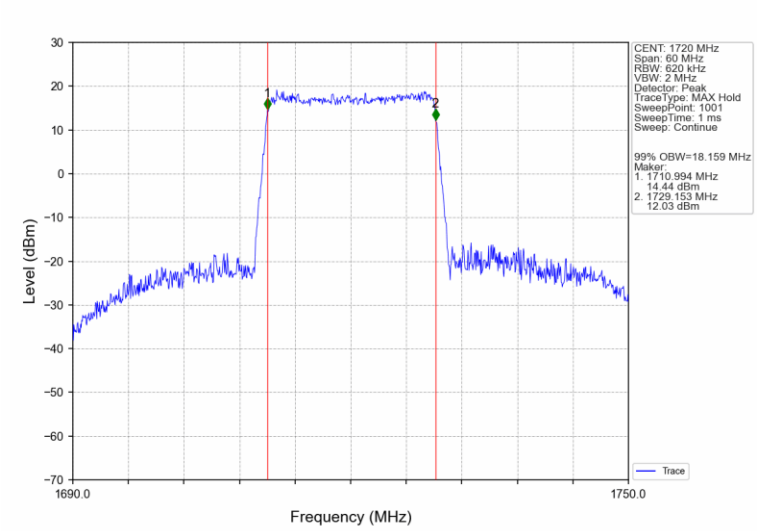
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



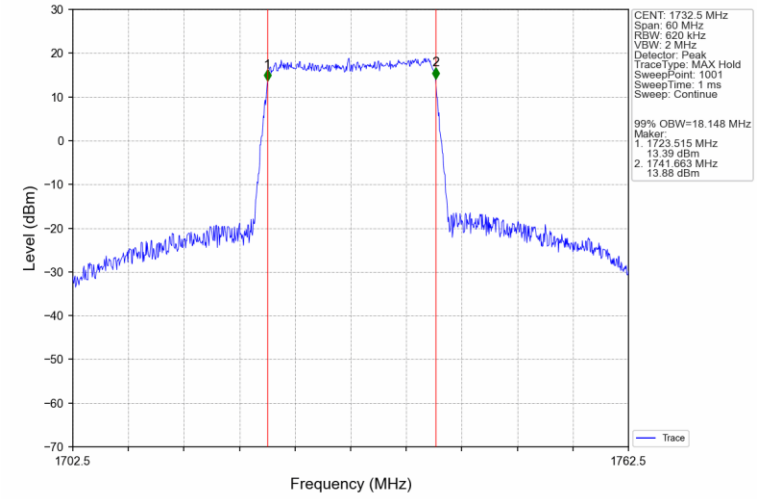

Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



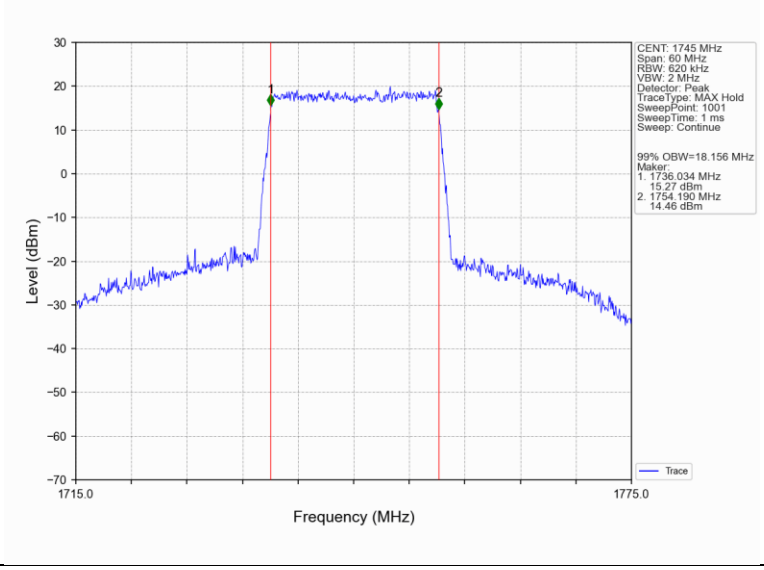
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



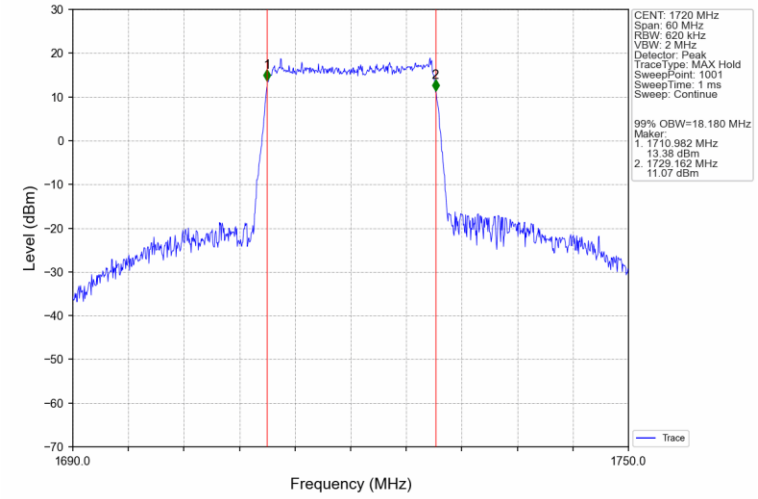

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



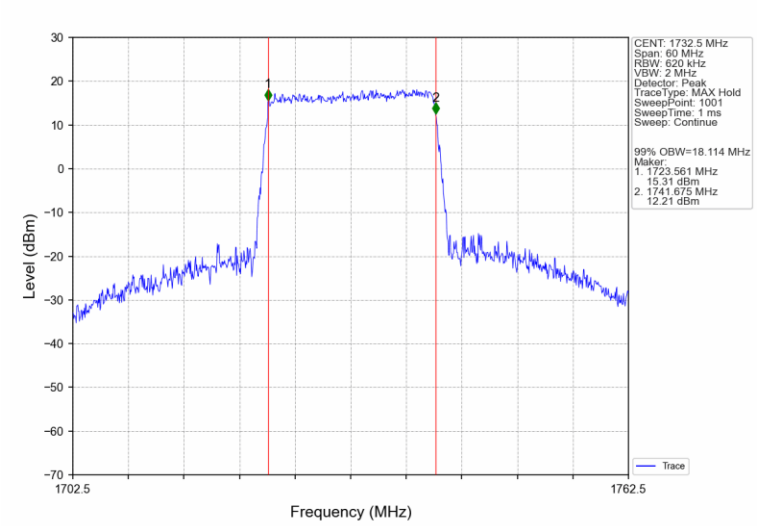
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



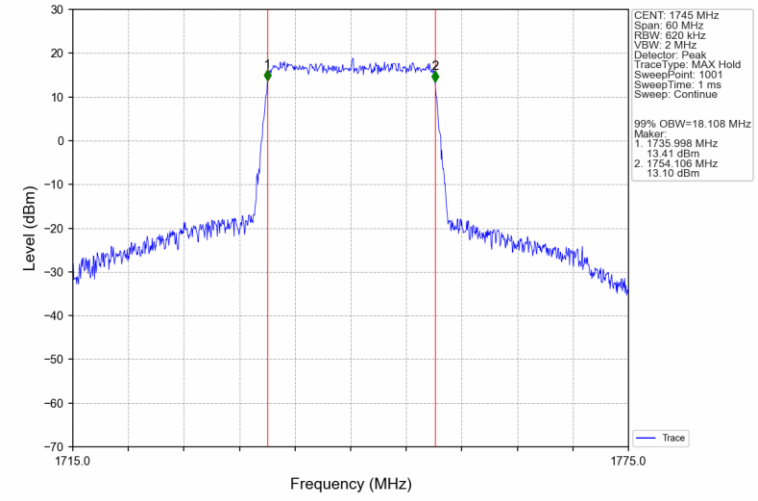

Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV

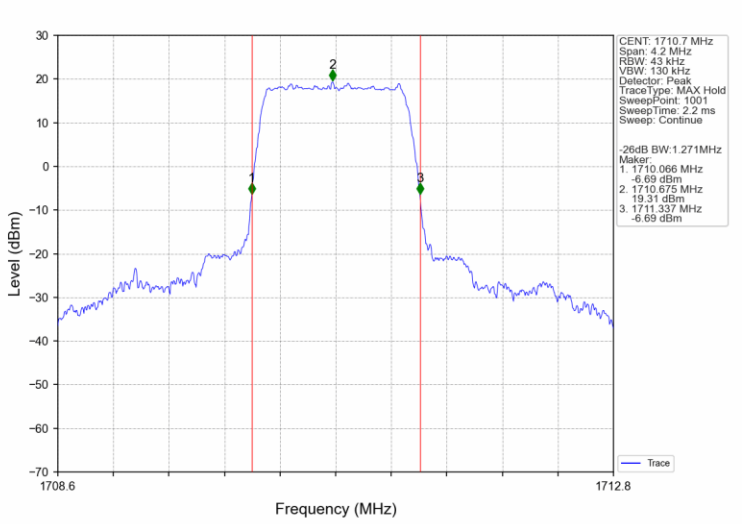



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV

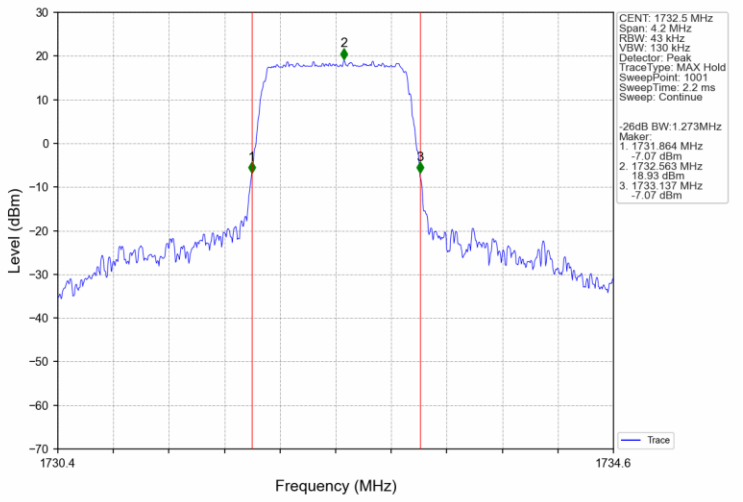


### 4.2.2 Band4_XDB

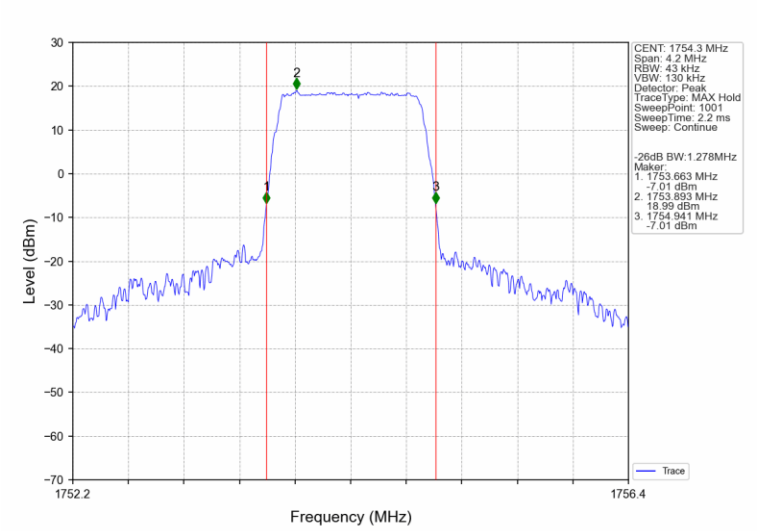
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



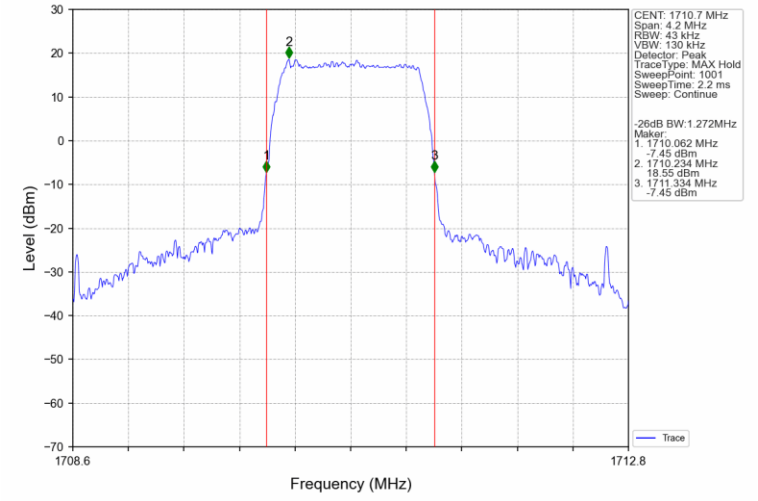

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



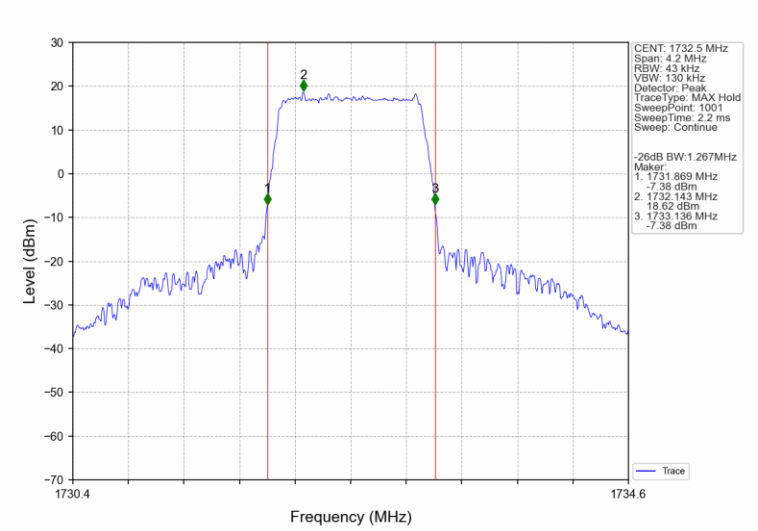
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



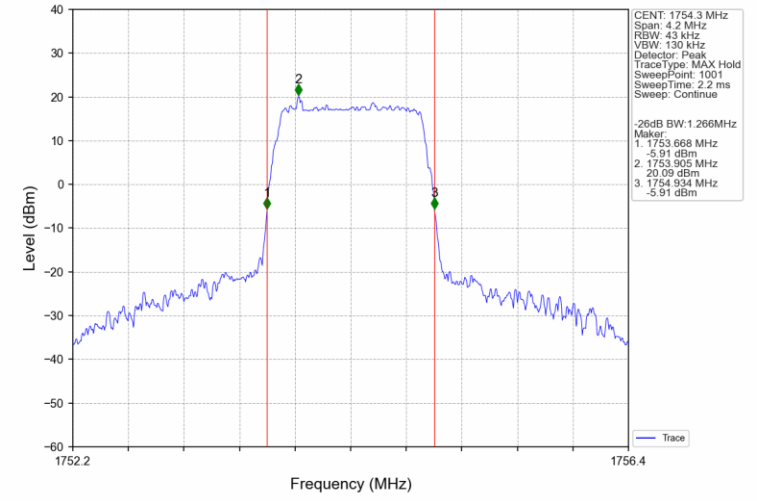

Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



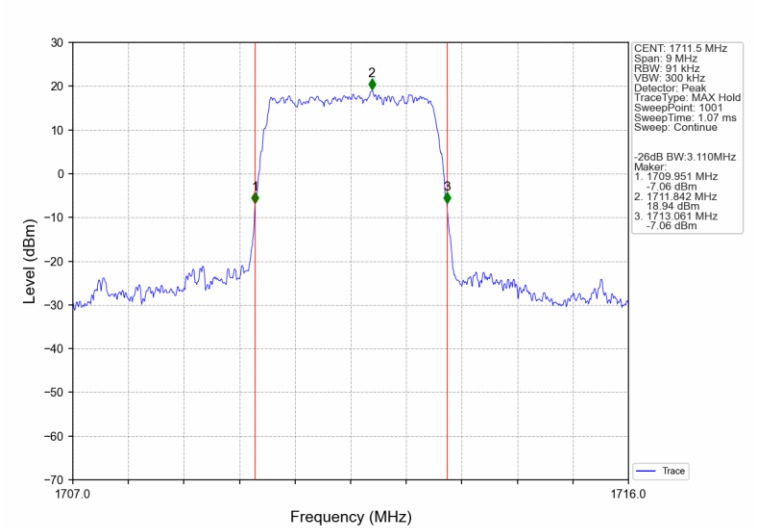
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



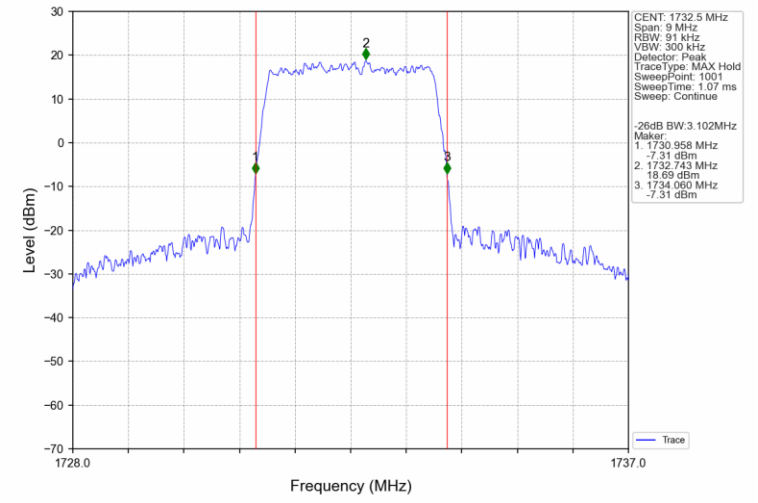

Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



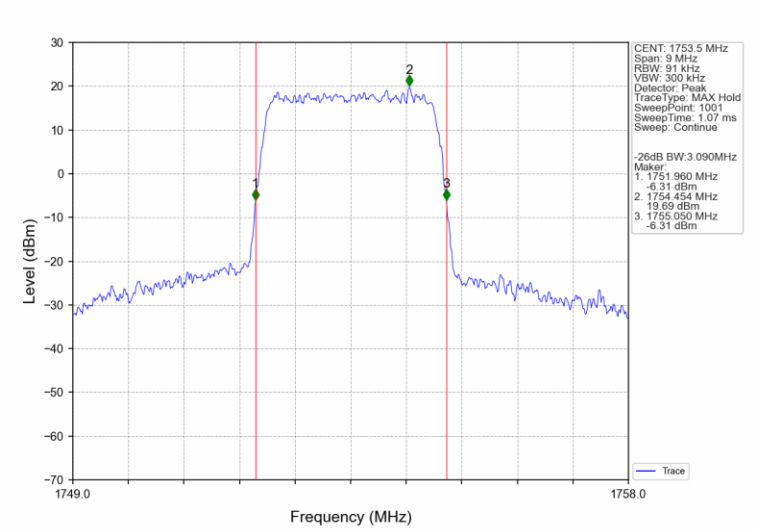
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



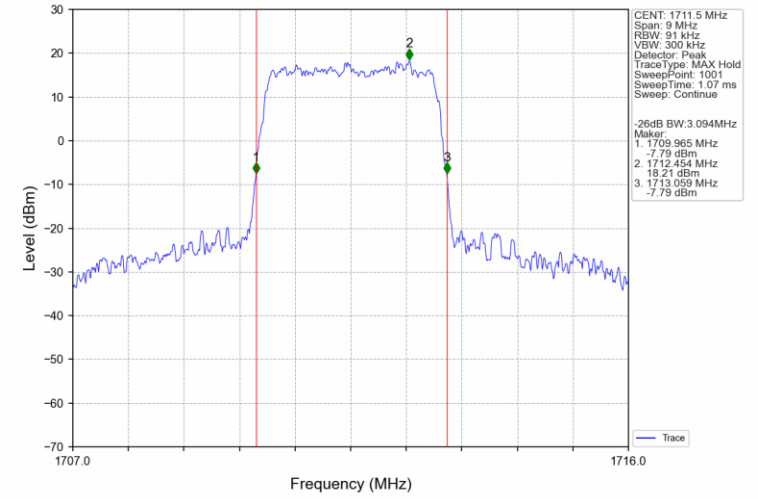

Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



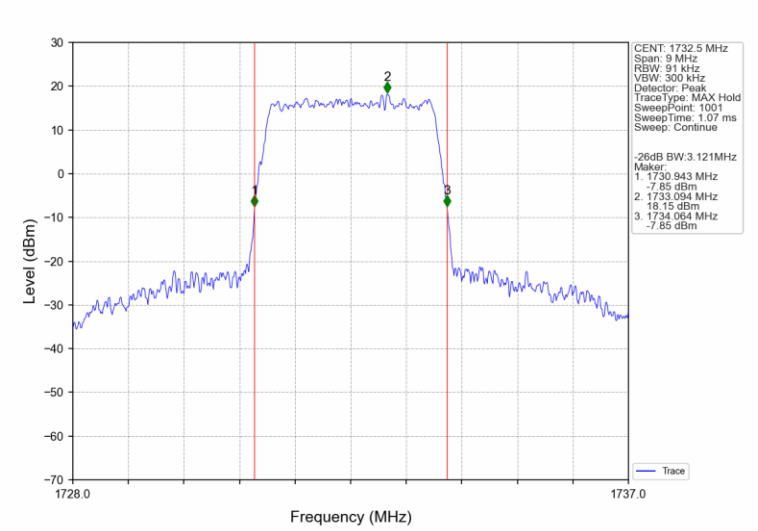
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



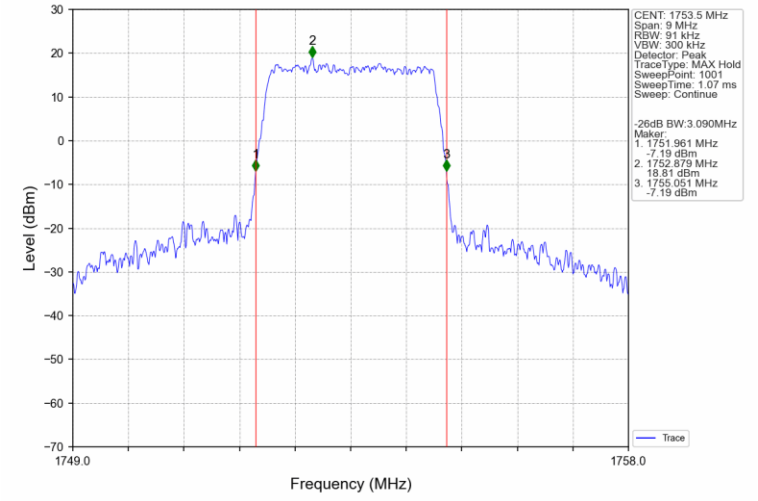

Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



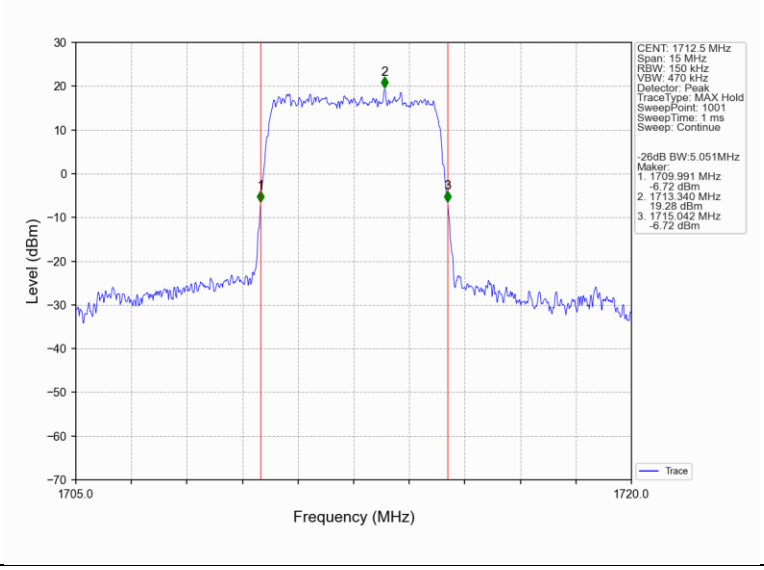
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



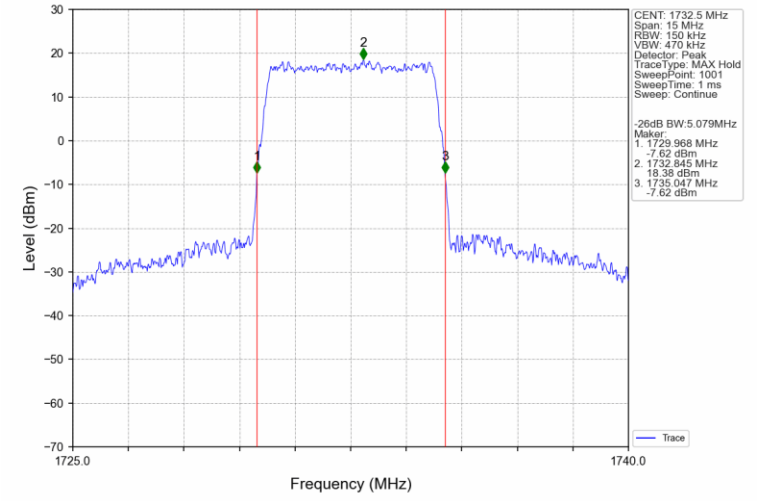

Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



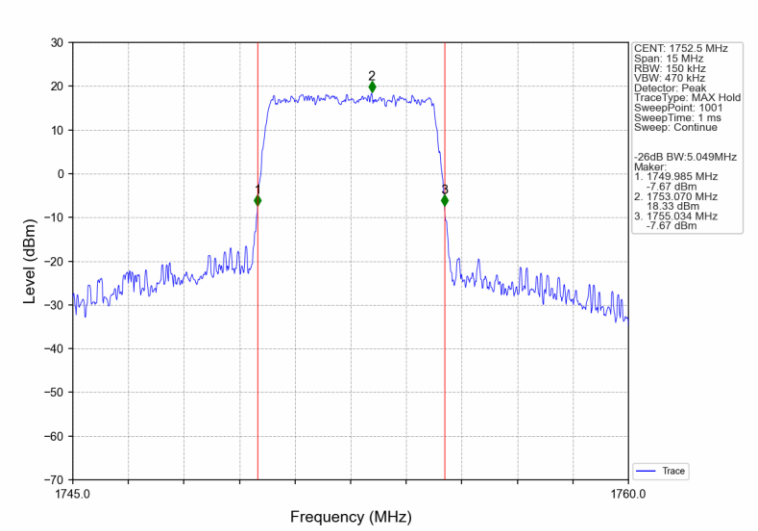
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



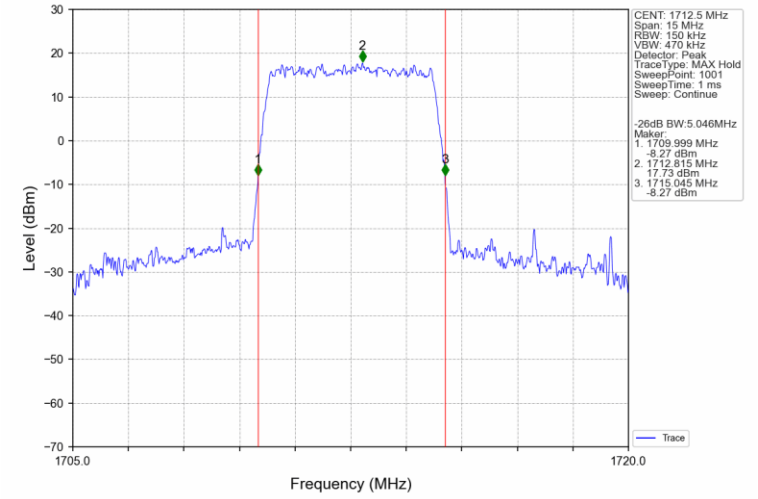

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



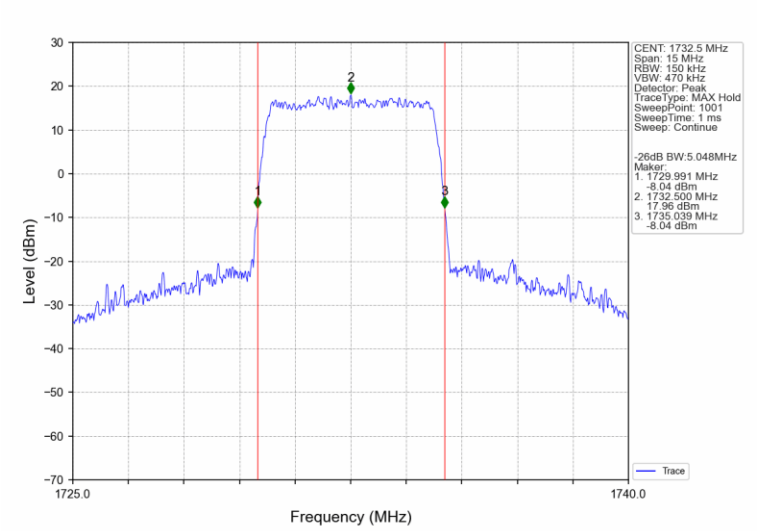
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



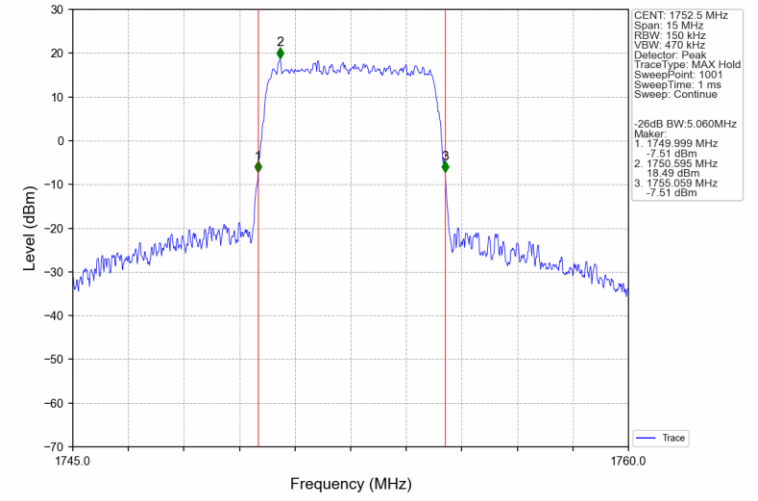

Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



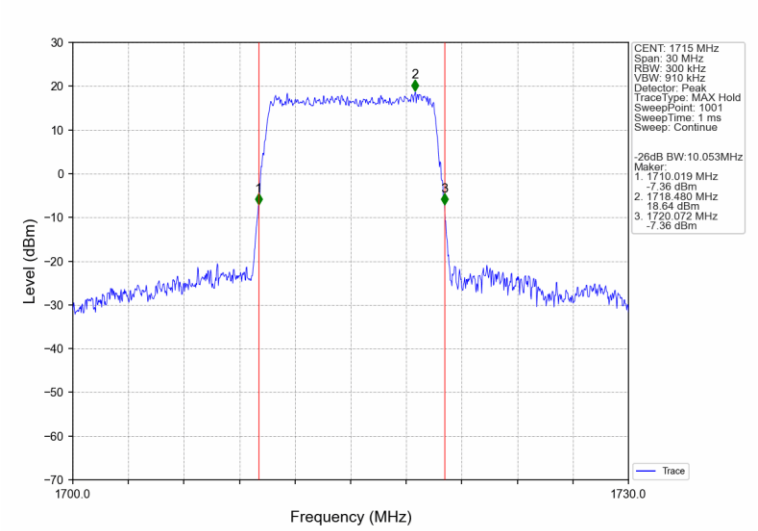
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



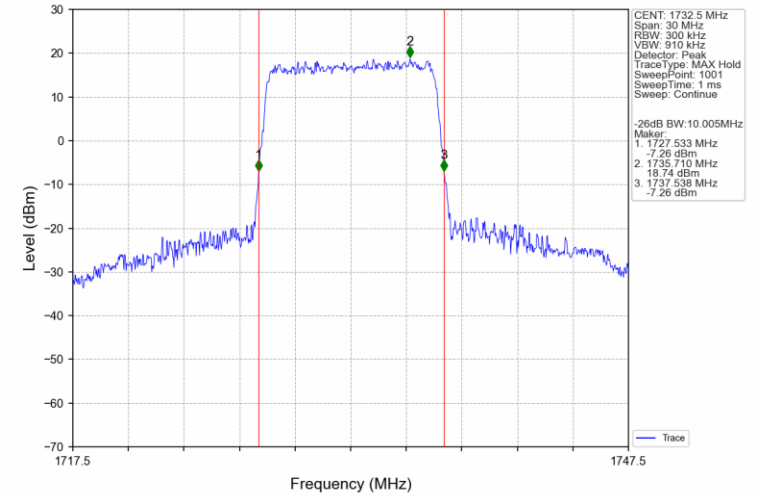

Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



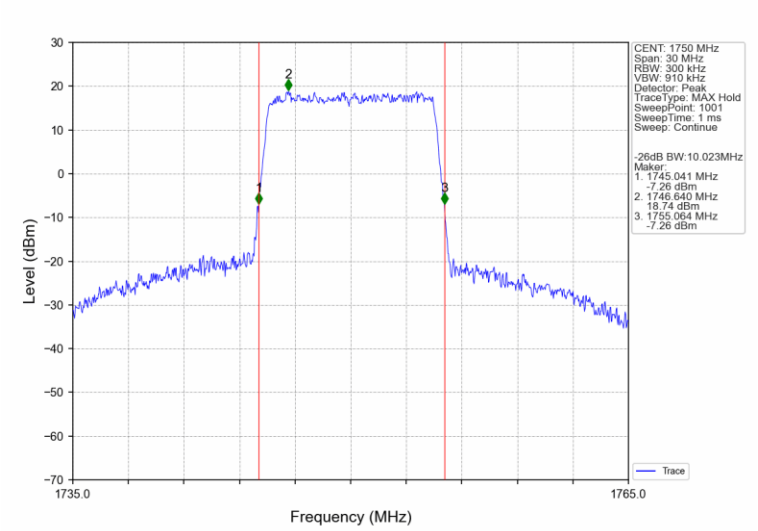
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



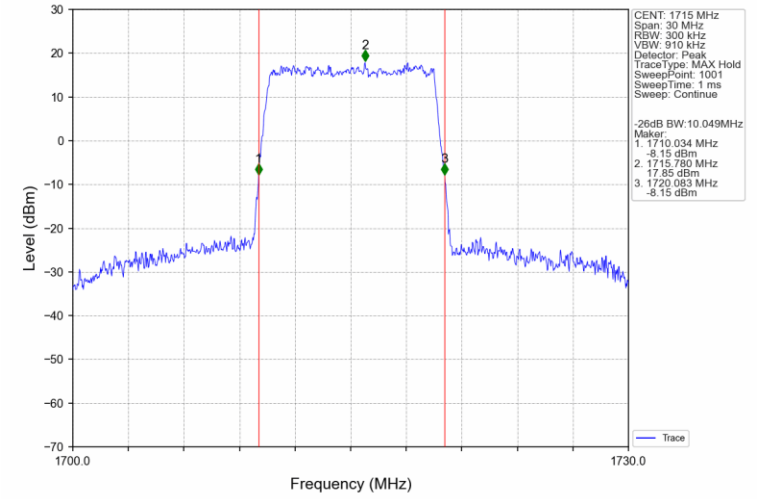

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



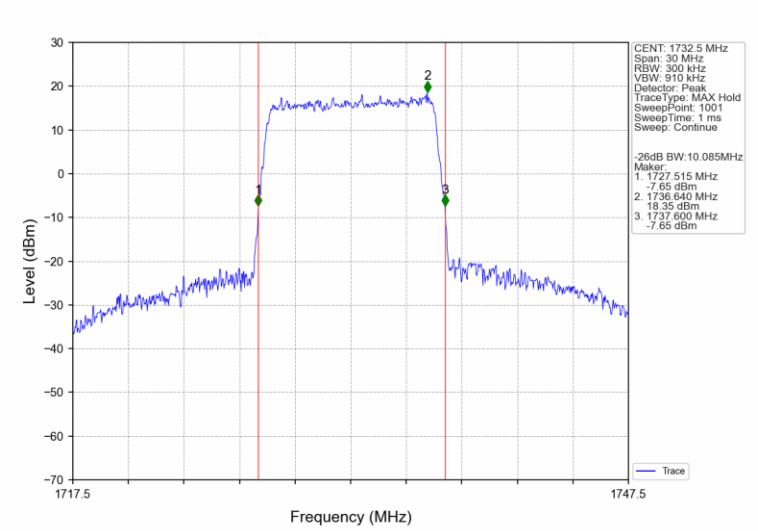
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



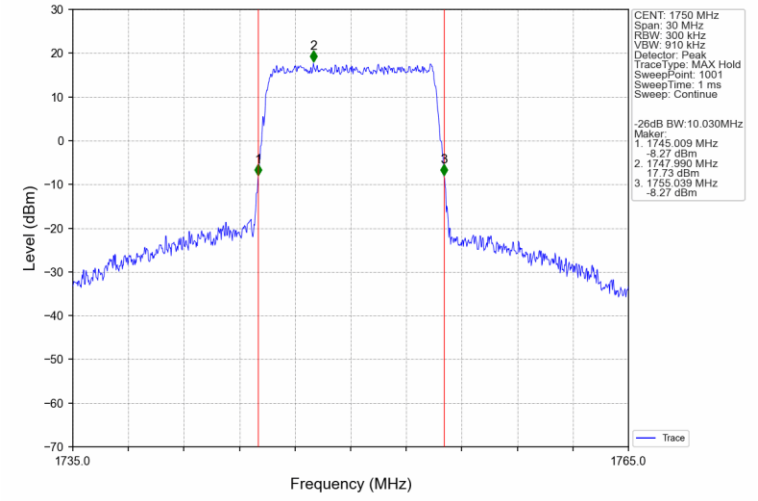

Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



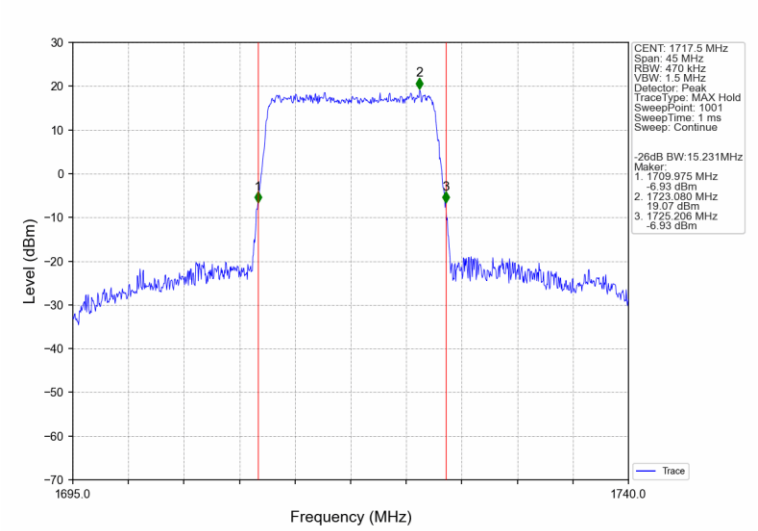
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



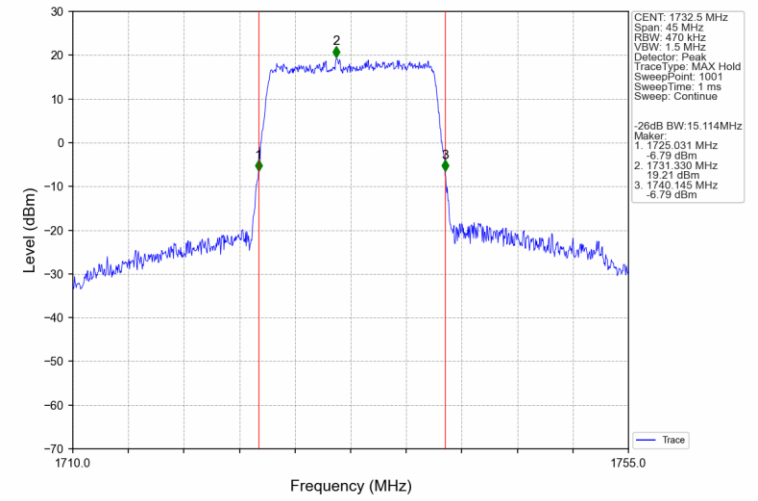

Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



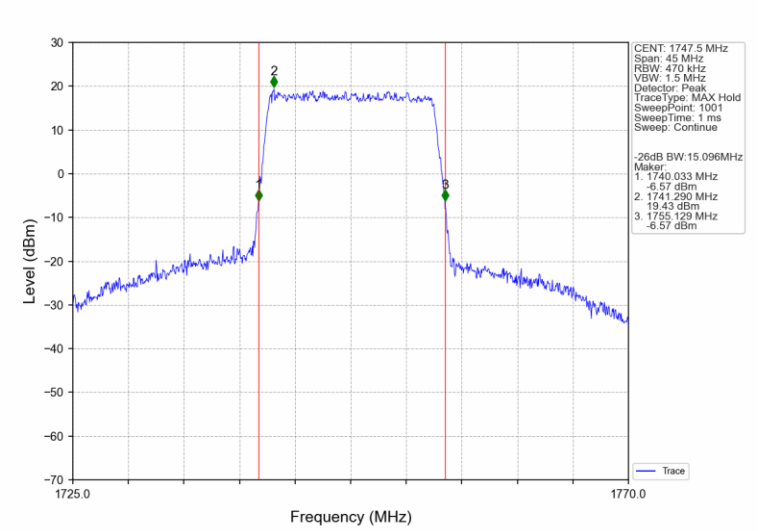
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV




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