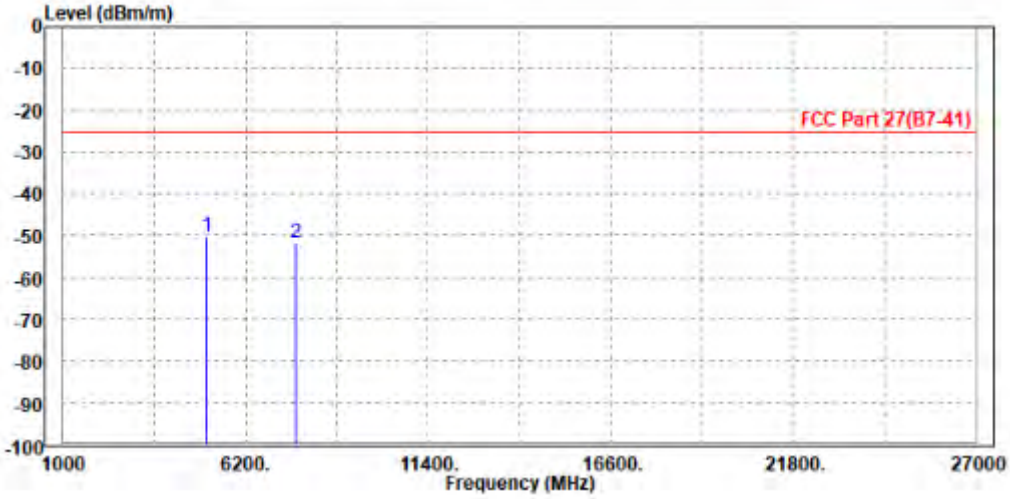
**CHANNEL BANDWIDTH: 20MHz / QPSK**

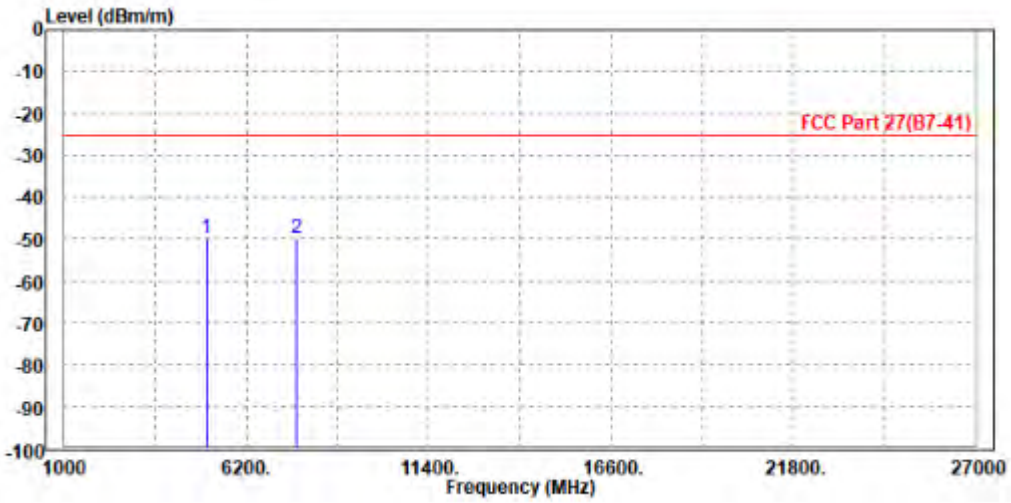
| | | | |
|---|---|---|---|
| **MODE** | TX channel 21100 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 PP | 5082.000 | -50.37 | -60.19 | -25.00 | -25.37 | 9.82 | Peak | Horizontal |
| 2 | 7605.000 | -51.89 | -64.07 | -25.00 | -26.89 | 12.18 | Peak | Horizontal |



| MODE | TX channel 21100 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

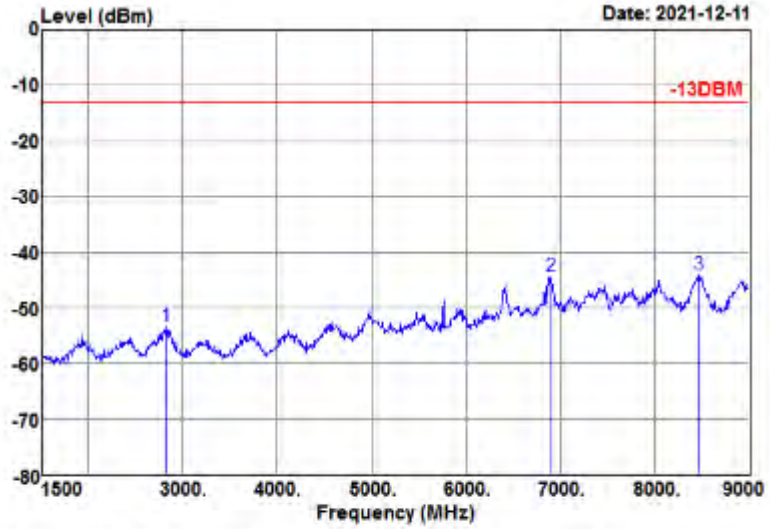
| | | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | | 5070.000 | -49.86 | -60.19 | -25.00 | -24.86 | 10.33 | Peak | Vertical |
| 2 | PP | 7604.000 | -49.70 | -64.55 | -25.00 | -24.70 | 14.85 | Peak | Vertical |



**LTE BAND 12**

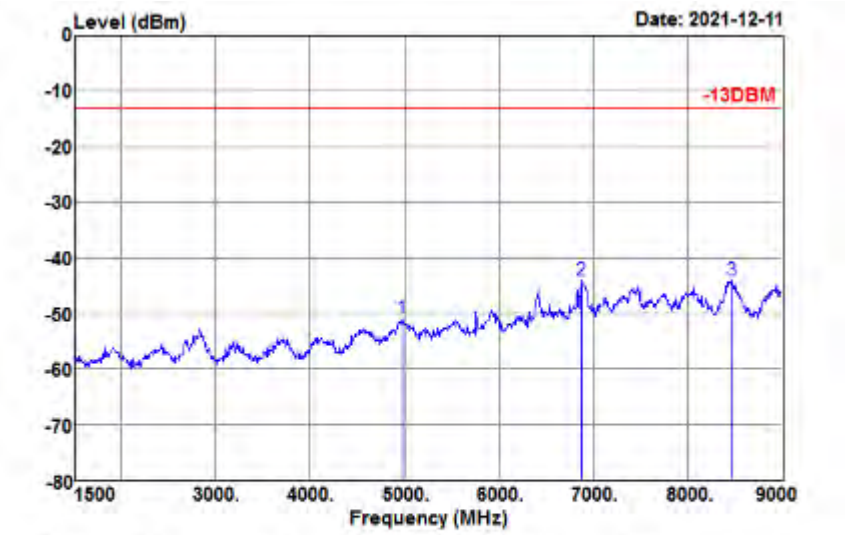
**CHANNEL BANDWIDTH: 1.4MHz / QPSK**

| | | | |
|---|---|---|---|
| **MODE** | TX channel 23095 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2835.000 | -61.10 | 7.70 | -53.40 | -13.00 | -40.40 | Peak |
| 6900.000 | -62.46 | 18.11 | -44.35 | -13.00 | -31.35 | Peak |
| 8467.500 | -63.28 | 19.26 | -44.02 | -13.00 | -31.02 | Peak |

| MODE | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

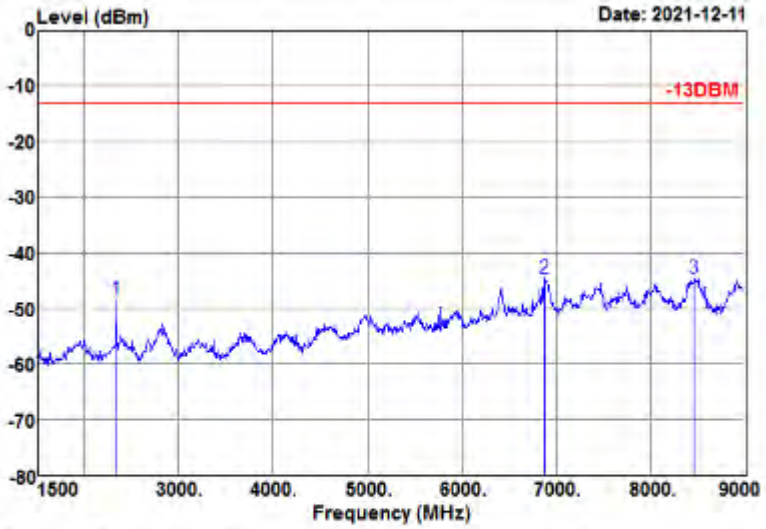



| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 4972.500 | -63.87 | 12.82 | -51.05 | -13.00 | -38.05 | Peak |
| 6877.500 | -62.61 | 18.44 | -44.17 | -13.00 | -31.17 | Peak |
| 8467.500 | -63.73 | 19.54 | -44.19 | -13.00 | -31.19 | Peak |

**CHANNEL BANDWIDTH: 3MHz / QPSK**

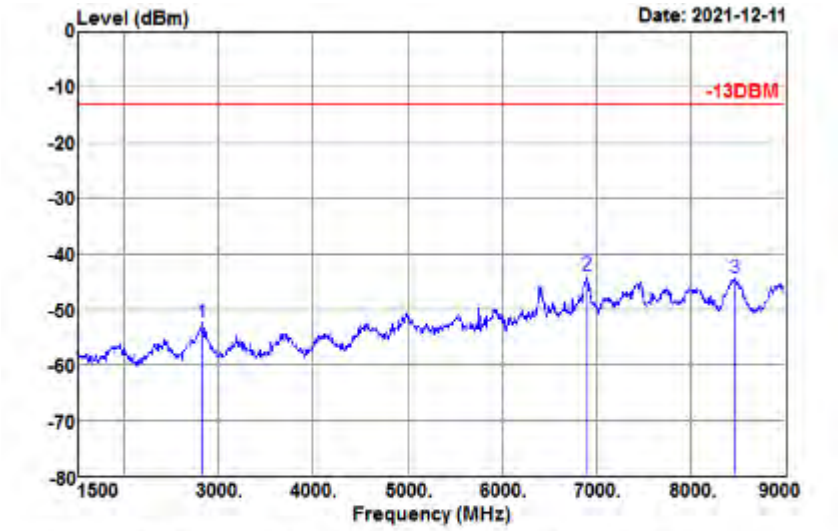
**CH23095**

| | | | |
|---|---|---|---|
| **MODE** | TX channel 23095 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2340.000 | -56.73 | 8.25 | -48.48 | -13.00 | -35.48 | Peak |
| 6885.000 | -62.74 | 18.05 | -44.69 | -13.00 | -31.69 | Peak |
| 8460.000 | -63.83 | 19.26 | -44.57 | -13.00 | -31.57 | Peak |

| MODE | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

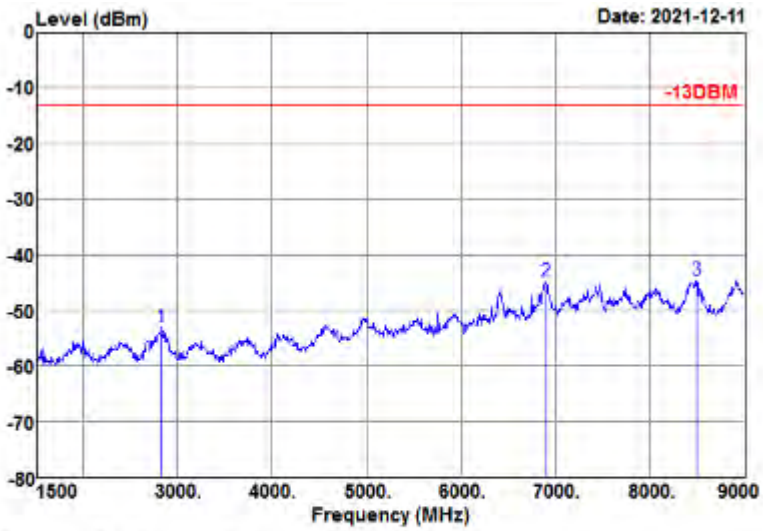



| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2835.000 | -60.52 | 8.03 | -52.49 | -13.00 | -39.49 | Peak |
| 6900.000 | -62.34 | 18.53 | -43.81 | -13.00 | -30.81 | Peak |
| 8467.500 | -63.94 | 19.54 | -44.40 | -13.00 | -31.40 | Peak |

**CHANNEL BANDWIDTH: 5MHz / QPSK**

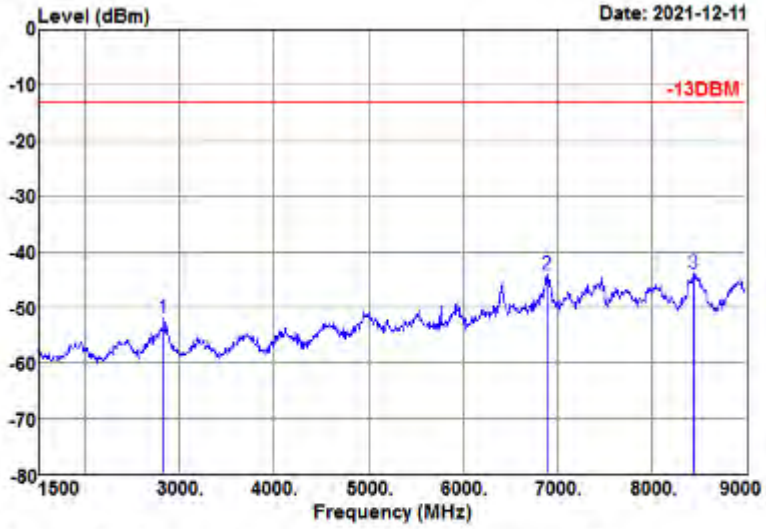
**CH23035**

| | | | |
|---|---|---|---|
| **MODE** | TX channel 23035 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2835.000 | -60.86 | 7.70 | -53.16 | -13.00 | -40.16 | Peak |
| 6907.500 | -62.89 | 18.15 | -44.74 | -13.00 | -31.74 | Peak |
| 8505.000 | -63.96 | 19.28 | -44.68 | -13.00 | -31.68 | Peak |

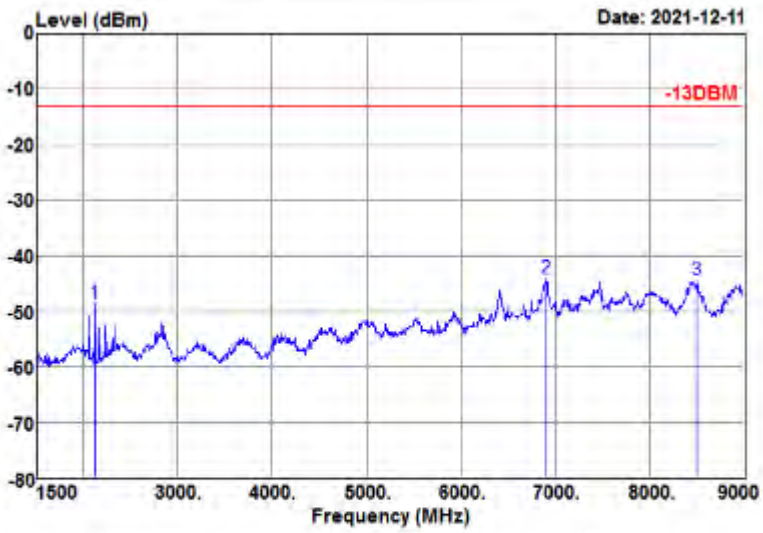
| MODE | TX channel 23035 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2835.000 | -59.88 | 8.03 | -51.85 | -13.00 | -38.85 | Peak |
| 6892.500 | -62.64 | 18.50 | -44.14 | -13.00 | -31.14 | Peak |
| 8445.000 | -63.50 | 19.54 | -43.96 | -13.00 | -30.96 | Peak |

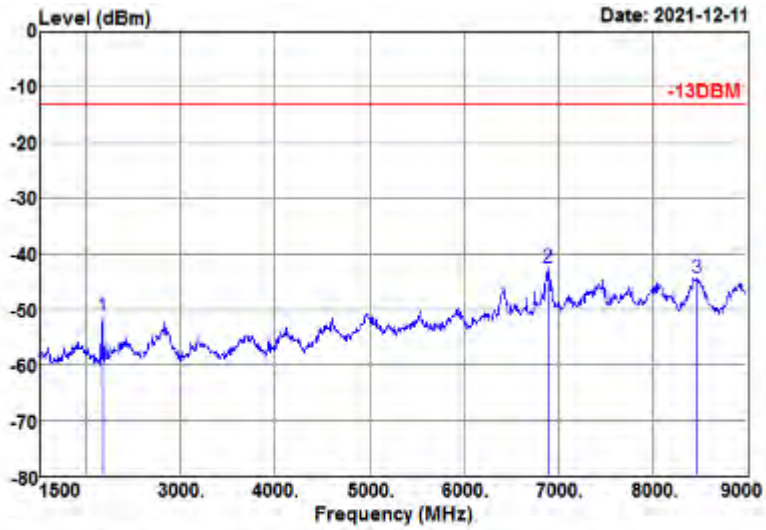
**CH23095**

| | | | |
|---|---|---|---|
| **MODE** | TX channel 23095 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2130.000 | -56.42 | 7.80 | -48.62 | -13.00 | -35.62 | Peak |
| 6900.000 | -62.17 | 18.11 | -44.06 | -13.00 | -31.06 | Peak |
| 8505.000 | -63.72 | 19.28 | -44.44 | -13.00 | -31.44 | Peak |

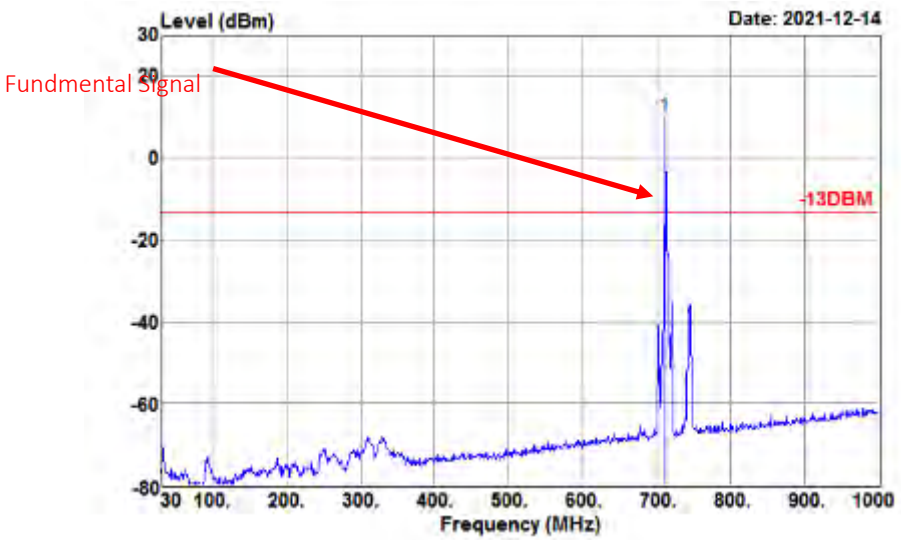
| MODE | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

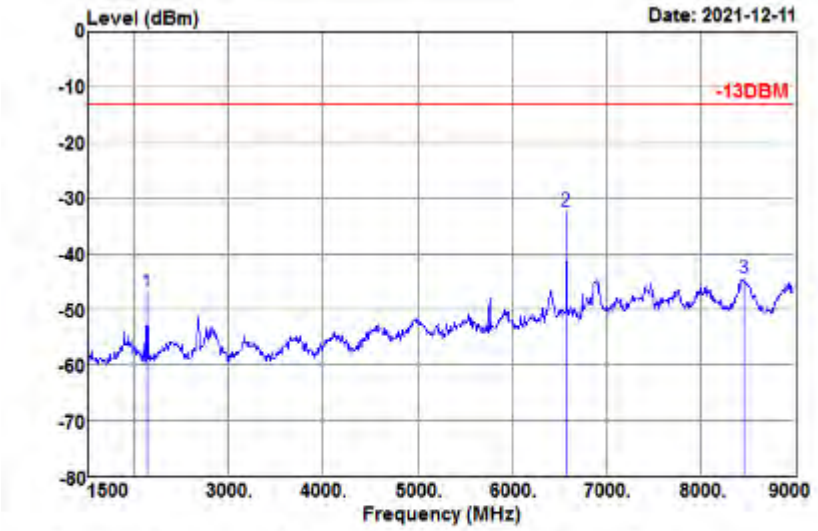



| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2175.000 | -58.65 | 7.51 | -51.14 | -13.00 | -38.14 | Peak |
| 6892.500 | -61.05 | 18.50 | -42.55 | -13.00 | -29.55 | Peak |
| 8475.000 | -63.84 | 19.54 | -44.30 | -13.00 | -31.30 | Peak |

**CH23155**

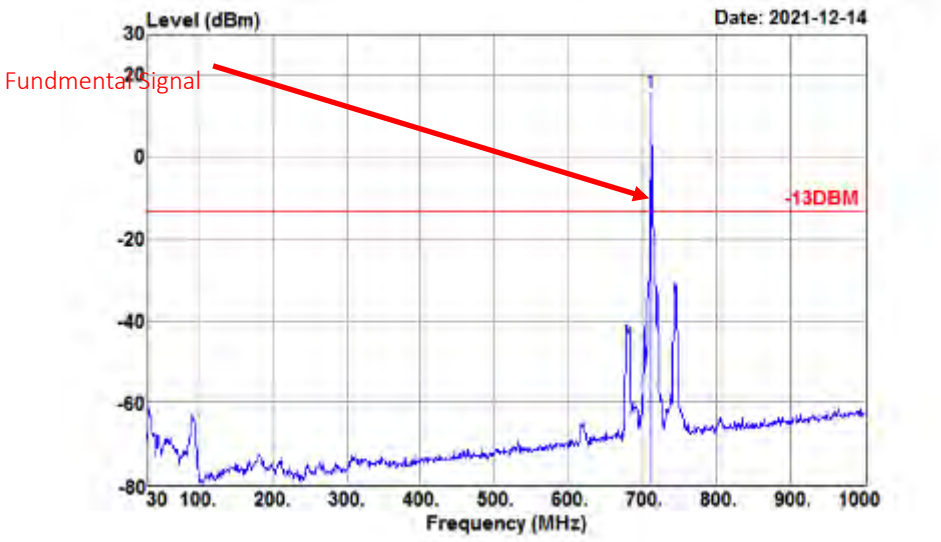
| | | | |
|---|---|---|---|
| **MODE** | TX channel 23155 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |

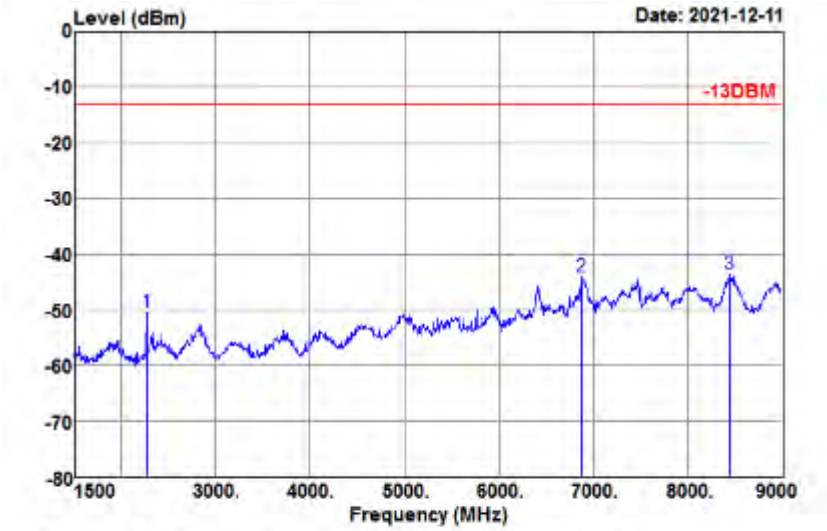



| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2137.500 | -54.82 | 7.82 | -47.00 | -13.00 | -34.00 | Peak |
| 6577.500 | -48.95 | 16.74 | -32.21 | -13.00 | -19.21 | Peak |
| 8460.000 | -63.61 | 19.26 | -44.35 | -13.00 | -31.35 | Peak |

| MODE | TX channel 23155 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

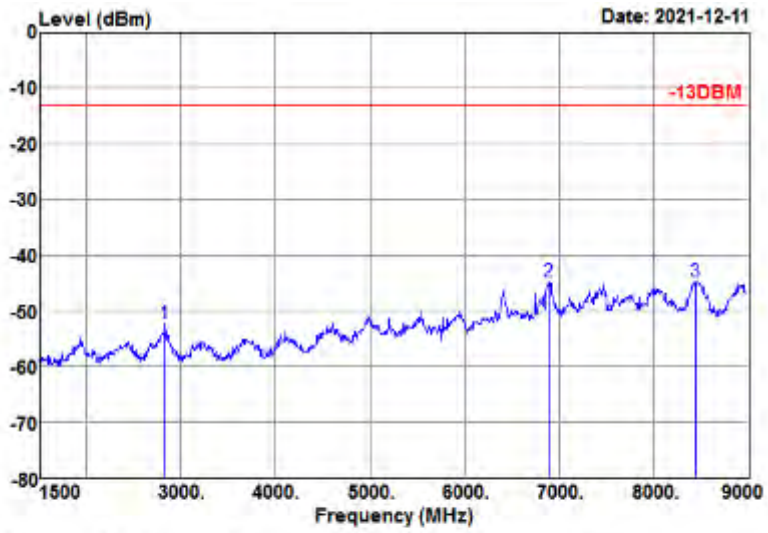



| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2272.500 | -58.24 | 7.81 | -50.43 | -13.00 | -37.43 | Peak |
| 6877.500 | -62.61 | 18.44 | -44.17 | -13.00 | -31.17 | Peak |
| 8445.000 | -63.28 | 19.54 | -43.74 | -13.00 | -30.74 | Peak |

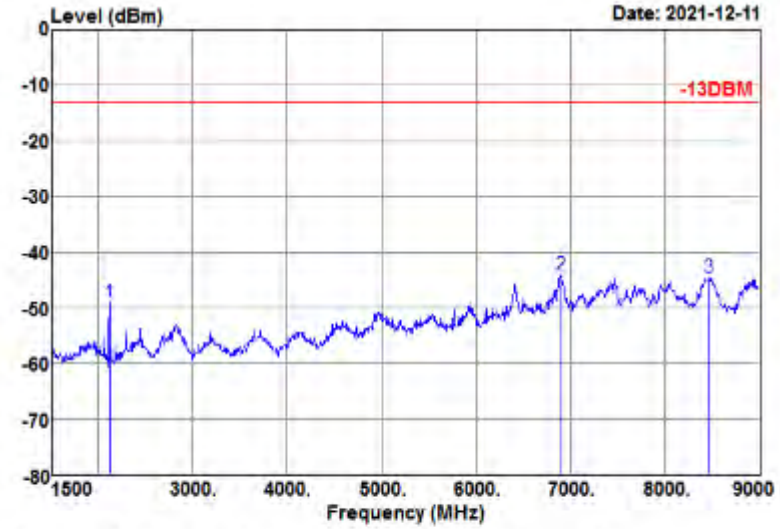
**CHANNEL BANDWIDTH: 10MHz / QPSK**

| | | | |
|---|---|---|---|
| **MODE** | TX channel 23095 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2835.000 | -60.04 | 7.70 | -52.34 | -13.00 | -39.34 | Peak |
| 6892.500 | -62.96 | 18.08 | -44.88 | -13.00 | -31.88 | Peak |
| 8445.000 | -63.98 | 19.26 | -44.72 | -13.00 | -31.72 | Peak |

| MODE | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |



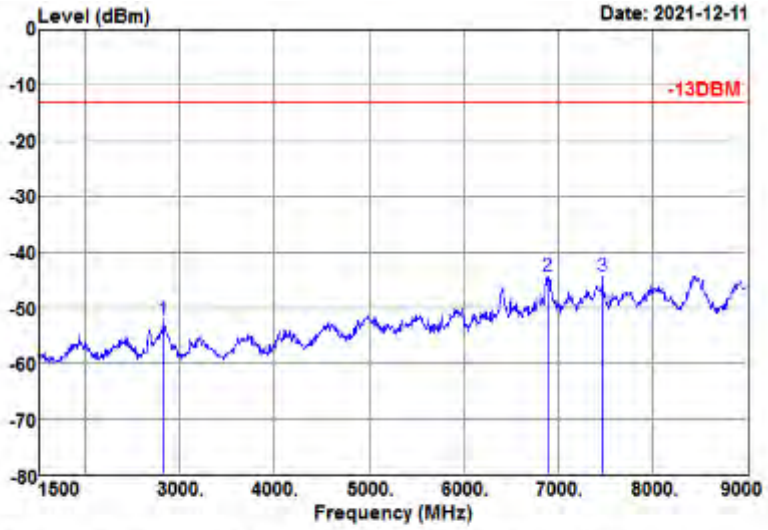

| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2122.500 | -56.35 | 7.36 | -48.99 | -13.00 | -35.99 | Peak |
| 6900.000 | -62.71 | 18.53 | -44.18 | -13.00 | -31.18 | Peak |
| 8475.000 | -64.22 | 19.54 | -44.68 | -13.00 | -31.68 | Peak |

**LTE B13**

**CHANNEL BANDWIDTH: 5MHz / QPSK**

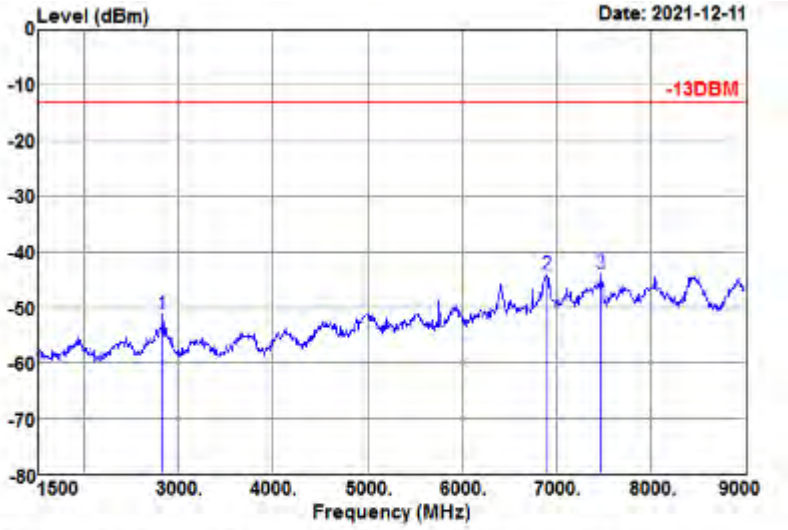
**CH23205**

| | | | |
|---|---|---|---|
| **MODE** | TX channel 23205 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2835.000 | -59.87 | 7.70 | -52.17 | -13.00 | -39.17 | Peak |
| 6892.500 | -62.38 | 18.08 | -44.30 | -13.00 | -31.30 | Peak |
| 7470.000 | -64.71 | 20.44 | -44.27 | -13.00 | -31.27 | Peak |

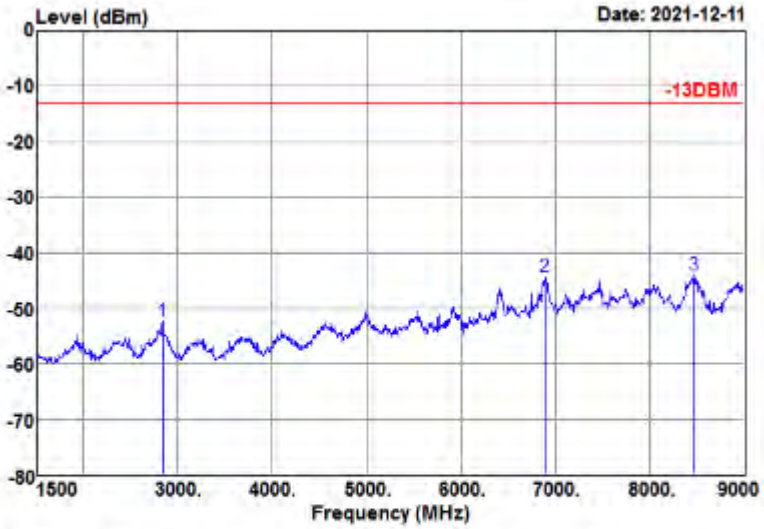
| MODE | TX channel 23205 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2835.000 | -59.16 | 8.03 | -51.13 | -13.00 | -38.13 | Peak |
| 6900.000 | -62.57 | 18.53 | -44.04 | -13.00 | -31.04 | Peak |
| 7470.000 | -64.85 | 20.99 | -43.86 | -13.00 | -30.86 | Peak |

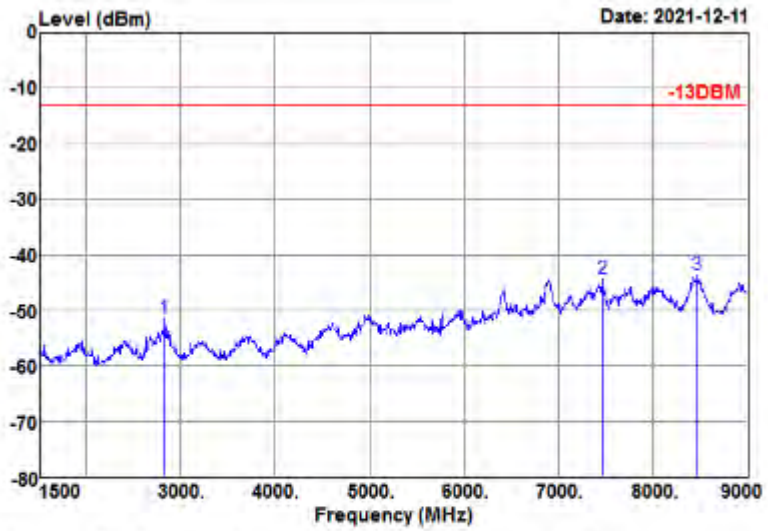
**CH23230**

| | | | |
|---|---|---|---|
| **MODE** | TX channel 23230 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2842.500 | -60.05 | 7.66 | -52.39 | -13.00 | -39.39 | Peak |
| 6892.500 | -62.40 | 18.08 | -44.32 | -13.00 | -31.32 | Peak |
| 8467.500 | -63.34 | 19.26 | -44.08 | -13.00 | -31.08 | Peak |

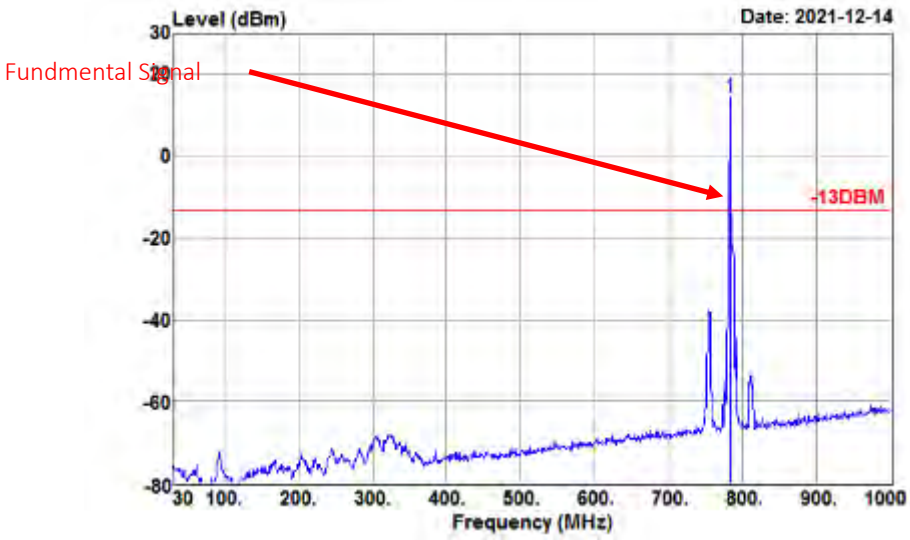
| MODE | TX channel 23230 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

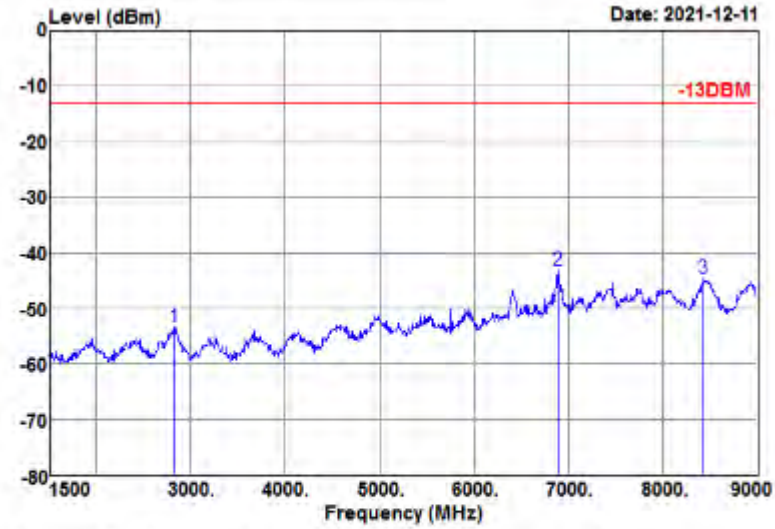



| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2835.000 | -59.53 | 8.03 | -51.50 | -13.00 | -38.50 | Peak |
| 7470.000 | -65.26 | 20.99 | -44.27 | -13.00 | -31.27 | Peak |
| 8475.000 | -63.21 | 19.54 | -43.67 | -13.00 | -30.67 | Peak |

**CH23255**

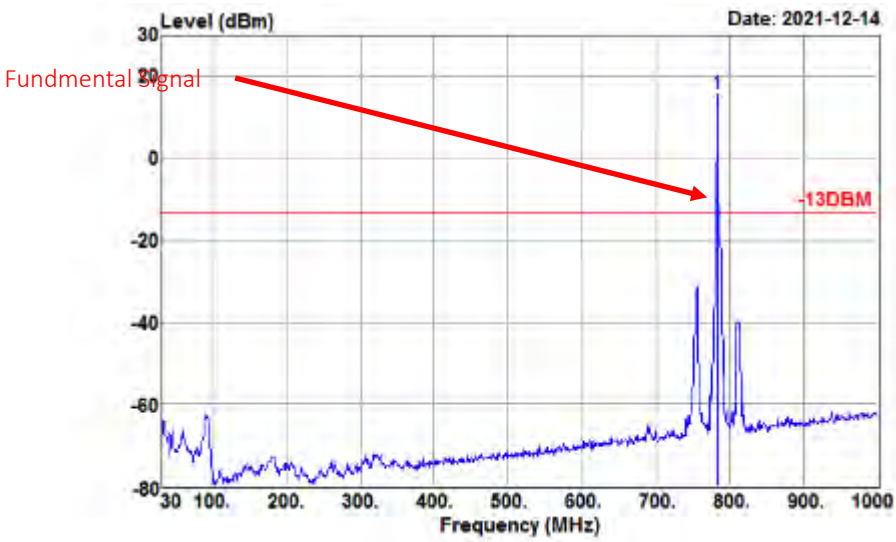
| MODE | TX channel 23255 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

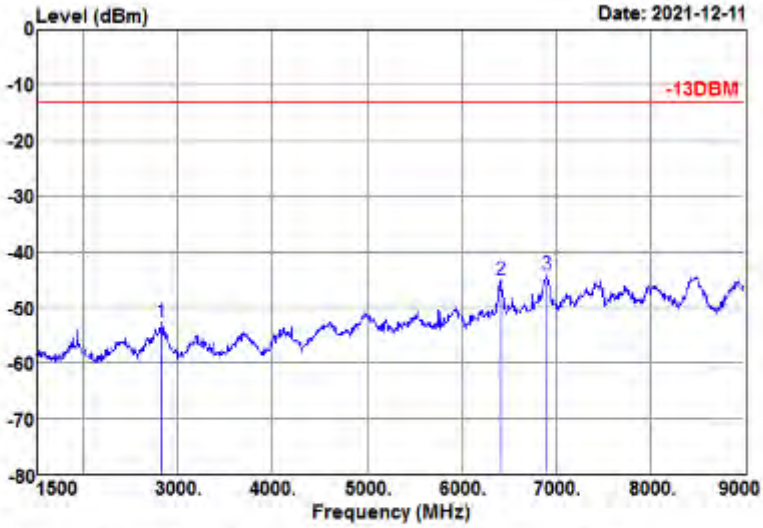



| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2835.000 | -61.05 | 7.70 | -53.35 | -13.00 | -40.35 | Peak |
| 6892.500 | -61.15 | 18.08 | -43.07 | -13.00 | -30.07 | Peak |
| 8437.500 | -63.82 | 19.26 | -44.56 | -13.00 | -31.56 | Peak |

| MODE | TX channel 23255 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

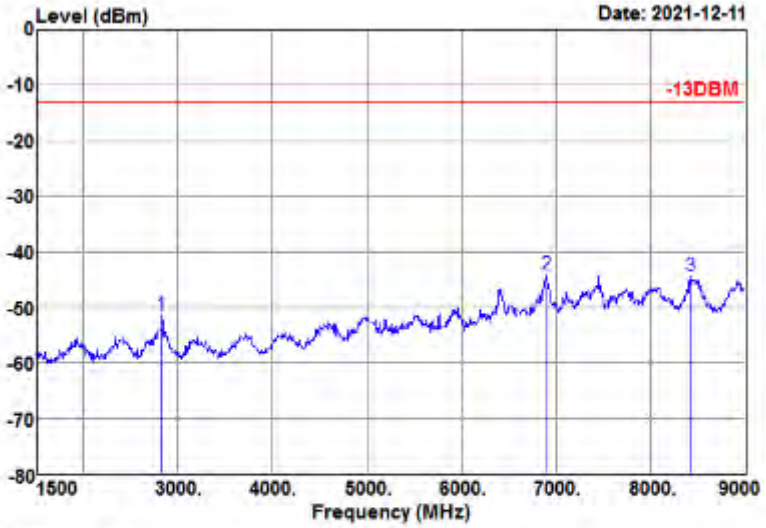



| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2835.000 | -60.70 | 8.03 | -52.67 | -13.00 | -39.67 | Peak |
| 6420.000 | -61.48 | 16.50 | -44.98 | -13.00 | -31.98 | Peak |
| 6907.500 | -62.80 | 18.57 | -44.23 | -13.00 | -31.23 | Peak |

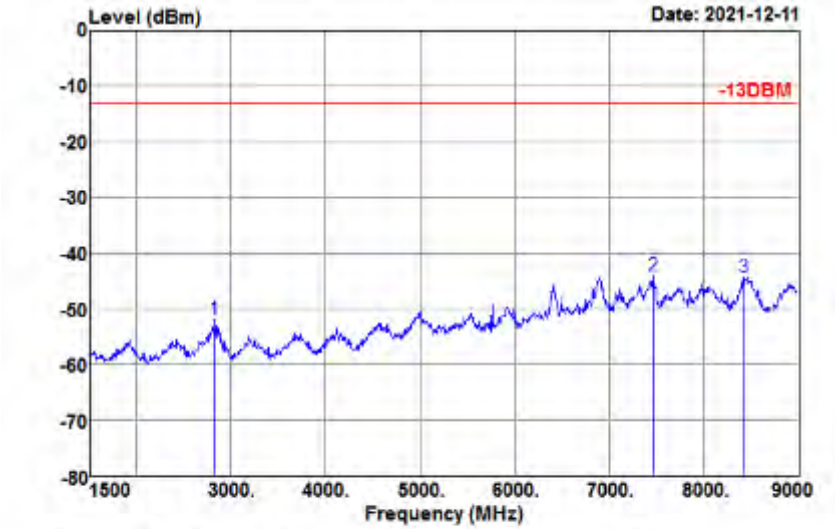
**CHANNEL BANDWIDTH: 10MHz /QPSK**

| | | | |
|---|---|---|---|
| **MODE** | TX channel 23230 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2835.000 | -59.15 | 7.70 | -51.45 | -13.00 | -38.45 | Peak |
| 6900.000 | -62.25 | 18.11 | -44.14 | -13.00 | -31.14 | Peak |
| 8430.000 | -63.69 | 19.25 | -44.44 | -13.00 | -31.44 | Peak |

| MODE | TX channel 23230 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 2835.000 | -59.84 | 8.03 | -51.81 | -13.00 | -38.81 | Peak |
| 7470.000 | -65.22 | 20.99 | -44.23 | -13.00 | -31.23 | Peak |
| 8430.000 | -63.84 | 19.53 | -44.31 | -13.00 | -31.31 | Peak |

**LTE B17**

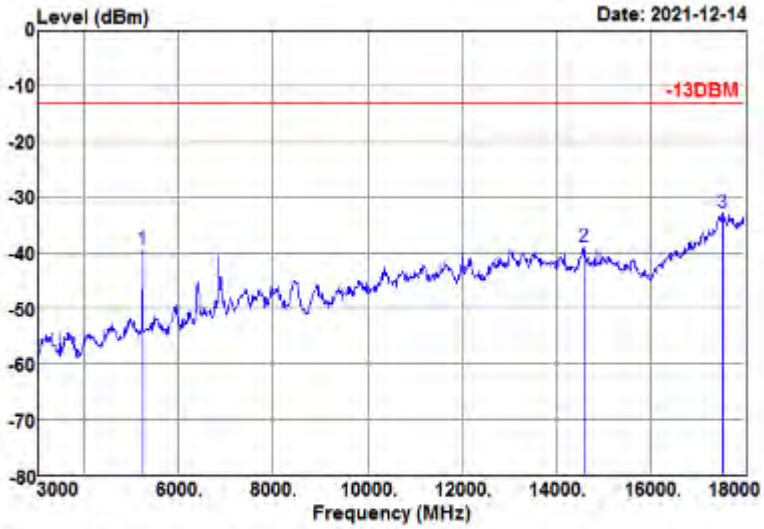
**NOTE:**

**The data of LTE17 is contained in LTE12, and the data only reflects the segments of LTE 12.**

**LTE B66**

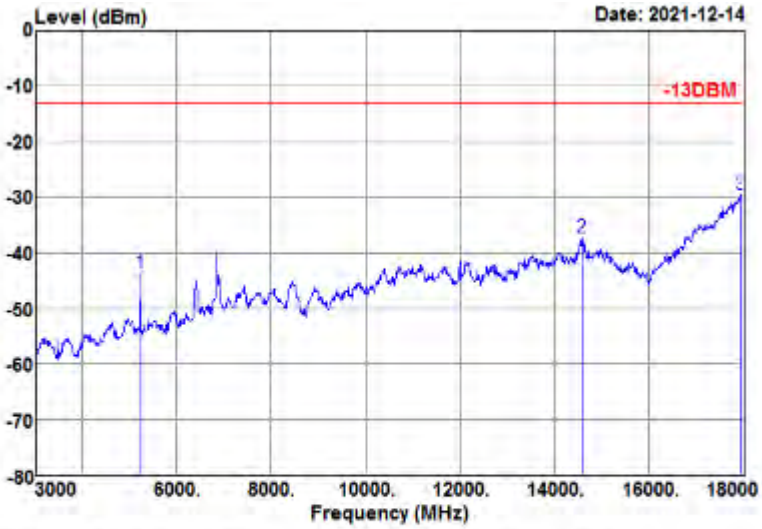
**CHANNEL BANDWIDTH: 1.4MHz / QPSK**

| | | | |
|---|---|---|---|
| **MODE** | TX channel 132322 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 5235.000 | -52.12 | 12.67 | -39.45 | -13.00 | -26.45 | Peak |
| 14595.000 | -65.52 | 26.53 | -38.99 | -13.00 | -25.99 | Peak |
| 17520.000 | -68.50 | 35.79 | -32.71 | -13.00 | -19.71 | Peak |

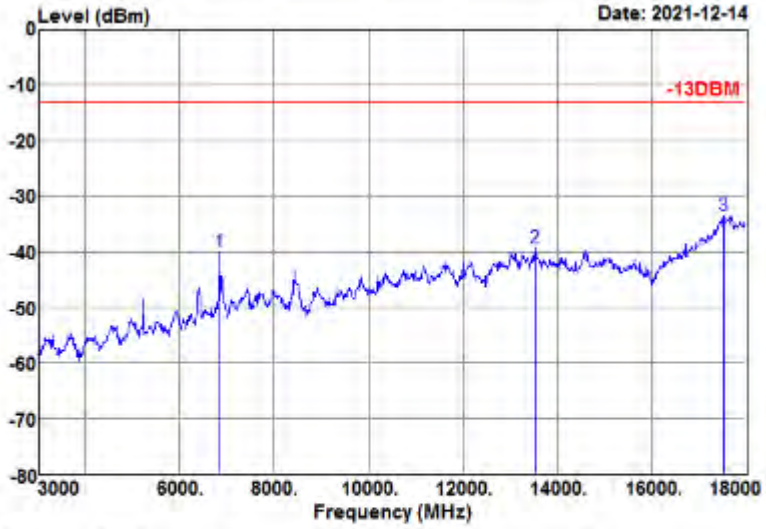
| MODE | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 5235.000 | -56.56 | 12.90 | -43.66 | -13.00 | -30.66 | Peak |
| 14595.000 | -65.58 | 28.28 | -37.30 | -13.00 | -24.30 | Peak |
| 17940.000 | -69.35 | 39.91 | -29.44 | -13.00 | -16.44 | Peak |

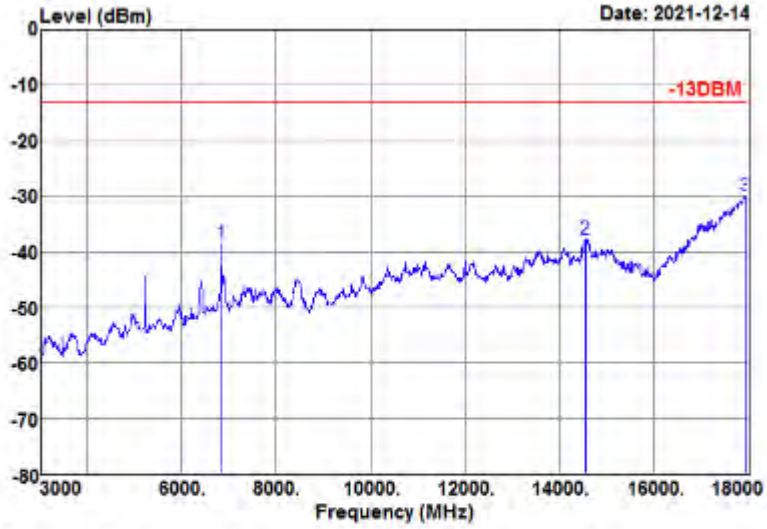
**CHANNEL BANDWIDTH: 3MHz / QPSK**

| | | | |
|---|---|---|---|
| **MODE** | TX channel 132322 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 6840.000 | -57.93 | 17.86 | -40.07 | -13.00 | -27.07 | Peak |
| 13545.000 | -67.62 | 28.31 | -39.31 | -13.00 | -26.31 | Peak |
| 17535.000 | -69.30 | 35.77 | -33.53 | -13.00 | -20.53 | Peak |

| MODE | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

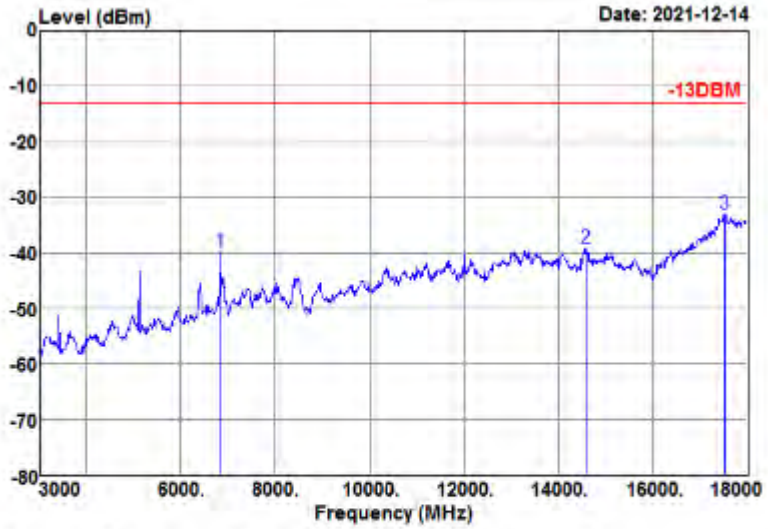



| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 6840.000 | -56.56 | 18.20 | -38.36 | -13.00 | -25.36 | Peak |
| 14565.000 | -65.98 | 28.24 | -37.74 | -13.00 | -24.74 | Peak |
| 17940.000 | -69.79 | 39.91 | -29.88 | -13.00 | -16.88 | Peak |

**CHANNEL BANDWIDTH: 5MHz / QPSK**

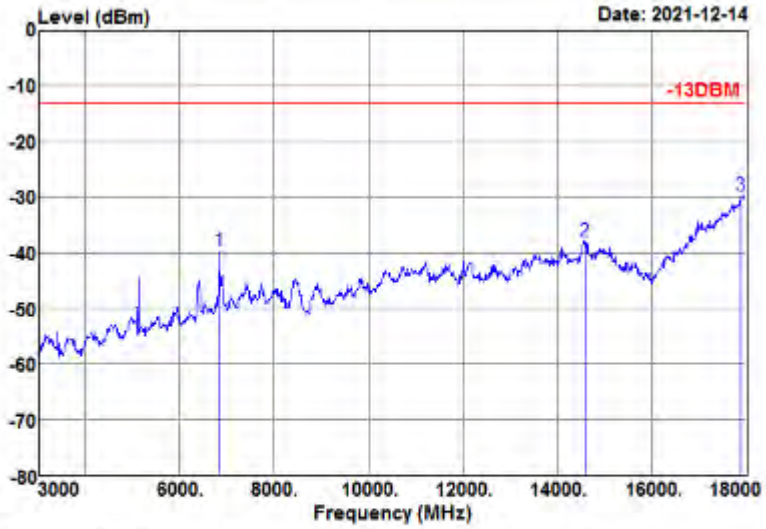
**CH131997**

| | | | |
|---|---|---|---|
| **MODE** | TX channel 131997 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 6840.000 | -57.75 | 17.86 | -39.89 | -13.00 | -26.89 | Peak |
| 14595.000 | -65.70 | 26.53 | -39.17 | -13.00 | -26.17 | Peak |
| 17520.000 | -68.79 | 35.79 | -33.00 | -13.00 | -20.00 | Peak |

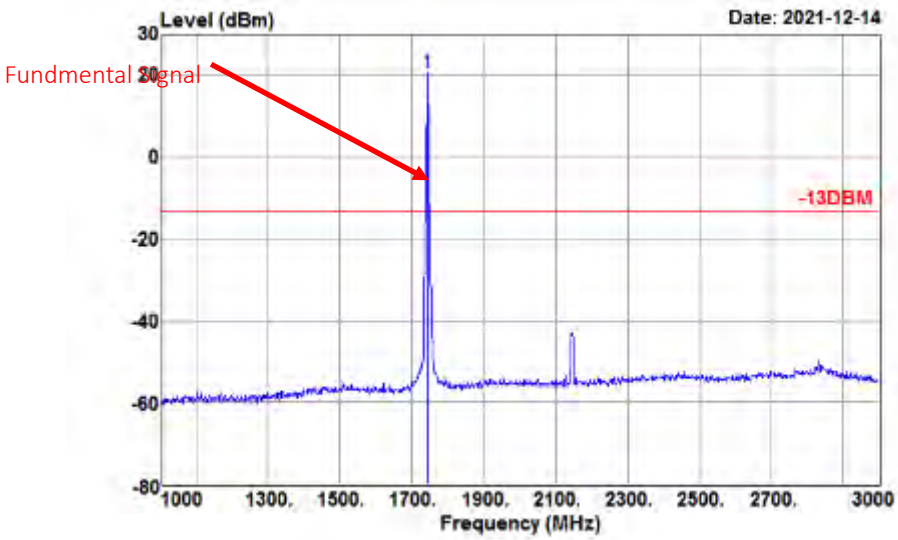
| MODE | TX channel 131997 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

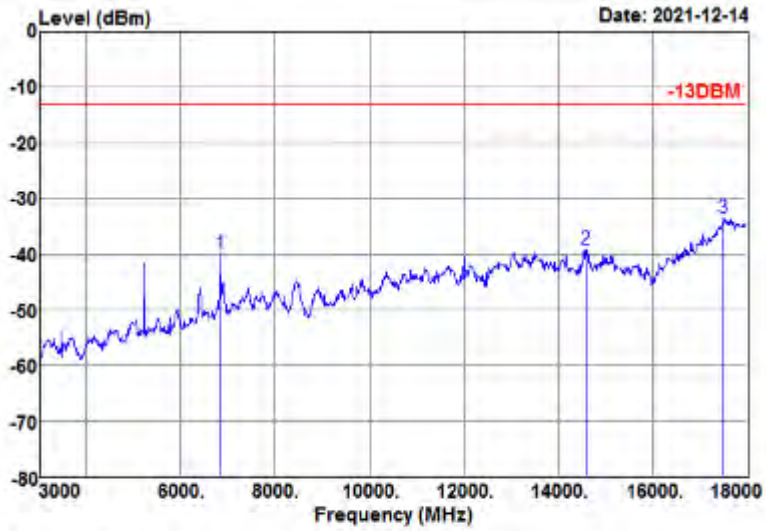



| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 6840.000 | -57.81 | 18.20 | -39.61 | -13.00 | -26.61 | Peak |
| 14595.000 | -66.17 | 28.28 | -37.89 | -13.00 | -24.89 | Peak |
| 17895.000 | -69.18 | 39.55 | -29.63 | -13.00 | -16.63 | Peak |

**CH132322**

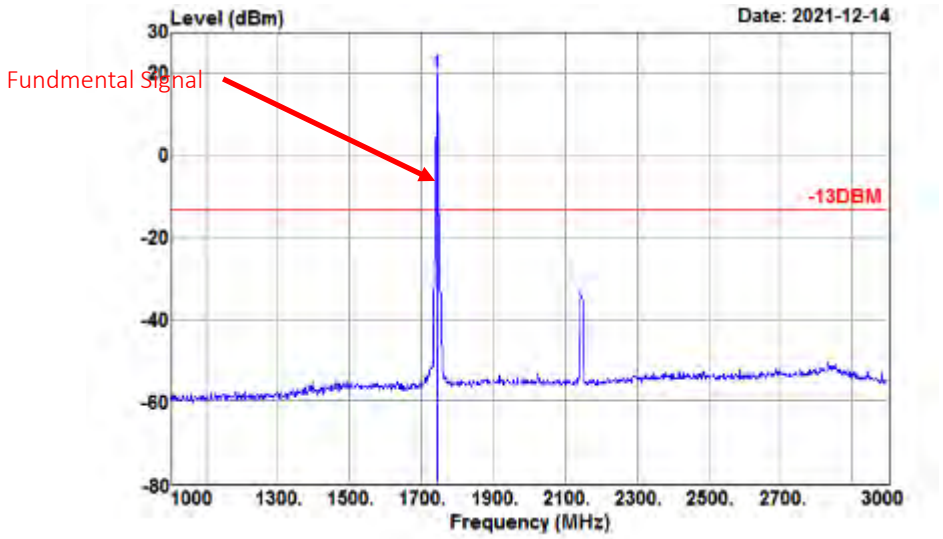
| | | | |
|---|---|---|---|
| **MODE** | TX channel 132322 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |

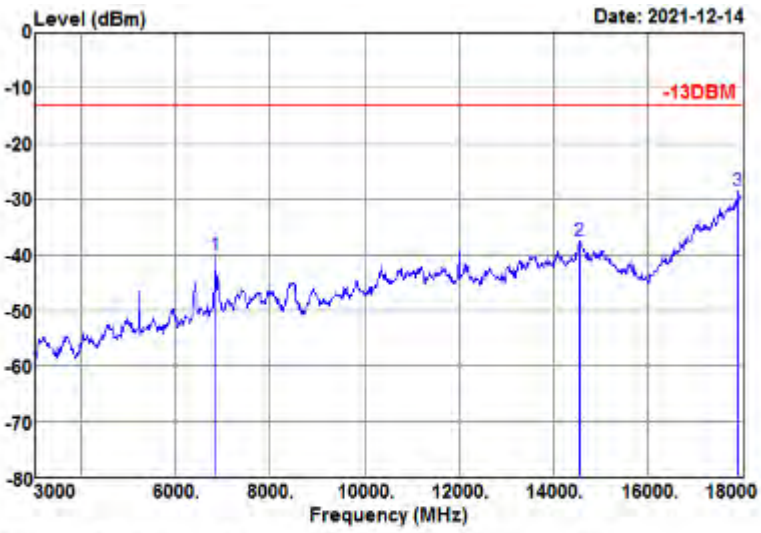



| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 6840.000 | -57.75 | 17.86 | -39.89 | -13.00 | -26.89 | Peak |
| 14580.000 | -65.58 | 26.50 | -39.08 | -13.00 | -26.08 | Peak |
| 17505.000 | -69.24 | 35.81 | -33.43 | -13.00 | -20.43 | Peak |

| MODE | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

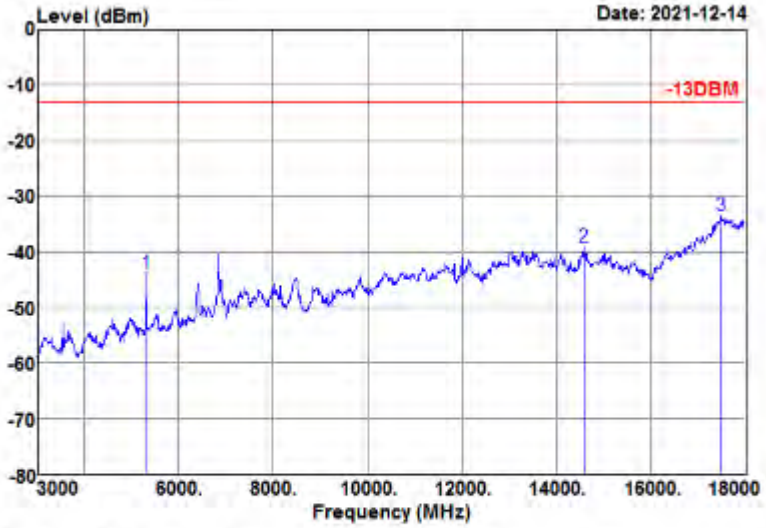



| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 6840.000 | -58.32 | 18.20 | -40.12 | -13.00 | -27.12 | Peak |
| 14565.000 | -65.85 | 28.24 | -37.61 | -13.00 | -24.61 | Peak |
| 17925.000 | -68.34 | 39.79 | -28.55 | -13.00 | -15.55 | Peak |

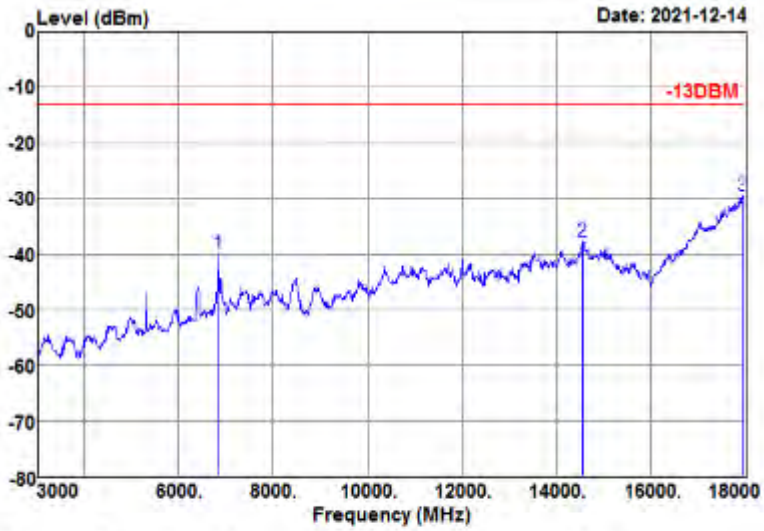
**CH132647**

| | | | |
|---|---|---|---|
| **MODE** | TX channel 132647 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 5325.000 | -56.74 | 12.76 | -43.98 | -13.00 | -30.98 | Peak |
| 14595.000 | -65.79 | 26.53 | -39.26 | -13.00 | -26.26 | Peak |
| 17490.000 | -69.26 | 35.73 | -33.53 | -13.00 | -20.53 | Peak |

| MODE | TX channel 132647 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

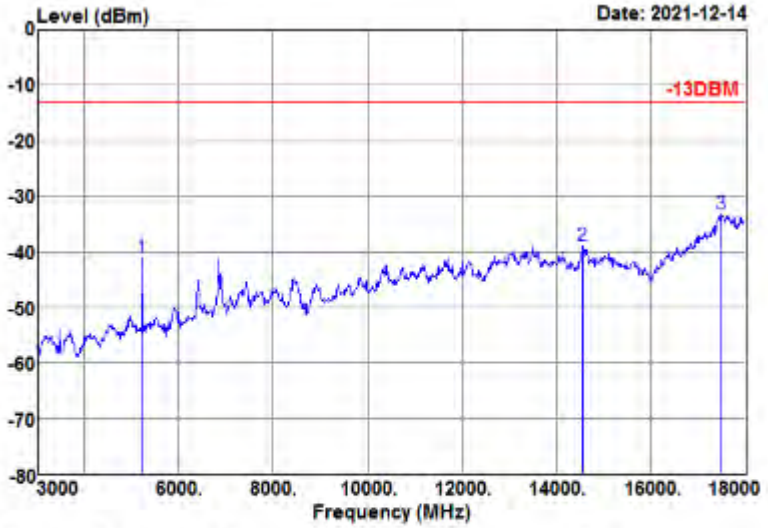



| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 6840.000 | -58.17 | 18.20 | -39.97 | -13.00 | -26.97 | Peak |
| 14565.000 | -65.89 | 28.24 | -37.65 | -13.00 | -24.65 | Peak |
| 17955.000 | -69.47 | 40.04 | -29.43 | -13.00 | -16.43 | Peak |

**CHANNEL BANDWIDTH: 10MHz / QPSK**

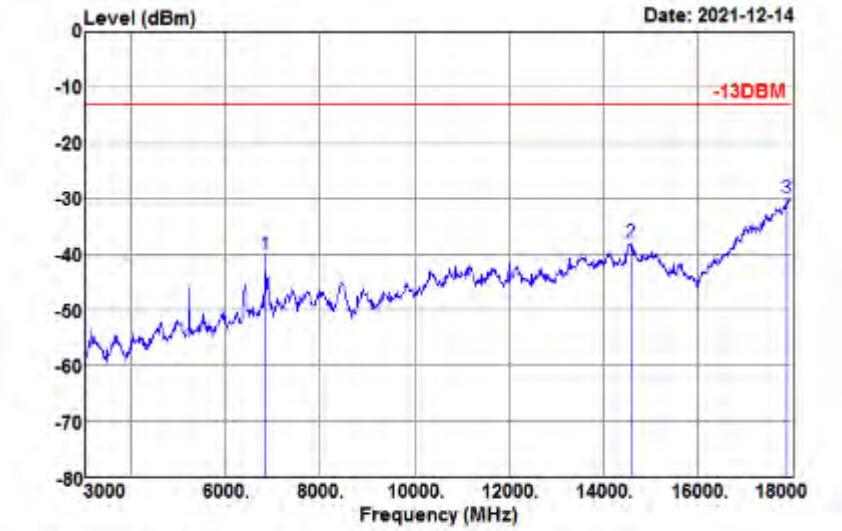
**CH132322**

| | | | |
|---|---|---|---|
| **MODE** | TX channel 132322 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 5220.000 | -53.67 | 12.63 | -41.04 | -13.00 | -28.04 | Peak |
| 14565.000 | -65.46 | 26.46 | -39.00 | -13.00 | -26.00 | Peak |
| 17505.000 | -69.12 | 35.81 | -33.31 | -13.00 | -20.31 | Peak |

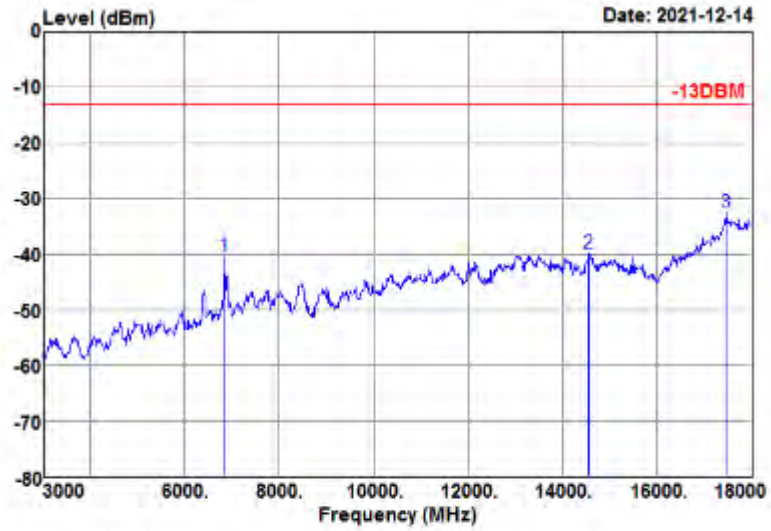
| MODE | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 6840.000 | -58.24 | 18.20 | -40.04 | -13.00 | -27.04 | Peak |
| 14595.000 | -66.23 | 28.28 | -37.95 | -13.00 | -24.95 | Peak |
| 17895.000 | -69.43 | 39.55 | -29.88 | -13.00 | -16.88 | Peak |

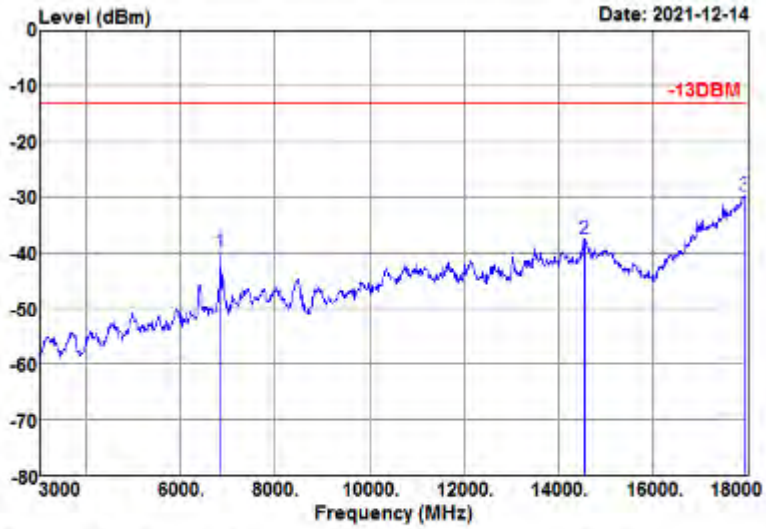
**CHANNEL BANDWIDTH: 15MHz / QPSK**

| | | | |
|---|---|---|---|
| **MODE** | TX channel 132322 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 6840.000 | -58.30 | 17.86 | -40.44 | -13.00 | -27.44 | Peak |
| 14565.000 | -66.29 | 26.46 | -39.83 | -13.00 | -26.83 | Peak |
| 17460.000 | -68.09 | 35.48 | -32.61 | -13.00 | -19.61 | Peak |

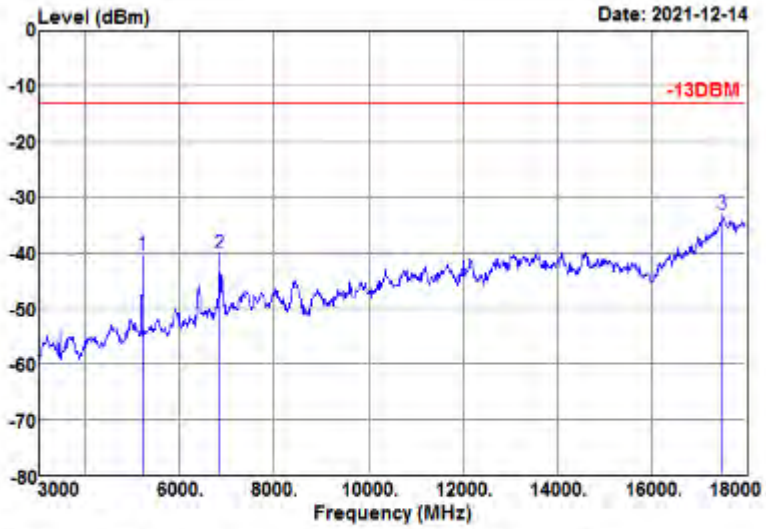
| MODE | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 6840.000 | -58.11 | 18.20 | -39.91 | -13.00 | -26.91 | Peak |
| 14565.000 | -65.72 | 28.24 | -37.48 | -13.00 | -24.48 | Peak |
| 17940.000 | -69.52 | 39.91 | -29.61 | -13.00 | -16.61 | Peak |

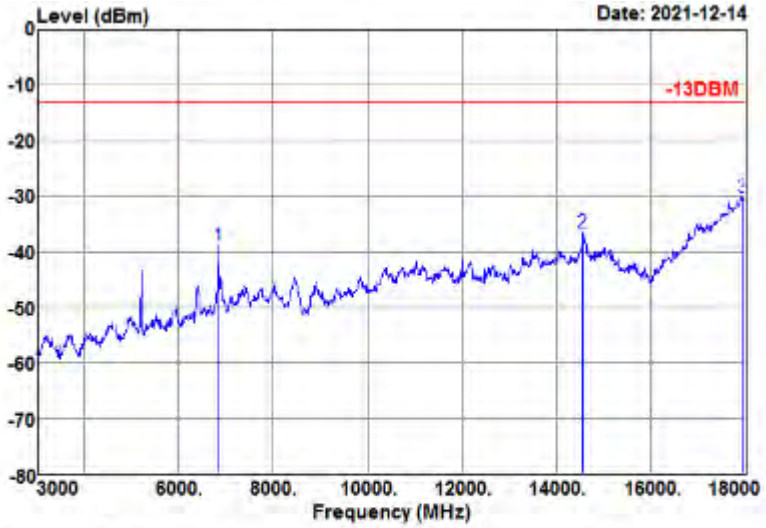
**CHANNEL BANDWIDTH: 20MHz / QPSK**

| | | | |
|---|---|---|---|
| **MODE** | TX channel 132322 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 5205.000 | -52.94 | 12.60 | -40.34 | -13.00 | -27.34 | Peak |
| 6840.000 | -57.93 | 17.86 | -40.07 | -13.00 | -27.07 | Peak |
| 17505.000 | -68.79 | 35.81 | -32.98 | -13.00 | -19.98 | Peak |

| MODE | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |




| Freq MHz | Reading level dBm | Aux factor dB | level dBm | Limit level dBm | Over limit dB | Remark |
|---|---|---|---|---|---|---|
| 6840.000 | -57.17 | 18.20 | -38.97 | -13.00 | -25.97 | Peak |
| 14565.000 | -64.75 | 28.24 | -36.51 | -13.00 | -23.51 | Peak |
| 17955.000 | -70.13 | 40.04 | -30.09 | -13.00 | -17.09 | Peak |

**Simultaneous transmissions RSE worst case as below:**

**BELOW 1GHz WORST-CASE DATA**

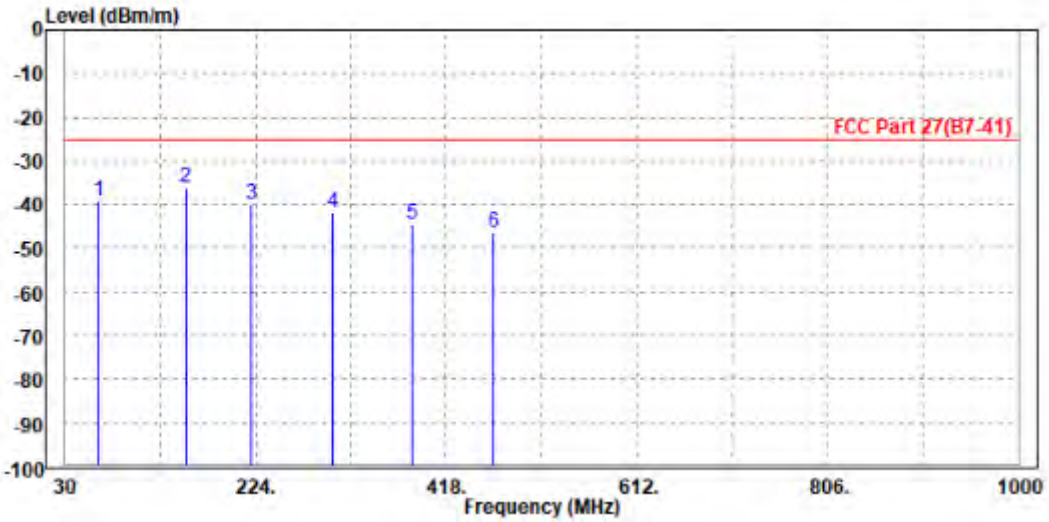
**30 MHz – 1GHz data:**

**LTE Band 7**

**CHANNEL BANDWIDTH: LTE B7 10MHz / QPSK +BT 2.0 TX_8DPSK_Ch 39:**

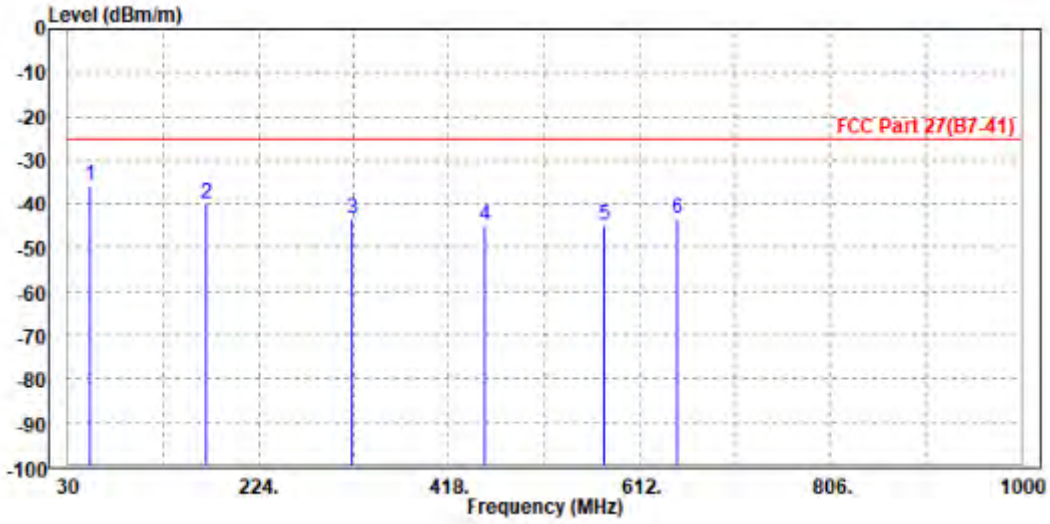
| | | | |
|---|---|---|---|
| **MODE** | TX channel 21100 | **FREQUENCY RANGE** | Below 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 64.920 | -39.20 | -46.85 | -25.00 | -14.20 | 7.65 | Peak | Horizontal |
| 2 PP | 153.190 | -35.98 | -45.99 | -25.00 | -10.98 | 10.01 | Peak | Horizontal |
| 3 | 219.150 | -40.06 | -51.90 | -25.00 | -15.06 | 11.84 | Peak | Horizontal |
| 4 | 302.570 | -41.92 | -55.99 | -25.00 | -16.92 | 14.07 | Peak | Horizontal |
| 5 | 383.080 | -44.38 | -60.79 | -25.00 | -19.38 | 16.41 | Peak | Horizontal |
| 6 | 465.530 | -46.54 | -64.62 | -25.00 | -21.54 | 18.08 | Peak | Horizontal |



| MODE | TX channel 21100 | FREQUENCY RANGE | Below 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

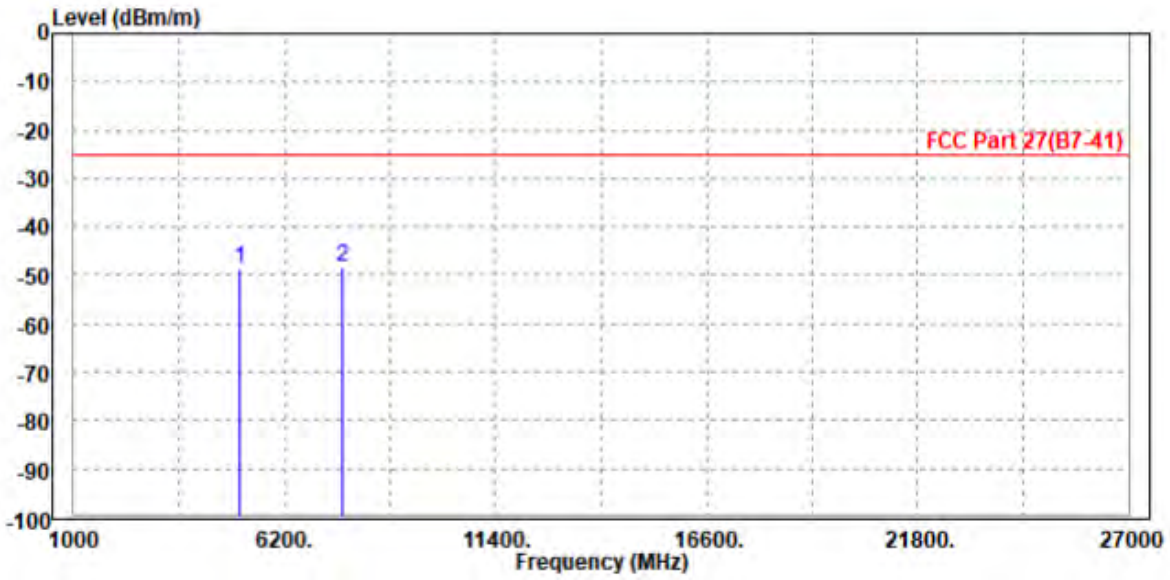
| | | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP | 52.310 | -35.86 | -44.61 | -25.00 | -10.86 | 8.75 | Peak | Vertical |
| 2 | | 170.650 | -40.04 | -50.90 | -25.00 | -15.04 | 10.86 | Peak | Vertical |
| 3 | | 320.030 | -43.31 | -58.75 | -25.00 | -18.31 | 15.44 | Peak | Vertical |
| 4 | | 454.860 | -44.91 | -63.15 | -25.00 | -19.91 | 18.24 | Peak | Vertical |
| 5 | | 575.140 | -44.81 | -65.26 | -25.00 | -19.81 | 20.45 | Peak | Vertical |
| 6 | | 649.830 | -43.37 | -64.97 | -25.00 | -18.37 | 21.60 | Peak | Vertical |



**CHANNEL BANDWIDTH: LTE B7 10MHz / QPSK +BT 2.0 TX_8DPSK_Ch 39：**

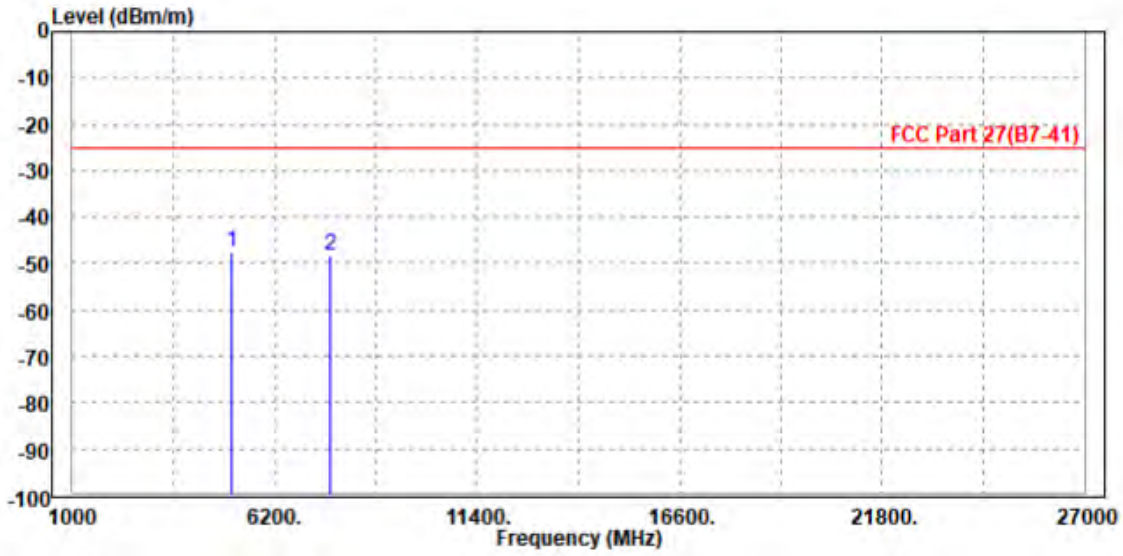
| | | | |
|---|---|---|---|
| **MODE** | TX channel 21100 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 5082.000 | -48.59 | -57.36 | -25.00 | -23.59 | 8.77 | Peak | Horizontal |
| 2 PP | 7605.000 | -48.34 | -59.74 | -25.00 | -23.34 | 11.40 | Peak | Horizontal |



| MODE | TX channel 21100 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

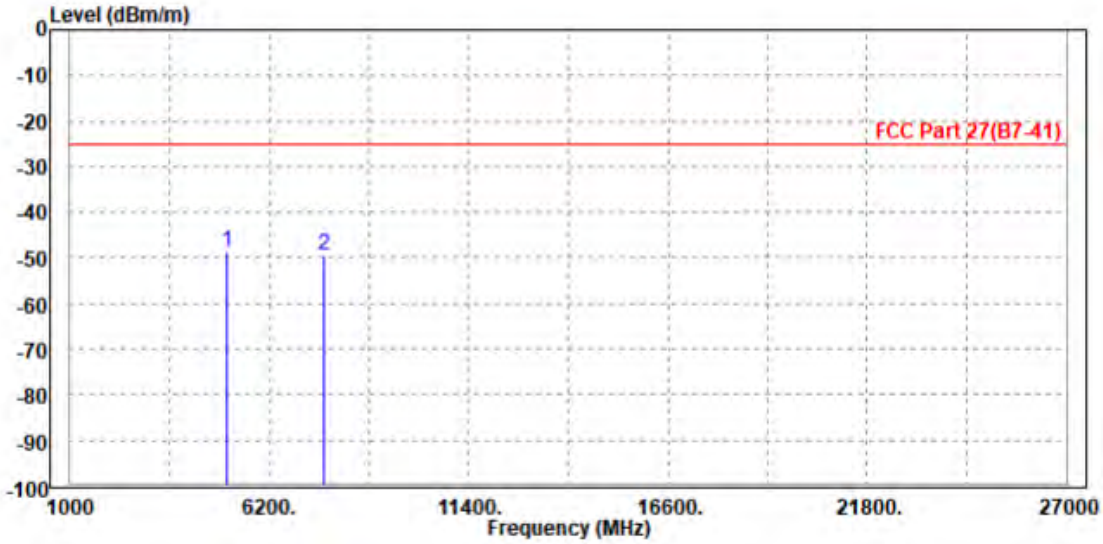
| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 PP | 5082.000 | -47.67 | -57.54 | -25.00 | -22.67 | 9.87 | Peak | Vertical |
| 2 | 7605.000 | -48.33 | -61.11 | -25.00 | -23.33 | 12.78 | Peak | Vertical |



**CHANNEL BANDWIDTH: LTE B7 10MHz / QPSK +WIFI 2.4G_11n40_TX_CH9：**

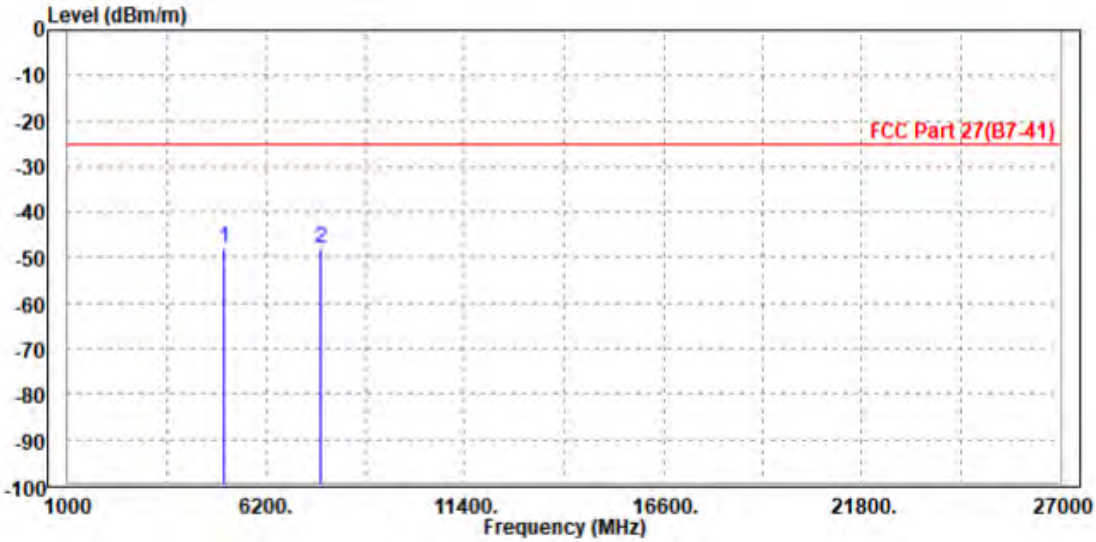
| | | | |
|---|---|---|---|
| **MODE** | TX channel 21100 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |

| | | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP | 5082.000 | -48.52 | -57.29 | -25.00 | -23.52 | 8.77 | Peak | Horizontal |
| 2 | | 7605.000 | -49.27 | -60.67 | -25.00 | -24.27 | 11.40 | Peak | Horizontal |



| MODE | TX channel 21100 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

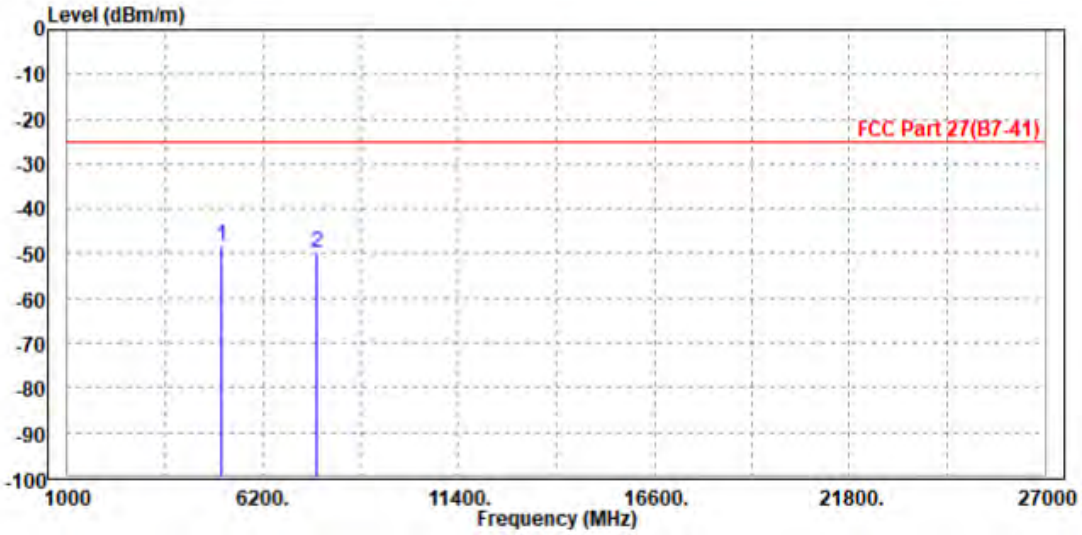
| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 PP | 5082.000 | -47.92 | -57.79 | -25.00 | -22.92 | 9.87 | Peak | Vertical |
| 2 | 7605.000 | -48.10 | -60.88 | -25.00 | -23.10 | 12.78 | Peak | Vertical |



**CHANNEL BANDWIDTH LTE: B7 10MHz / QPSK +WIFI 5G_11n40_TX_CH102：**

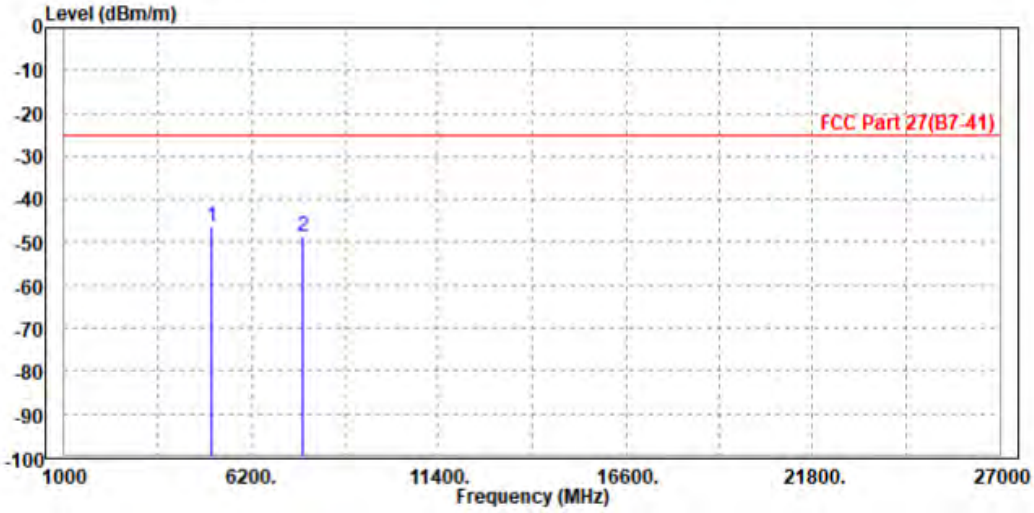
| | | | |
|---|---|---|---|
| **MODE** | TX channel 21100 | **FREQUENCY RANGE** | Above 1000MHz |
| **ENVIRONMENTAL CONDITIONS** | 23deg. C, 70%RH | **INPUT POWER** | AC 120V/60HZ |
| **TESTED BY** | Jace Hu | | |
| **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M** | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 PP | 5082.000 | -48.40 | -57.17 | -25.00 | -23.40 | 8.77 | Peak | Horizontal |
| 2 | 7605.000 | -49.99 | -61.39 | -25.00 | -24.99 | 11.40 | Peak | Horizontal |



| MODE | TX channel 21100 | FREQUENCY RANGE | Above 1000MHz |
|---|---|---|---|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 PP | 5082.000 | -46.27 | -56.14 | -25.00 | -21.27 | 9.87 | Peak | Vertical |
| 2 | 7605.000 | -48.51 | -61.29 | -25.00 | -23.51 | 12.78 | Peak | Vertical |

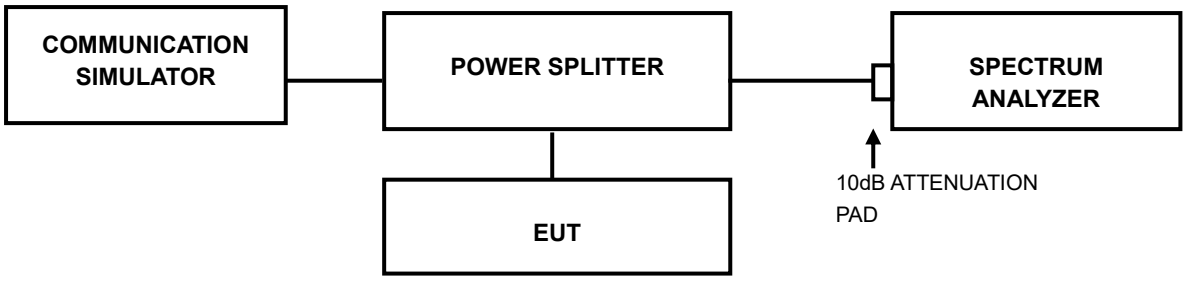


## 3.7 PEAK TO AVERAGE RATIO

### 3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

### 3.7.2 TEST SETUP




### 3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

### 3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.

# 4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

**Shenzhen EMC/RF Lab**:
Tel: +86-755-88696566
Fax: +86-755-88696577

**Email:** customerservice.sw@cn.bureauveritas.com
**Web Site**: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.

# 5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

# 6 Appendix

## WCDMA BAND 4

### FREQUENCY STABILITY TEST RESULT

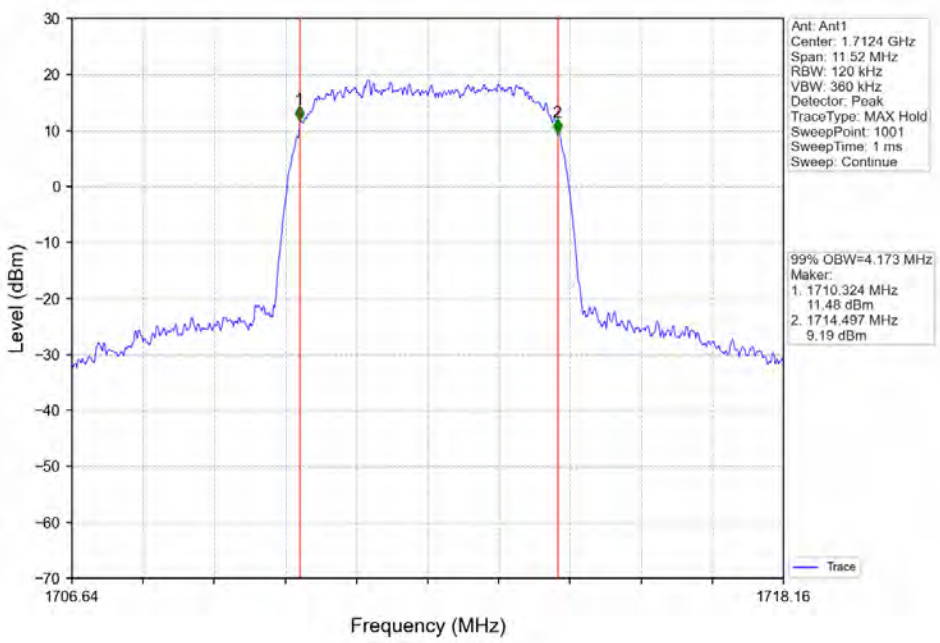
| Band: 4 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Network | Frequency (MHz) | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | | | | Result | Limit | |
| RMC | 1712.4 | 20 | 3.27 | -3.59 | -0.00 | -2.5 to 2.5 | Pass |
| | | | 3.85 | -5.60 | -0.00 | -2.5 to 2.5 | Pass |
| | | | 4.43 | 5.77 | 0.00 | -2.5 to 2.5 | Pass |
| | | -30 | 3.85 | 4.27 | 0.00 | -2.5 to 2.5 | Pass |
| | | -20 | 3.85 | 4.22 | 0.00 | -2.5 to 2.5 | Pass |
| | | -10 | 3.85 | 3.98 | 0.00 | -2.5 to 2.5 | Pass |
| | | 0 | 3.85 | 4.79 | 0.00 | -2.5 to 2.5 | Pass |
| | | 10 | 3.85 | 0.99 | 0.00 | -2.5 to 2.5 | Pass |
| | | 30 | 3.85 | 1.30 | 0.00 | -2.5 to 2.5 | Pass |
| | | 40 | 3.85 | 1.83 | 0.00 | -2.5 to 2.5 | Pass |
| | | 50 | 3.85 | -3.77 | -0.00 | -2.5 to 2.5 | Pass |
| | 1732.6 | 20 | 3.27 | 0.44 | 0.00 | -2.5 to 2.5 | Pass |
| | | | 3.85 | 4.54 | 0.00 | -2.5 to 2.5 | Pass |
| | | | 4.43 | 4.99 | 0.00 | -2.5 to 2.5 | Pass |
| | | -30 | 3.85 | 3.38 | 0.00 | -2.5 to 2.5 | Pass |
| | | -20 | 3.85 | 6.09 | 0.00 | -2.5 to 2.5 | Pass |
| | | -10 | 3.85 | 2.20 | 0.00 | -2.5 to 2.5 | Pass |
| | | 0 | 3.85 | 0.81 | 0.00 | -2.5 to 2.5 | Pass |
| | | 10 | 3.85 | -2.27 | -0.00 | -2.5 to 2.5 | Pass |
| | | 30 | 3.85 | -0.33 | -0.00 | -2.5 to 2.5 | Pass |
| | | 40 | 3.85 | 1.66 | 0.00 | -2.5 to 2.5 | Pass |
| | | 50 | 3.85 | 3.05 | 0.00 | -2.5 to 2.5 | Pass |
| | 1752.6 | 20 | 3.27 | 7.21 | 0.00 | -2.5 to 2.5 | Pass |
| | | | 3.85 | 1.21 | 0.00 | -2.5 to 2.5 | Pass |
| | | | 4.43 | 4.11 | 0.00 | -2.5 to 2.5 | Pass |
| | | -30 | 3.85 | 1.34 | 0.00 | -2.5 to 2.5 | Pass |
| | | -20 | 3.85 | 4.50 | 0.00 | -2.5 to 2.5 | Pass |
| | | -10 | 3.85 | -1.22 | -0.00 | -2.5 to 2.5 | Pass |
| | | 0 | 3.85 | -1.57 | -0.00 | -2.5 to 2.5 | Pass |
| | | 10 | 3.85 | -1.41 | -0.00 | -2.5 to 2.5 | Pass |
| | | 30 | 3.85 | -5.63 | -0.00 | -2.5 to 2.5 | Pass |
| | | 40 | 3.85 | -1.36 | -0.00 | -2.5 to 2.5 | Pass |
| | | 50 | 3.85 | 0.84 | 0.00 | -2.5 to 2.5 | Pass |

## 99% & 26DB BANDWIDTH 99%_OBW TEST RESULT

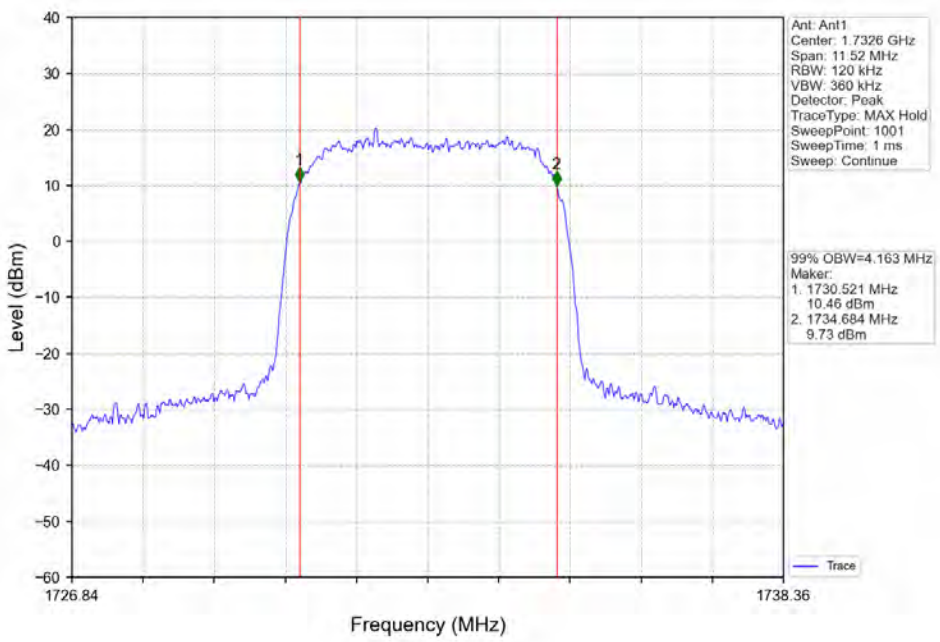
| Band: 4 | | | | | |
|---|---|---|---|---|---|
| ENV | Mode | | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Verdict |
| | Network | Subset | | Result | |
| NTNV | RMC | 12.2kbps RMC | 1712.4 | 4.173 | Pass |
| | | | 1732.6 | 4.163 | Pass |
| | | | 1752.6 | 4.153 | Pass |

## TEST GRAPH

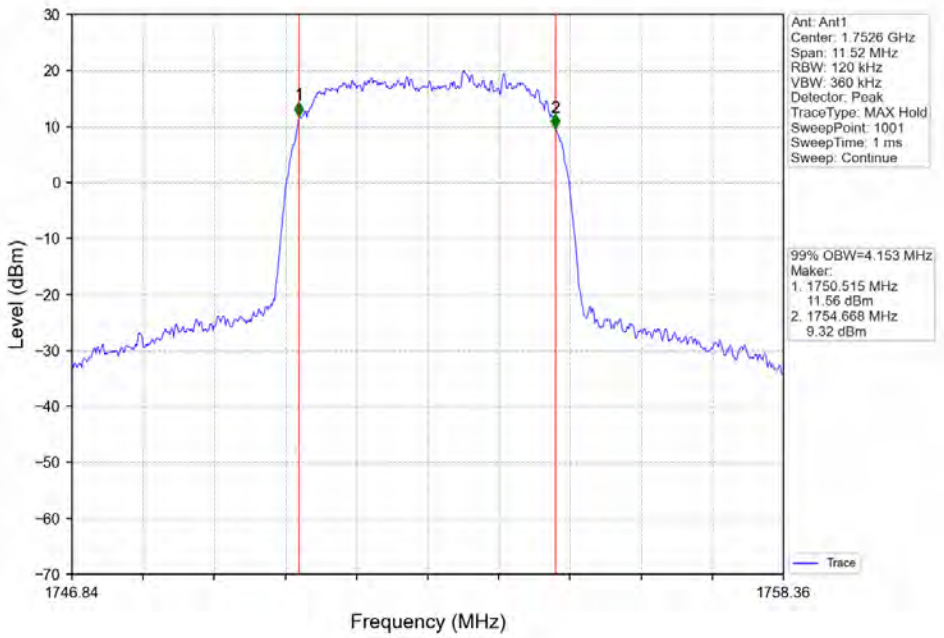
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV




Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV

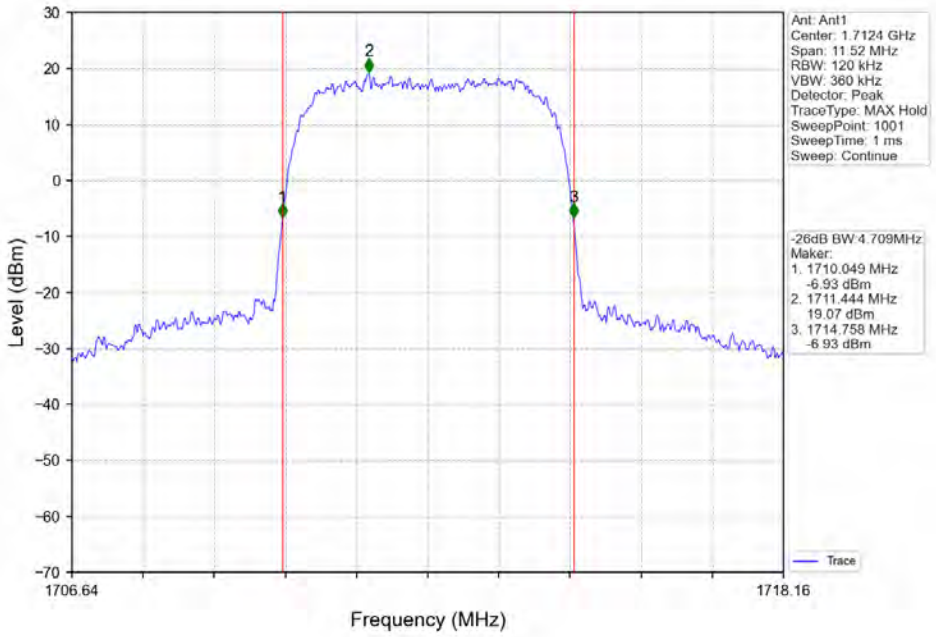


## BAND4_XDB TEST RESULT

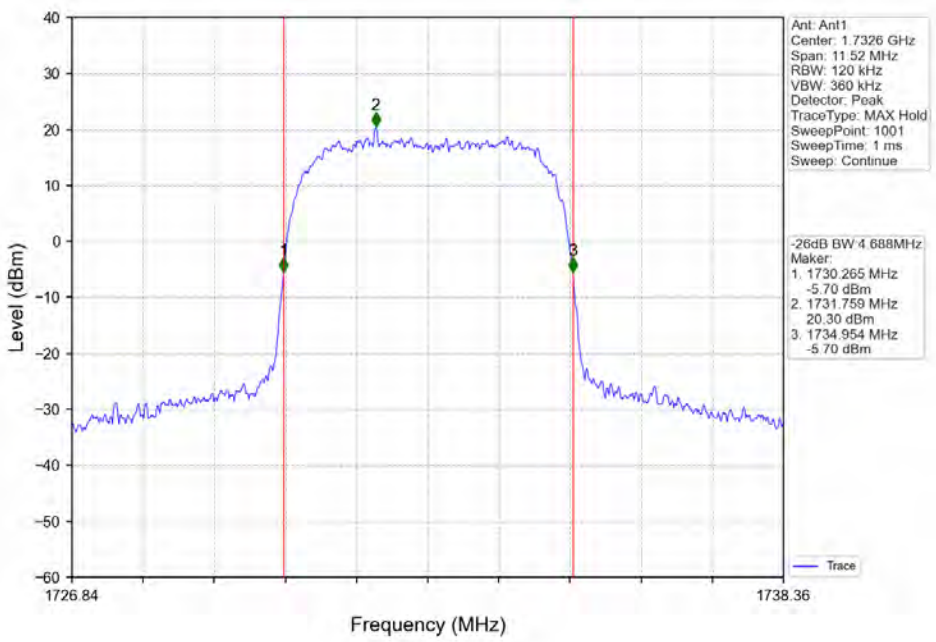
| Band: 4 | | | | | |
|---|---|---|---|---|---|
| ENV | Mode | | Frequency (MHz) | 26dB Bandwidth (MHz) | Verdict |
| | Network | Subset | | Result | |
| NTNV | RMC | 12.2kbps RMC | 1712.4 | 4.709 | Pass |
| | | | 1732.6 | 4.688 | Pass |
| | | | 1752.6 | 4.693 | Pass |

## TEST GRAPH

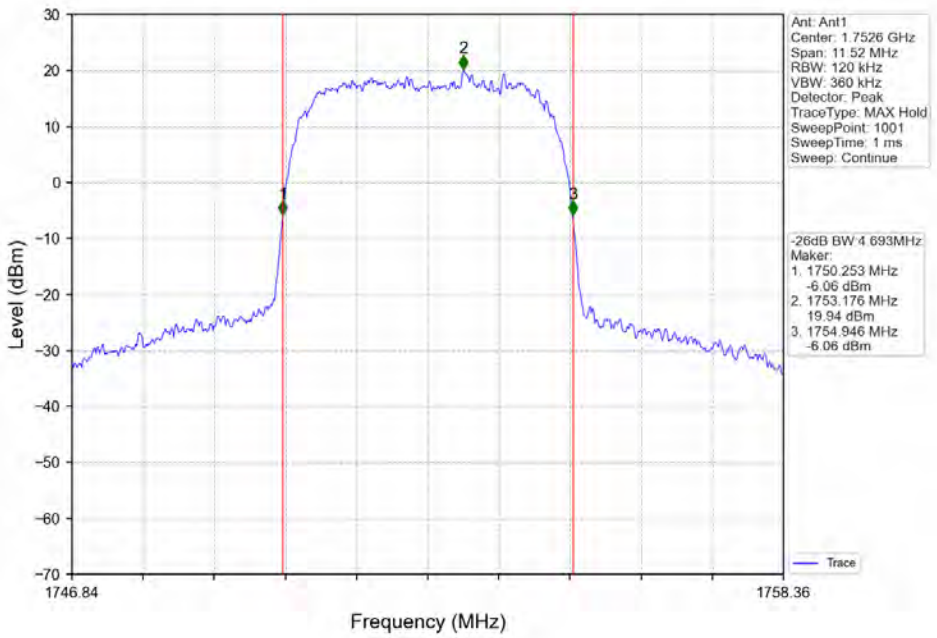
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV




Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV

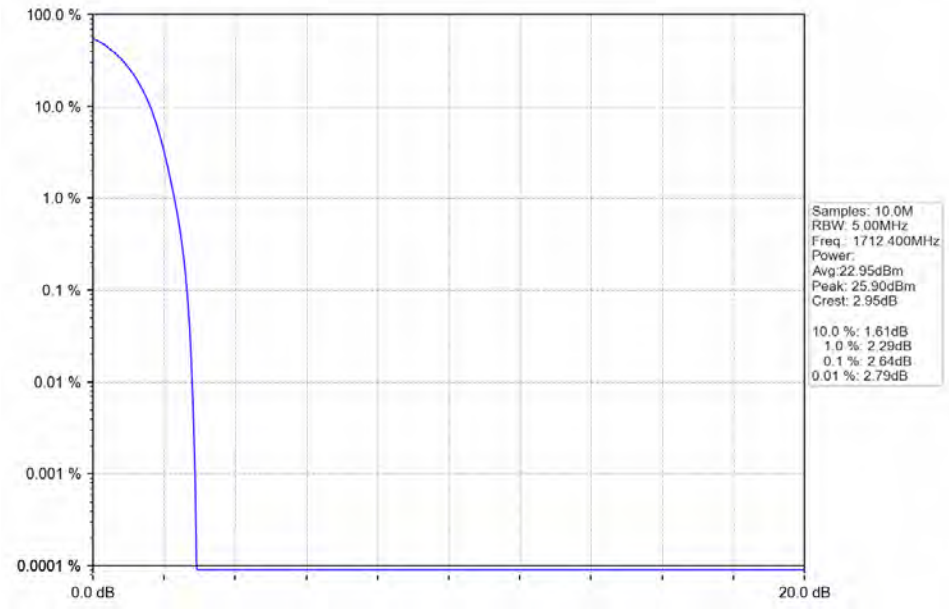



## PEAK-AVERAGE RATIO TEST RESULT

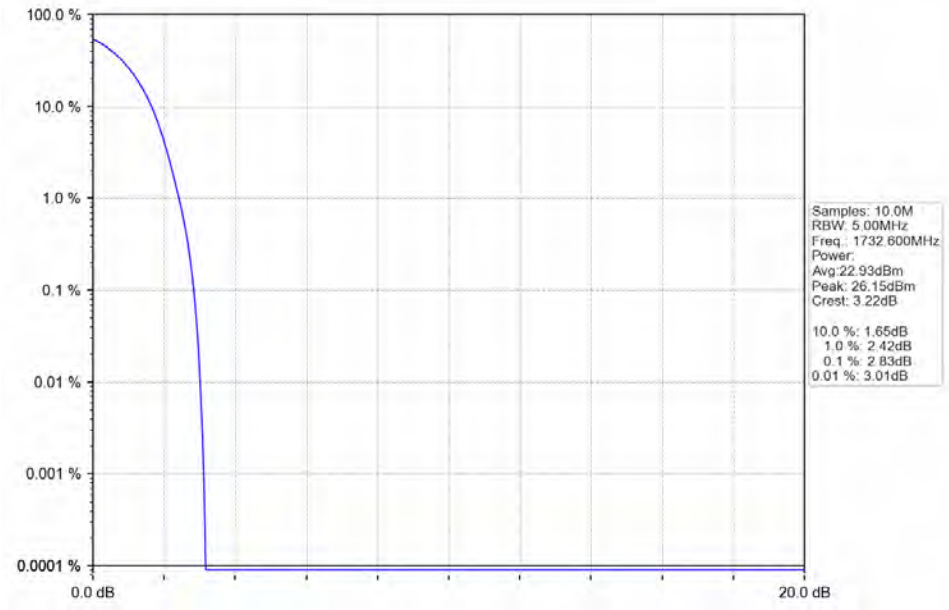
| Band: 4 | | | | | | |
|---|---|---|---|---|---|---|
| ENV | Mode | | Frequency (MHz) | Peak-Average Ratio (dB) | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | RMC | 12.2kbps RMC | 1712.4 | 2.64 | <=13 | Pass |
| | | | 1732.6 | 2.83 | <=13 | Pass |
| | | | 1752.6 | 2.76 | <=13 | Pass |

## TEST GRAPH

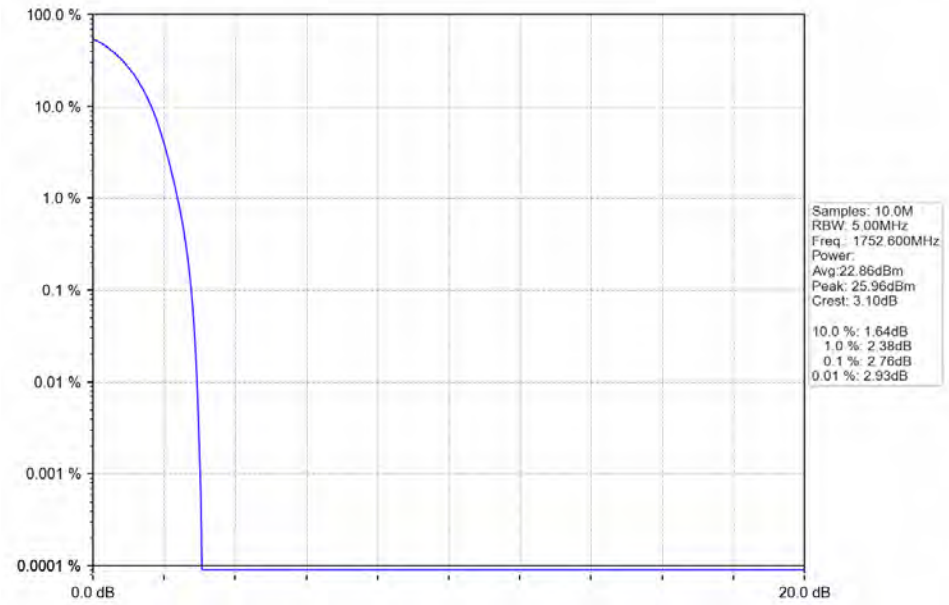
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV




Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV

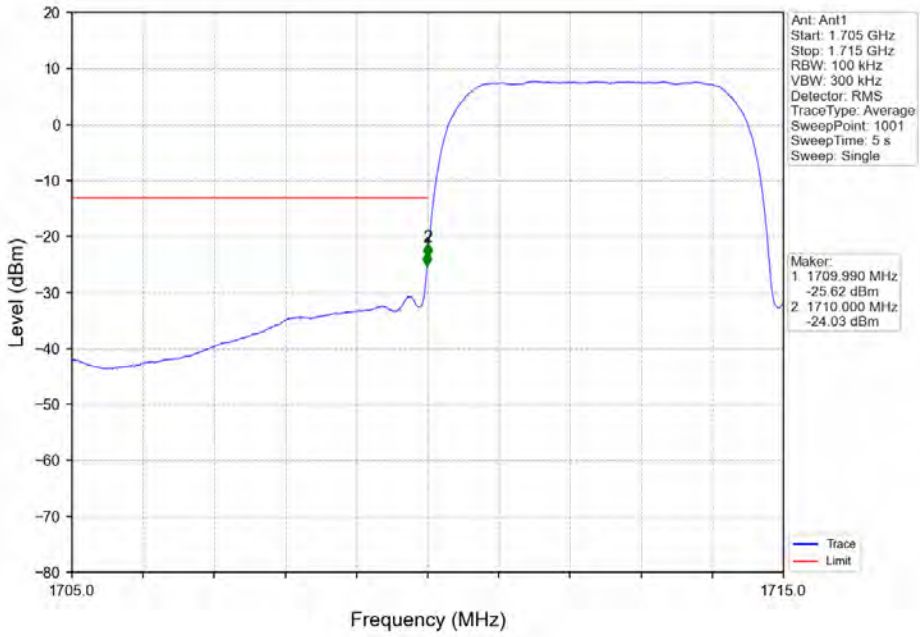



## SPURIOUS EMISSION BAND4 TEST RESULT

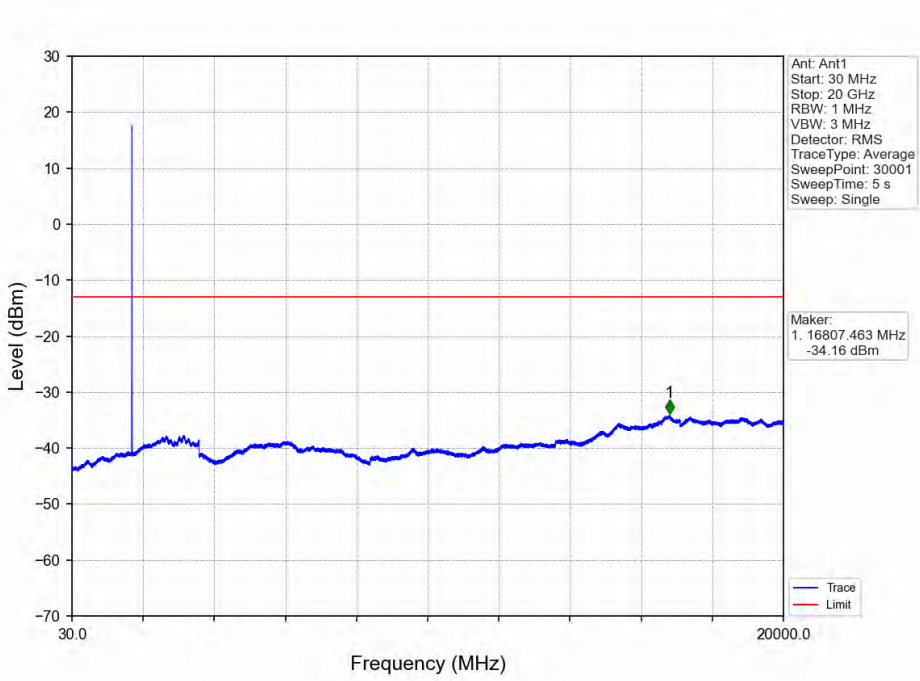
| Band: 4 | | | | | | |
|---|---|---|---|---|---|---|
| ENV | Mode | | Frequency (MHz) | Spurious Emission | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | RMC | 12.2kbps RMC | 1712.4 | Refer To Test Graph | | Pass |
| | | | 1732.6 | Refer To Test Graph | | Pass |
| | | | 1752.6 | Refer To Test Graph | | Pass |

## TEST GRAPH

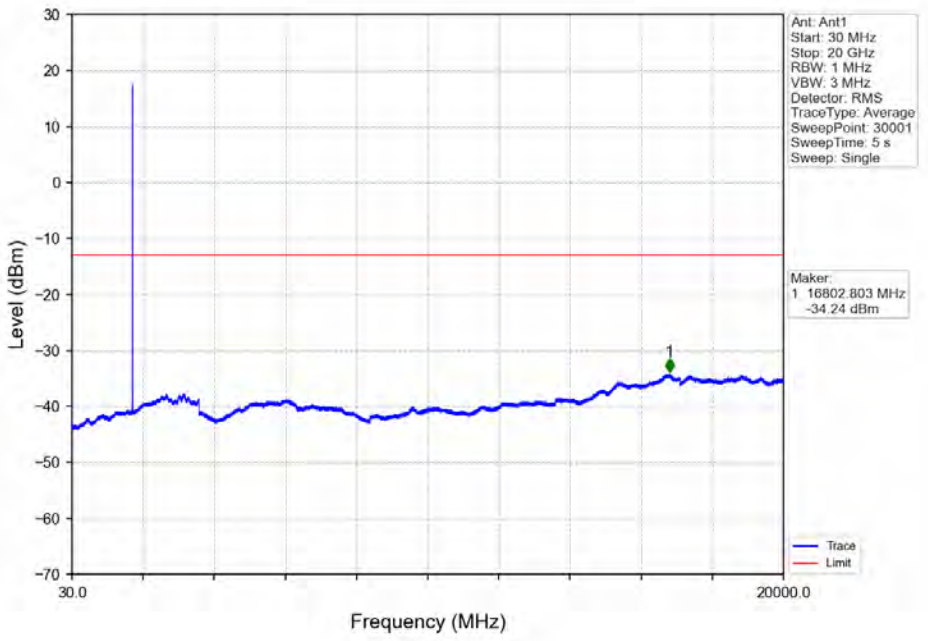
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



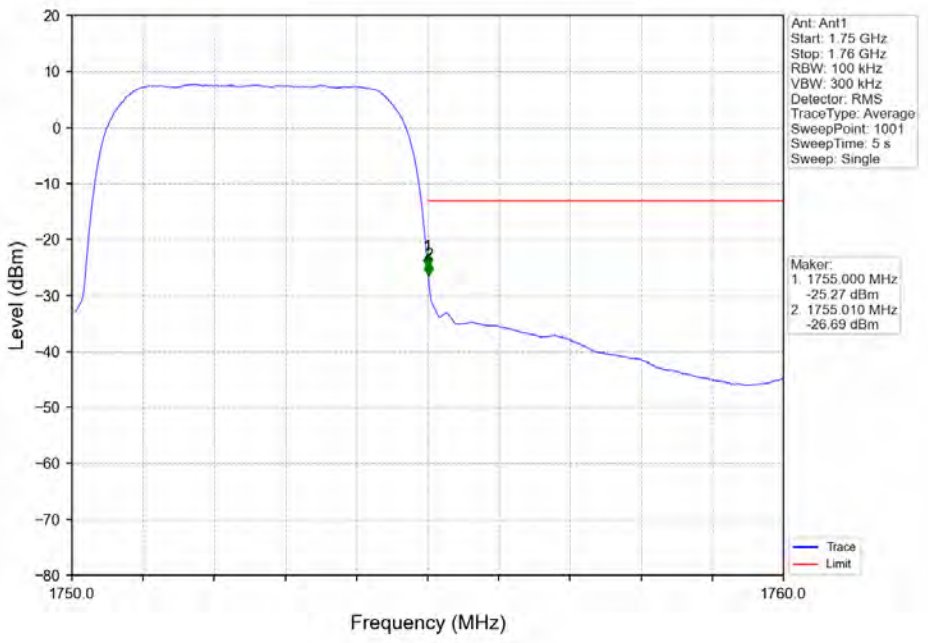

Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



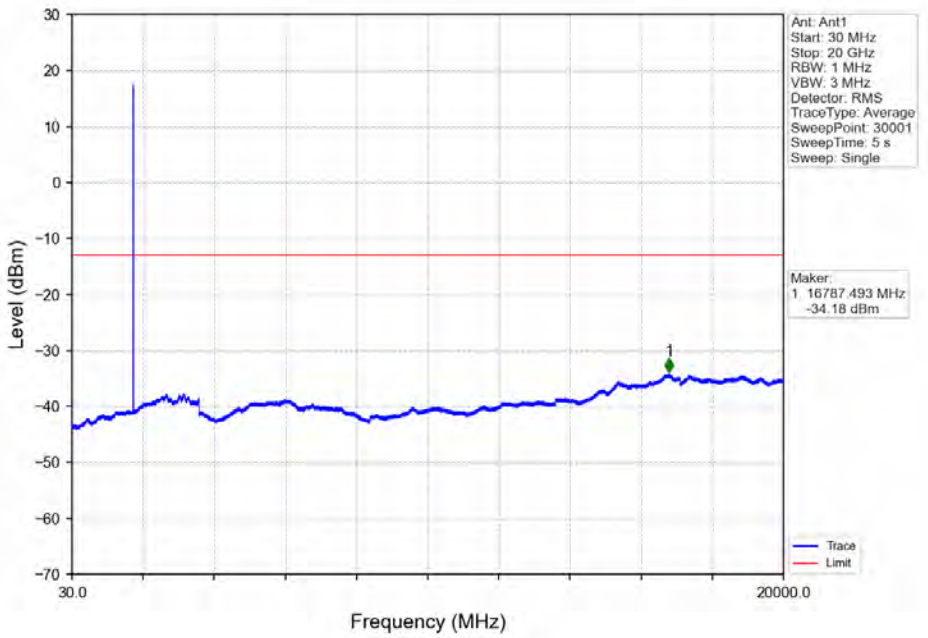
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV




Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



## LTE BAND 4

## FREQUENCY STABILITY B4_1.4MHZ TEST RESULT

| 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 | 9.30 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 2.96 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -3.76 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -16.54 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -24.22 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -11.03 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -9.57 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -25.00 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -34.78 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -14.12 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -29.34 | -0.02 | -2.5 to 2.5 | Pass |
| | 1732.5 | 6 | 0 | 20 | 3.27 | -18.45 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -11.07 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -16.91 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -17.47 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -24.86 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -3.35 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -33.09 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -21.29 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -37.95 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -28.87 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -29.98 | -0.02 | -2.5 to 2.5 | Pass |
| | 1754.3 | 6 | 0 | 20 | 3.27 | -35.10 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -30.47 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -15.32 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -16.18 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -8.97 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -16.09 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -26.48 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -12.96 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -18.73 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -16.16 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -12.12 | -0.01 | -2.5 to 2.5 | Pass |
| 16QAM | 1710.7 | 6 | 0 | 20 | 3.27 | -2.93 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -17.85 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -21.97 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -20.54 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -21.66 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -30.08 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -33.50 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 12.37 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 10.83 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 7.90 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 6.38 | 0.00 | -2.5 to 2.5 | Pass |
| | 1732.5 | 6 | 0 | 20 | 3.27 | -27.04 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -25.69 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -22.92 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -31.74 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -20.03 | -0.01 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -10 | 3.85 | -16.02 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -33.62 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -14.59 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -38.32 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -12.32 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -33.03 | -0.02 | -2.5 to 2.5 | Pass |
| | 1754.3 | 6 | 0 | 20 | 3.27 | -21.52 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -22.89 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -5.01 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -31.79 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -21.76 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -31.30 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -28.18 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -13.19 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -34.75 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -8.65 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -10.20 | -0.01 | -2.5 to 2.5 | Pass |
| 64QAM | 1710.7 | 6 | 0 | 20 | 3.27 | 4.72 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 4.55 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 6.70 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.16 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -5.38 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -4.92 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -4.25 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -7.52 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -6.65 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -6.72 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -7.80 | -0.00 | -2.5 to 2.5 | Pass |
| | 1732.5 | 6 | 0 | 20 | 3.27 | -4.45 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -14.92 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -13.06 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -21.76 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -31.24 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -35.83 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -29.94 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -16.81 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -17.20 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -19.66 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -21.91 | -0.01 | -2.5 to 2.5 | Pass |
| | 1754.3 | 6 | 0 | 20 | 3.27 | -6.32 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -17.75 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -26.22 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -4.75 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -30.20 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -18.10 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -13.58 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -15.89 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -24.45 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -28.95 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -27.67 | -0.02 | -2.5 to 2.5 | Pass |

## B4_3MHZ TEST RESULT

| 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 | 16.99 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 9.04 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -10.90 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -31.43 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -23.36 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -17.30 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -17.91 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -26.66 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -19.57 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -45.33 | -0.03 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -14.18 | -0.01 | -2.5 to 2.5 | Pass |
| | 1732.5 | 15 | 0 | 20 | 3.27 | 39.40 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 28.27 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.43 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 5.11 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 18.97 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 24.42 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 37.11 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -9.14 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.14 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 7.92 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 13.73 | 0.01 | -2.5 to 2.5 | Pass |
| | 1753.5 | 15 | 0 | 20 | 3.27 | -2.90 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -7.98 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -8.70 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -14.59 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -11.26 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -3.66 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -10.33 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -13.16 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -12.20 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -14.96 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -11.50 | -0.01 | -2.5 to 2.5 | Pass |
| 16QAM | 1711.5 | 15 | 0 | 20 | 3.27 | -42.37 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 1.07 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -22.87 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -4.43 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -34.52 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -28.27 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -9.47 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -22.89 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -12.46 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -38.05 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -18.15 | -0.01 | -2.5 to 2.5 | Pass |
| | 1732.5 | 15 | 0 | 20 | 3.27 | 24.59 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 33.36 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 1.30 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 1.17 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 6.71 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 15.18 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 14.88 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 23.95 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 29.01 | 0.02 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 40 | 3.85 | 30.54 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 40.03 | 0.02 | -2.5 to 2.5 | Pass |
| | 1753.5 | 15 | 0 | 20 | 3.27 | -18.94 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -14.94 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -12.72 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -7.14 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -9.01 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -2.95 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -3.82 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 2.25 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.26 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.76 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 3.73 | 0.00 | -2.5 to 2.5 | Pass |
| 64QAM | 1711.5 | 15 | 0 | 20 | 3.27 | -1.66 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -15.49 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -16.58 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -16.11 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -11.12 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.59 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.90 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 8.74 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 12.40 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 17.18 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 18.41 | 0.01 | -2.5 to 2.5 | Pass |
| | 1732.5 | 15 | 0 | 20 | 3.27 | 17.39 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 9.51 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 18.34 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 20.17 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 26.42 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 29.38 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 38.55 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 42.73 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 10.99 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 14.39 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 23.17 | 0.01 | -2.5 to 2.5 | Pass |
| | 1753.5 | 15 | 0 | 20 | 3.27 | 7.32 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 11.49 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 19.28 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 22.07 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 27.54 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 29.51 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 34.98 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 26.65 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 32.90 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 40.84 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 39.97 | 0.02 | -2.5 to 2.5 | Pass |

## B4_5MHZ TEST RESULT

| 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 | 0.74 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 3.46 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 7.98 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 9.18 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 2.17 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.16 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -7.50 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -17.35 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -25.75 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -29.20 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -44.43 | -0.03 | -2.5 to 2.5 | Pass |
| | 1732.5 | 25 | 0 | 20 | 3.27 | -8.65 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -7.31 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -6.62 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -9.38 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -8.10 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -16.71 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -20.76 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -26.66 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -33.43 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -43.16 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -40.35 | -0.02 | -2.5 to 2.5 | Pass |
| | 1752.5 | 25 | 0 | 20 | 3.27 | 8.93 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 2.55 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 2.29 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.03 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.83 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -7.97 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -24.39 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -32.43 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -20.10 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -10.91 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -16.08 | -0.01 | -2.5 to 2.5 | Pass |
| 16QAM | 1712.5 | 25 | 0 | 20 | 3.27 | -9.44 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.42 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -5.99 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -10.16 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -12.29 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -7.95 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -9.14 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -7.11 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -2.72 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 2.25 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 3.72 | 0.00 | -2.5 to 2.5 | Pass |
| | 1732.5 | 25 | 0 | 20 | 3.27 | 3.33 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 3.38 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 5.16 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 3.15 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 2.06 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 1.69 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.39 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.65 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 6.34 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 8.88 | 0.01 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 50 | 3.85 | 6.64 | 0.00 | -2.5 to 2.5 | Pass |
| | 1752.5 | 25 | 0 | 20 | 3.27 | -18.31 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -21.56 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -24.50 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -21.14 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -15.56 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -19.55 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -15.41 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -14.55 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -7.83 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.50 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -2.70 | -0.00 | -2.5 to 2.5 | Pass |
| 64QAM | 1712.5 | 25 | 0 | 20 | 3.27 | 1.25 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 2.80 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 6.59 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 5.59 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 6.37 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 15.58 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 14.63 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 23.99 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 30.53 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -11.14 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.33 | -0.00 | -2.5 to 2.5 | Pass |
| | 1732.5 | 25 | 0 | 20 | 3.27 | 12.75 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 19.88 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 16.36 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 14.72 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 22.59 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 23.26 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 26.48 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 33.10 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -7.47 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -6.89 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -7.67 | -0.00 | -2.5 to 2.5 | Pass |
| | 1752.5 | 25 | 0 | 20 | 3.27 | -0.99 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 3.92 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 15.69 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 21.44 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 26.19 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 31.17 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 35.72 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 4.36 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 10.84 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 15.01 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 19.01 | 0.01 | -2.5 to 2.5 | Pass |

## B4_10MHZ TEST RESULT

| 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 | 17.71 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 20.73 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 16.54 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 8.43 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.25 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -6.47 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -17.80 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -34.19 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -9.01 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -28.15 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -22.37 | -0.01 | -2.5 to 2.5 | Pass |
| | 1732.5 | 50 | 0 | 20 | 3.27 | 0.96 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 9.00 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 5.19 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -3.32 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -15.09 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -20.60 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -32.53 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -6.70 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -14.76 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -15.98 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -21.52 | -0.01 | -2.5 to 2.5 | Pass |
| | 1750 | 50 | 0 | 20 | 3.27 | -14.35 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -22.07 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -34.76 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -42.66 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -11.07 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -23.46 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.12 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -3.83 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -14.55 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -26.41 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -32.79 | -0.02 | -2.5 to 2.5 | Pass |
| 16QAM | 1715 | 50 | 0 | 20 | 3.27 | -20.43 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -27.80 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -25.51 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -28.62 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -30.34 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -23.52 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -23.55 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -22.47 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -25.21 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -26.19 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -14.42 | -0.01 | -2.5 to 2.5 | Pass |
| | 1732.5 | 50 | 0 | 20 | 3.27 | -24.06 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -26.46 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -22.42 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -17.64 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -16.81 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -17.15 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -12.80 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -8.97 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -4.91 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -3.96 | -0.00 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 50 | 3.85 | -1.09 | -0.00 | -2.5 to 2.5 | Pass |
| | 1750 | 50 | 0 | 20 | 3.27 | 0.67 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 3.95 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 16.19 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 23.19 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 24.66 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 29.02 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 34.45 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 40.87 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 22.72 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 20.67 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 22.90 | 0.01 | -2.5 to 2.5 | Pass |
| 64QAM | 1715 | 50 | 0 | 20 | 3.27 | -11.13 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -6.51 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 4.54 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 13.55 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 33.92 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 19.45 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 29.87 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 32.17 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 20.54 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 24.59 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 27.49 | 0.02 | -2.5 to 2.5 | Pass |
| | 1732.5 | 50 | 0 | 20 | 3.27 | 9.27 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 14.83 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 22.57 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 31.53 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 6.92 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 15.01 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 13.80 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 20.50 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 23.59 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 35.60 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 39.23 | 0.02 | -2.5 to 2.5 | Pass |
| | 1750 | 50 | 0 | 20 | 3.27 | 41.77 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 13.32 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 23.86 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 32.22 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 40.43 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 7.90 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 22.33 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -3.42 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 11.06 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 22.22 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 32.99 | 0.02 | -2.5 to 2.5 | Pass |

## B4_15MHZ TEST RESULT

| 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 | -4.72 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -5.57 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -14.82 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -25.69 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -16.62 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 3.79 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -8.22 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -26.48 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -34.45 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -17.65 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -27.89 | -0.02 | -2.5 to 2.5 | Pass |
| | 1732.5 | 75 | 0 | 20 | 3.27 | 13.15 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 7.09 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 1.83 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -7.77 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -22.30 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -13.16 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -15.65 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -31.71 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -41.80 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -45.33 | -0.03 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -44.06 | -0.03 | -2.5 to 2.5 | Pass |
| | 1747.5 | 75 | 0 | 20 | 3.27 | 10.40 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 9.30 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 3.90 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -6.24 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -18.35 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -27.04 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -38.94 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -13.42 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -18.34 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -25.61 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -30.24 | -0.02 | -2.5 to 2.5 | Pass |
| 16QAM | 1717.5 | 75 | 0 | 20 | 3.27 | -0.20 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -8.22 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -7.70 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -13.02 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -15.58 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -16.16 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -11.04 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -16.28 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -15.92 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -19.25 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -17.12 | -0.01 | -2.5 to 2.5 | Pass |
| | 1732.5 | 75 | 0 | 20 | 3.27 | -44.60 | -0.03 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -40.48 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -33.77 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -33.77 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -39.54 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -41.87 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -6.02 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.16 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 7.88 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 8.31 | 0.00 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 50 | 3.85 | 12.43 | 0.01 | -2.5 to 2.5 | Pass |
| | 1747.5 | 75 | 0 | 20 | 3.27 | -48.64 | -0.03 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -3.85 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -6.12 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -9.71 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -13.28 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -18.65 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -12.75 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -15.61 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -14.28 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.37 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 1.79 | 0.00 | -2.5 to 2.5 | Pass |
| 64QAM | 1717.5 | 75 | 0 | 20 | 3.27 | -15.88 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -8.64 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 1.22 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -2.96 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 3.46 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 10.74 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 12.33 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 15.65 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 19.34 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 30.54 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 35.89 | 0.02 | -2.5 to 2.5 | Pass |
| | 1732.5 | 75 | 0 | 20 | 3.27 | 13.73 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 19.23 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 25.43 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 31.21 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 26.52 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 11.41 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 14.39 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 18.40 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 24.19 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 11.00 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 13.85 | 0.01 | -2.5 to 2.5 | Pass |
| | 1747.5 | 75 | 0 | 20 | 3.27 | 14.48 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 21.56 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 35.91 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 16.41 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.99 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 8.97 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 13.76 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 18.47 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 9.96 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -7.12 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.92 | -0.00 | -2.5 to 2.5 | Pass |

## B4_20MHZ TEST RESULT

| 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 | 8.71 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.49 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -10.34 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -26.77 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -37.56 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -9.96 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -28.68 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -12.90 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -19.77 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -15.75 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -18.75 | -0.01 | -2.5 to 2.5 | Pass |
| | 1732.5 | 100 | 0 | 20 | 3.27 | -5.91 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -3.33 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -17.04 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -28.73 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 3.28 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -22.92 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -12.27 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -33.40 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -12.73 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -34.17 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -16.58 | -0.01 | -2.5 to 2.5 | Pass |
| | 1745 | 100 | 0 | 20 | 3.27 | -0.94 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -12.42 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -30.10 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -14.91 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -36.85 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -10.33 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -30.23 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -19.50 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -14.08 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -26.12 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -18.32 | -0.01 | -2.5 to 2.5 | Pass |
| 16QAM | 1720 | 100 | 0 | 20 | 3.27 | -24.42 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -20.61 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -29.34 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -23.60 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 9.40 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 14.81 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 17.75 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 24.66 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 27.92 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 25.45 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 23.26 | 0.01 | -2.5 to 2.5 | Pass |
| | 1732.5 | 100 | 0 | 20 | 3.27 | -40.34 | -0.02 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 7.35 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 21.47 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 11.87 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -19.00 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -15.98 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -11.46 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -9.61 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -10.54 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.57 | -0.00 | -2.5 to 2.5 | Pass |

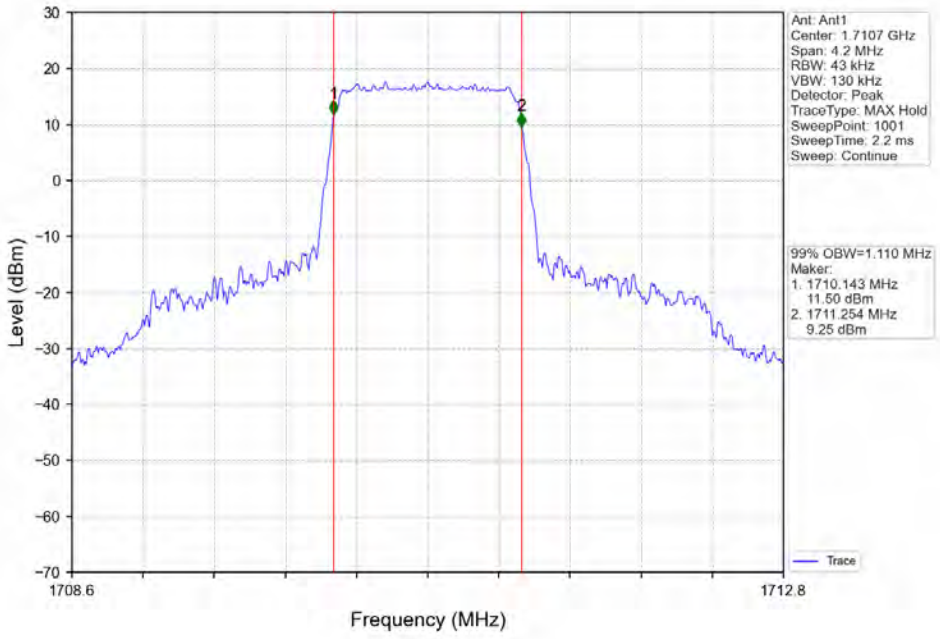
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 50 | 3.85 | 1.60 | 0.00 | -2.5 to 2.5 | Pass |
| | 1745 | 100 | 0 | 20 | 3.27 | -19.04 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 1.79 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -3.05 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -11.83 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -11.54 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -12.85 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -20.21 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -16.65 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -15.48 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -13.99 | -0.01 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -10.06 | -0.01 | -2.5 to 2.5 | Pass |
| 64QAM | 1720 | 100 | 0 | 20 | 3.27 | 27.31 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 29.87 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 11.77 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 22.80 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 35.08 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 9.05 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 17.54 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 22.82 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 25.76 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 36.68 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 8.90 | 0.01 | -2.5 to 2.5 | Pass |
| | 1732.5 | 100 | 0 | 20 | 3.27 | 10.14 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 23.09 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 13.68 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 6.54 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 15.91 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 25.16 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 26.78 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 5.22 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 20.57 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 31.53 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 9.27 | 0.01 | -2.5 to 2.5 | Pass |
| | 1745 | 100 | 0 | 20 | 3.27 | -3.49 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.41 | -0.00 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 10.69 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 21.21 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 31.13 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 15.51 | 0.01 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 28.50 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 38.20 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 37.94 | 0.02 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 2.50 | 0.00 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 15.92 | 0.01 | -2.5 to 2.5 | Pass |

## 99% & 26DB BANDWIDTH BAND4_OBW TEST RESULT

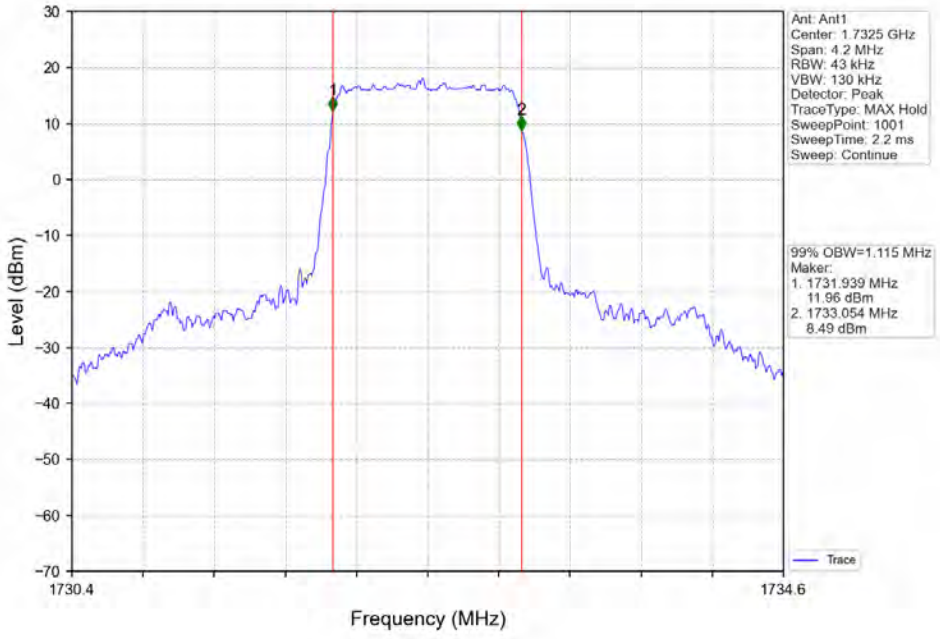
| Band: 4 / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 99% Occupied Bandwidth (MHz) | Verdict |
| | | | Size | Offset | Result | |
| 1.4 | QPSK | 1710.7 | 6 | 0 | 1.110 | Pass |
| | | 1732.5 | 6 | 0 | 1.115 | Pass |
| | | 1754.3 | 6 | 0 | 1.116 | Pass |
| | 16QAM | 1710.7 | 6 | 0 | 1.109 | Pass |
| | | 1732.5 | 6 | 0 | 1.113 | Pass |
| | | 1754.3 | 6 | 0 | 1.114 | Pass |
| | 64QAM | 1710.7 | 6 | 0 | 1.107 | Pass |
| | | 1732.5 | 6 | 0 | 1.107 | Pass |
| | | 1754.3 | 6 | 0 | 1.106 | Pass |
| 3 | QPSK | 1711.5 | 15 | 0 | 2.749 | Pass |
| | | 1732.5 | 15 | 0 | 2.754 | Pass |
| | | 1753.5 | 15 | 0 | 2.763 | Pass |
| | 16QAM | 1711.5 | 15 | 0 | 2.750 | Pass |
| | | 1732.5 | 15 | 0 | 2.753 | Pass |
| | | 1753.5 | 15 | 0 | 2.761 | Pass |
| | 64QAM | 1711.5 | 15 | 0 | 2.762 | Pass |
| | | 1732.5 | 15 | 0 | 2.762 | Pass |
| | | 1753.5 | 15 | 0 | 2.743 | Pass |
| 5 | QPSK | 1712.5 | 25 | 0 | 4.585 | Pass |
| | | 1732.5 | 25 | 0 | 4.550 | Pass |
| | | 1752.5 | 25 | 0 | 4.542 | Pass |
| | 16QAM | 1712.5 | 25 | 0 | 4.550 | Pass |
| | | 1732.5 | 25 | 0 | 4.562 | Pass |
| | | 1752.5 | 25 | 0 | 4.582 | Pass |
| | 64QAM | 1712.5 | 25 | 0 | 4.555 | Pass |
| | | 1732.5 | 25 | 0 | 4.562 | Pass |
| | | 1752.5 | 25 | 0 | 4.548 | Pass |
| 10 | QPSK | 1715 | 50 | 0 | 9.087 | Pass |
| | | 1732.5 | 50 | 0 | 9.057 | Pass |
| | | 1750 | 50 | 0 | 9.114 | Pass |
| | 16QAM | 1715 | 50 | 0 | 9.086 | Pass |
| | | 1732.5 | 50 | 0 | 9.058 | Pass |
| | | 1750 | 50 | 0 | 9.077 | Pass |
| | 64QAM | 1715 | 50 | 0 | 9.095 | Pass |
| | | 1732.5 | 50 | 0 | 9.061 | Pass |
| | | 1750 | 50 | 0 | 9.066 | Pass |
| 15 | QPSK | 1717.5 | 75 | 0 | 13.648 | Pass |
| | | 1732.5 | 75 | 0 | 13.613 | Pass |
| | | 1747.5 | 75 | 0 | 13.631 | Pass |
| | 16QAM | 1717.5 | 75 | 0 | 13.635 | Pass |
| | | 1732.5 | 75 | 0 | 13.605 | Pass |
| | | 1747.5 | 75 | 0 | 13.650 | Pass |
| | 64QAM | 1717.5 | 75 | 0 | 13.643 | Pass |
| | | 1732.5 | 75 | 0 | 13.602 | Pass |
| | | 1747.5 | 75 | 0 | 13.657 | Pass |
| 20 | QPSK | 1720 | 100 | 0 | 18.136 | Pass |
| | | 1732.5 | 100 | 0 | 18.153 | Pass |
| | | 1745 | 100 | 0 | 18.169 | Pass |
| | 16QAM | 1720 | 100 | 0 | 18.148 | Pass |
| | | 1732.5 | 100 | 0 | 18.154 | Pass |
| | | 1745 | 100 | 0 | 18.161 | Pass |
| | 64QAM | 1720 | 100 | 0 | 18.131 | Pass |
| | | 1732.5 | 100 | 0 | 18.152 | Pass |
| | | 1745 | 100 | 0 | 18.134 | Pass |

## TEST GRAPH

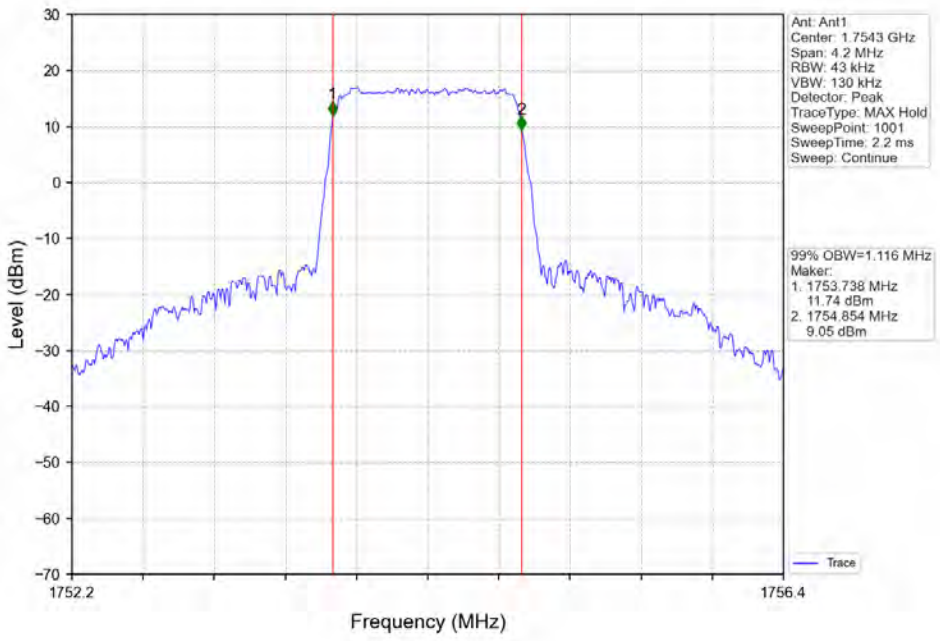
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



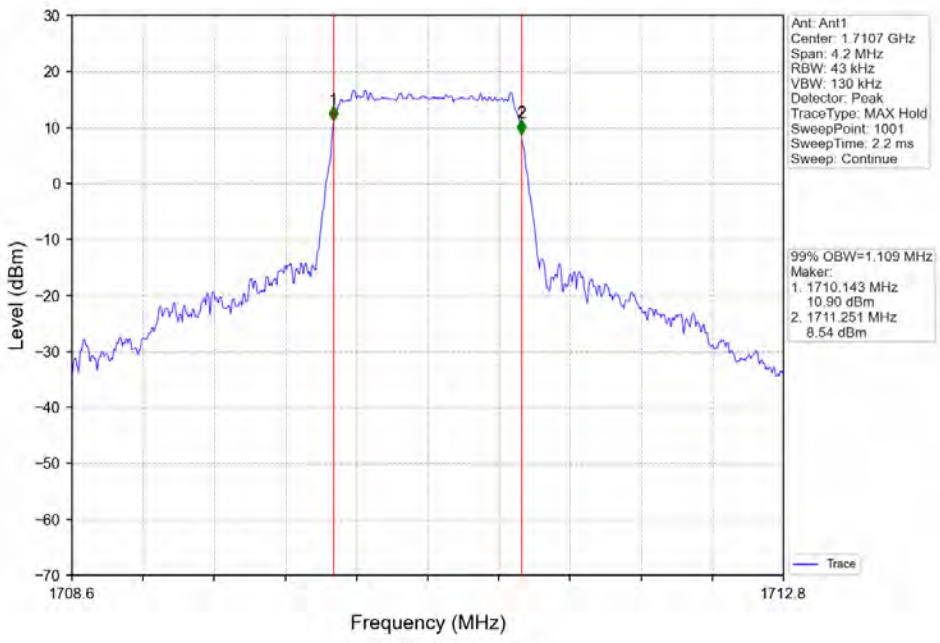

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



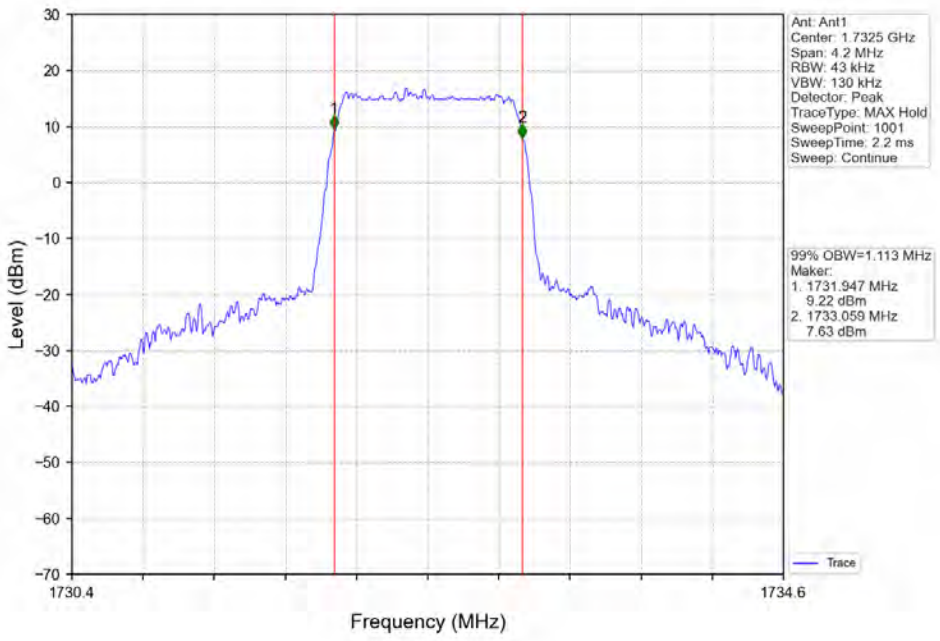
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



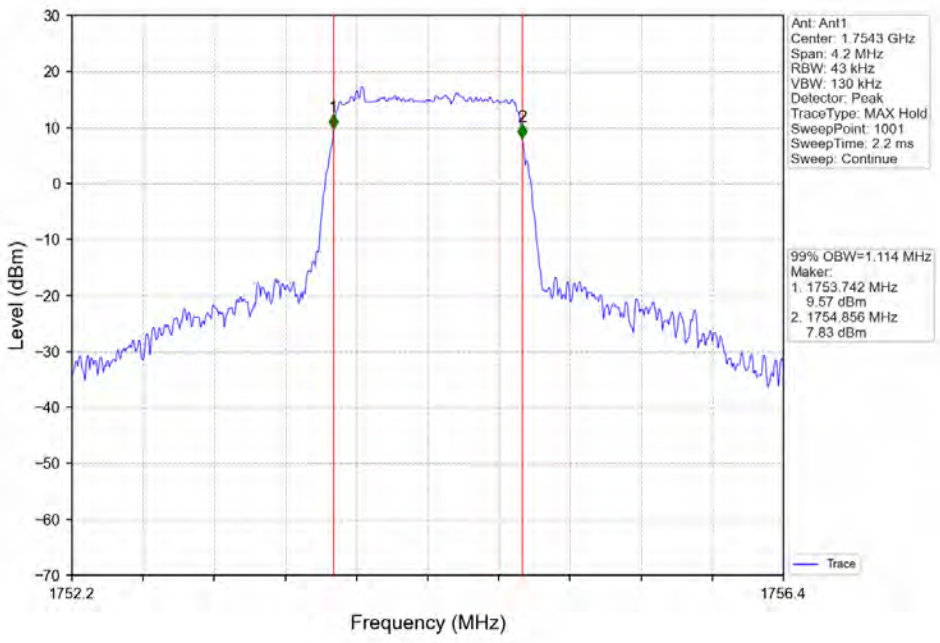

Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



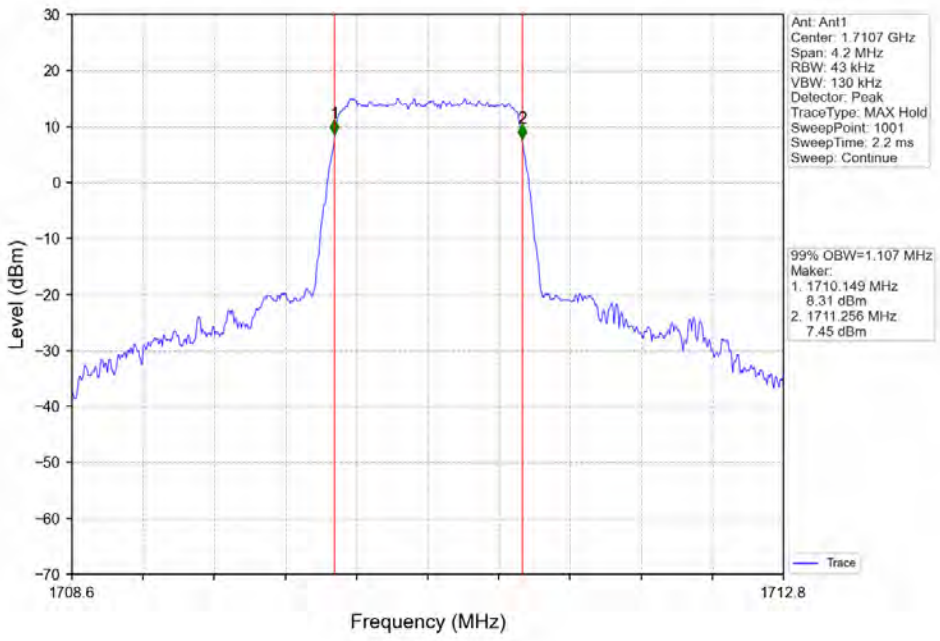
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



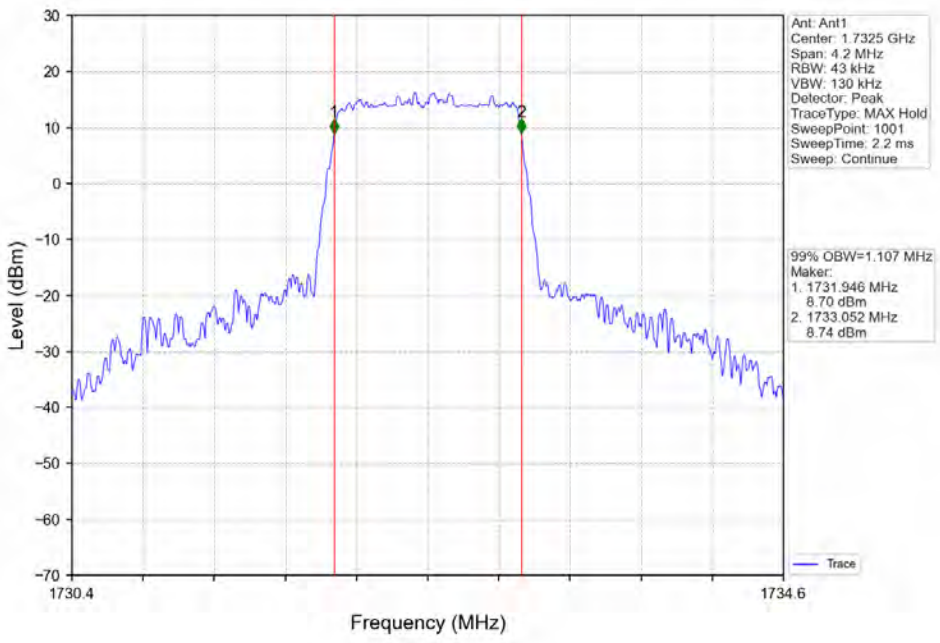

Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



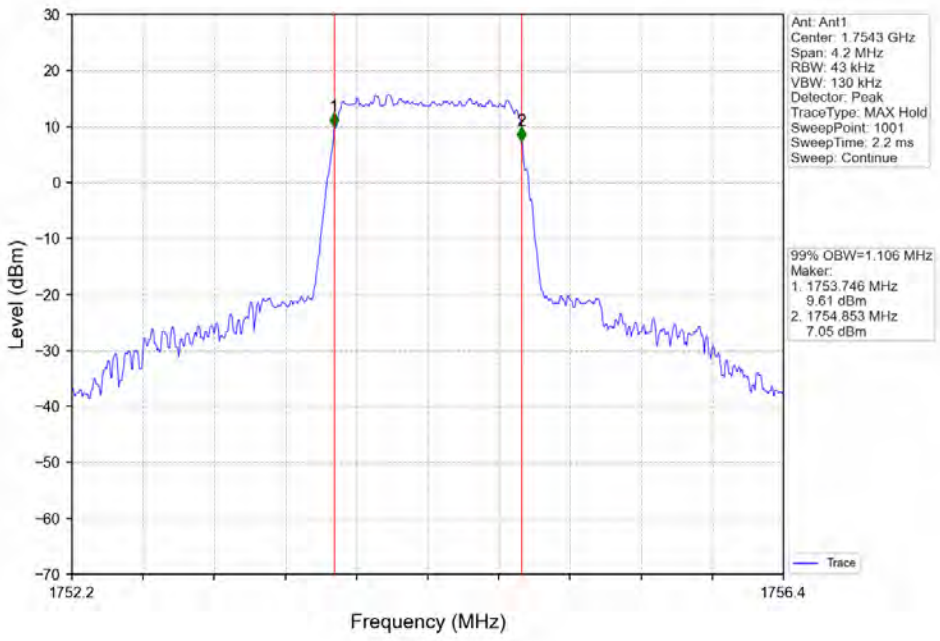
Band4_1.4MHz_64QAM_LCH_1710.7MHz_RB_6_0_NTNV



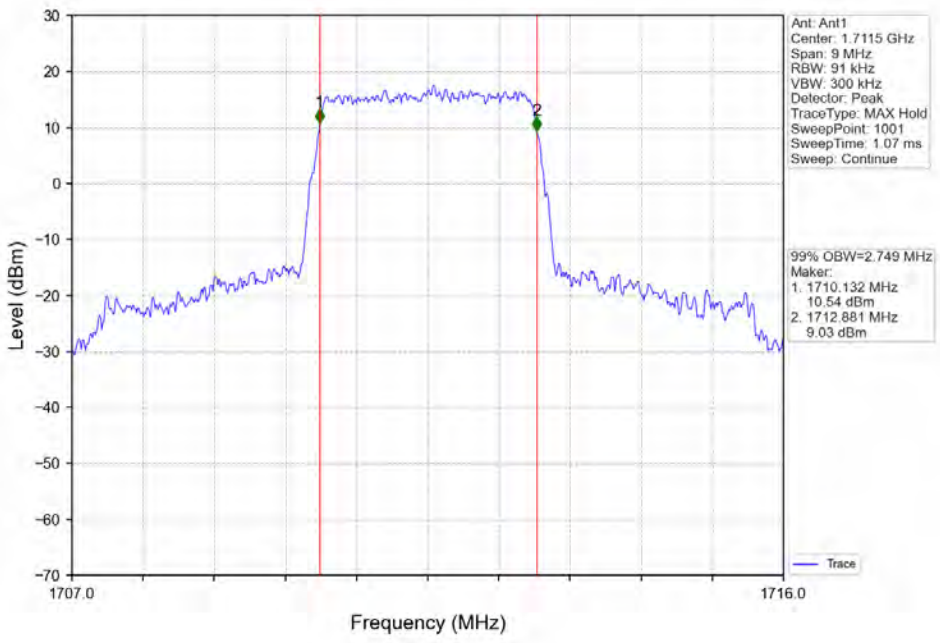

Band4_1.4MHz_64QAM_MCH_1732.5MHz_RB_6_0_NTNV



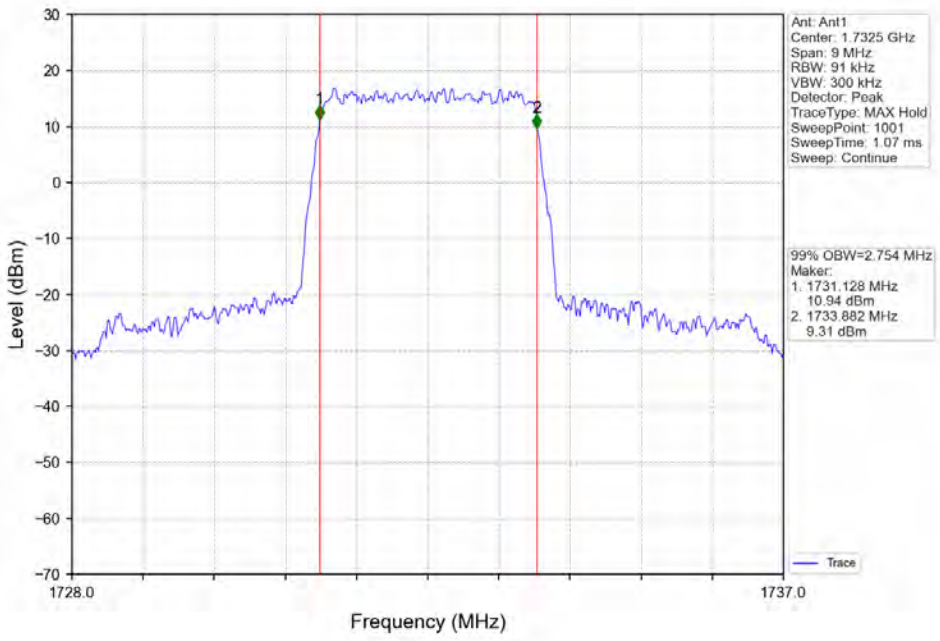
Band4_1.4MHz_64QAM_HCH_1754.3MHz_RB_6_0_NTNV



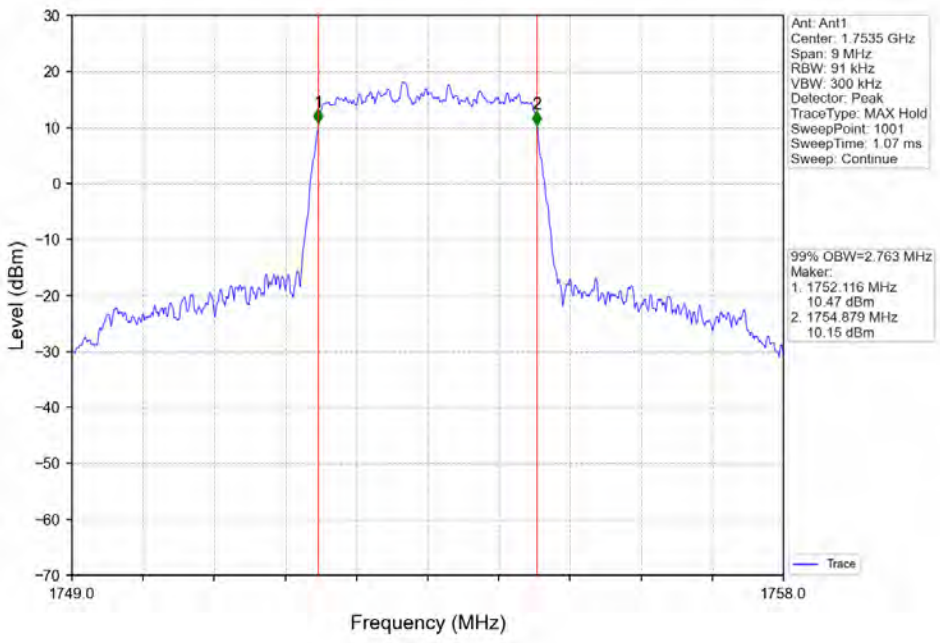

Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



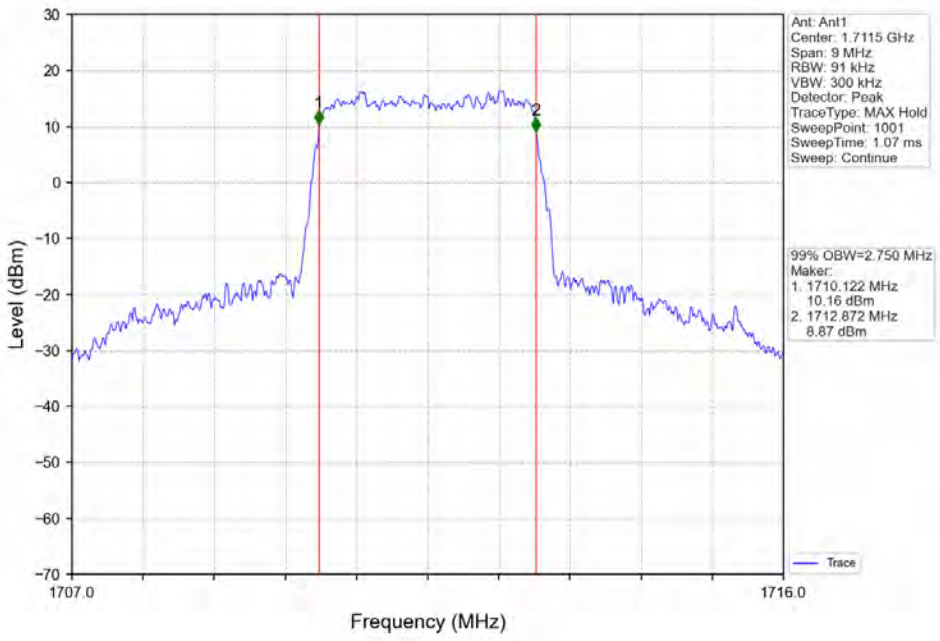
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



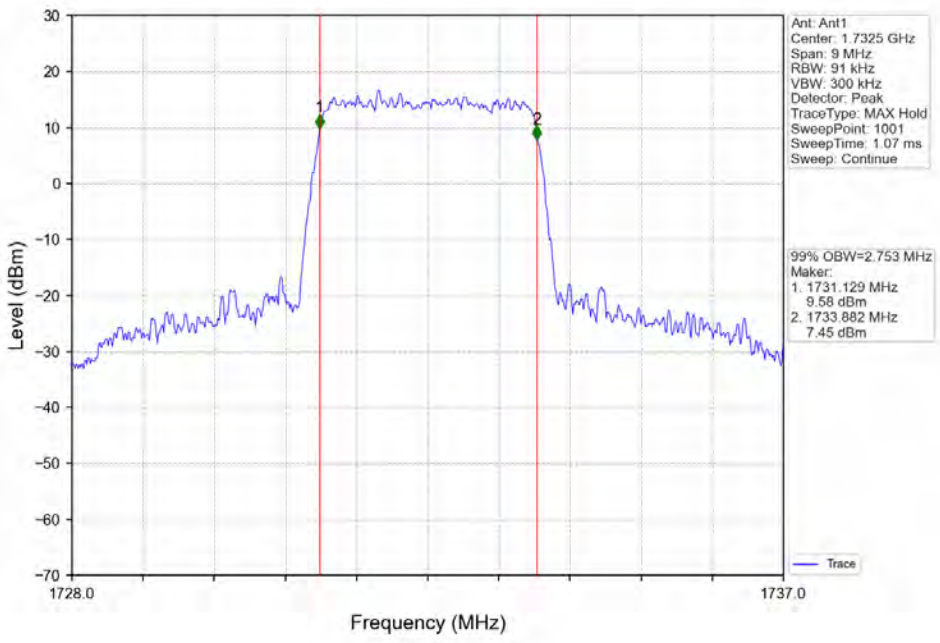

Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



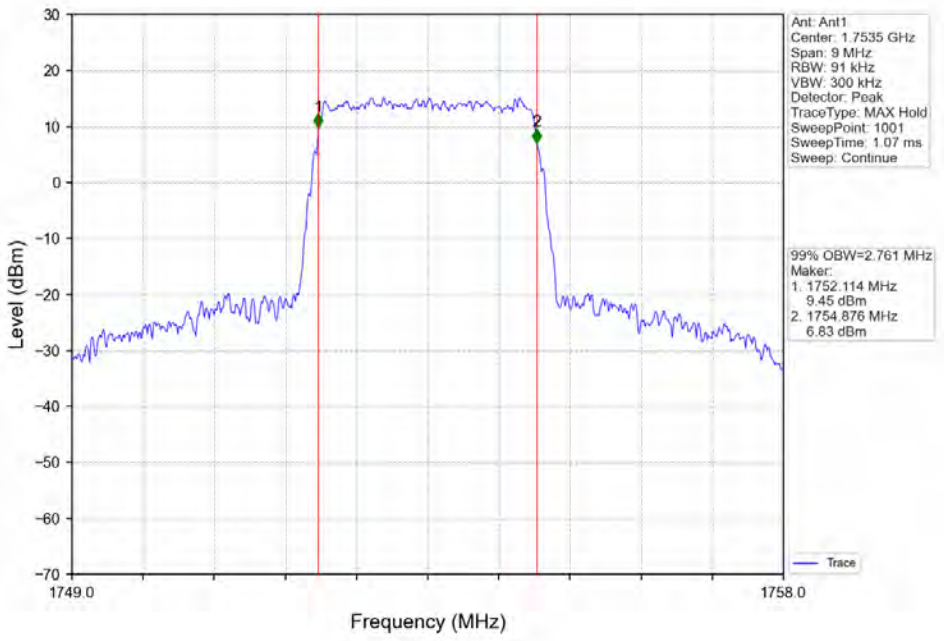
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



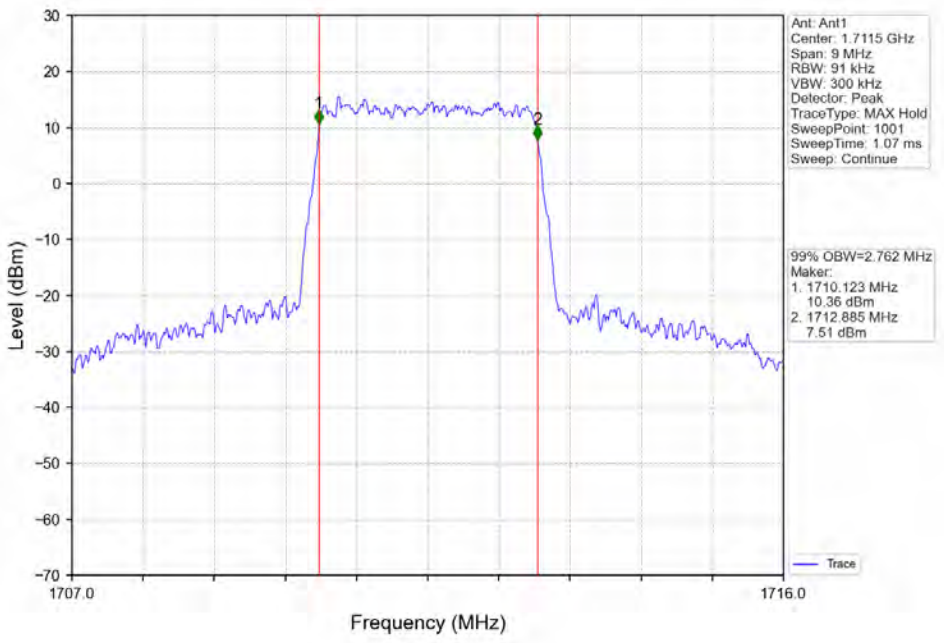

Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



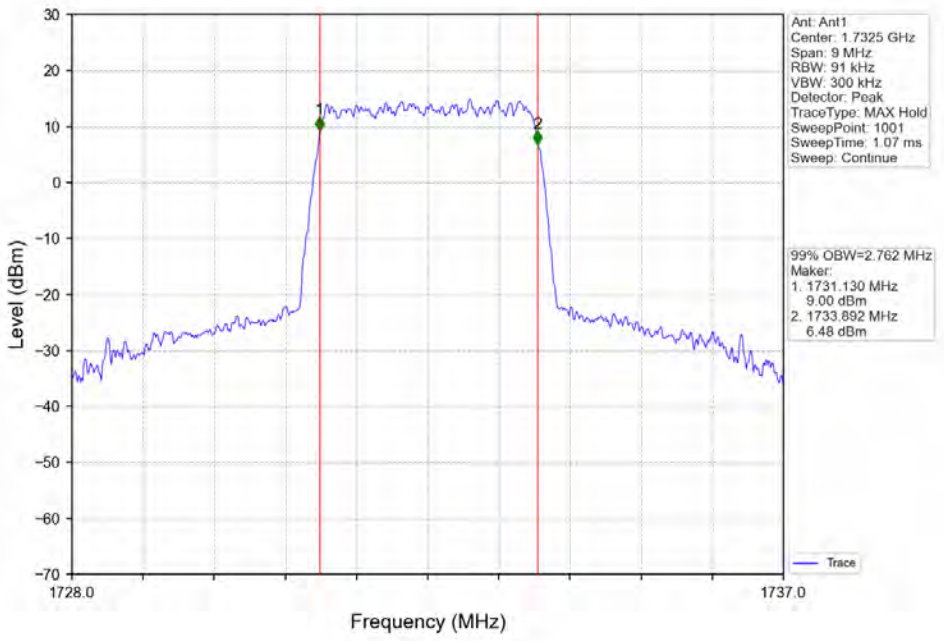
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



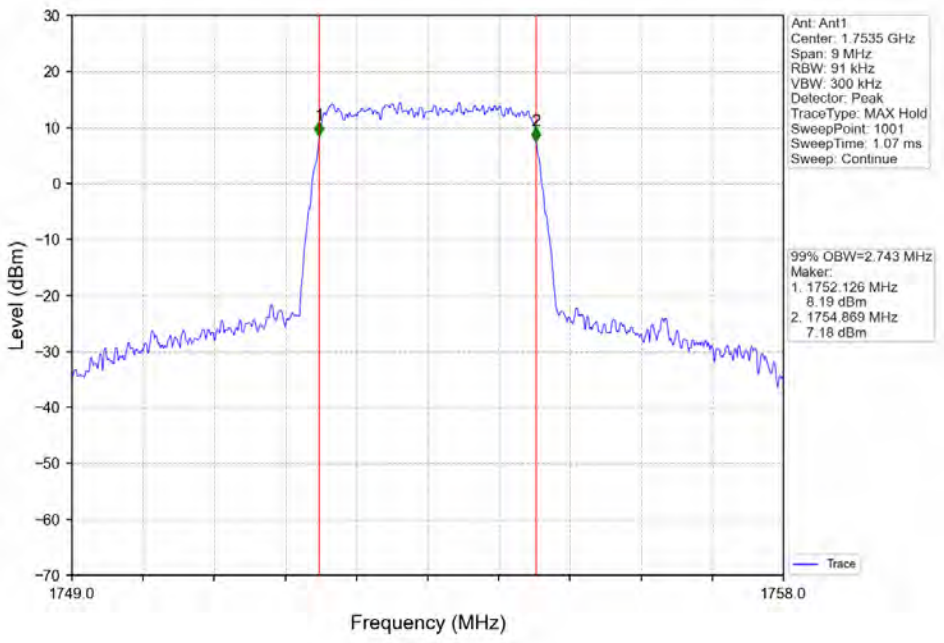

Band4_3MHz_64QAM_LCH_1711.5MHz_RB_15_0_NTNV



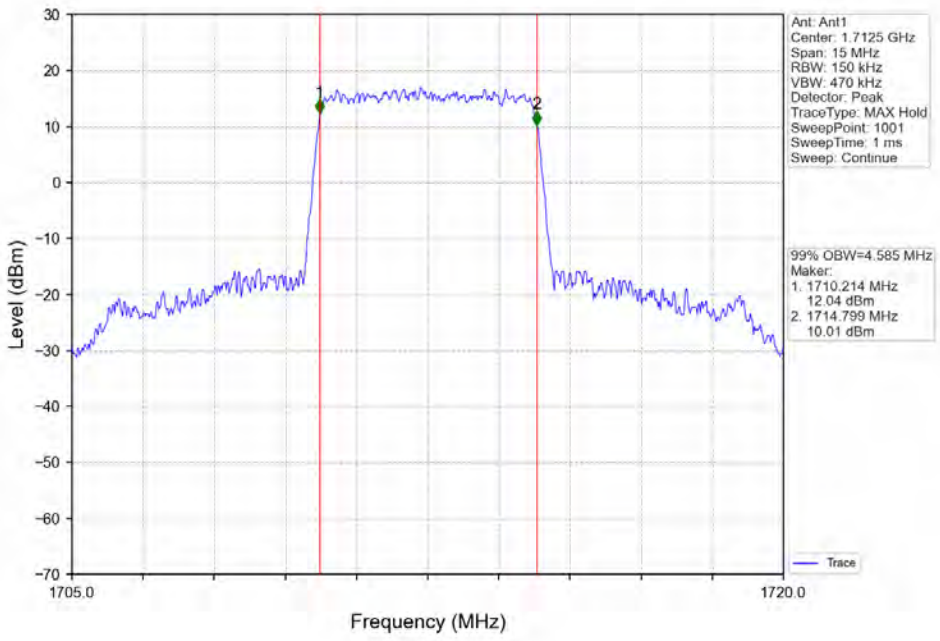
Band4_3MHz_64QAM_MCH_1732.5MHz_RB_15_0_NTNV



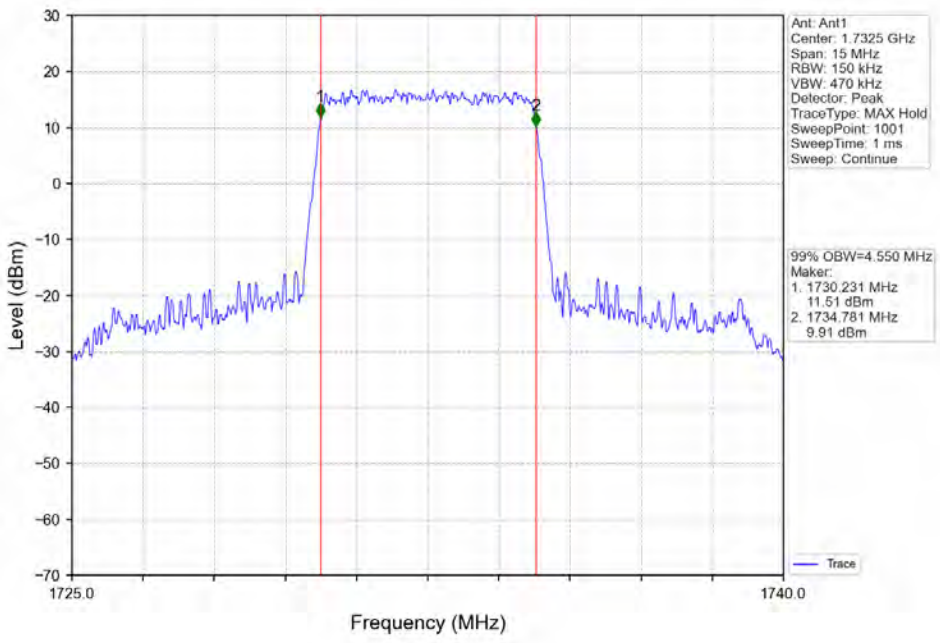

Band4_3MHz_64QAM_HCH_1753.5MHz_RB_15_0_NTNV



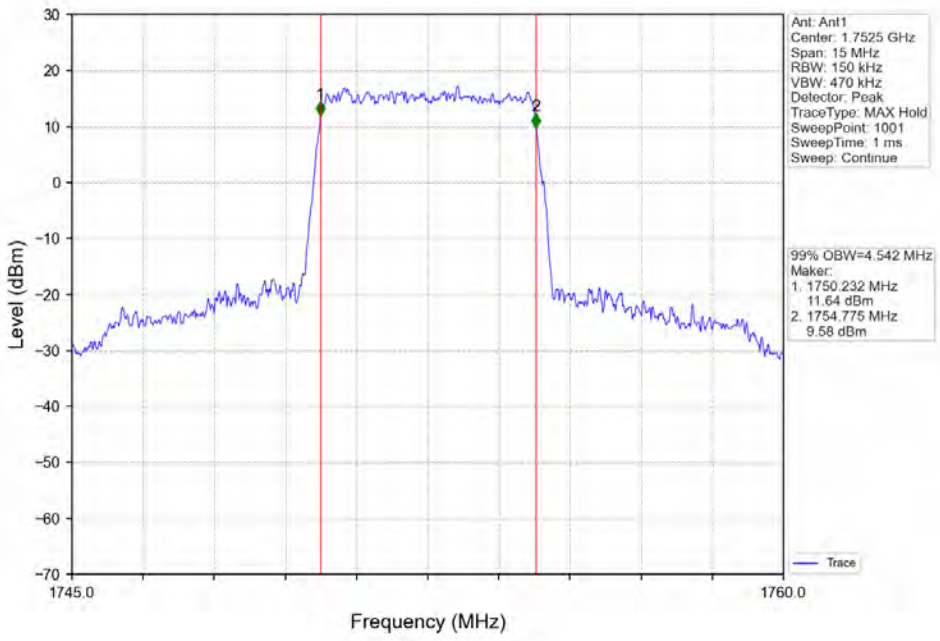
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



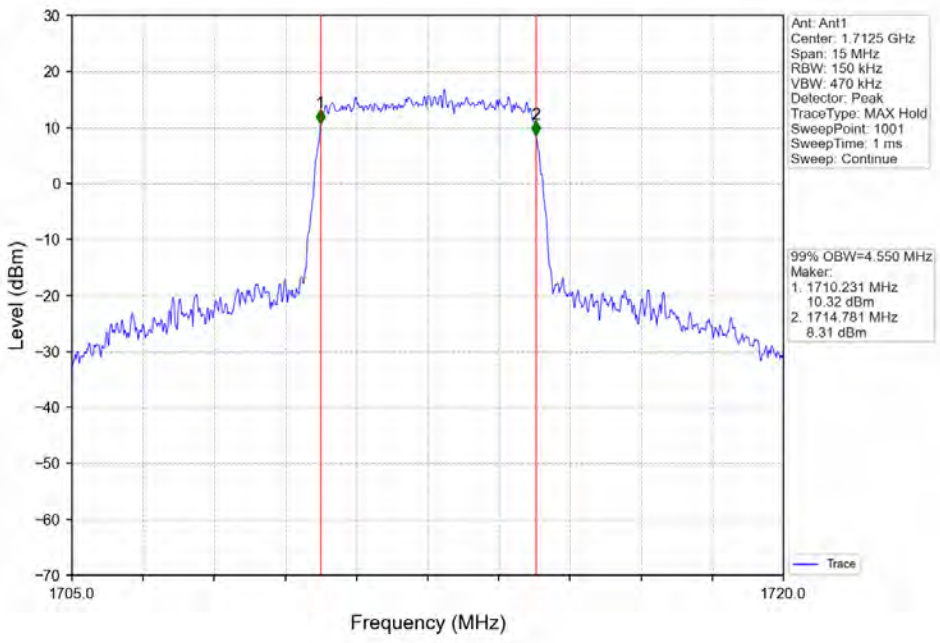

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



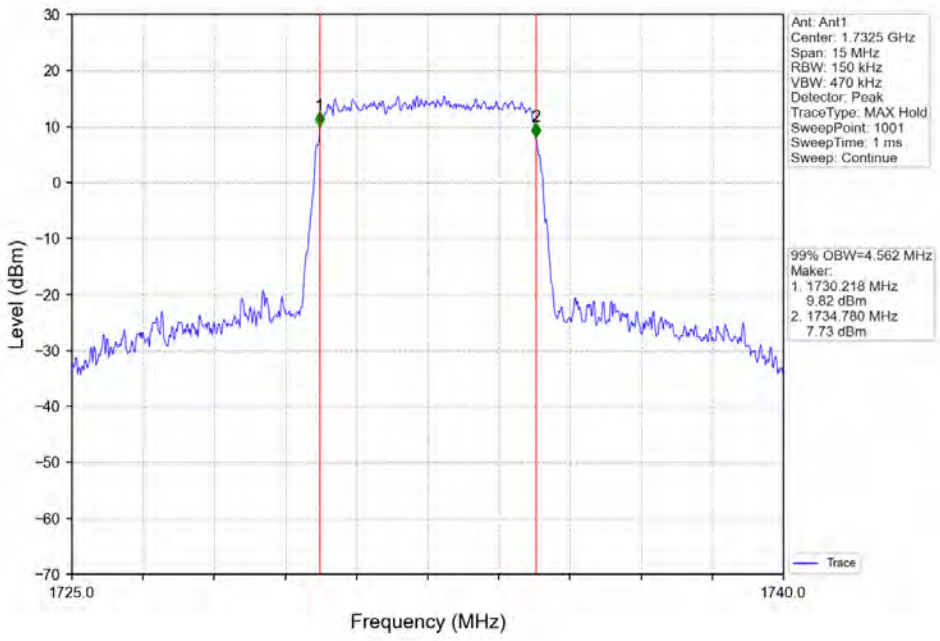
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



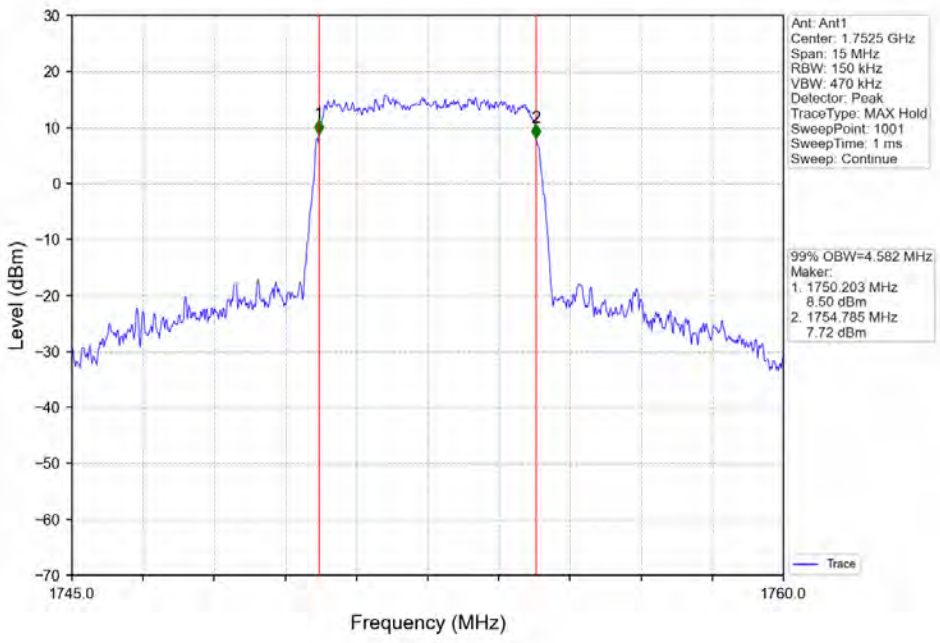

Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



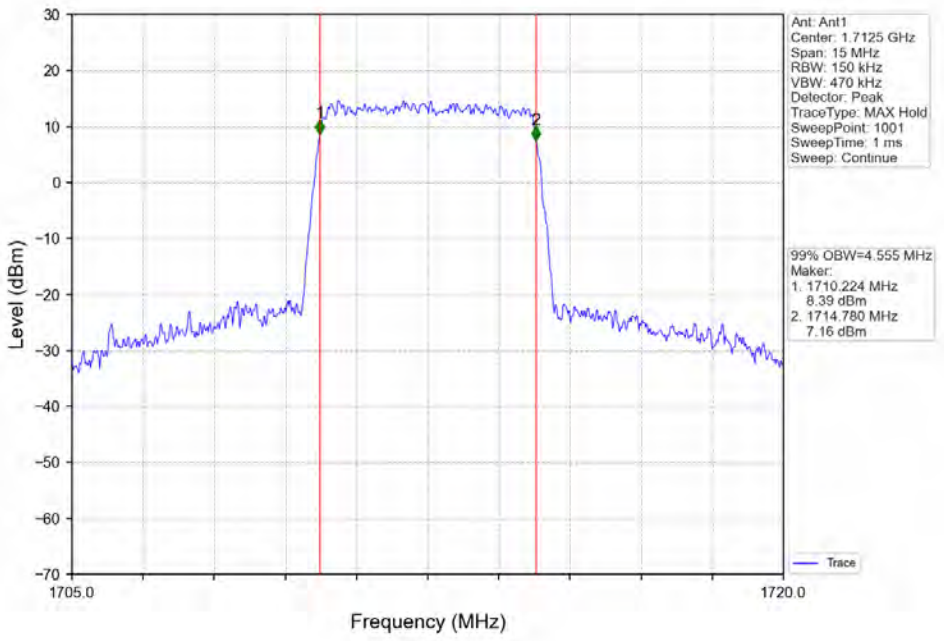
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



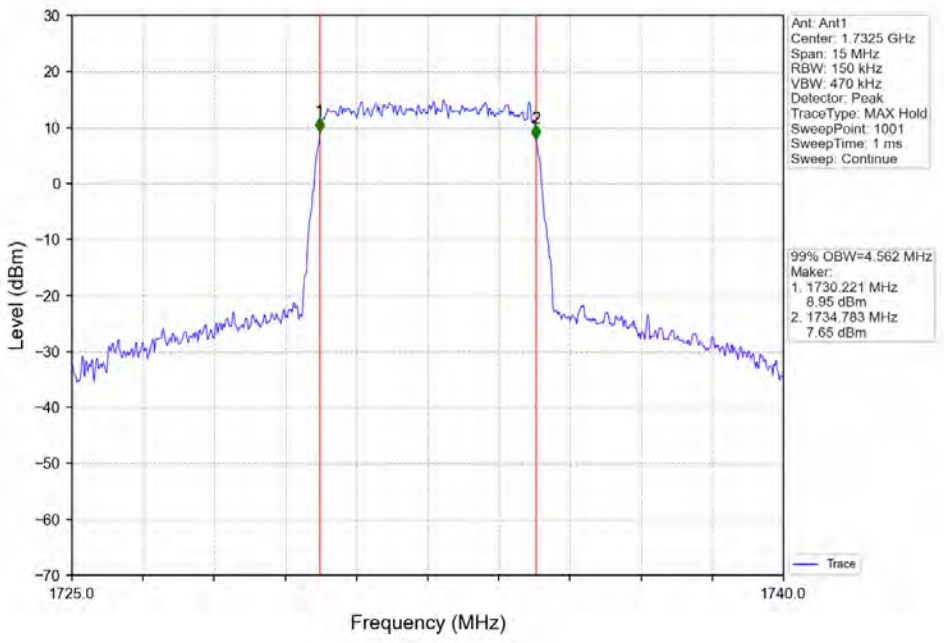

Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



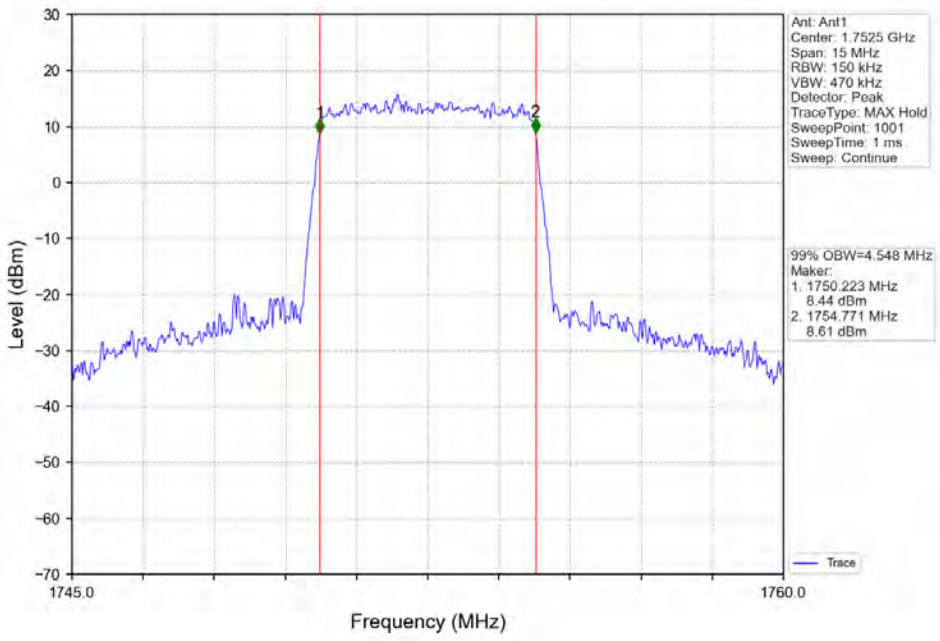
Band4_5MHz_64QAM_LCH_1712.5MHz_RB_25_0_NTNV



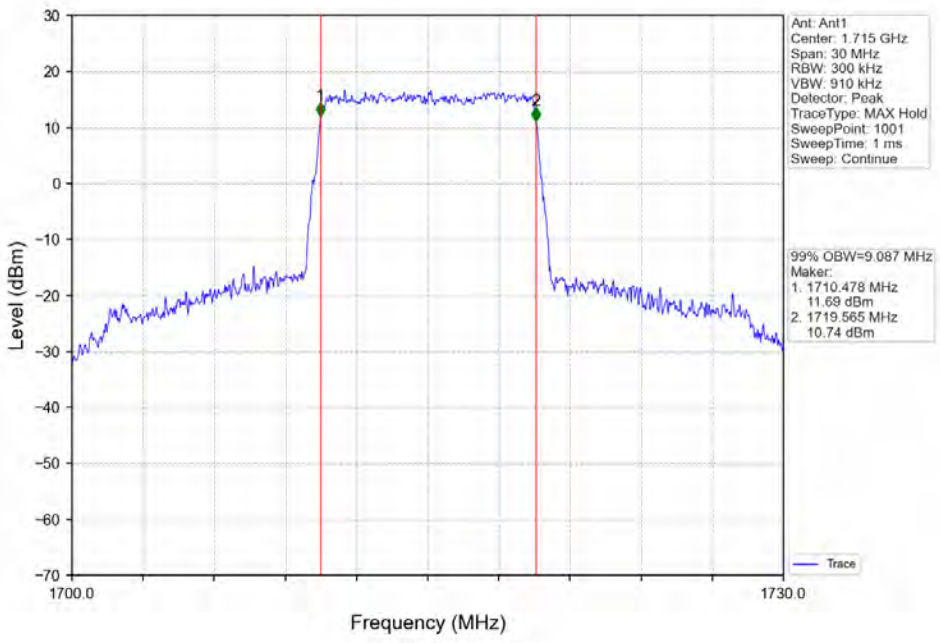

Band4_5MHz_64QAM_MCH_1732.5MHz_RB_25_0_NTNV



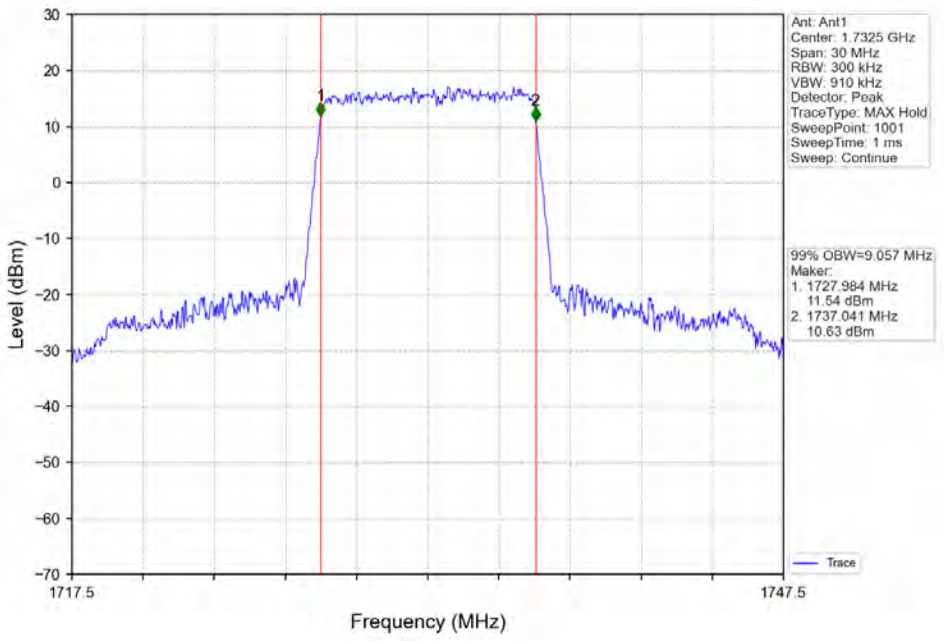
Band4_5MHz_64QAM_HCH_1752.5MHz_RB_25_0_NTNV



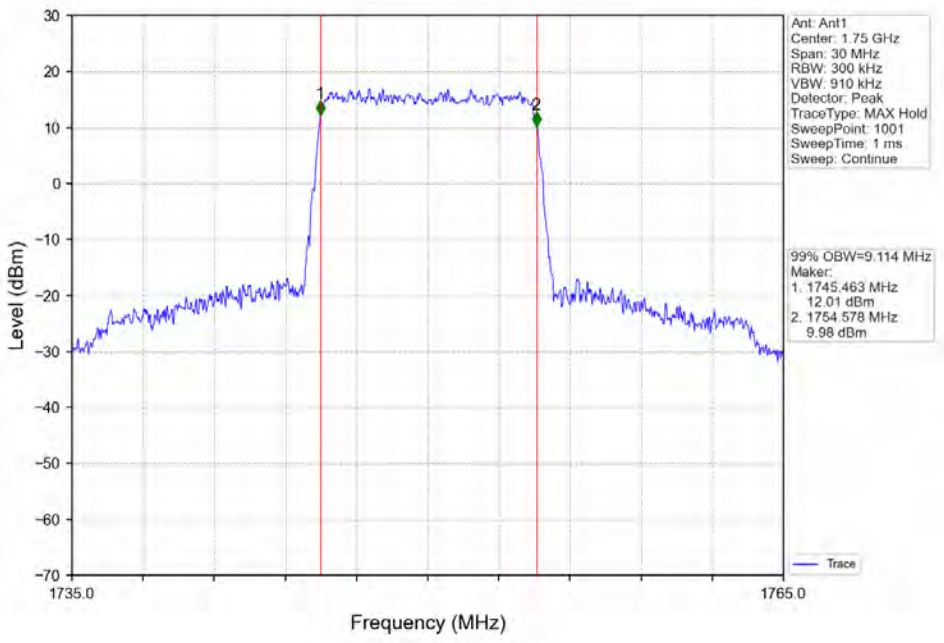

Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



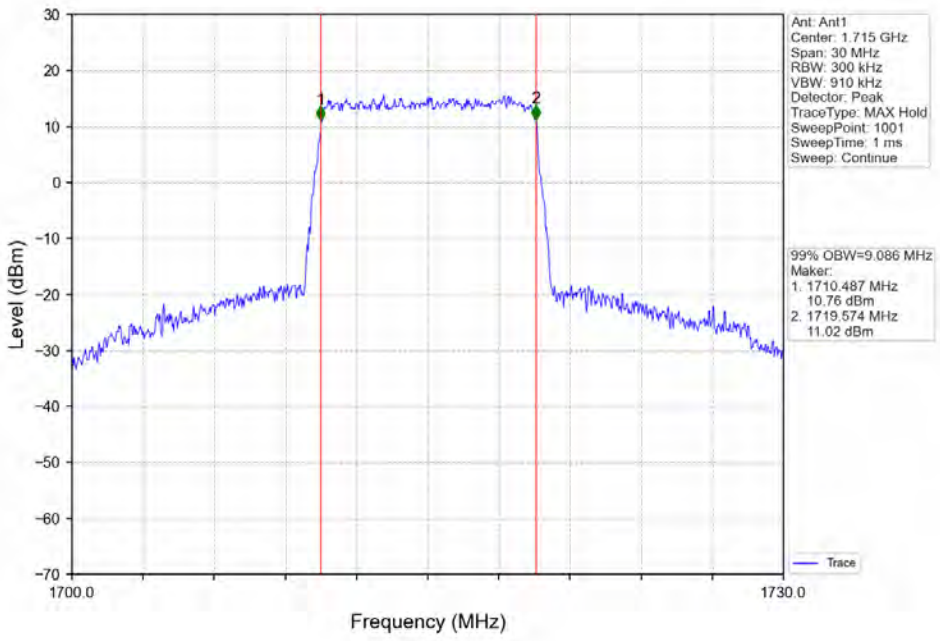
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



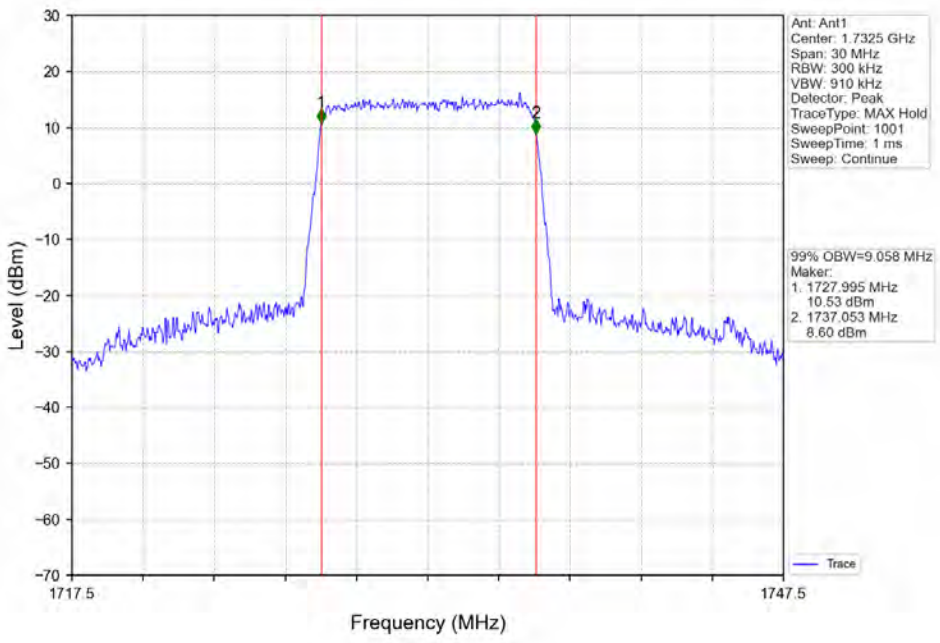

Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



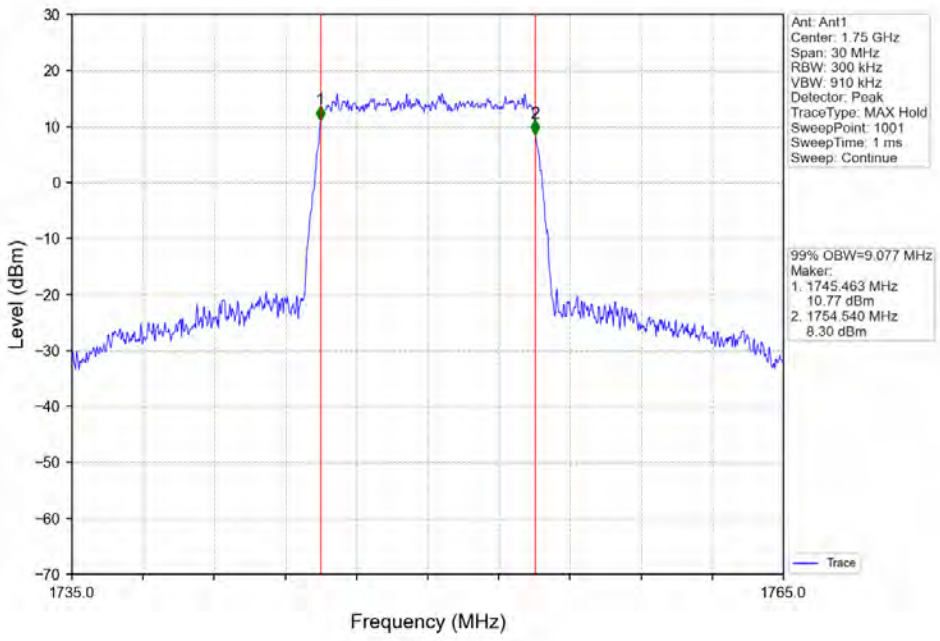
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



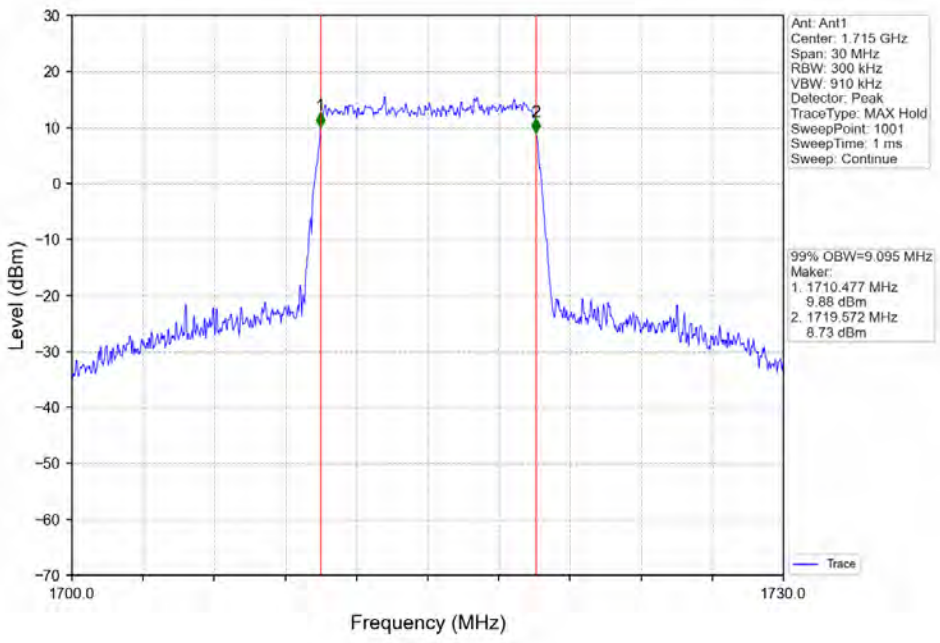

Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



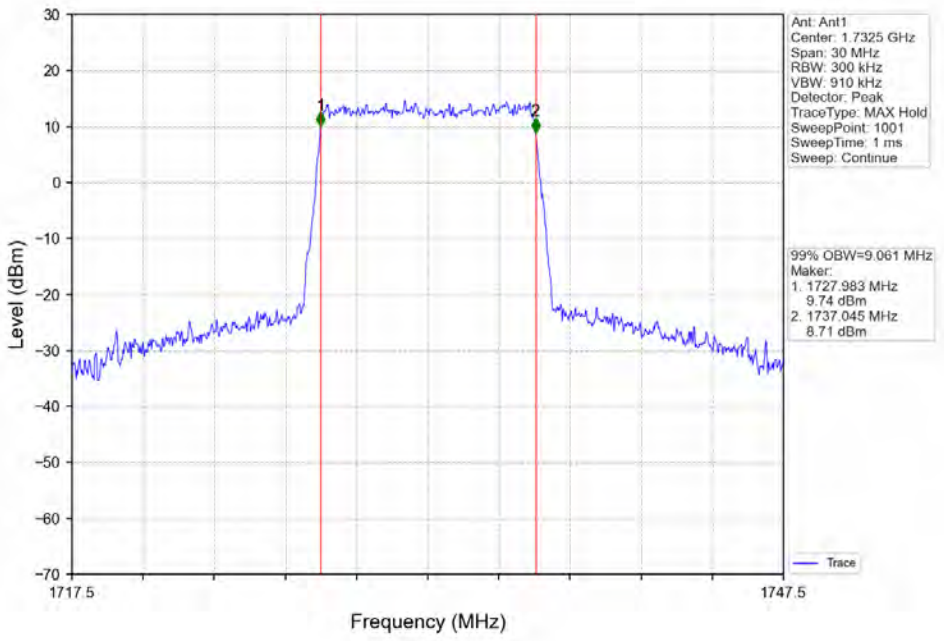
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



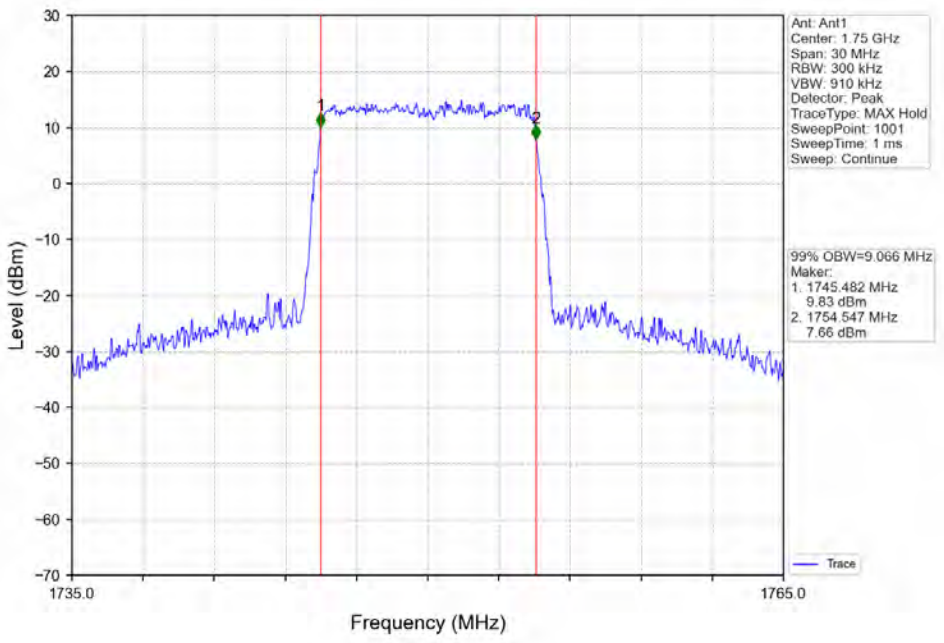

Band4_10MHz_64QAM_LCH_1715MHz_RB_50_0_NTNV



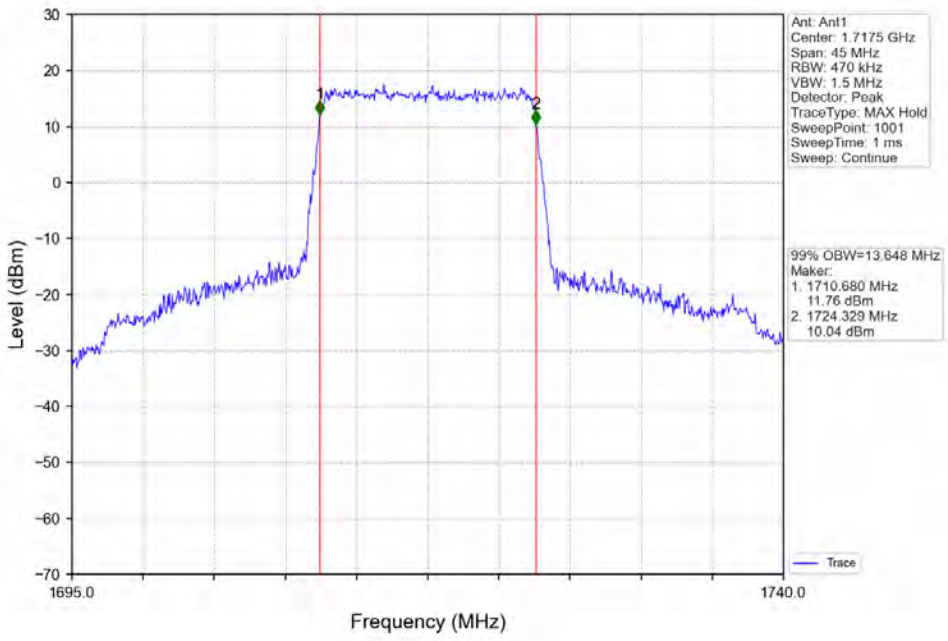
Band4_10MHz_64QAM_MCH_1732.5MHz_RB_50_0_NTNV



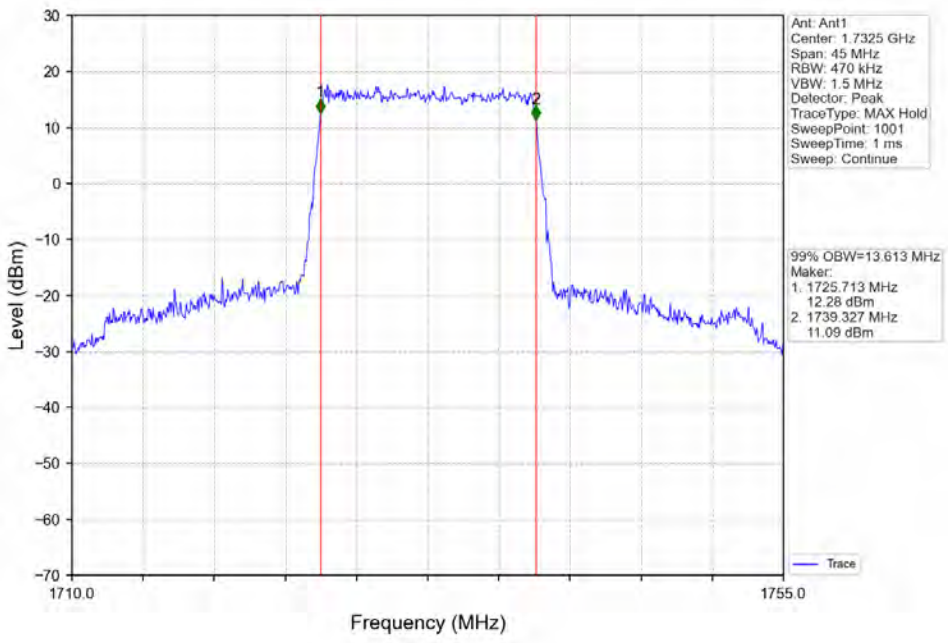

Band4_10MHz_64QAM_HCH_1750MHz_RB_50_0_NTNV



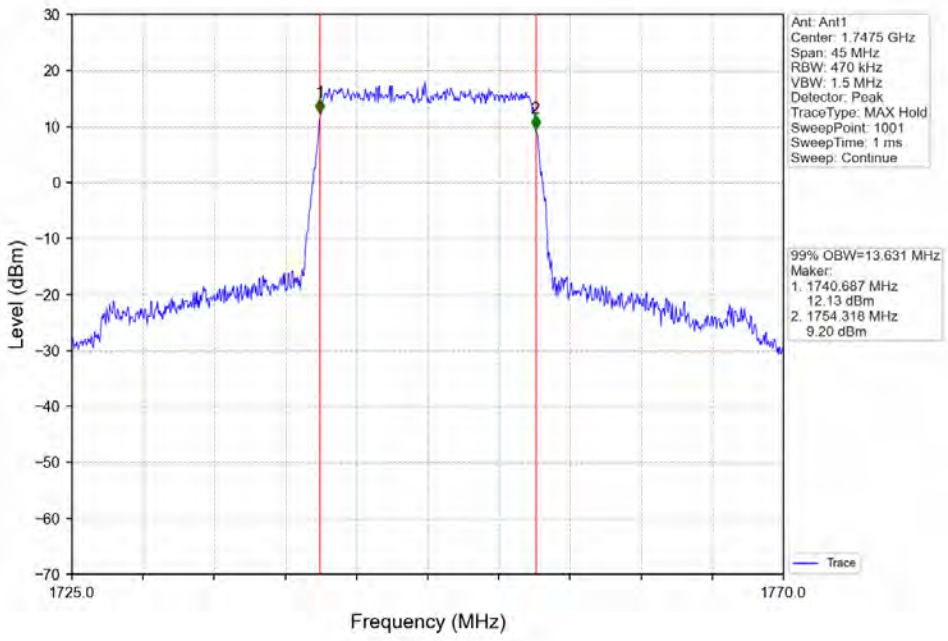
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



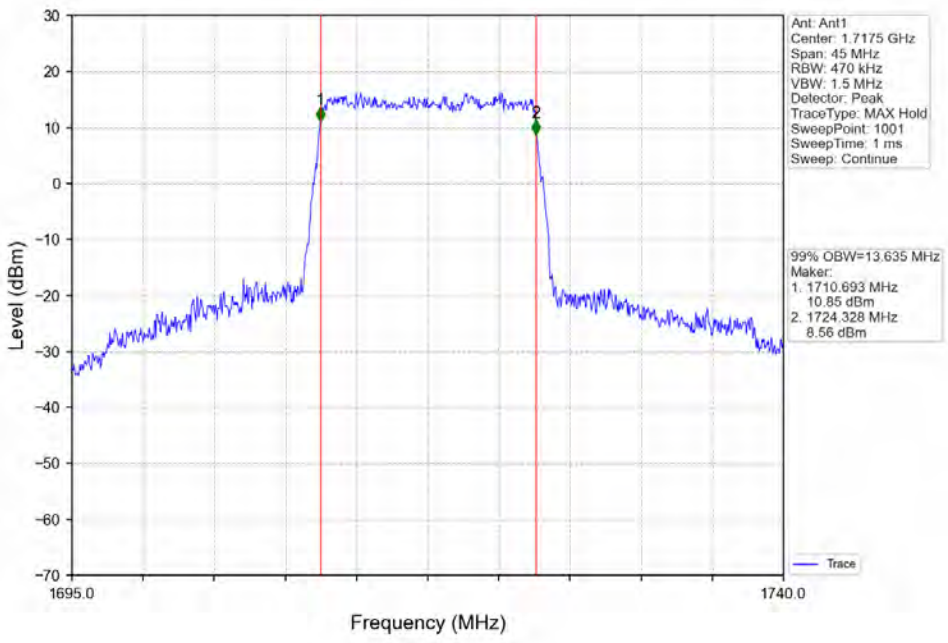

Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



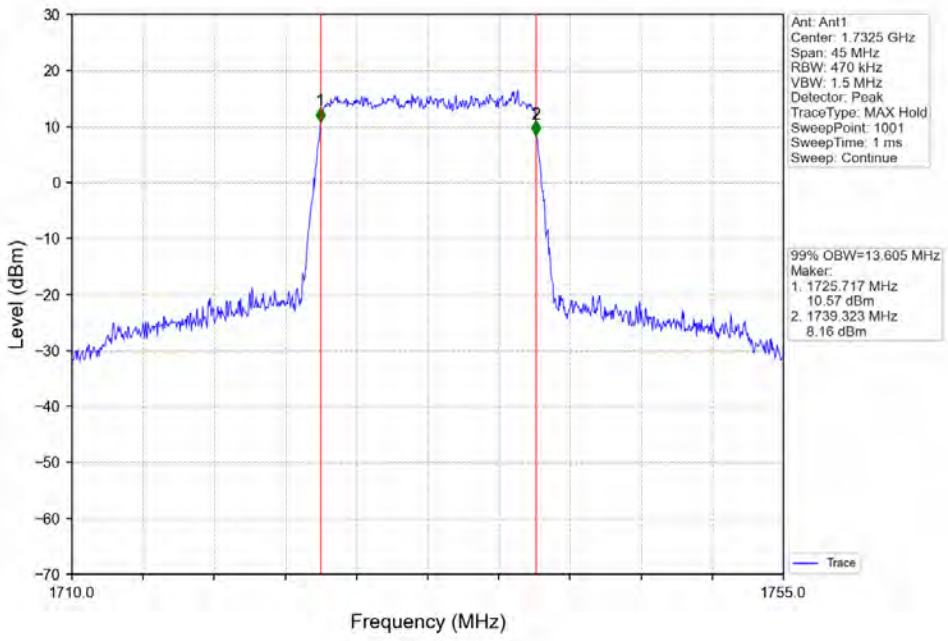
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



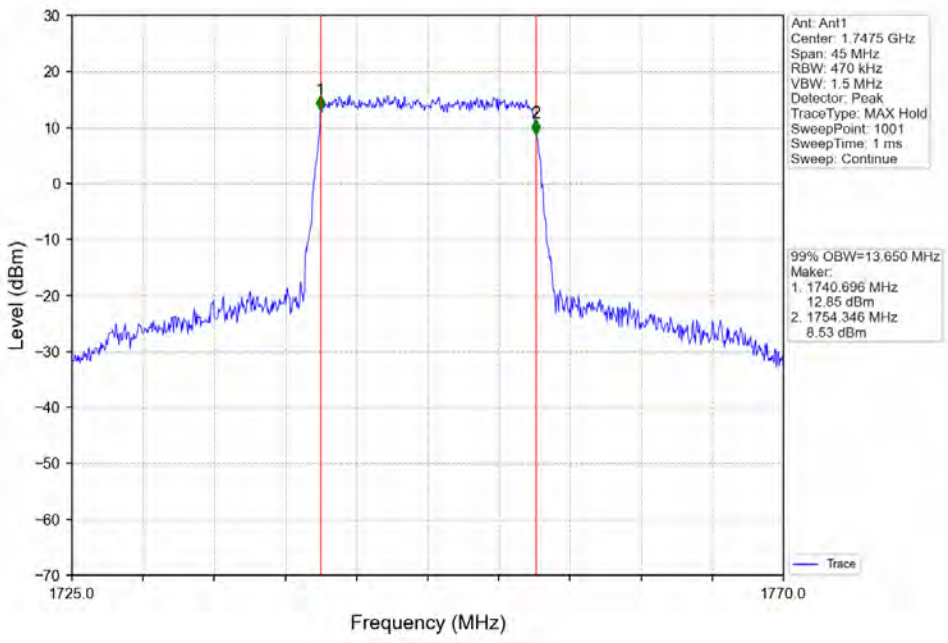

Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



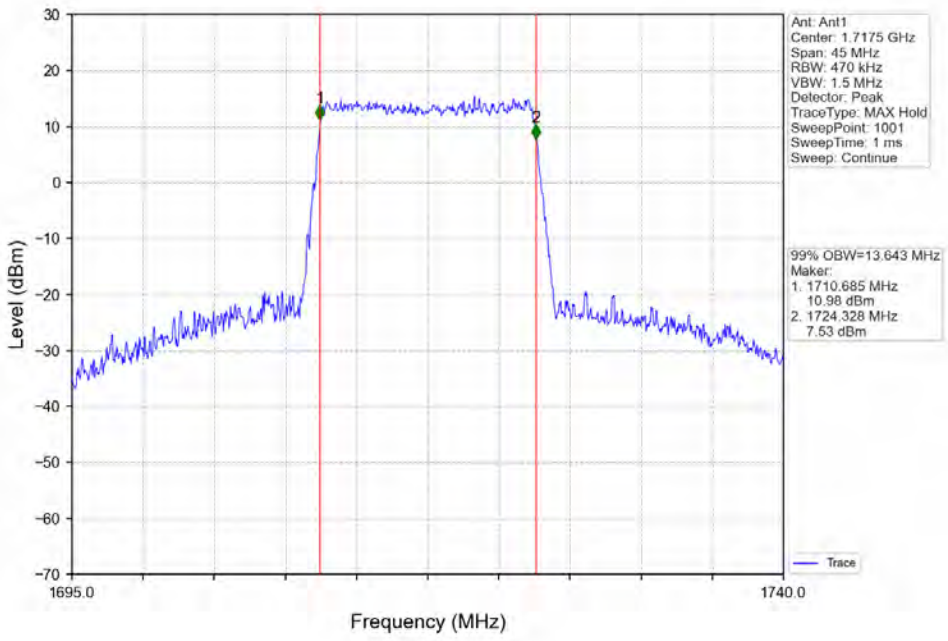
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



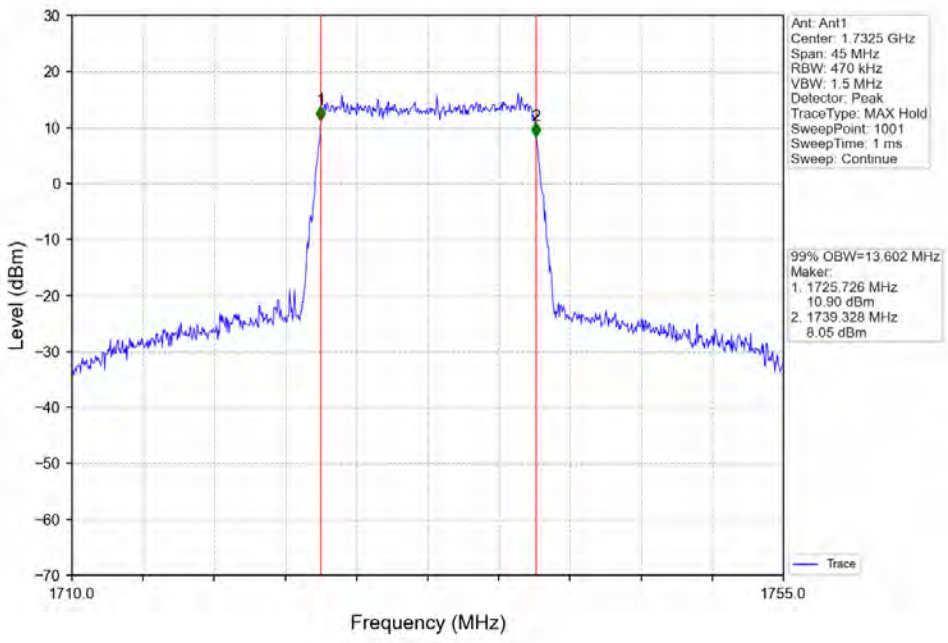

Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



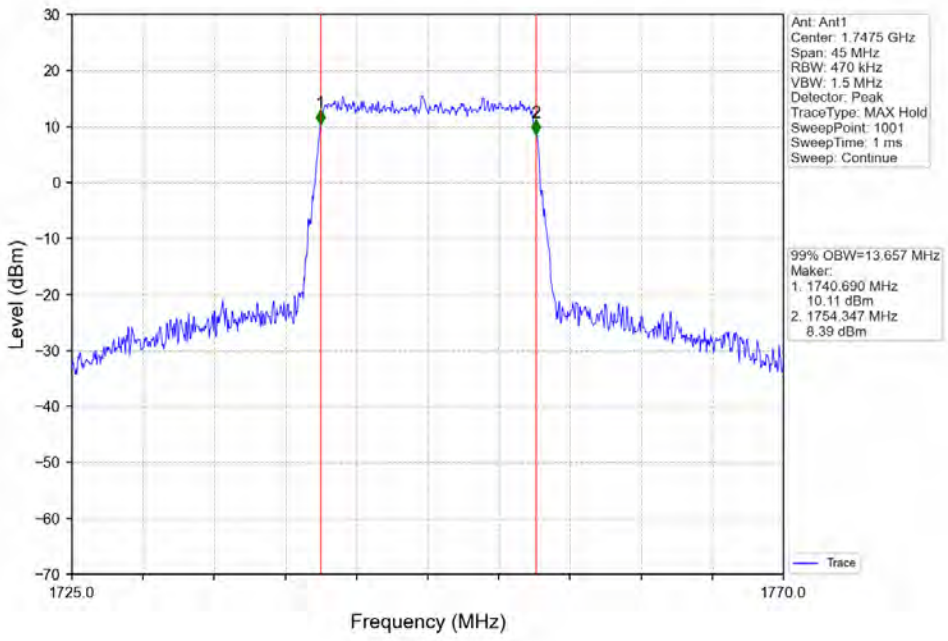
Band4_15MHz_64QAM_LCH_1717.5MHz_RB_75_0_NTNV



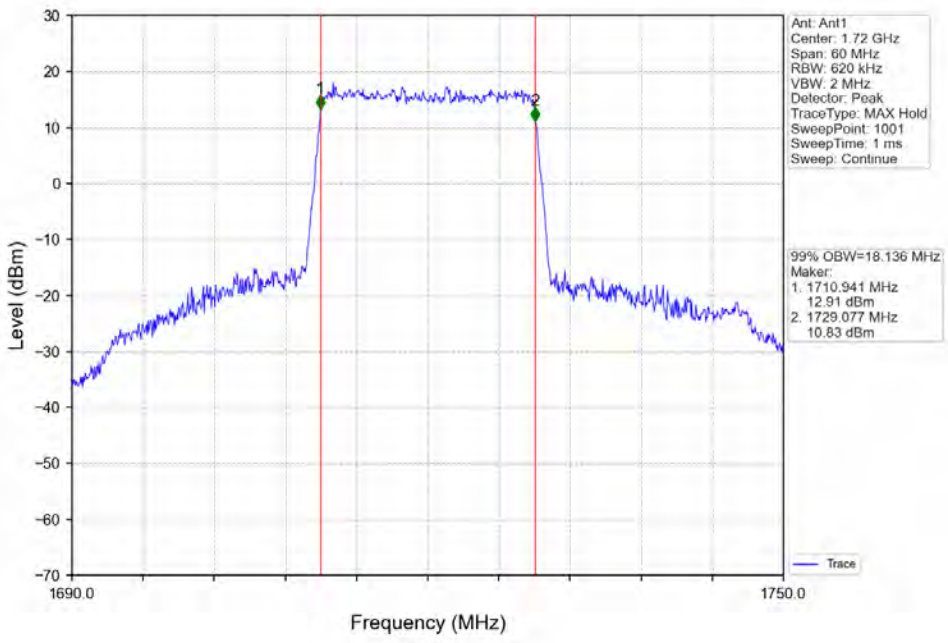

Band4_15MHz_64QAM_MCH_1732.5MHz_RB_75_0_NTNV



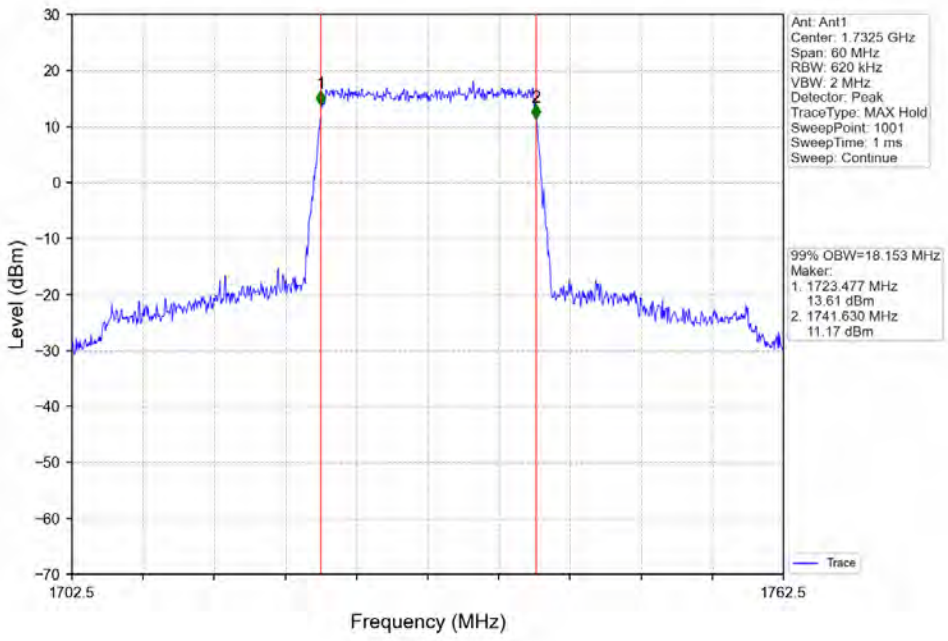
Band4_15MHz_64QAM_HCH_1747.5MHz_RB_75_0_NTNV



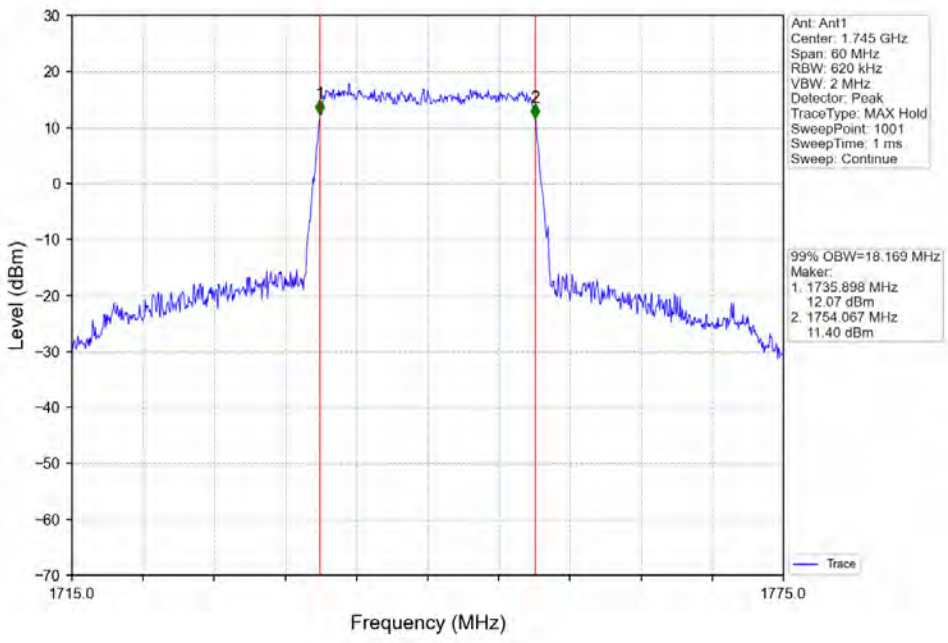

Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



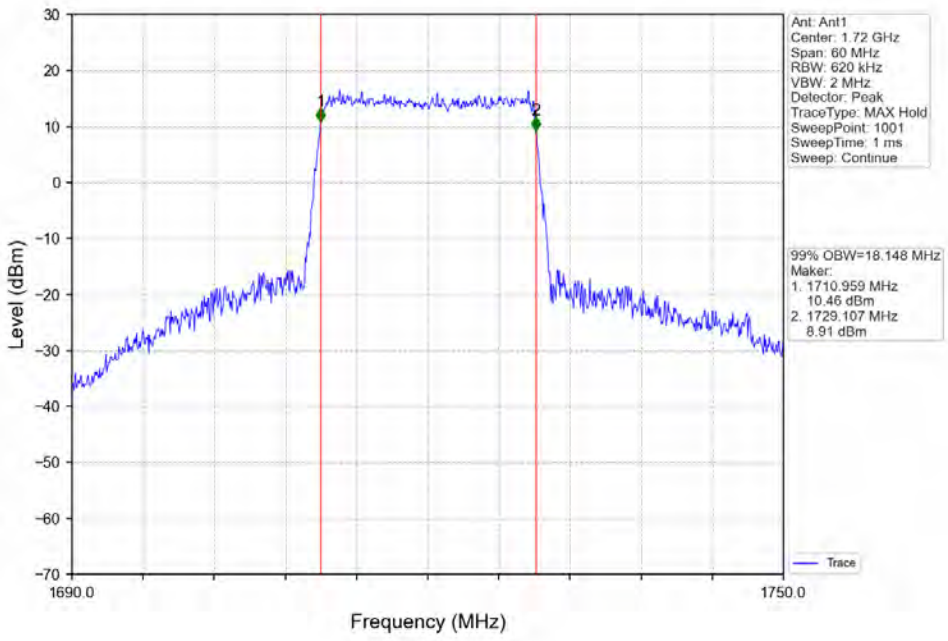
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



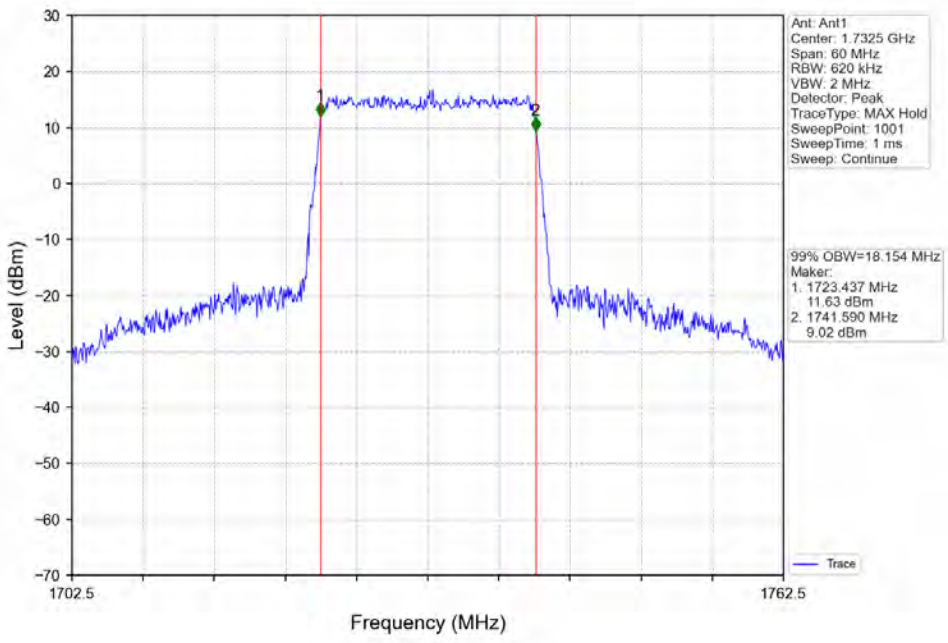

Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



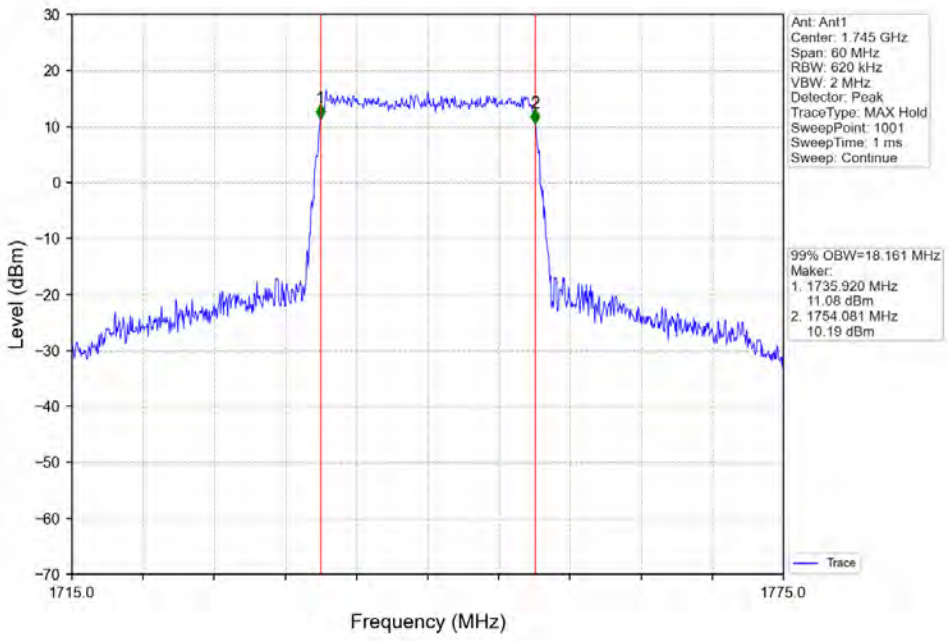
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



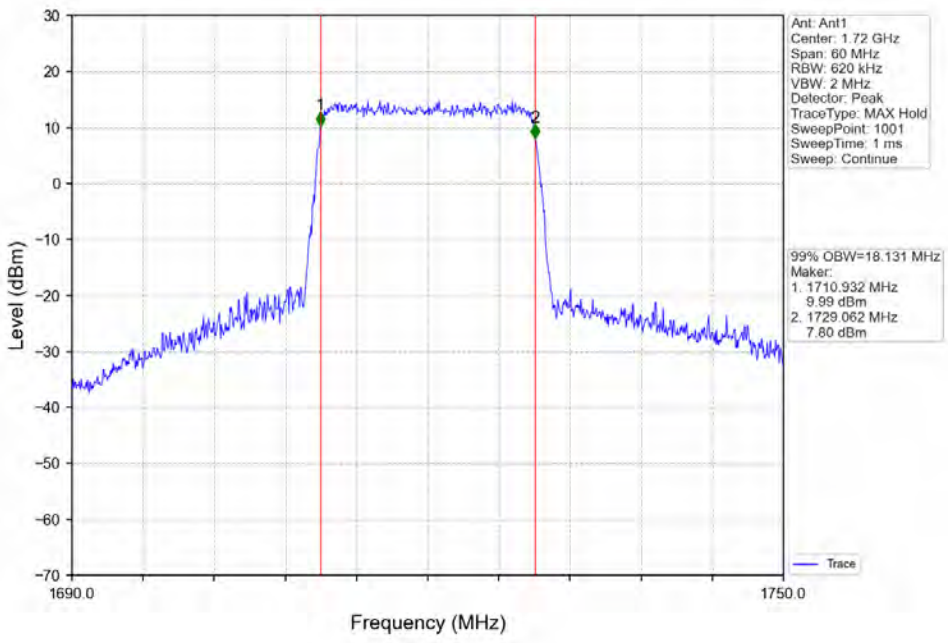

Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



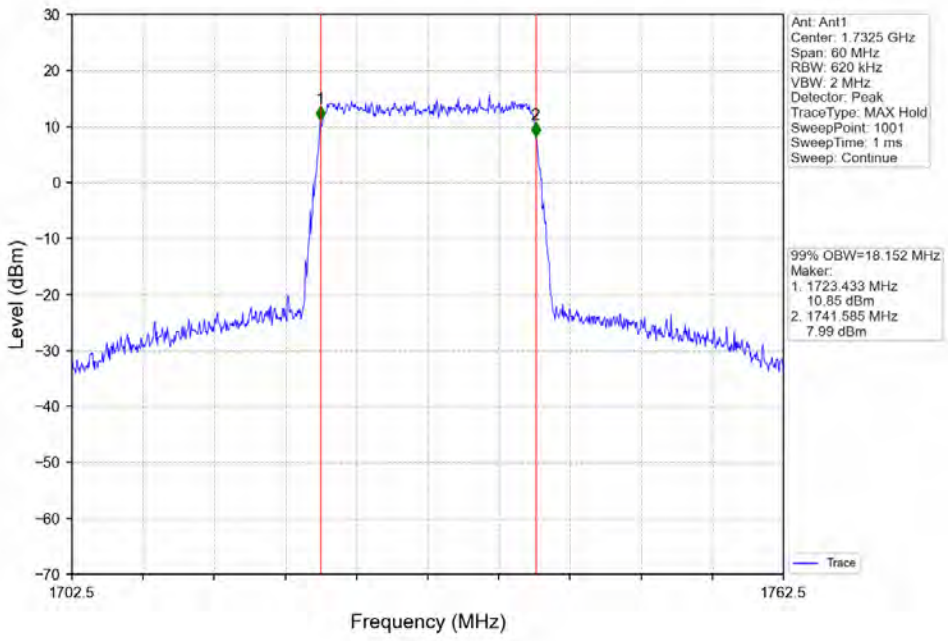
Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



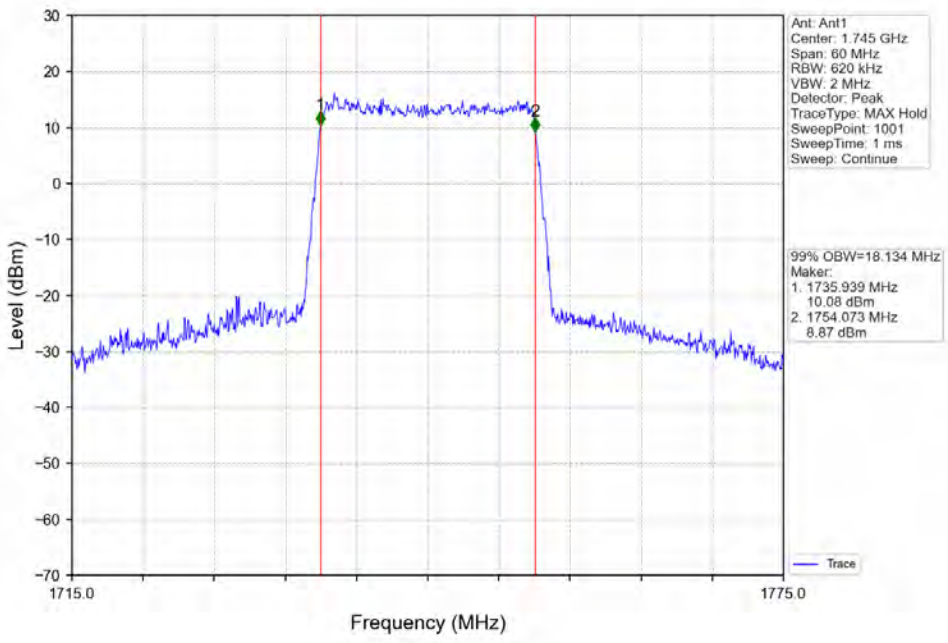

Band4_20MHz_64QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_64QAM_MCH_1732.5MHz_RB_100_0_NTNV




Band4_20MHz_64QAM_HCH_1745MHz_RB_100_0_NTNV

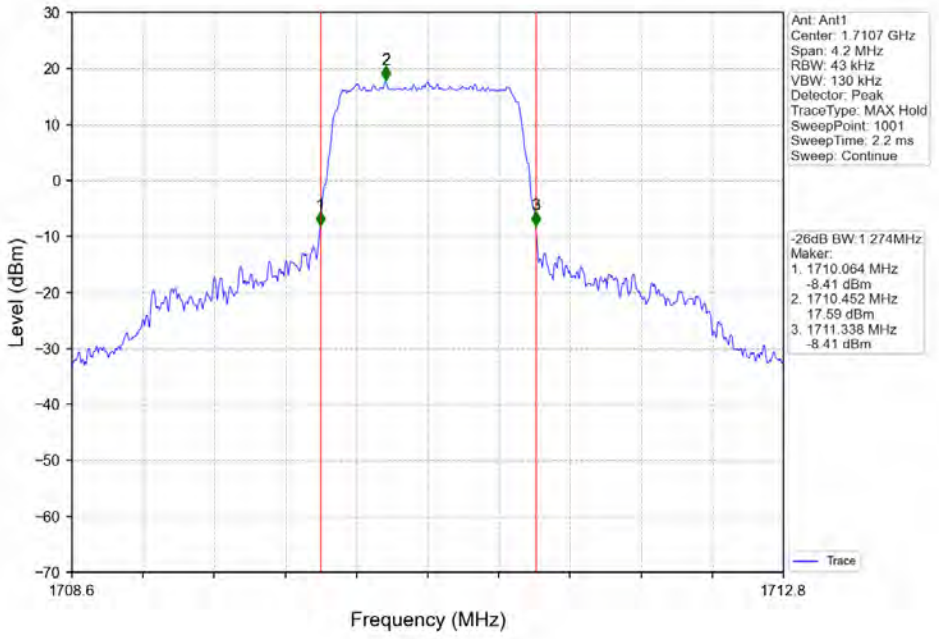


## 26DB_OBW TEST RESULT

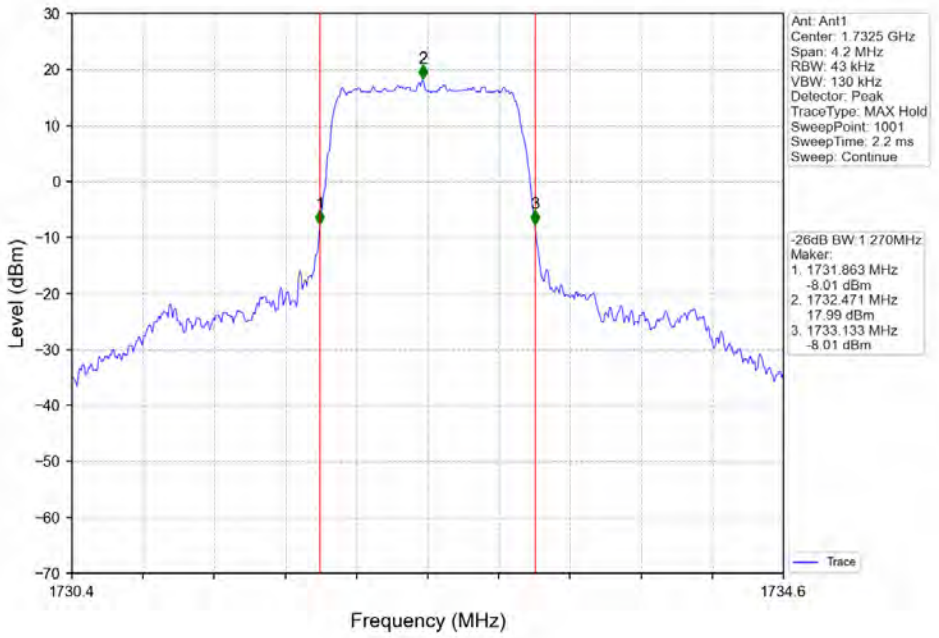
| Band: 4 / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | Verdict |
| | | | Size | Offset | Result | |
| 1.4 | QPSK | 1710.7 | 6 | 0 | 1.274 | Pass |
| | | 1732.5 | 6 | 0 | 1.270 | Pass |
| | | 1754.3 | 6 | 0 | 1.280 | Pass |
| | 16QAM | 1710.7 | 6 | 0 | 1.272 | Pass |
| | | 1732.5 | 6 | 0 | 1.263 | Pass |
| | | 1754.3 | 6 | 0 | 1.275 | Pass |
| | 64QAM | 1710.7 | 6 | 0 | 1.276 | Pass |
| | | 1732.5 | 6 | 0 | 1.272 | Pass |
| | | 1754.3 | 6 | 0 | 1.268 | Pass |
| 3 | QPSK | 1711.5 | 15 | 0 | 3.103 | Pass |
| | | 1732.5 | 15 | 0 | 3.123 | Pass |
| | | 1753.5 | 15 | 0 | 3.090 | Pass |
| | 16QAM | 1711.5 | 15 | 0 | 3.120 | Pass |
| | | 1732.5 | 15 | 0 | 3.085 | Pass |
| | | 1753.5 | 15 | 0 | 3.127 | Pass |
| | 64QAM | 1711.5 | 15 | 0 | 3.105 | Pass |
| | | 1732.5 | 15 | 0 | 3.095 | Pass |
| | | 1753.5 | 15 | 0 | 3.116 | Pass |
| 5 | QPSK | 1712.5 | 25 | 0 | 5.053 | Pass |
| | | 1732.5 | 25 | 0 | 5.068 | Pass |
| | | 1752.5 | 25 | 0 | 5.044 | Pass |
| | 16QAM | 1712.5 | 25 | 0 | 5.049 | Pass |
| | | 1732.5 | 25 | 0 | 5.059 | Pass |
| | | 1752.5 | 25 | 0 | 5.068 | Pass |
| | 64QAM | 1712.5 | 25 | 0 | 5.075 | Pass |
| | | 1732.5 | 25 | 0 | 5.084 | Pass |
| | | 1752.5 | 25 | 0 | 5.044 | Pass |
| 10 | QPSK | 1715 | 50 | 0 | 10.101 | Pass |
| | | 1732.5 | 50 | 0 | 10.086 | Pass |
| | | 1750 | 50 | 0 | 10.007 | Pass |
| | 16QAM | 1715 | 50 | 0 | 10.094 | Pass |
| | | 1732.5 | 50 | 0 | 10.048 | Pass |
| | | 1750 | 50 | 0 | 10.122 | Pass |
| | 64QAM | 1715 | 50 | 0 | 10.068 | Pass |
| | | 1732.5 | 50 | 0 | 9.990 | Pass |
| | | 1750 | 50 | 0 | 10.041 | Pass |
| 15 | QPSK | 1717.5 | 75 | 0 | 15.210 | Pass |
| | | 1732.5 | 75 | 0 | 15.012 | Pass |
| | | 1747.5 | 75 | 0 | 15.095 | Pass |
| | 16QAM | 1717.5 | 75 | 0 | 15.163 | Pass |
| | | 1732.5 | 75 | 0 | 15.203 | Pass |
| | | 1747.5 | 75 | 0 | 15.080 | Pass |
| | 64QAM | 1717.5 | 75 | 0 | 15.275 | Pass |
| | | 1732.5 | 75 | 0 | 15.023 | Pass |
| | | 1747.5 | 75 | 0 | 15.191 | Pass |
| 20 | QPSK | 1720 | 100 | 0 | 19.902 | Pass |
| | | 1732.5 | 100 | 0 | 19.999 | Pass |
| | | 1745 | 100 | 0 | 20.187 | Pass |
| | 16QAM | 1720 | 100 | 0 | 20.010 | Pass |
| | | 1732.5 | 100 | 0 | 20.120 | Pass |
| | | 1745 | 100 | 0 | 19.928 | Pass |
| | 64QAM | 1720 | 100 | 0 | 20.014 | Pass |
| | | 1732.5 | 100 | 0 | 20.023 | Pass |
| | | 1745 | 100 | 0 | 19.855 | Pass |

## TEST GRAPH

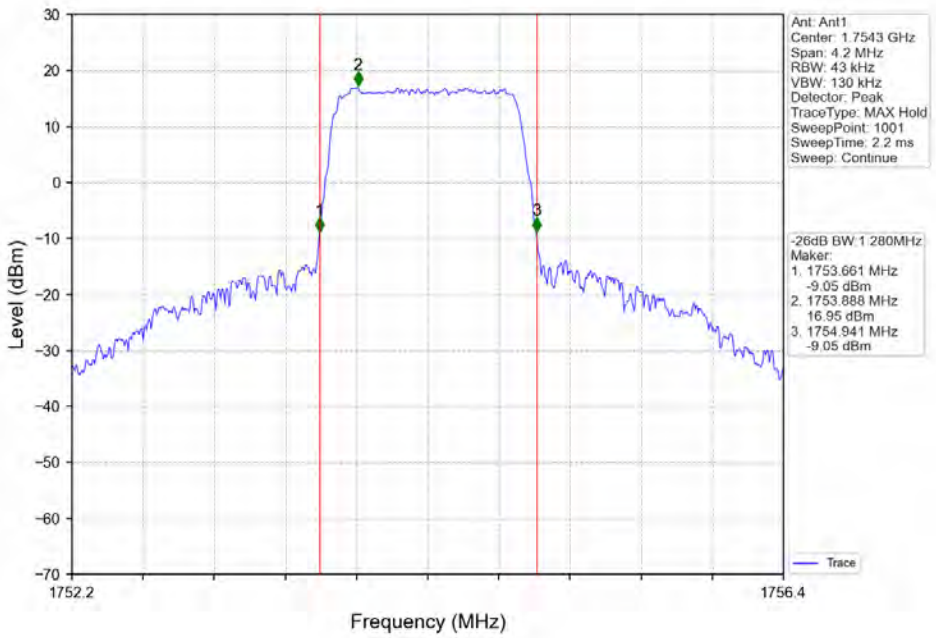
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



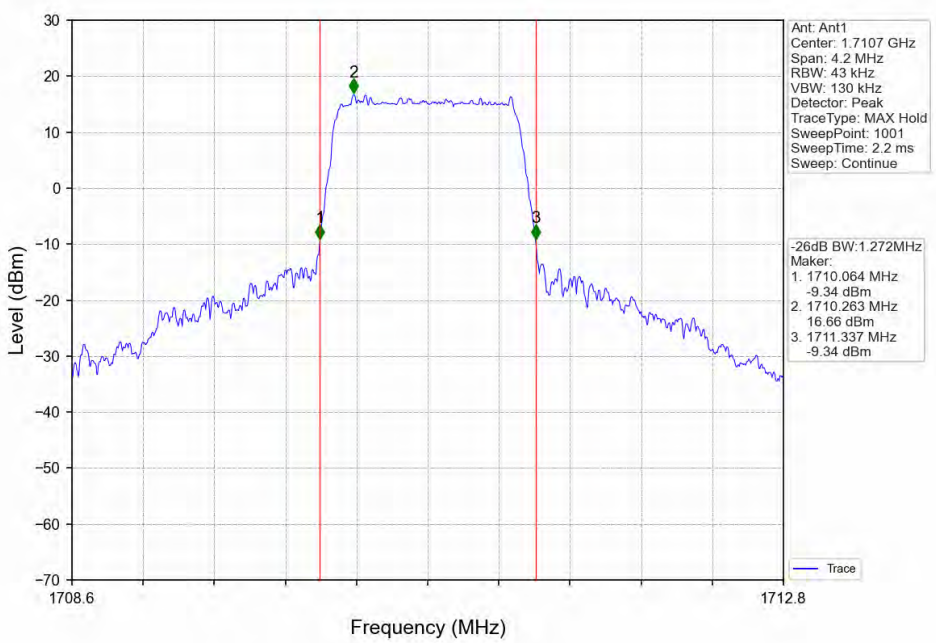

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



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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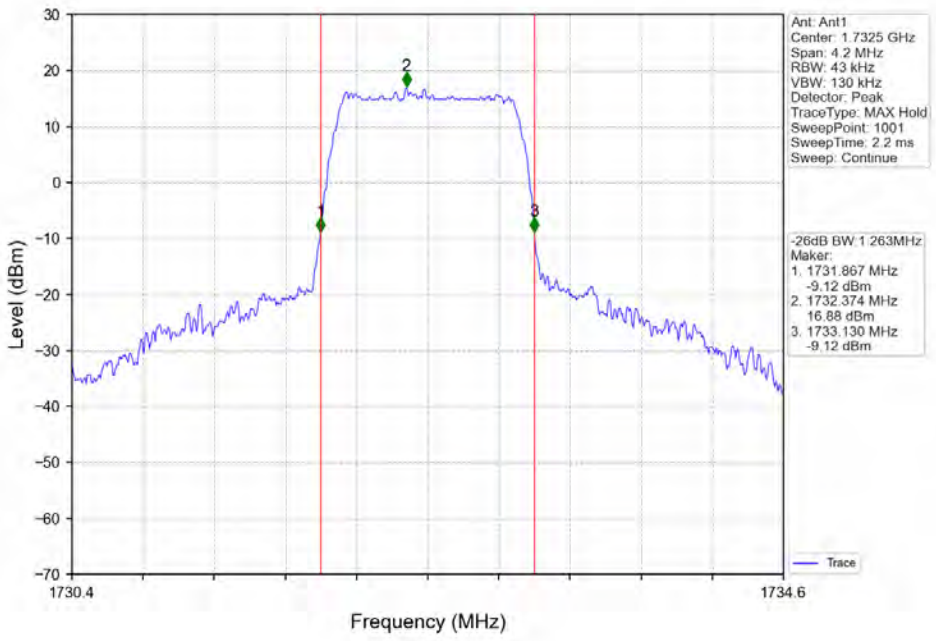


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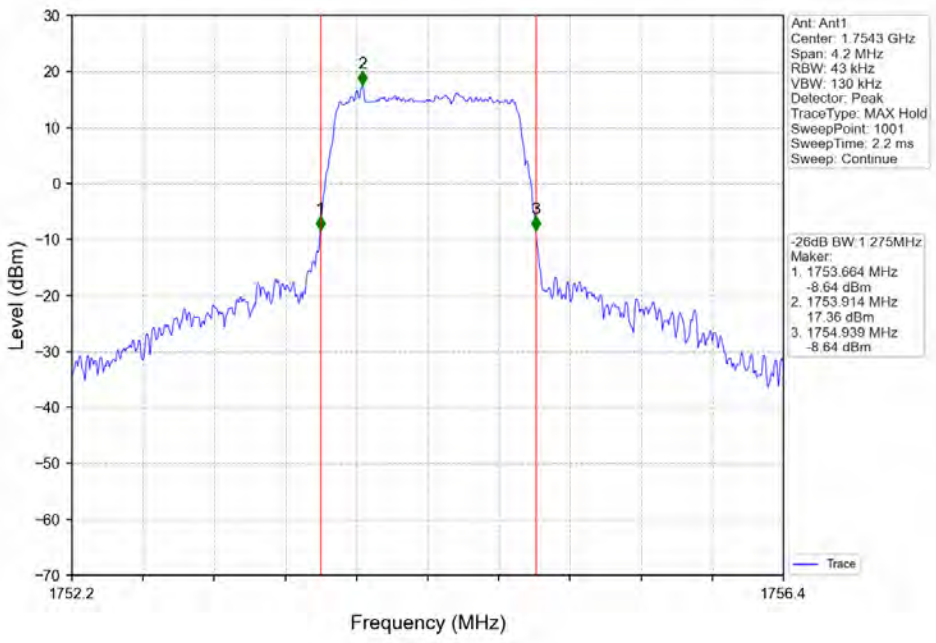

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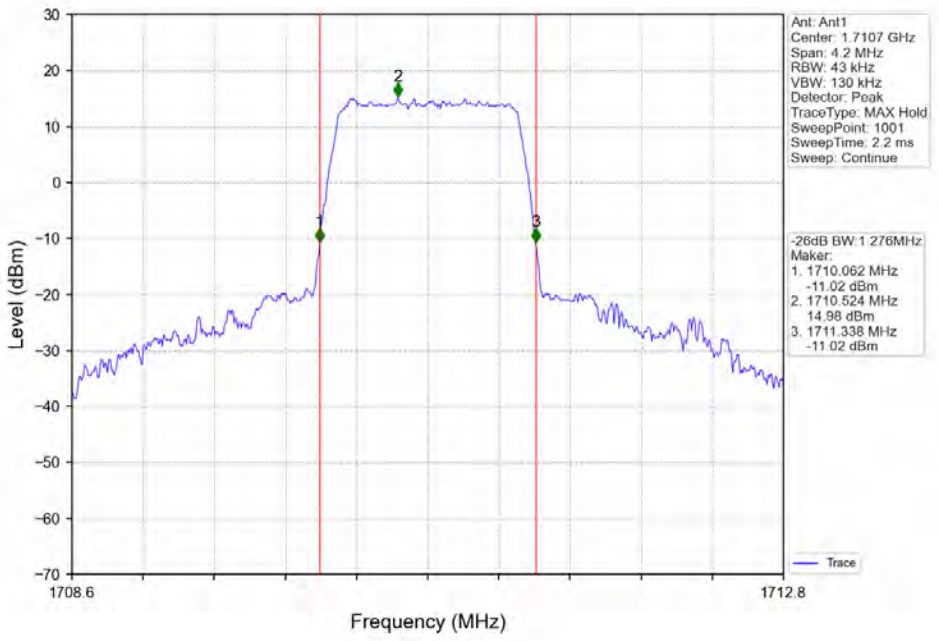
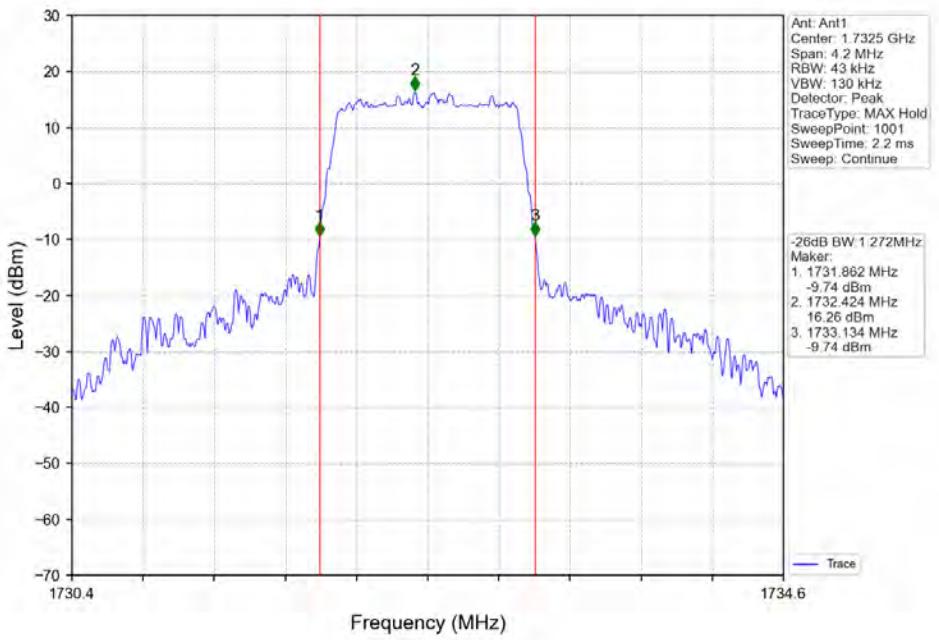
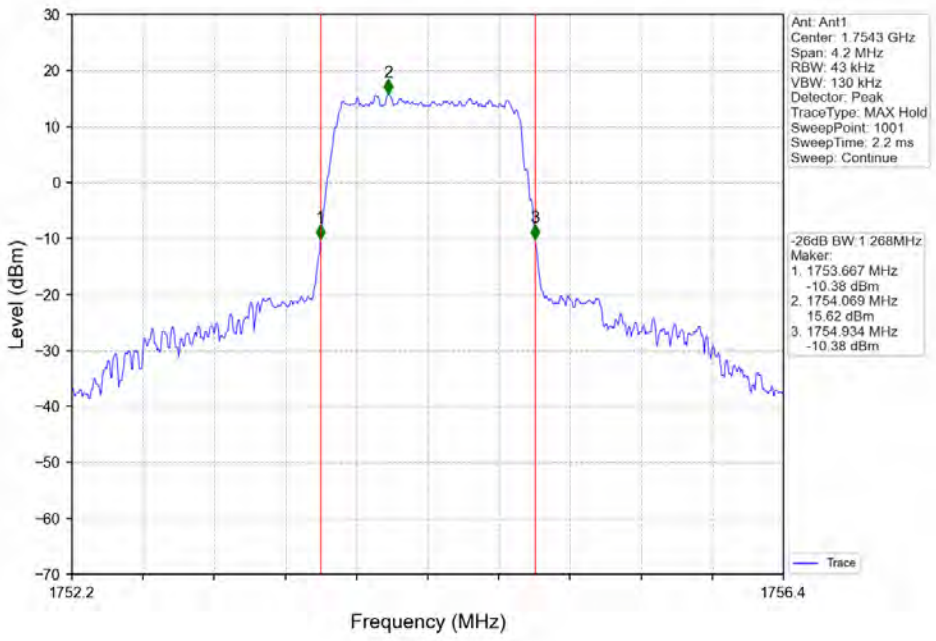


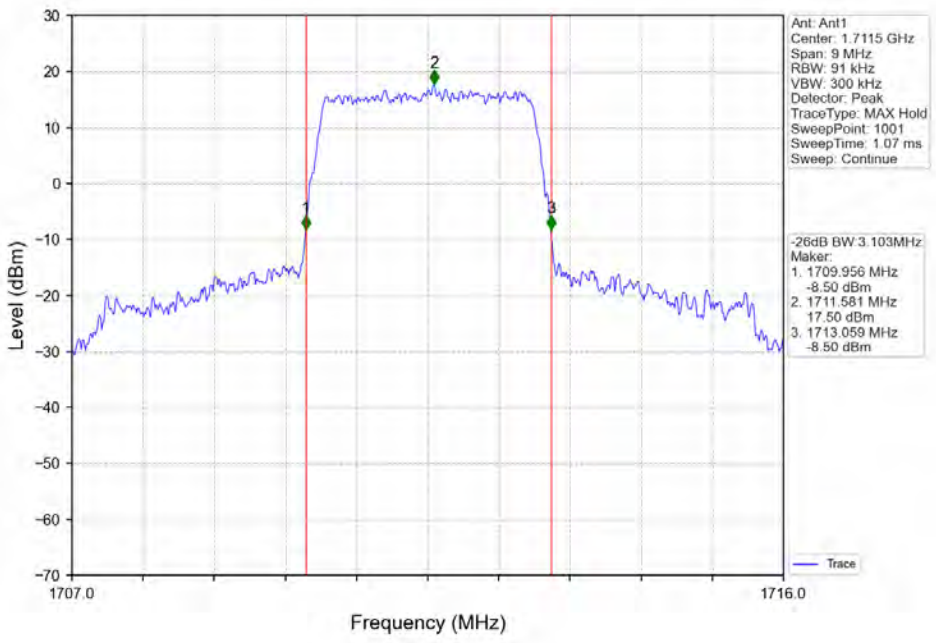

Band4_1.4MHz_64QAM_MCH_1732.5MHz_RB_6_0_NTNV



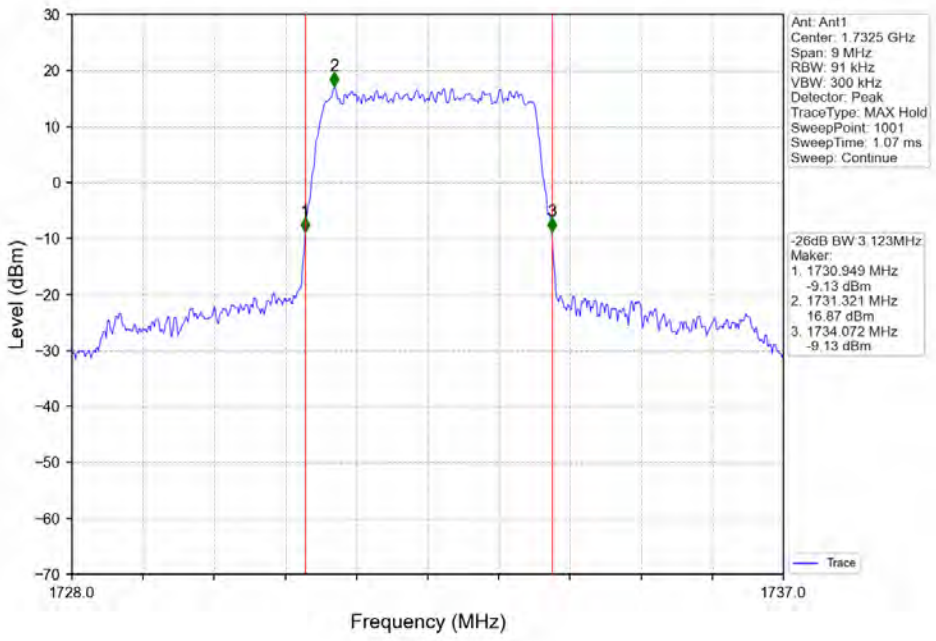
Band4_1.4MHz_64QAM_HCH_1754.3MHz_RB_6_0_NTNV



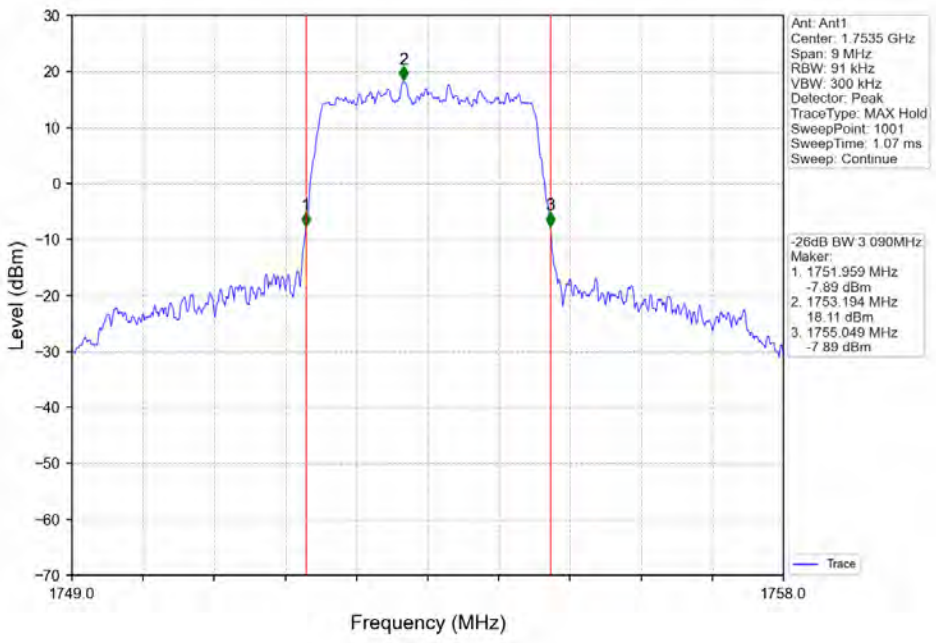

Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



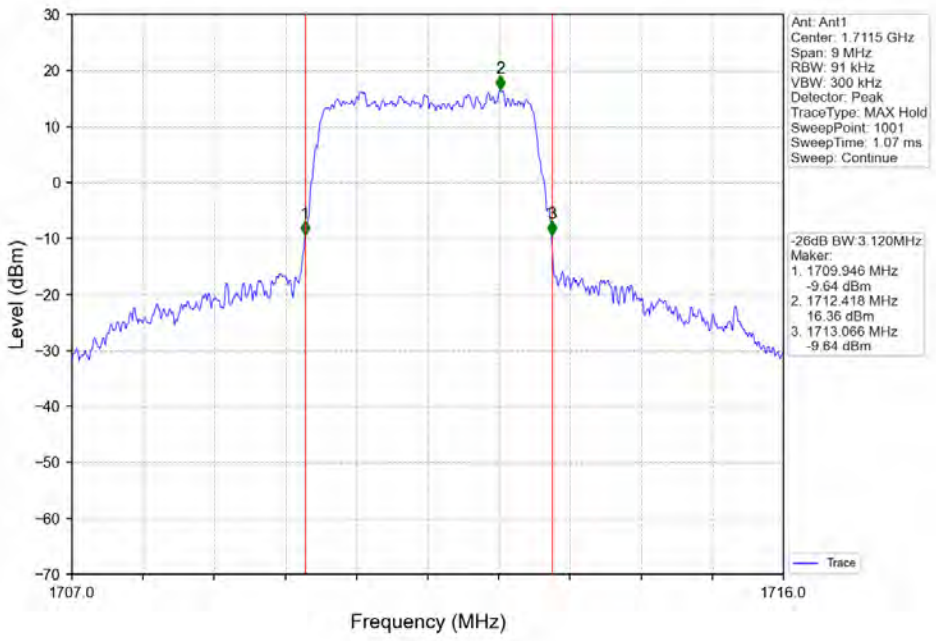
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



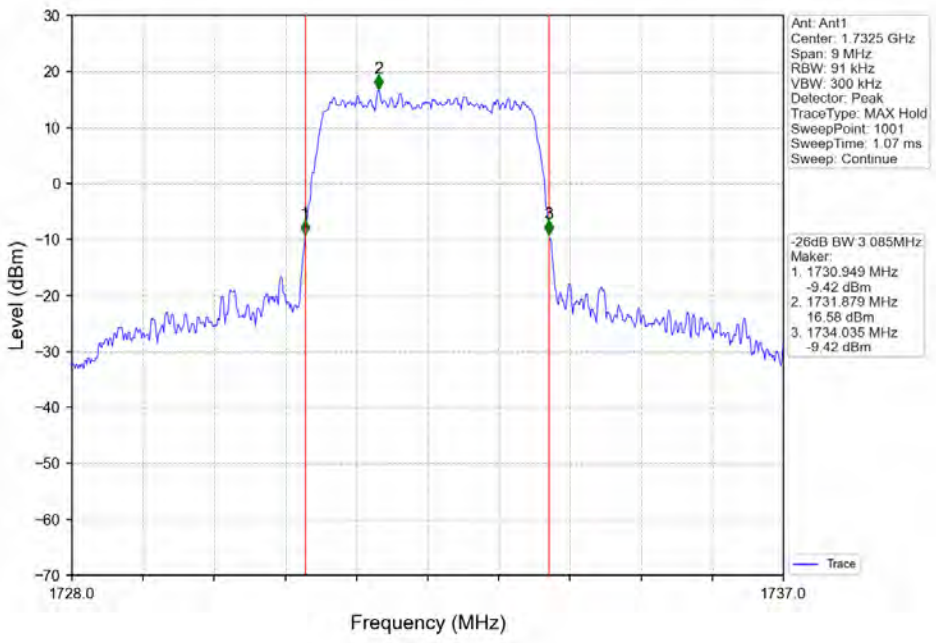

Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



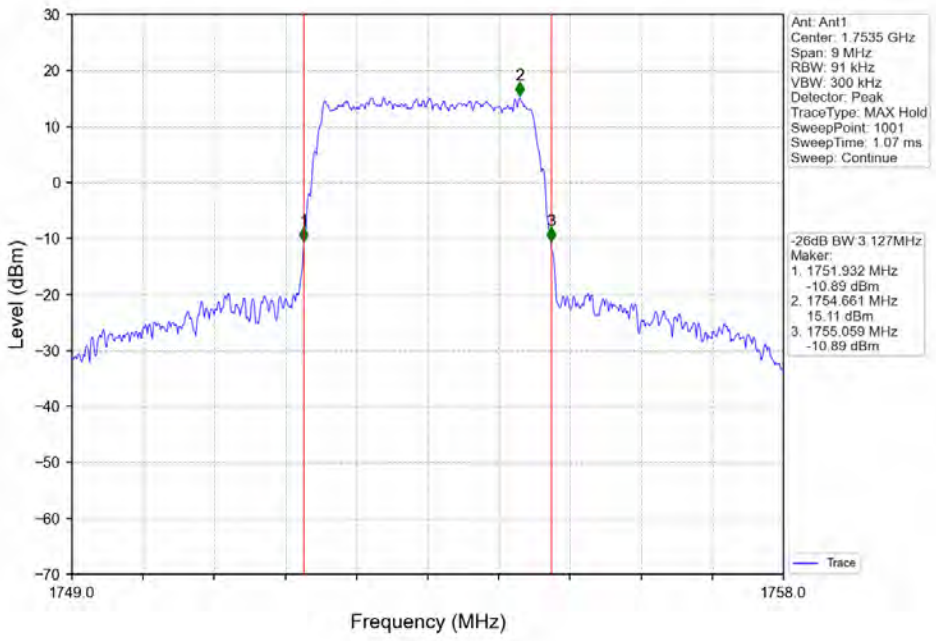
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



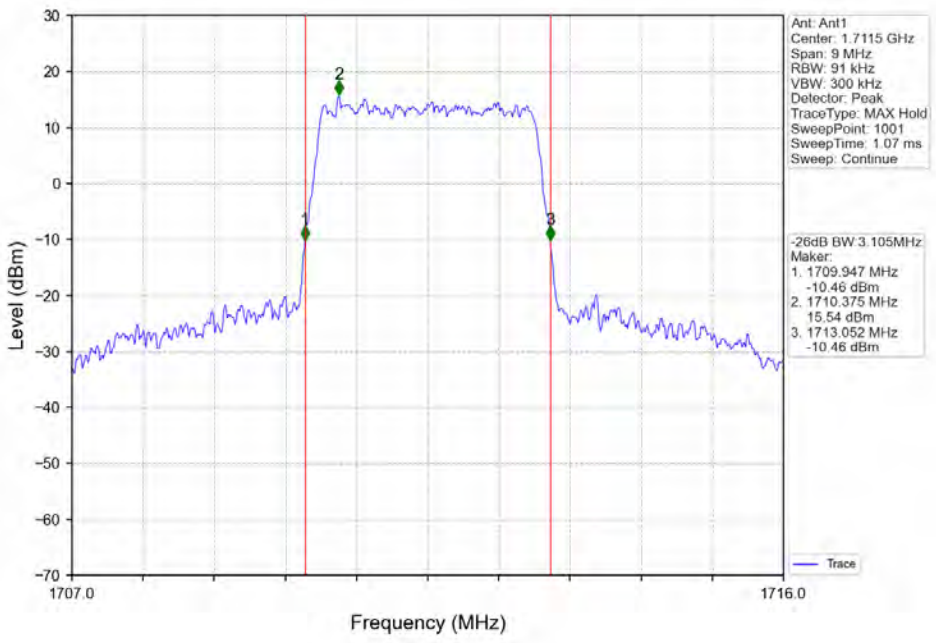

Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



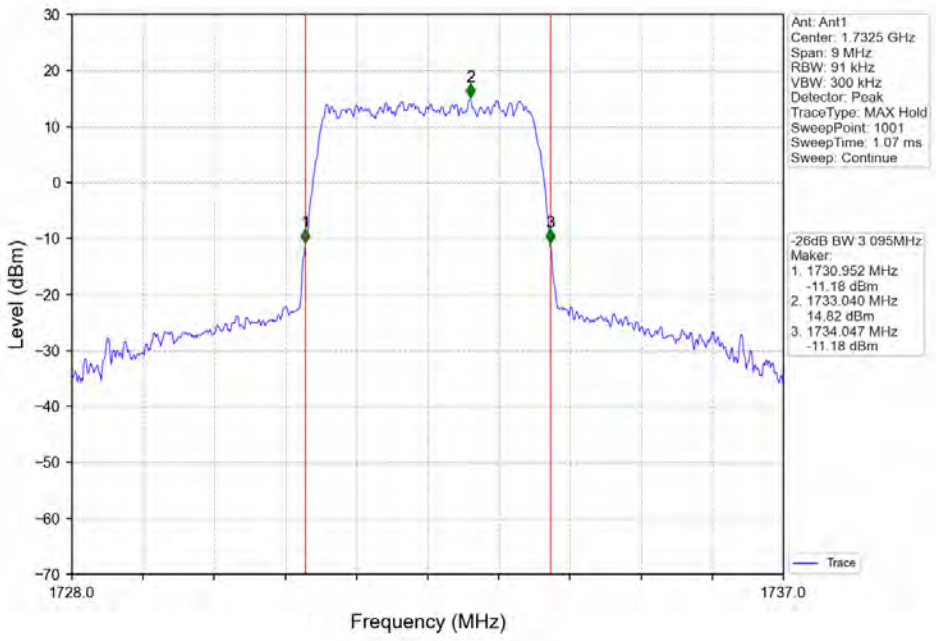
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



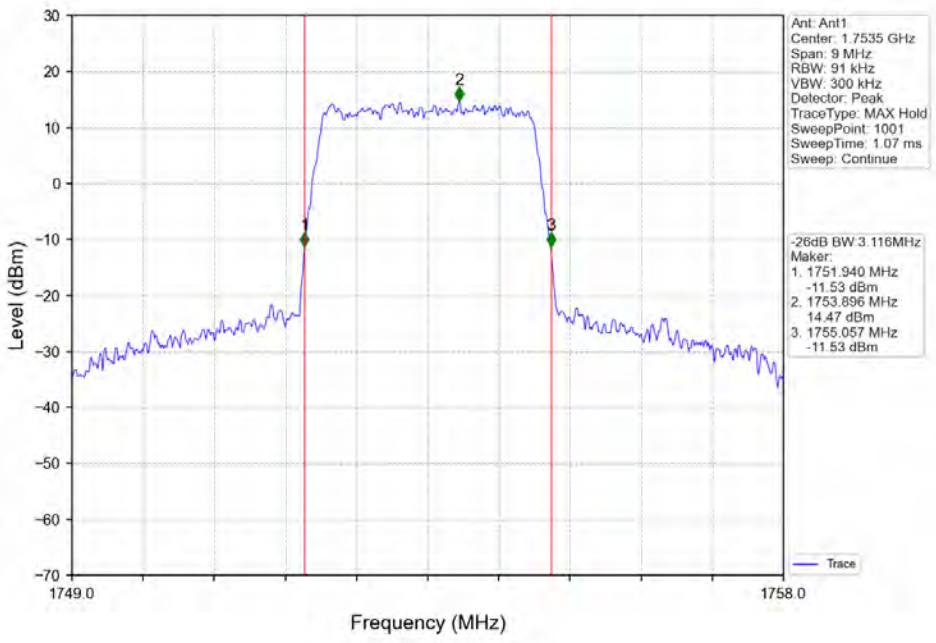

Band4_3MHz_64QAM_LCH_1711.5MHz_RB_15_0_NTNV



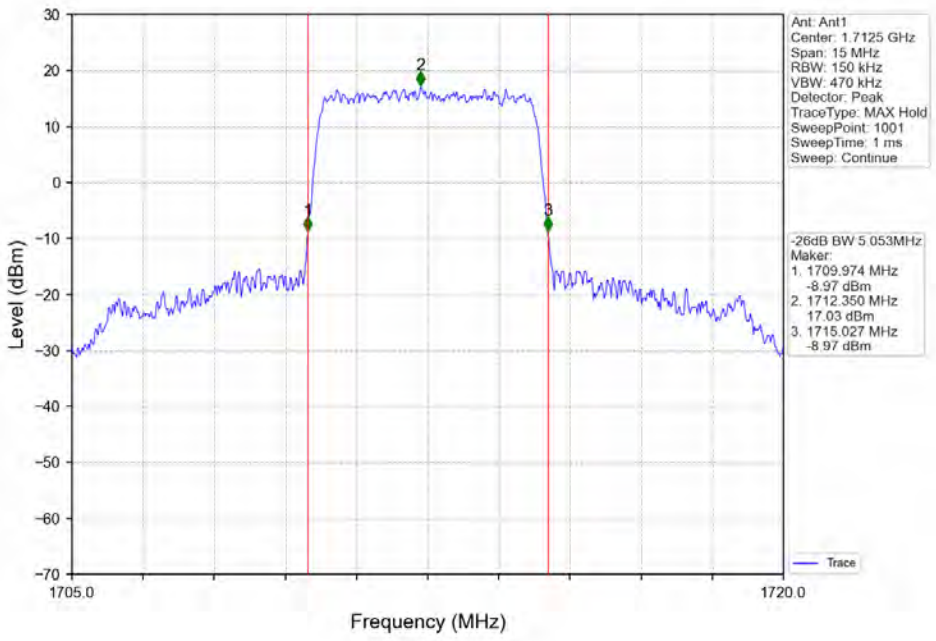
Band4_3MHz_64QAM_MCH_1732.5MHz_RB_15_0_NTNV




Band4_3MHz_64QAM_HCH_1753.5MHz_RB_15_0_NTNV



Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV

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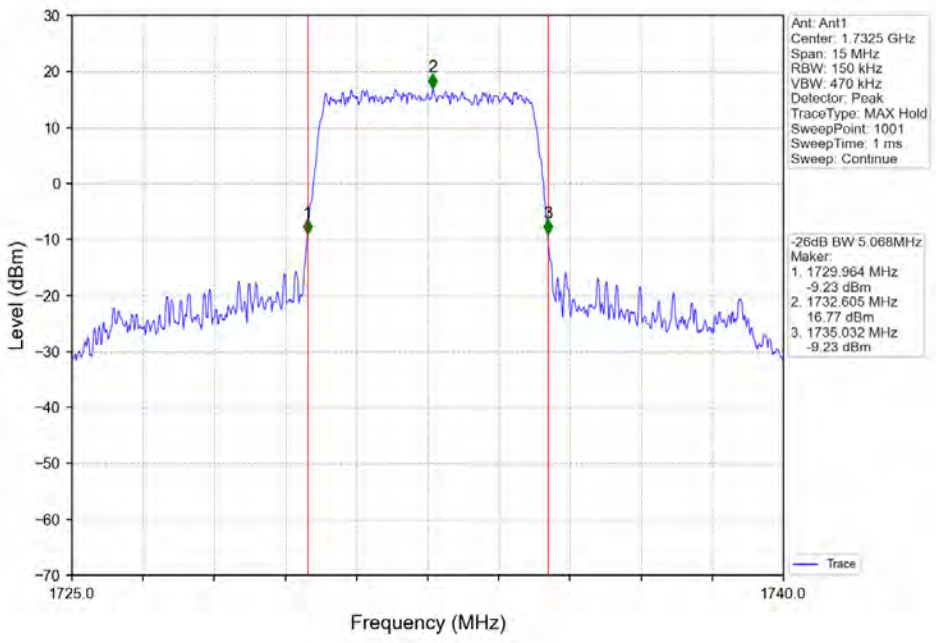

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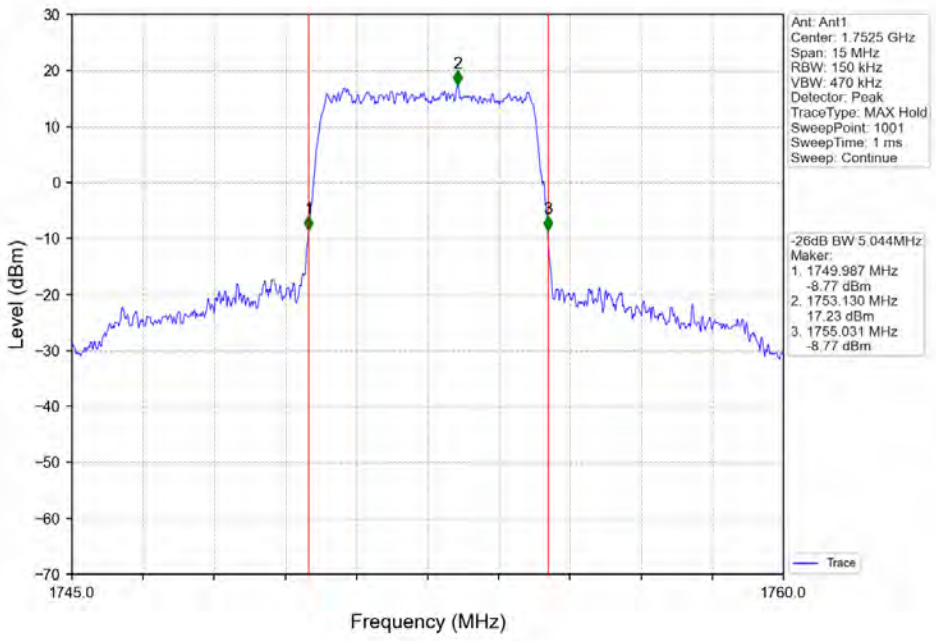
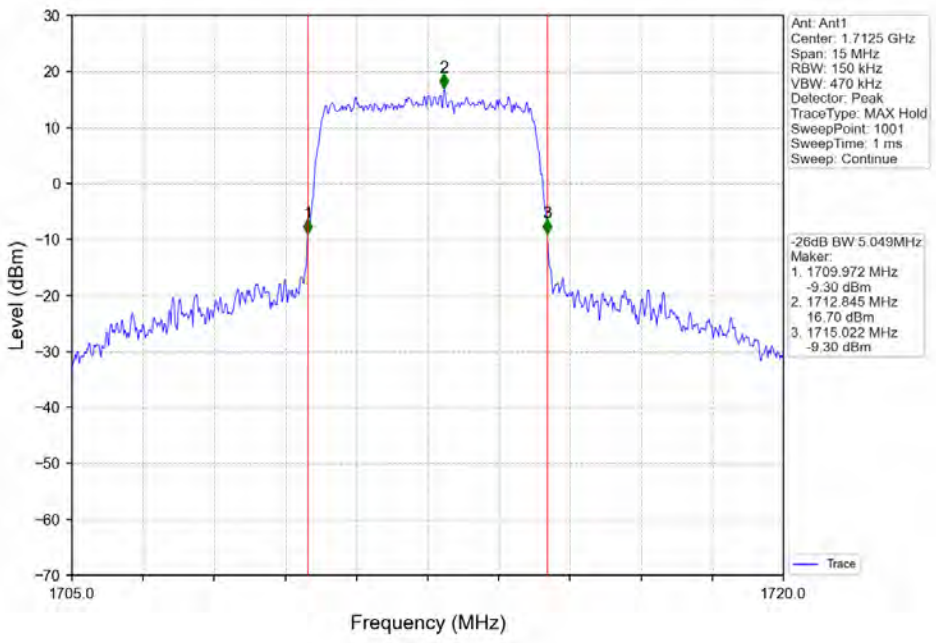
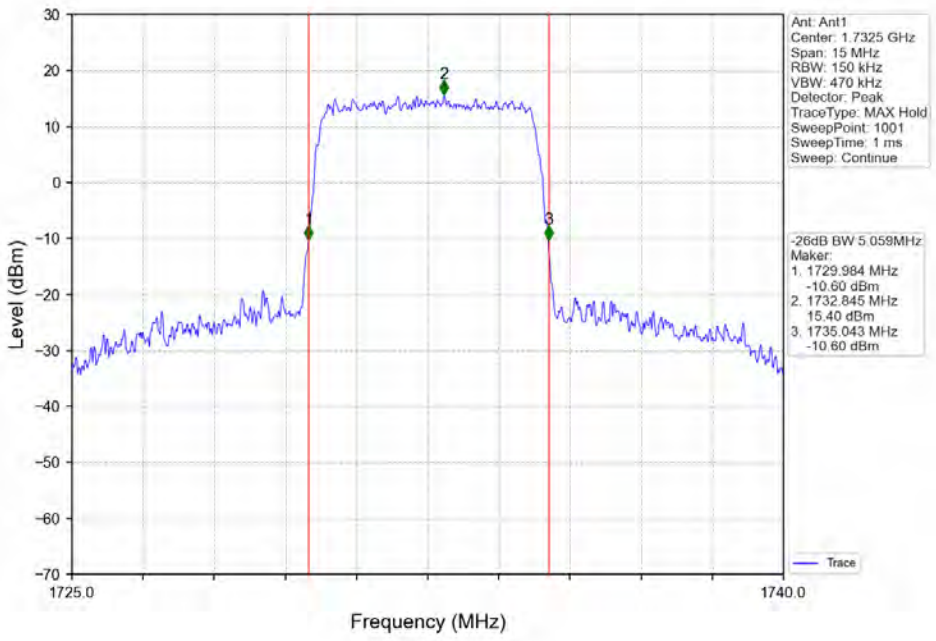


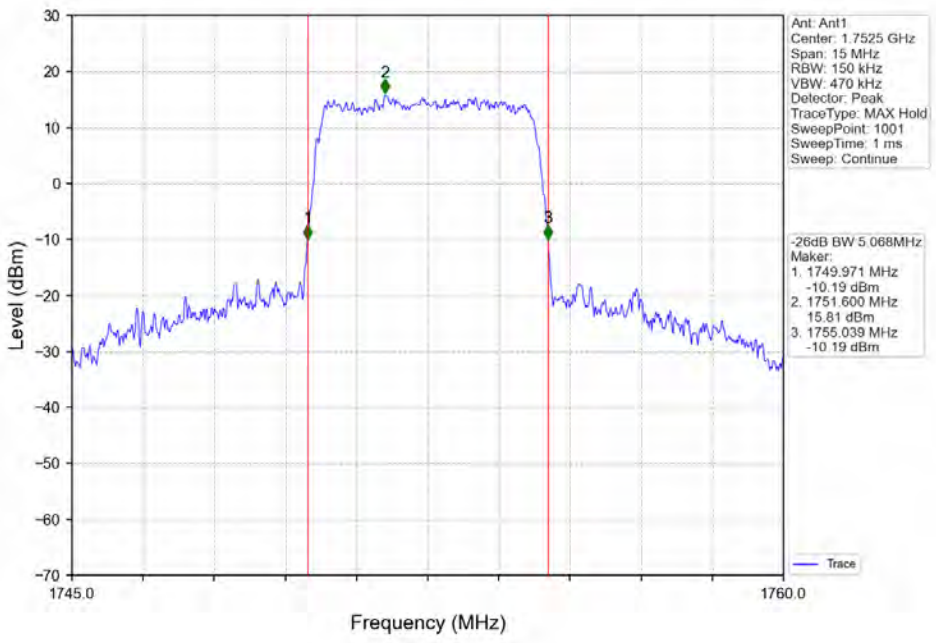

Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



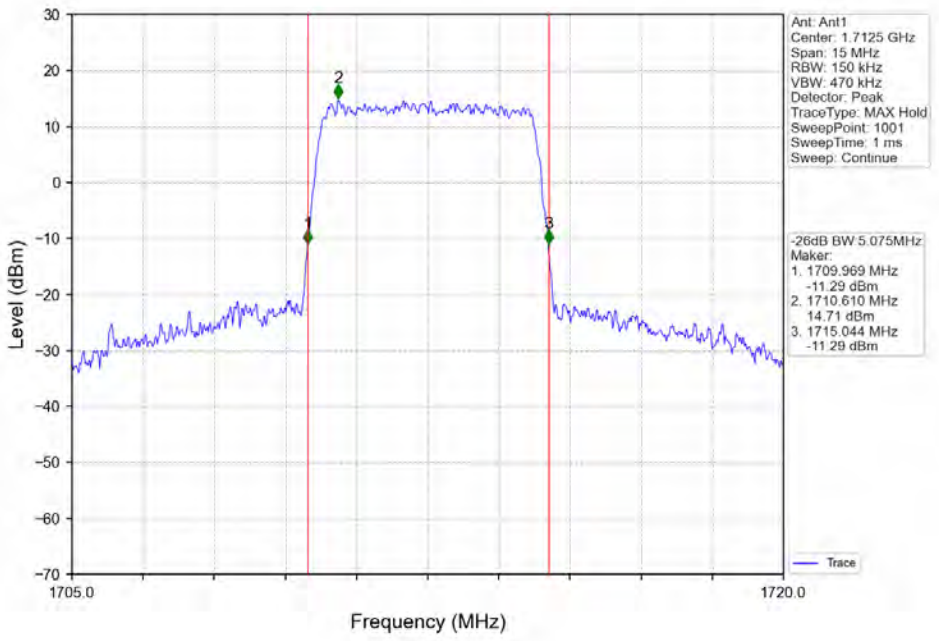
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



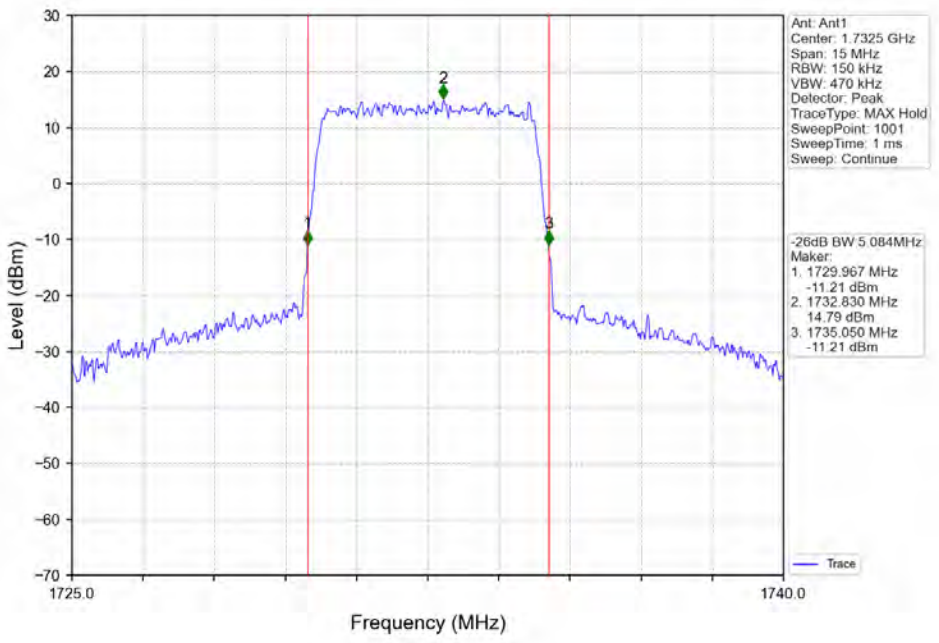

Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



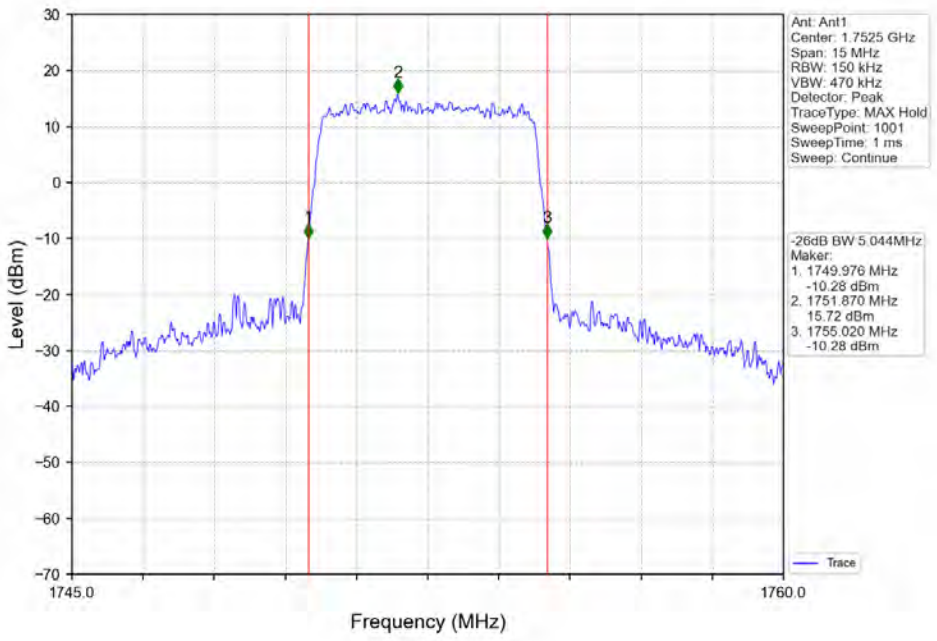
Band4_5MHz_64QAM_LCH_1712.5MHz_RB_25_0_NTNV

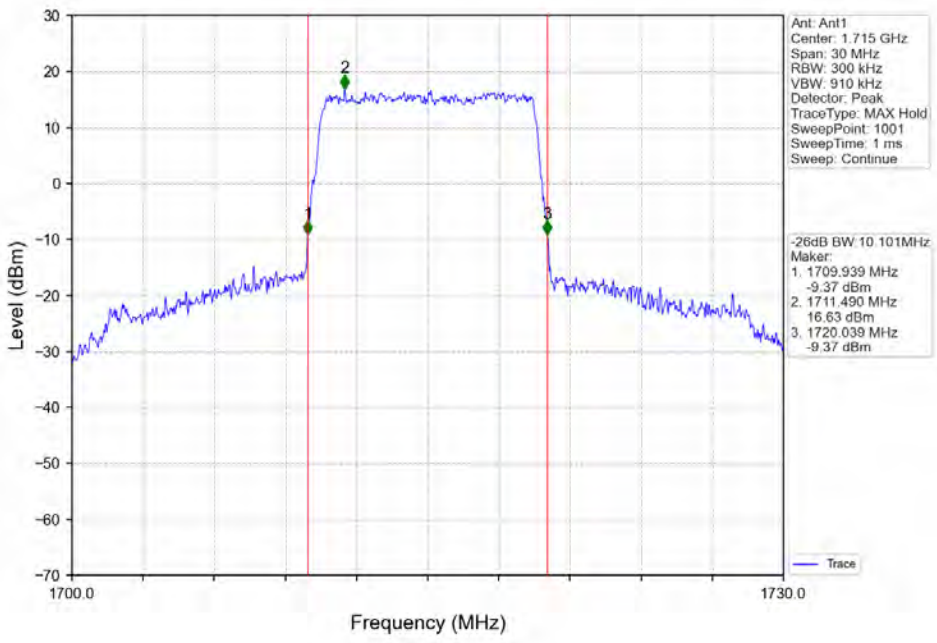



Band4_5MHz_64QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_64QAM_HCH_1752.5MHz_RB_25_0_NTNV

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