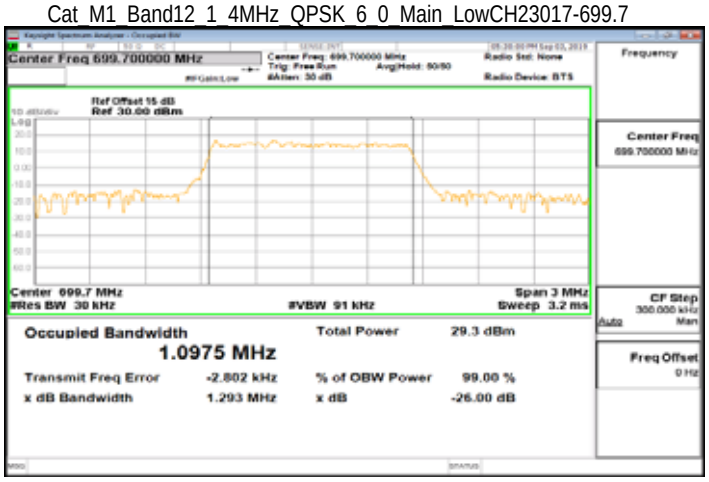
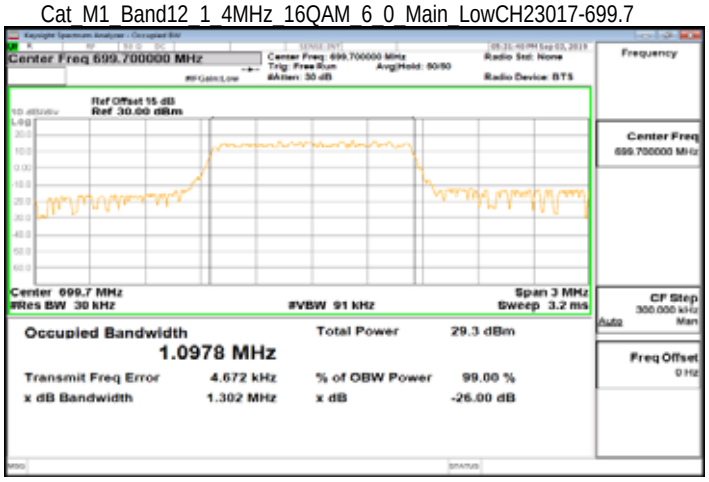
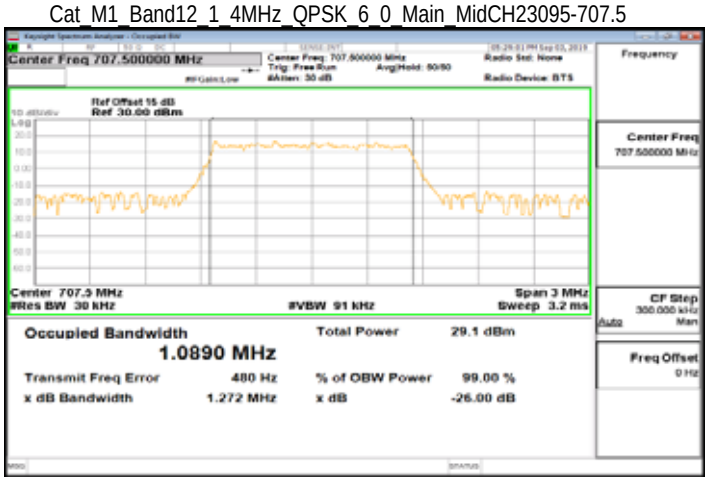
Cat_M1_Band12_1_4MHz_QPSK_6_0_Main_LowCH23017-699.7



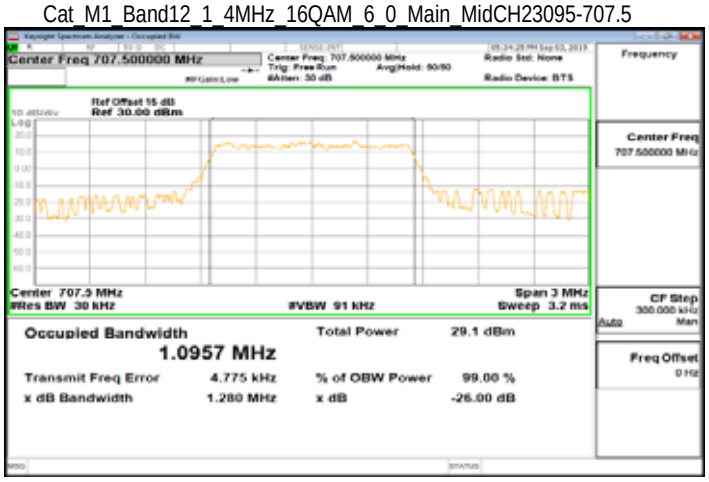

Cat_M1_Band12_1_4MHz_16QAM_6_0_Main_LowCH23017-699.7



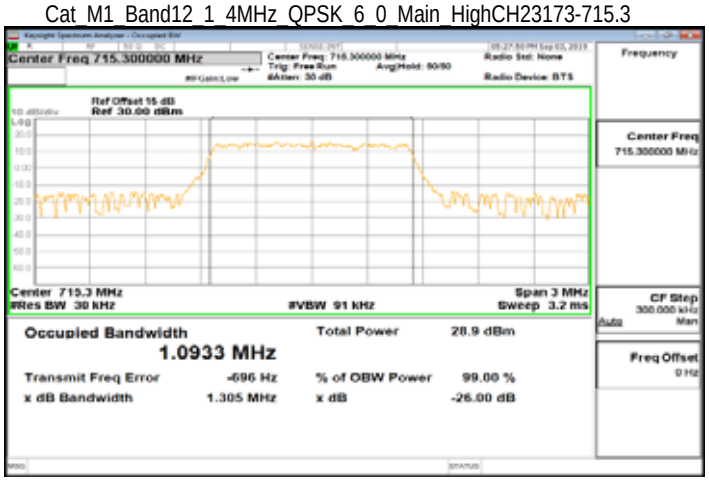

Cat_M1_Band12_1_4MHz_QPSK_6_0_Main_MidCH23095-707.5



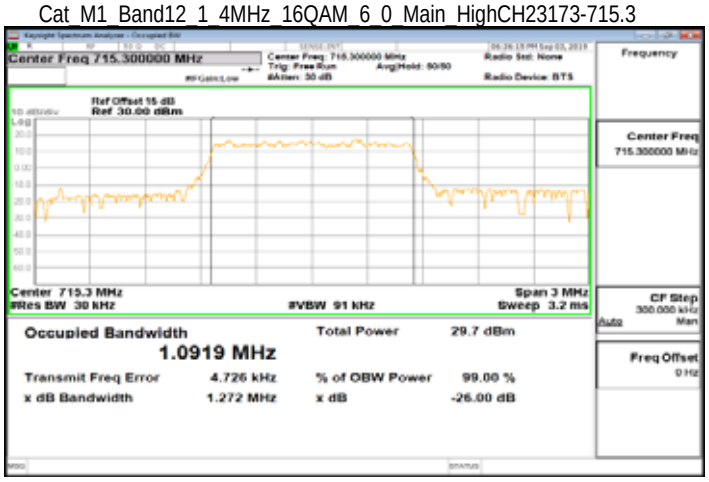

Cat_M1_Band12_1_4MHz_16QAM_6_0_Main_MidCH23095-707.5




Cat_M1_Band12_1_4MHz_QPSK_6_0_Main_HighCH23173-715.3




Cat_M1_Band12_1_4MHz_16QAM_6_0_Main_HighCH23173-715.3

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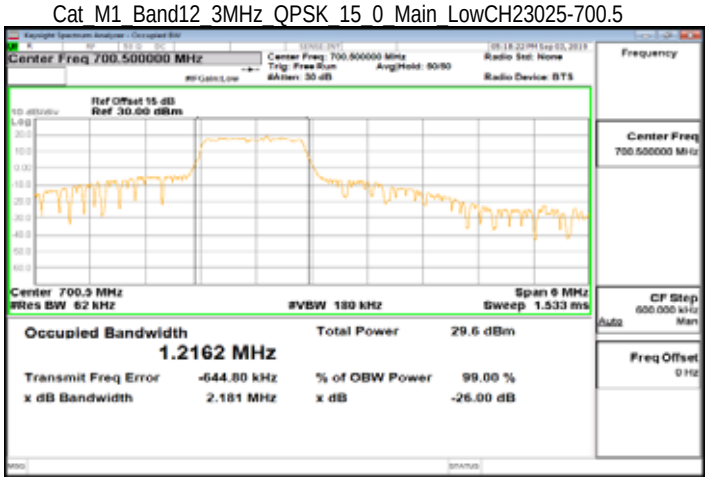
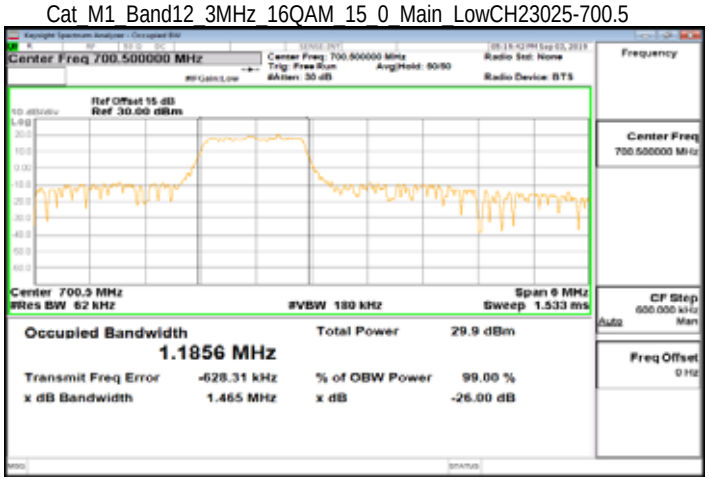
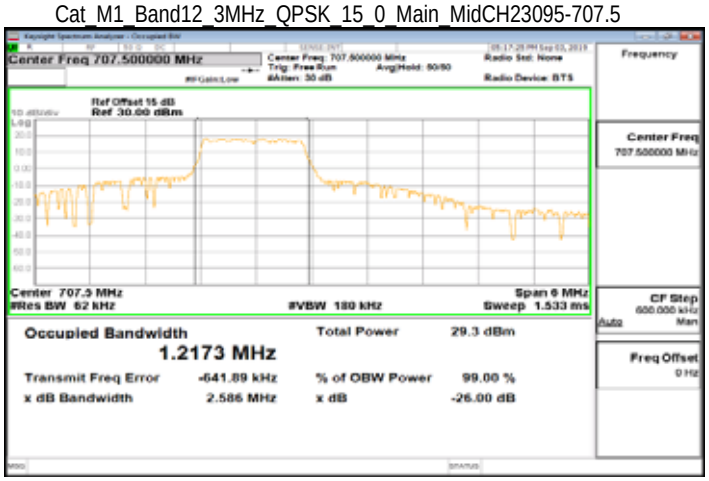
Cat_M1_Band12_3MHz_QPSK_15_0_Main_LowCH23025-700.5



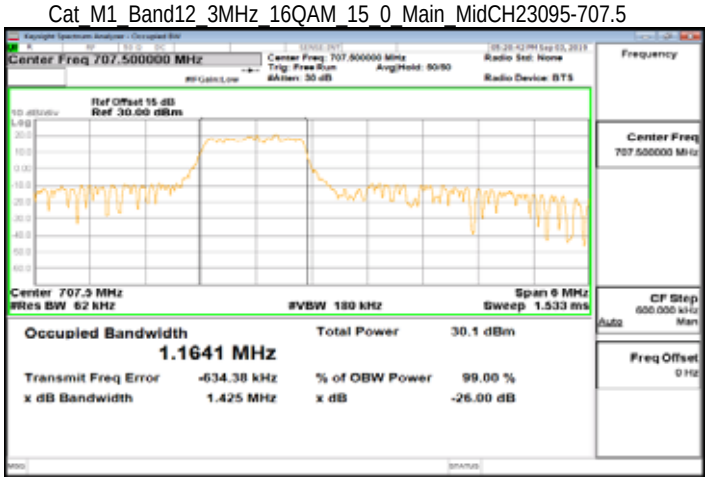

Cat_M1_Band12_3MHz_16QAM_15_0_Main_LowCH23025-700.5



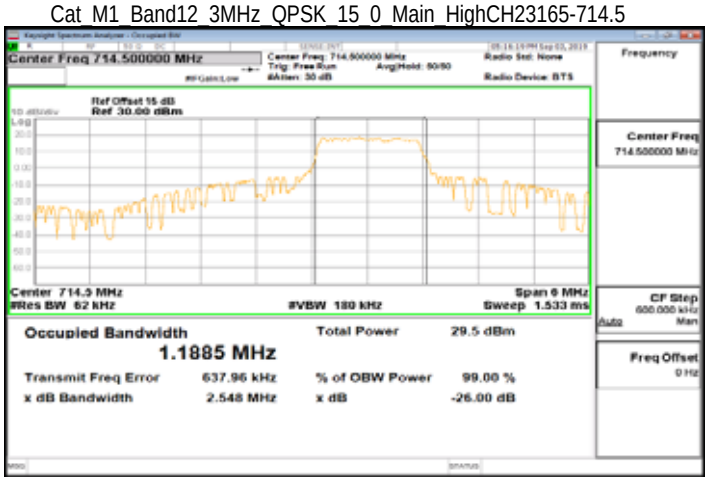

Cat_M1_Band12_3MHz_QPSK_15_0_Main_MidCH23095-707.5



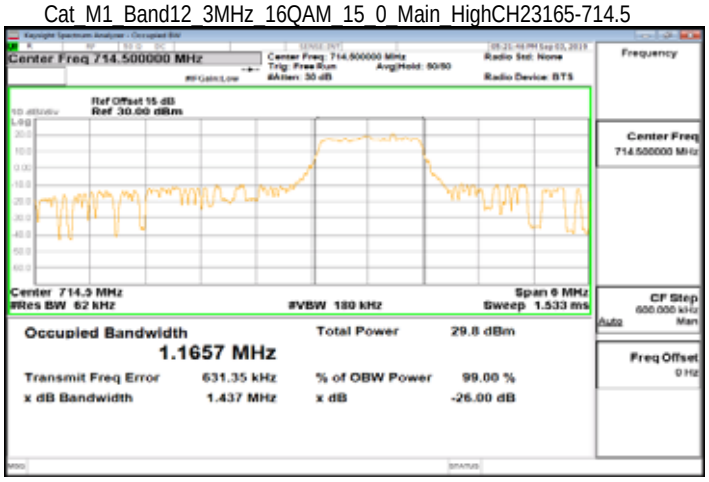

Cat_M1_Band12_3MHz_16QAM_15_0_Main_MidCH23095-707.5




Cat_M1_Band12_3MHz_QPSK_15_0_Main_HighCH23165-714.5




Cat_M1_Band12_3MHz_16QAM_15_0_Main_HighCH23165-714.5

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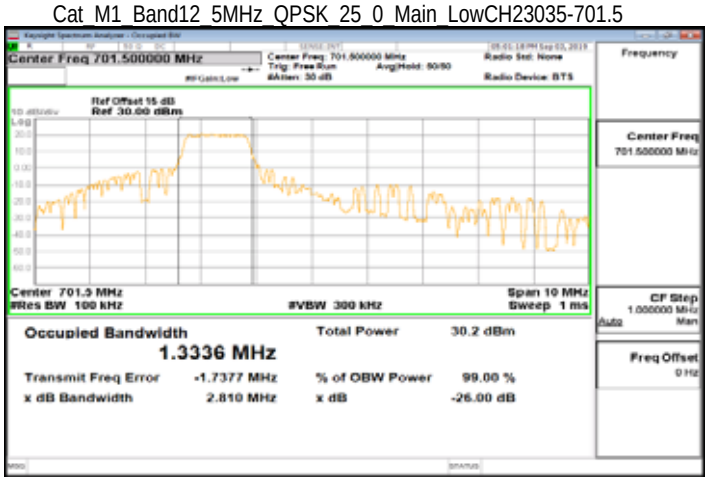
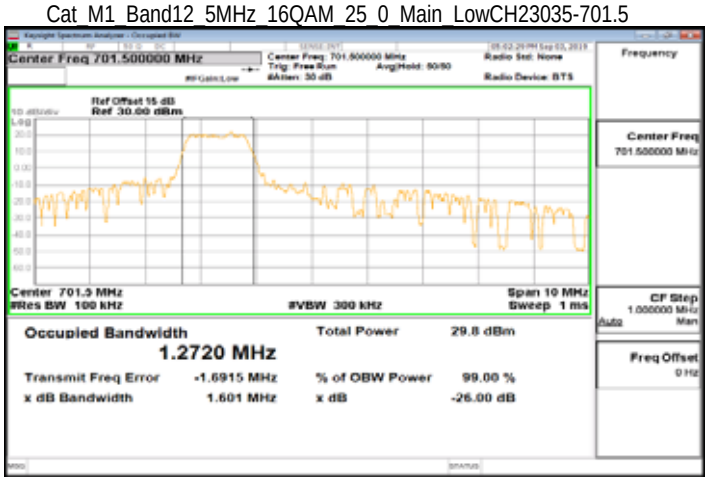
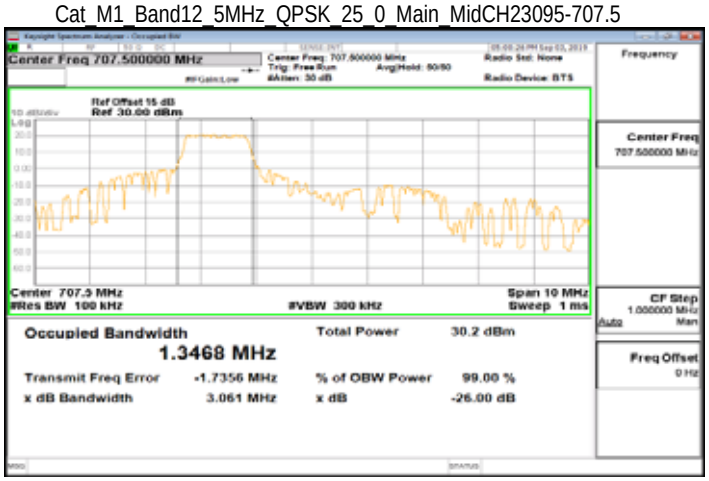
Cat_M1_Band12_5MHz_QPSK_25_0_Main_LowCH23035-701.5



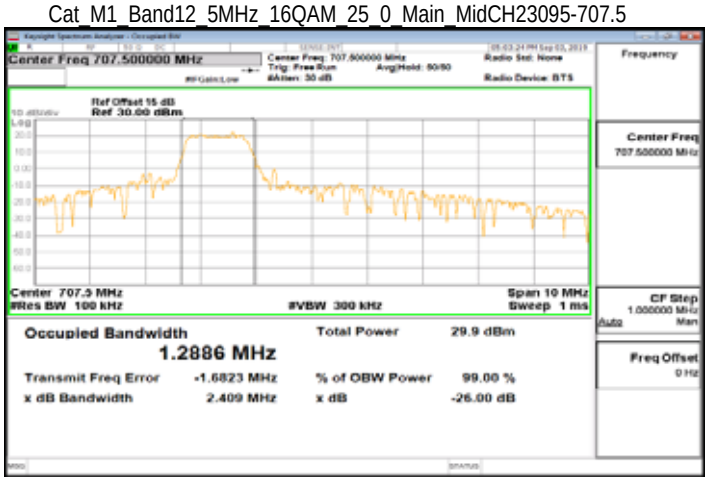

Cat_M1_Band12_5MHz_16QAM_25_0_Main_LowCH23035-701.5



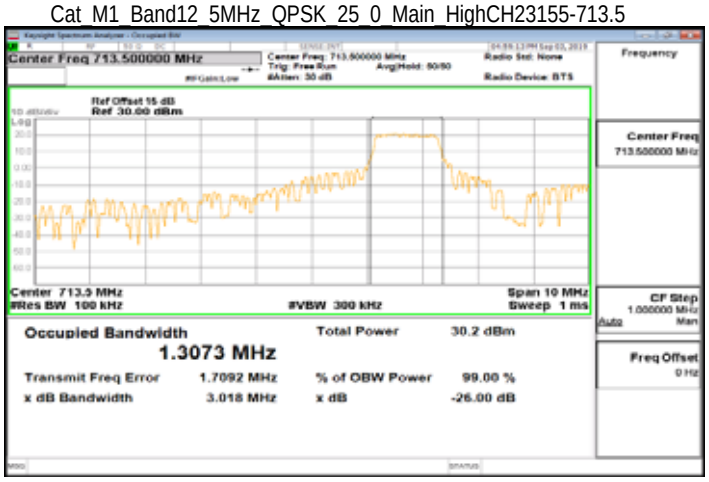

Cat_M1_Band12_5MHz_QPSK_25_0_Main_MidCH23095-707.5



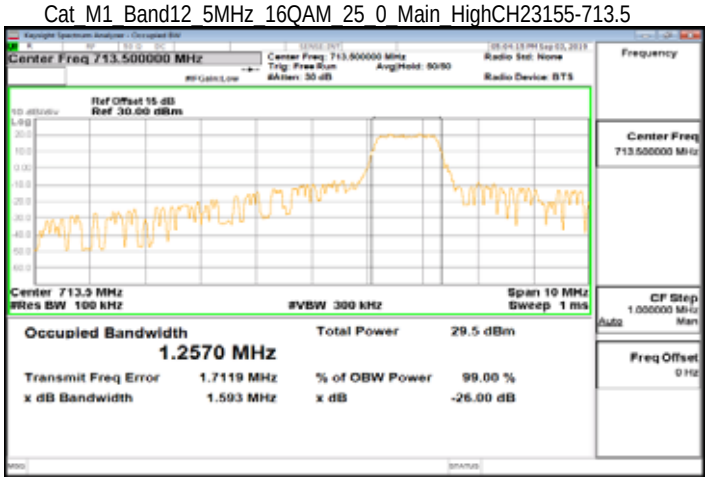

Cat_M1_Band12_5MHz_16QAM_25_0_Main_MidCH23095-707.5




Cat_M1_Band12_5MHz_QPSK_25_0_Main_HighCH23155-713.5




Cat_M1_Band12_5MHz_16QAM_25_0_Main_HighCH23155-713.5

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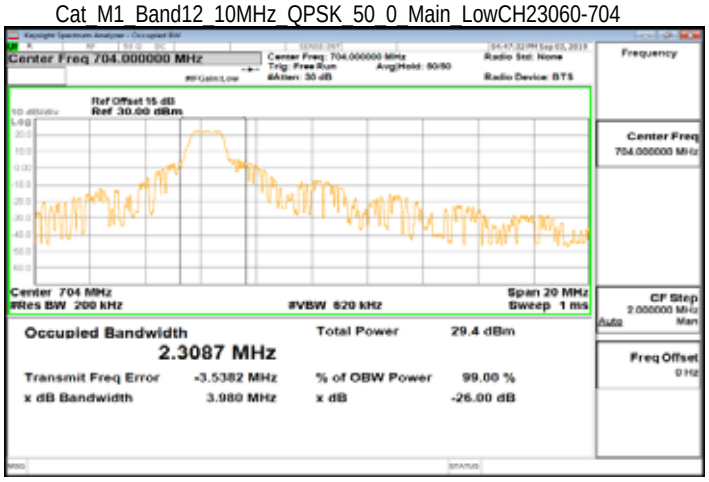
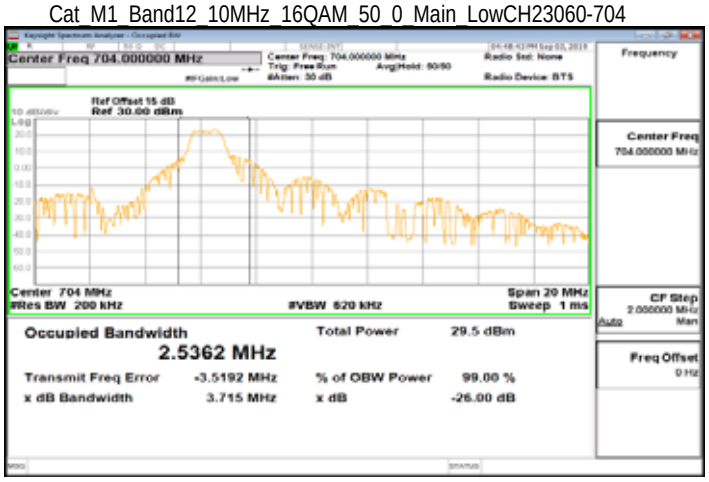
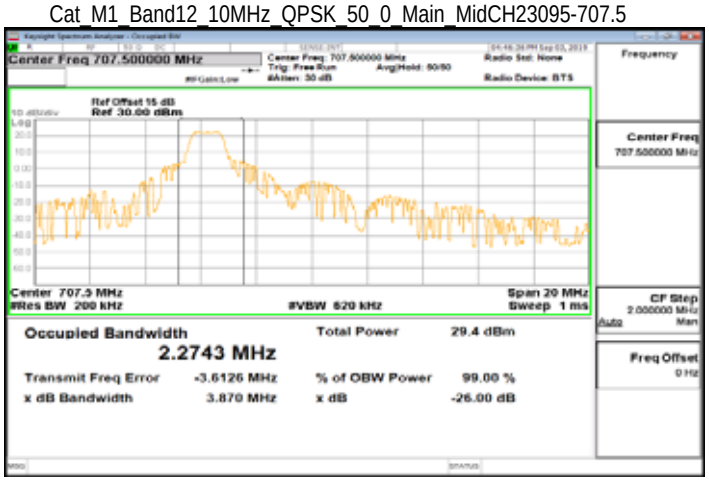
Cat_M1_Band12_10MHz_QPSK_50_0_Main_LowCH23060-704



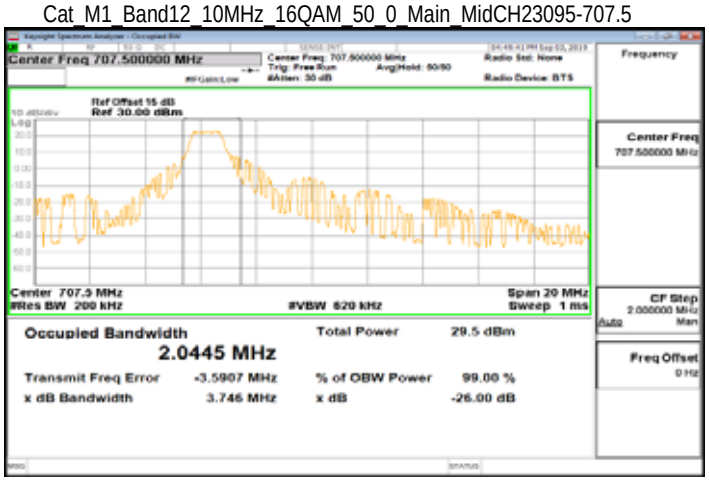

Cat_M1_Band12_10MHz_16QAM_50_0_Main_LowCH23060-704



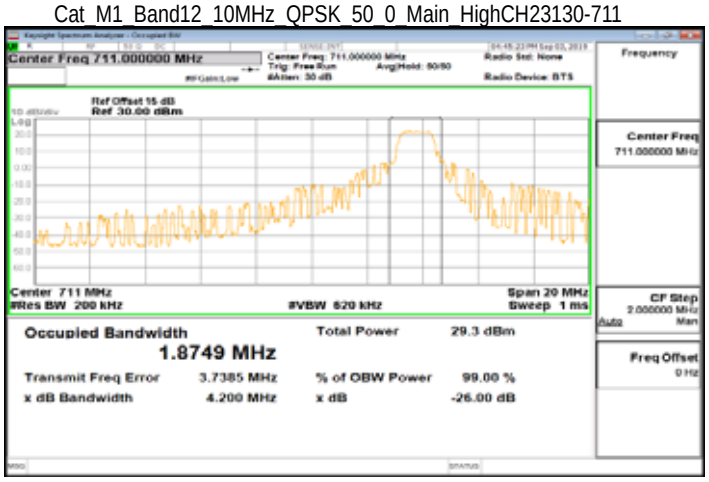

Cat_M1_Band12_10MHz_QPSK_50_0_Main_MidCH23095-707.5



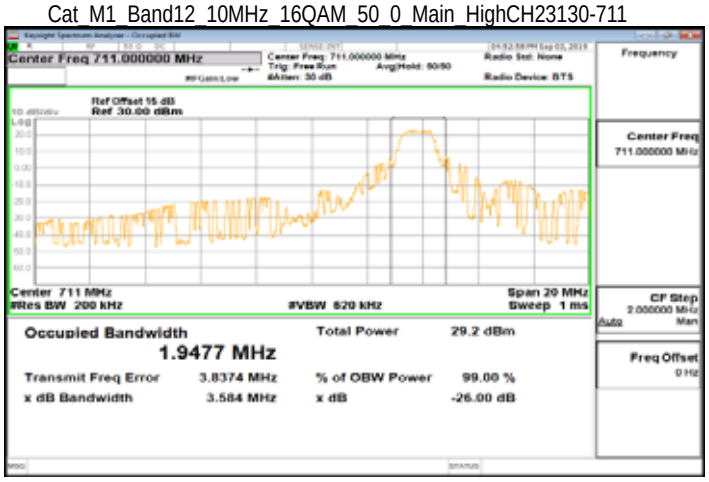

Cat_M1_Band12_10MHz_16QAM_50_0_Main_MidCH23095-707.5




Cat_M1_Band12_10MHz_QPSK_50_0_Main_HighCH23130-711




Cat_M1_Band12_10MHz_16QAM_50_0_Main_HighCH23130-711

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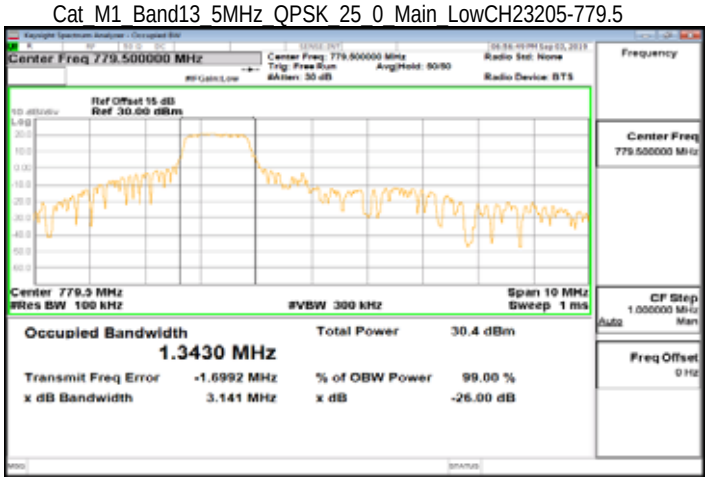
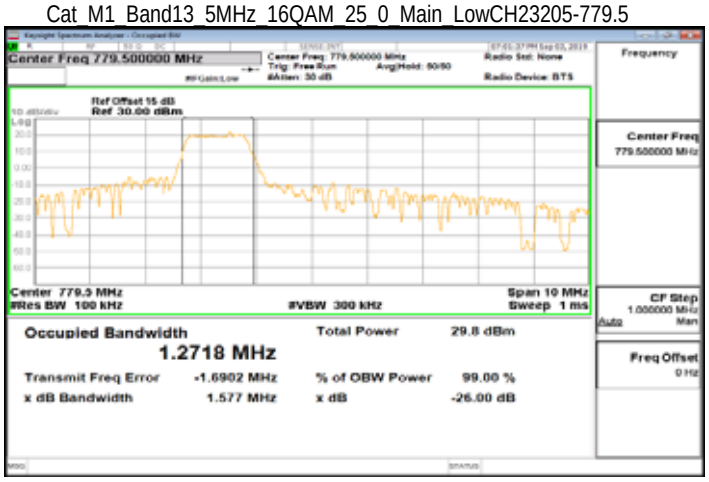
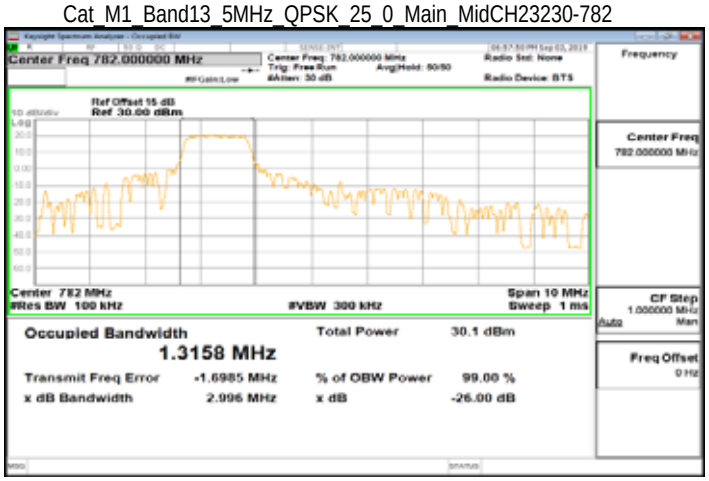
Cat_M1_Band13_5MHz_QPSK_25_0_Main_LowCH23205-779.5



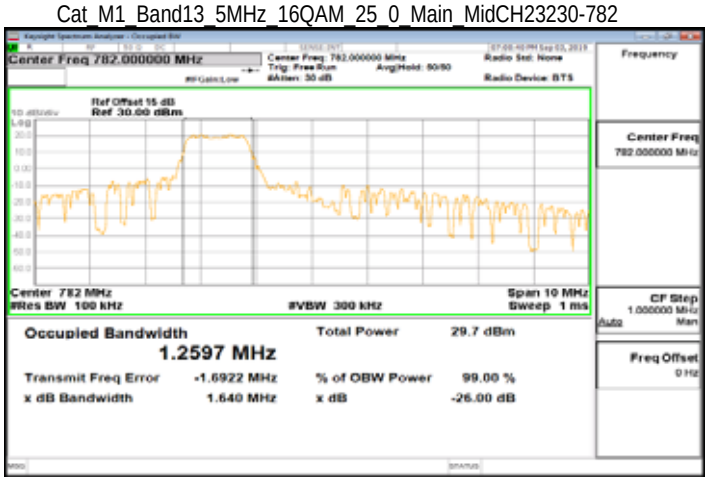

Cat_M1_Band13_5MHz_16QAM_25_0_Main_LowCH23205-779.5



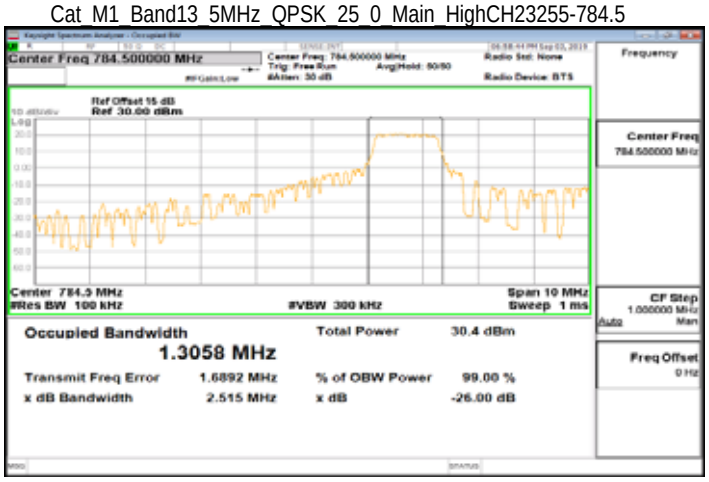

Cat_M1_Band13_5MHz_QPSK_25_0_Main_MidCH23230-782




Cat_M1_Band13_5MHz_16QAM_25_0_Main_MidCH23230-782




Cat_M1_Band13_5MHz_QPSK_25_0_Main_HighCH23255-784.5

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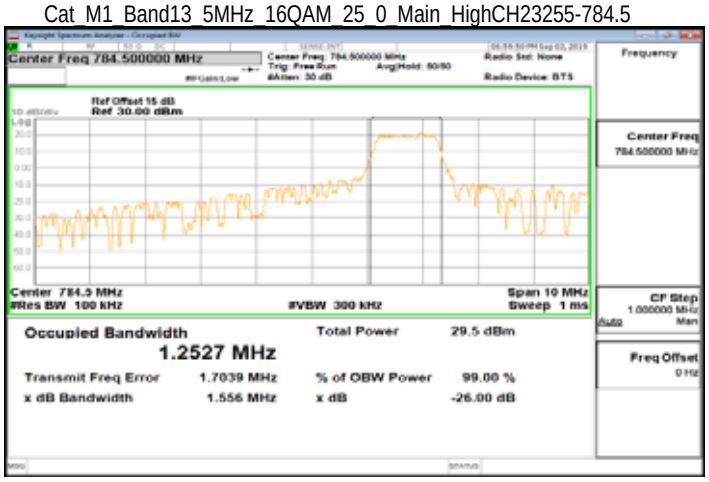


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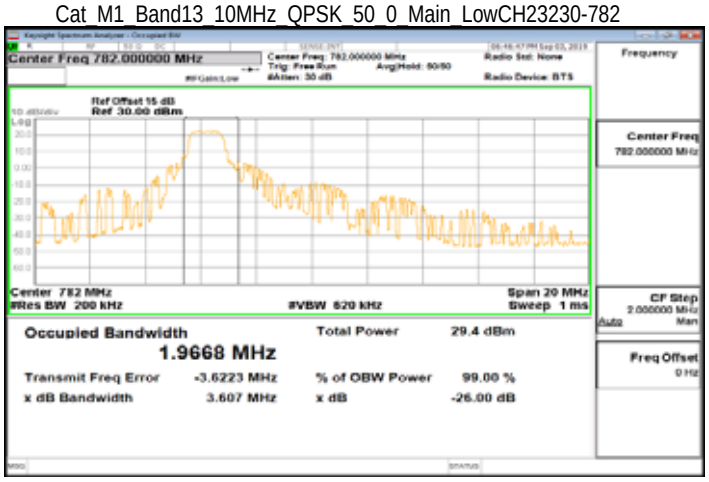
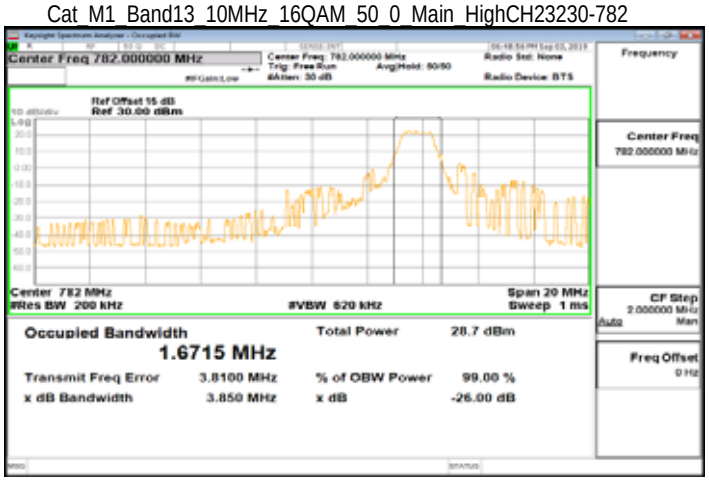
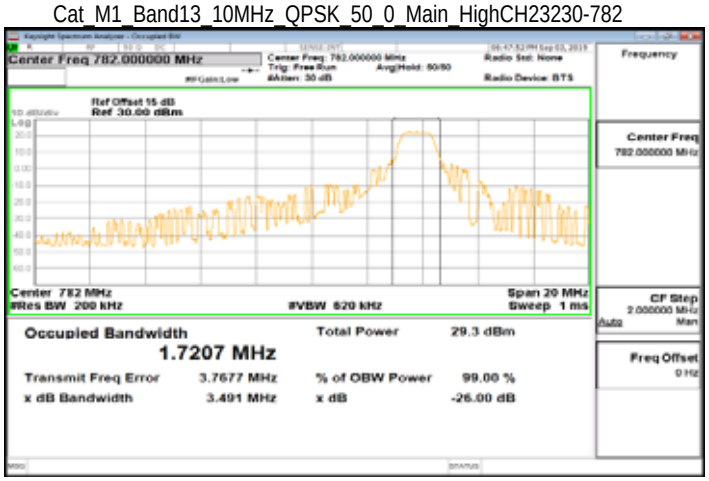
Cat_M1_Band13_10MHz_QPSK_50_0_Main_LowCH23230-782



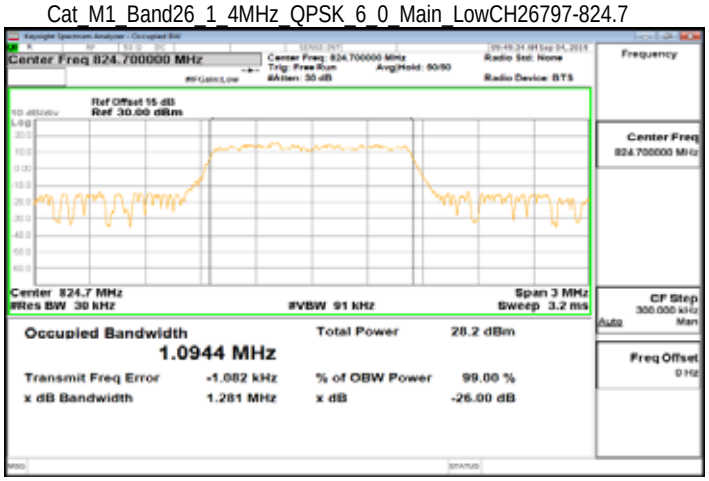

Cat_M1_Band13_10MHz_16QAM_50_0_Main_HighCH23230-782



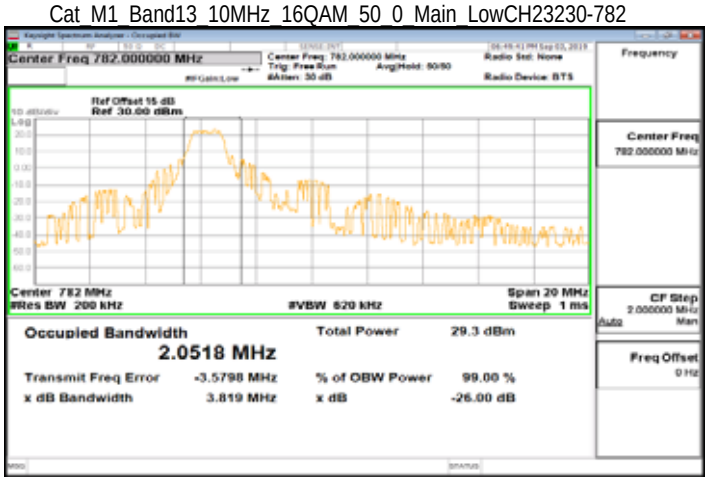

Cat_M1_Band13_10MHz_QPSK_50_0_Main_HighCH23230-782



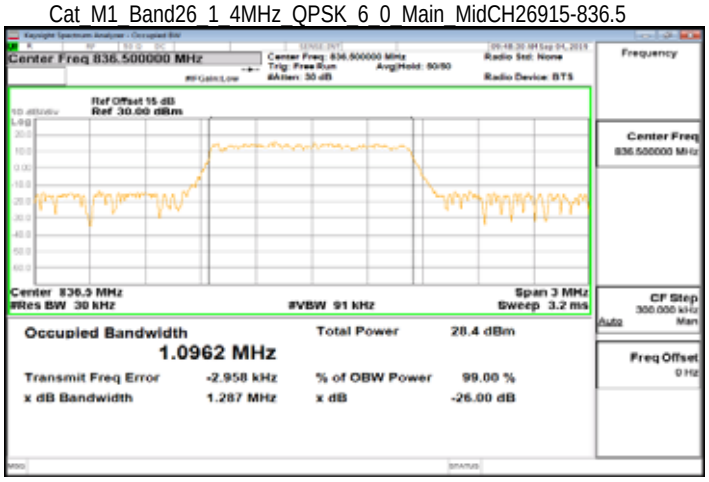

Cat_M1_Band26_1_4MHz_QPSK_6_0_Main_LowCH26797-824.7




Cat_M1_Band13_10MHz_16QAM_50_0_Main_LowCH23230-782




Cat_M1_Band26_1_4MHz_QPSK_6_0_Main_MidCH26915-836.5

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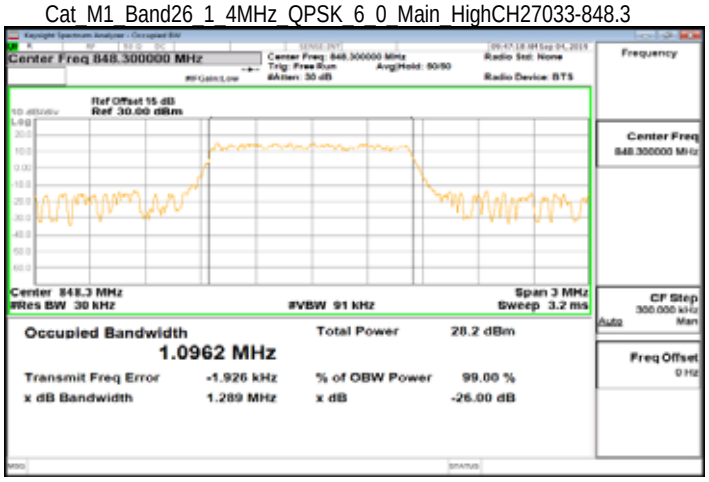
Cat_M1_Band26_1_4MHz_QPSK_6_0_Main_HighCH27033-848.3

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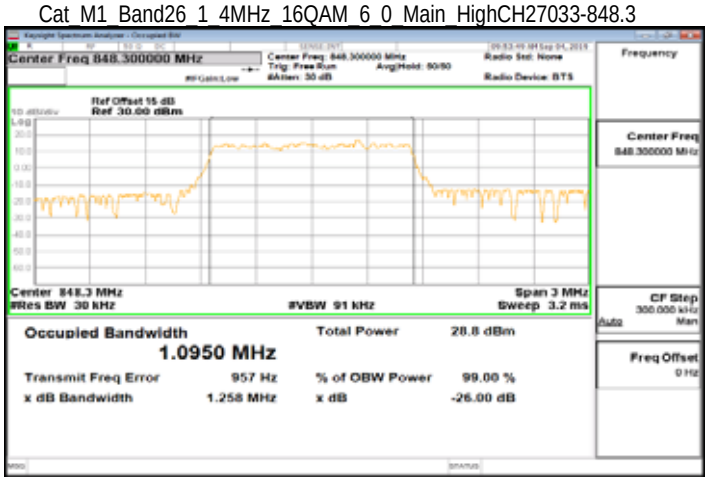


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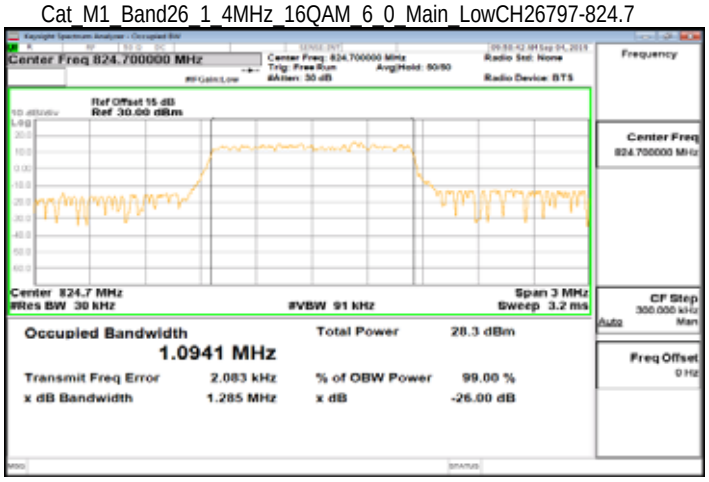
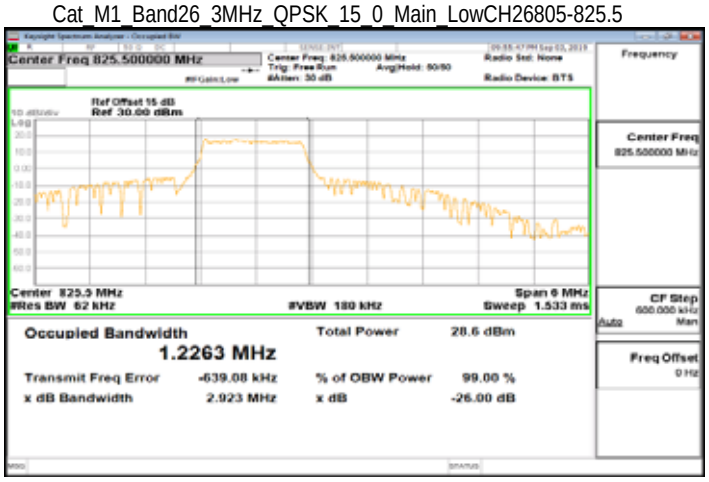
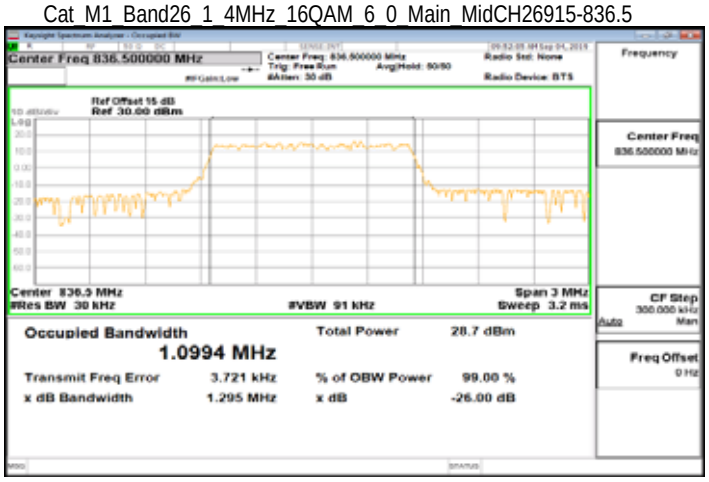



Cat_M1_Band26_3MHz_QPSK_15_0_Main_LowCH26805-825.5




Cat_M1_Band26_1_4MHz_16QAM_6_0_Main_MidCH26915-836.5

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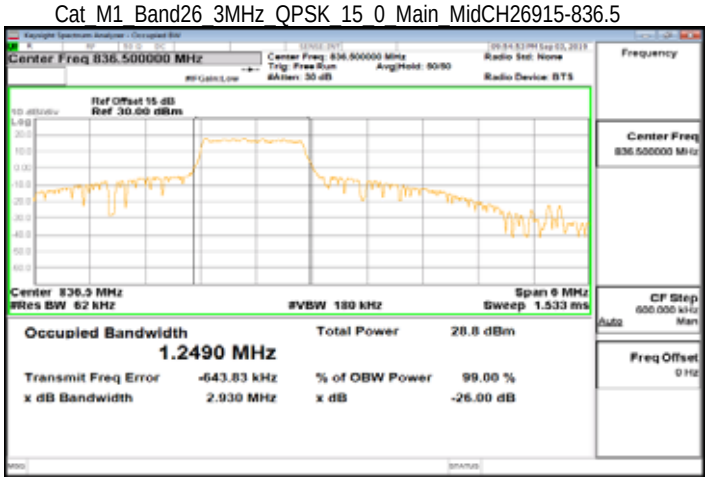


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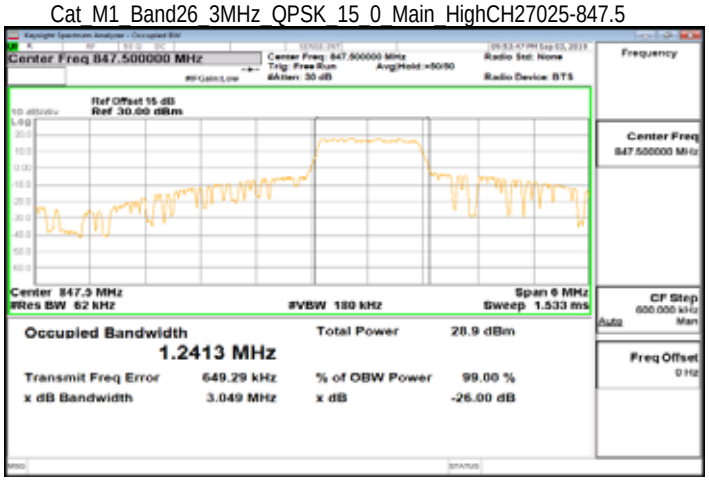
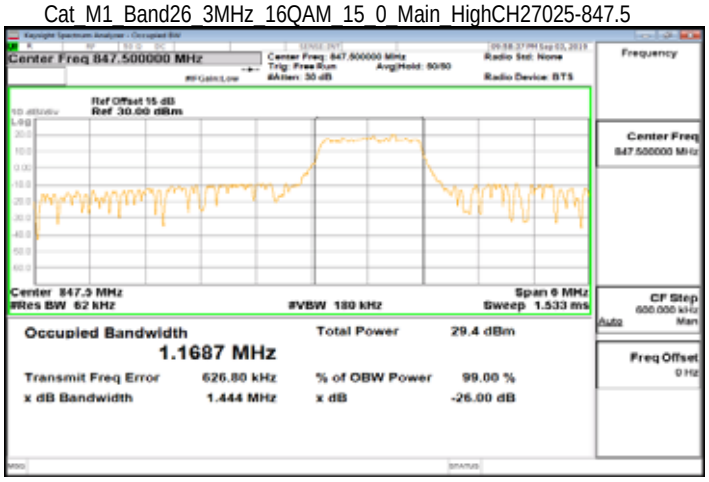
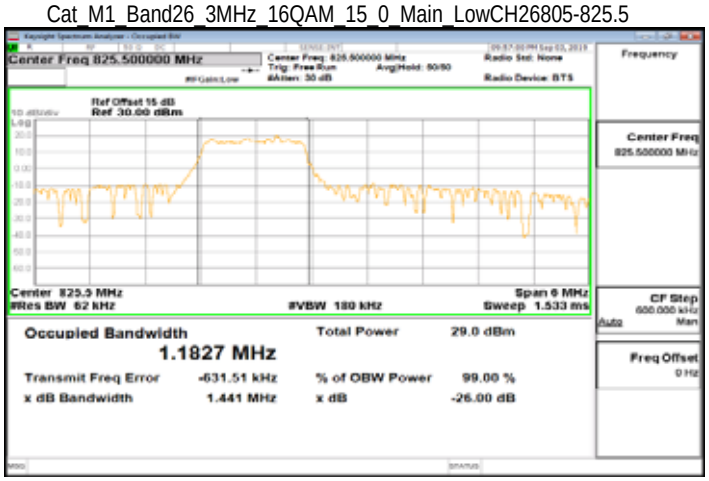
Cat_M1_Band26_3MHz_QPSK_15_0_Main_HighCH27025-847.5



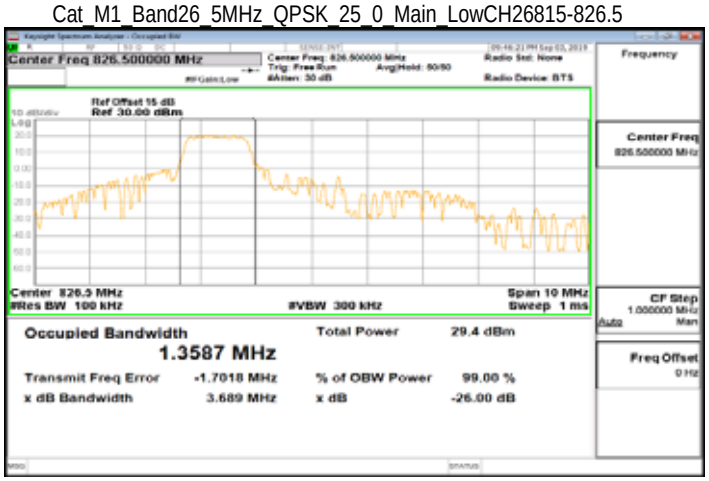

Cat_M1_Band26_3MHz_16QAM_15_0_Main_HighCH27025-847.5



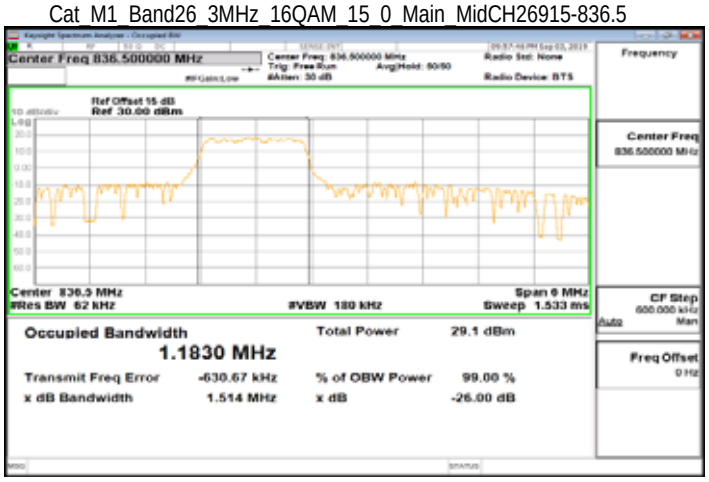

Cat_M1_Band26_3MHz_16QAM_15_0_Main_LowCH26805-825.5



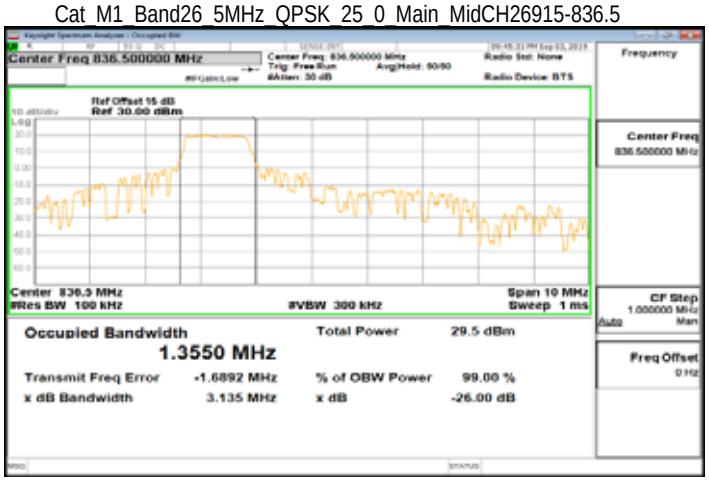

Cat_M1_Band26_5MHz_QPSK_25_0_Main_LowCH26815-826.5




Cat_M1_Band26_3MHz_16QAM_15_0_Main_MidCH26915-836.5




Cat_M1_Band26_5MHz_QPSK_25_0_Main_MidCH26915-836.5

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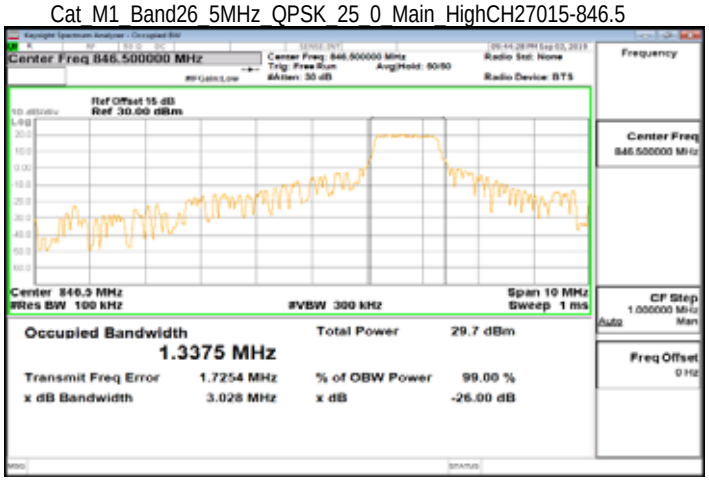
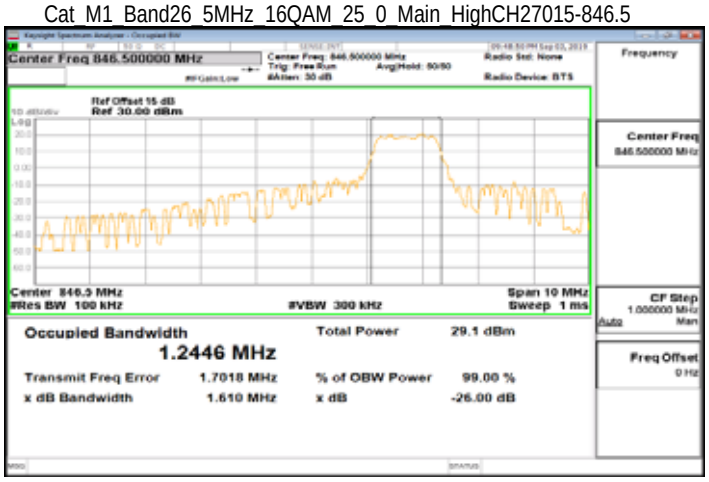
Cat_M1_Band26_5MHz_QPSK_25_0_Main_HighCH27015-846.5




Cat_M1_Band26_5MHz_16QAM_25_0_Main_HighCH27015-846.5

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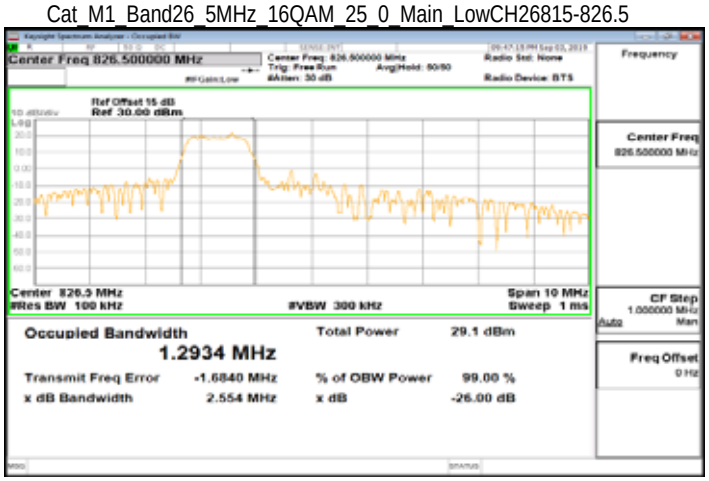
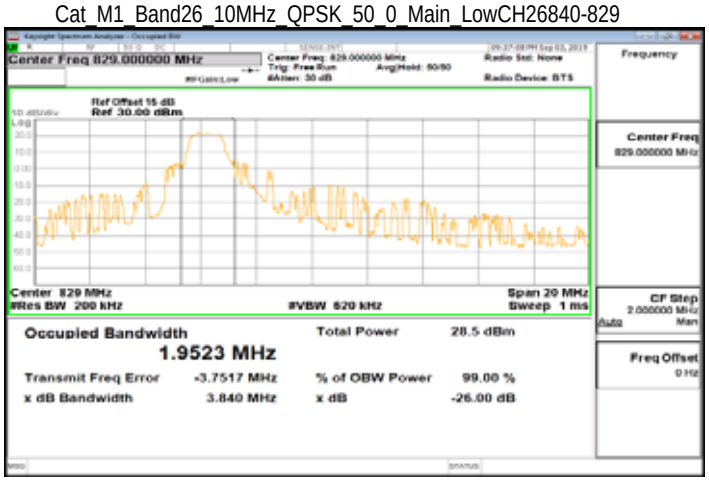
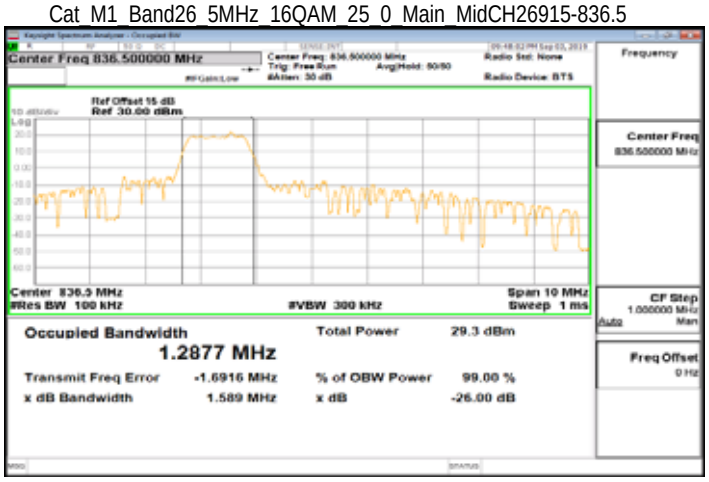



Cat_M1_Band26_10MHz_QPSK_50_0_Main_LowCH26840-829




Cat_M1_Band26_5MHz_16QAM_25_0_Main_MidCH26915-836.5

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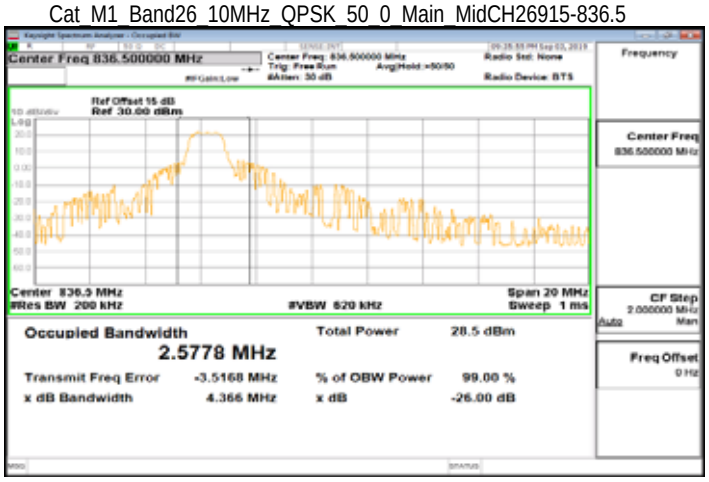


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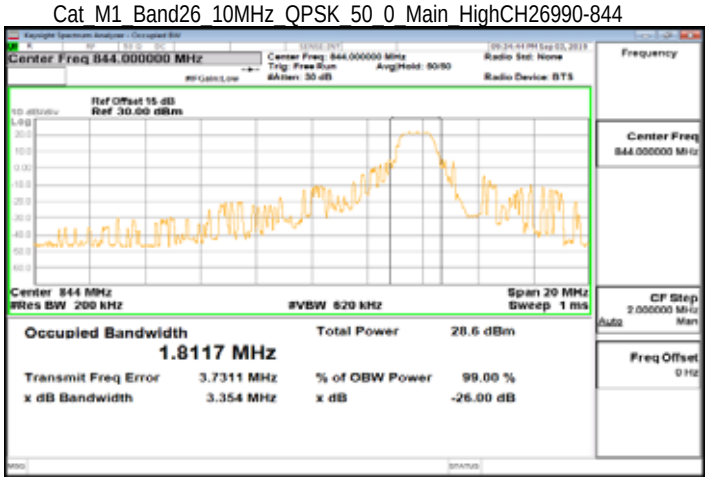
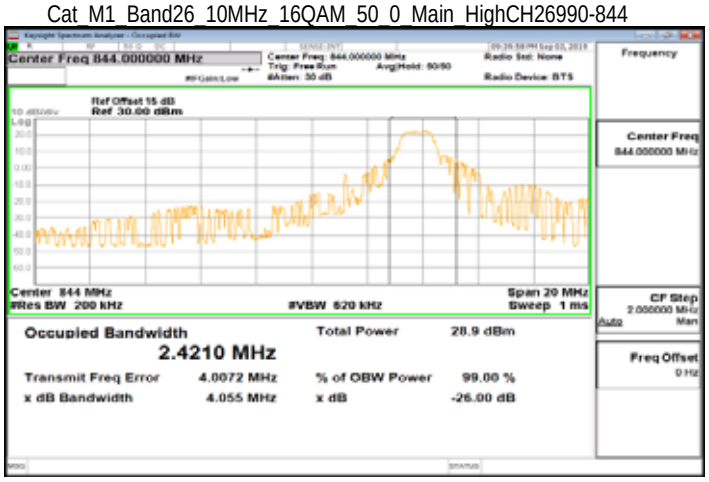
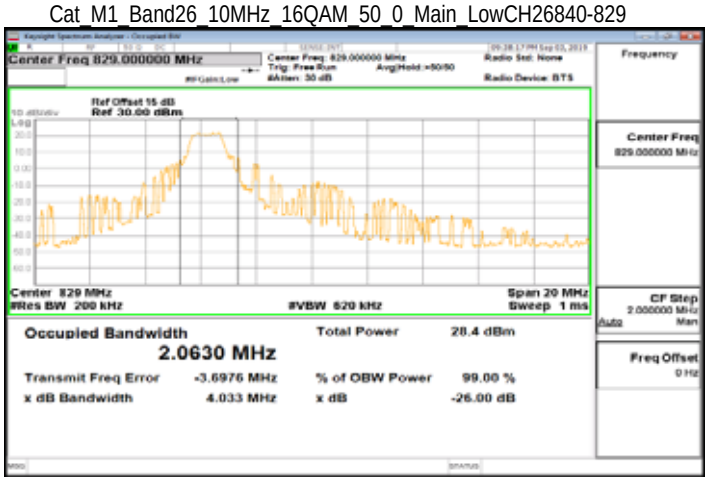
Cat_M1_Band26_10MHz_QPSK_50_0_Main_HighCH26990-844



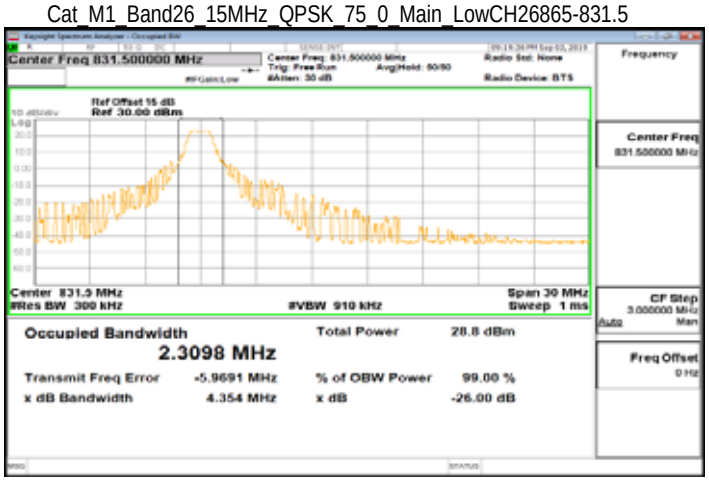

Cat_M1_Band26_10MHz_16QAM_50_0_Main_HighCH26990-844



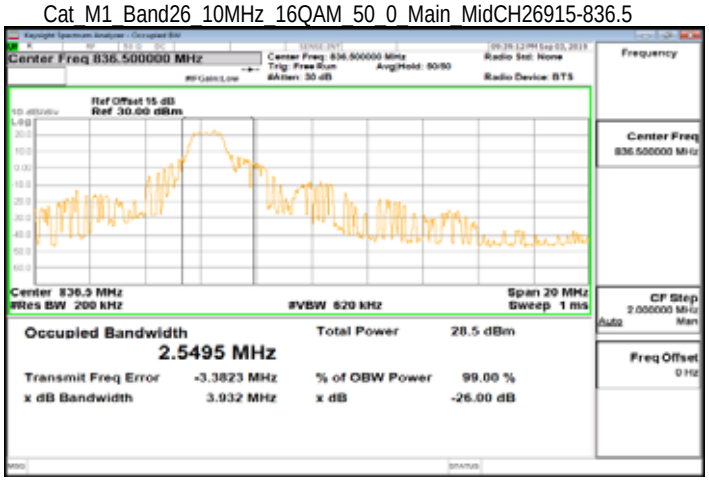

Cat_M1_Band26_10MHz_16QAM_50_0_Main_LowCH26840-829




Cat_M1_Band26_15MHz_QPSK_75_0_Main_LowCH26865-831.5




Cat_M1_Band26_10MHz_16QAM_50_0_Main_MidCH26915-836.5

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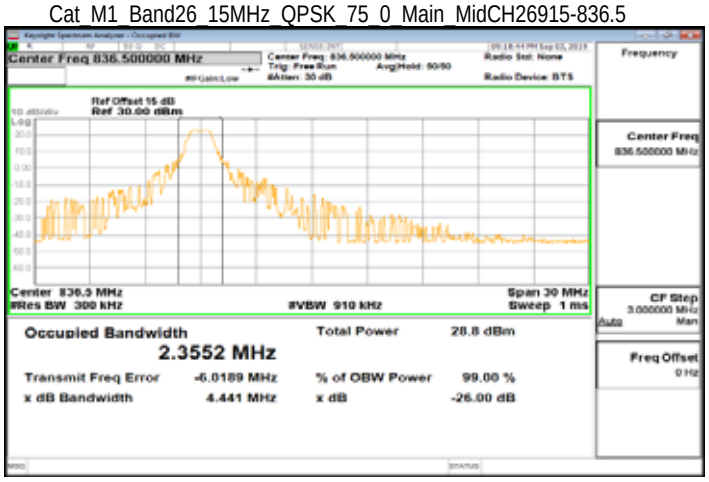


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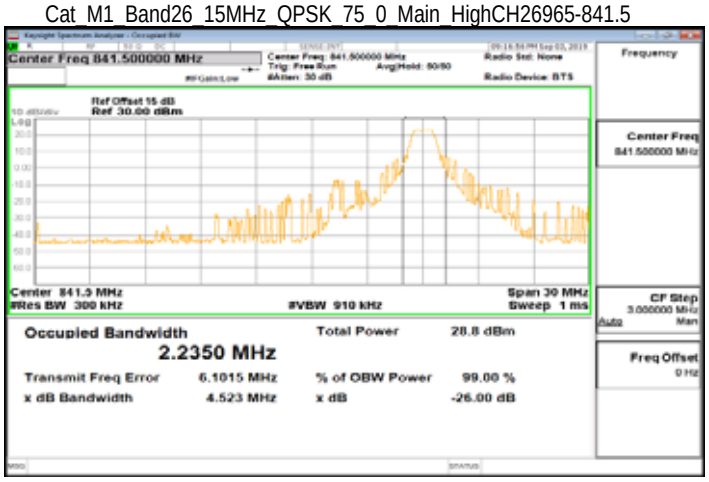
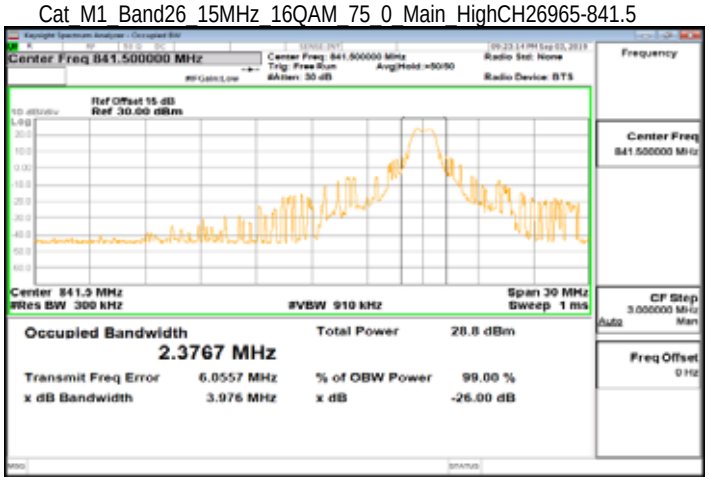
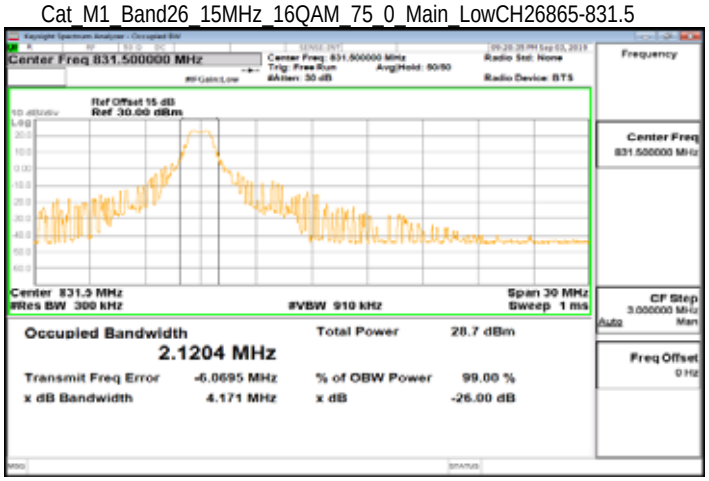
Cat_M1_Band26_15MHz_QPSK_75_0_Main_HighCH26965-841.5



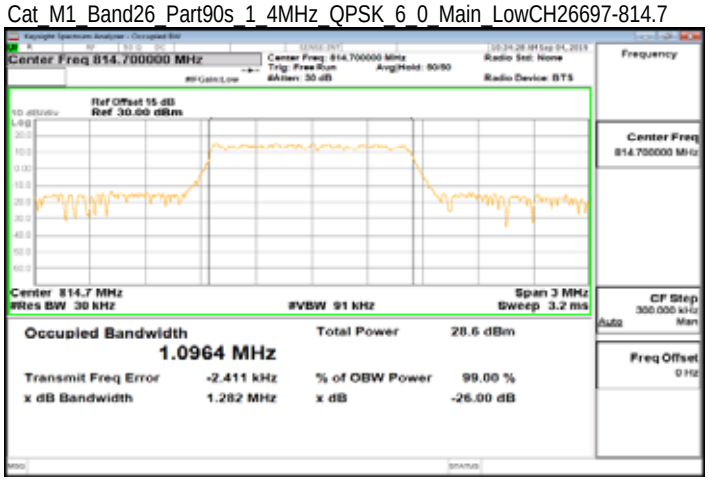

Cat_M1_Band26_15MHz_16QAM_75_0_Main_HighCH26965-841.5



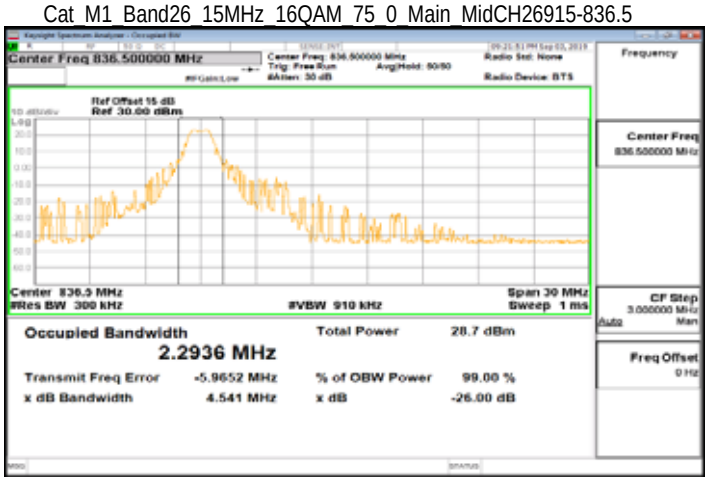

Cat_M1_Band26_15MHz_16QAM_75_0_Main_LowCH26865-831.5



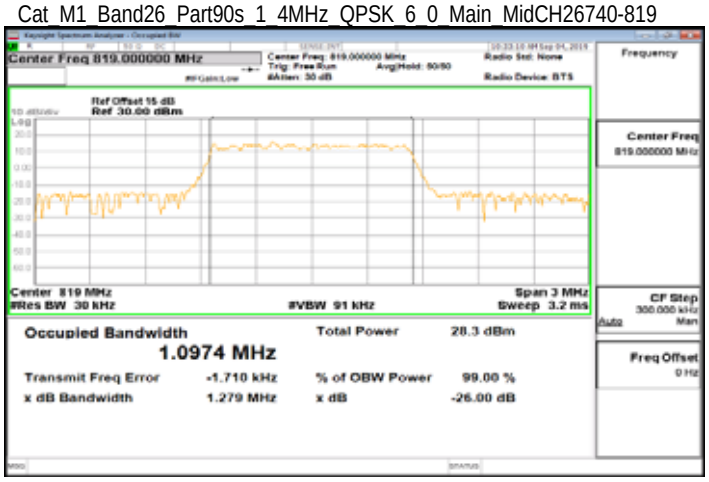

Cat_M1_Band26_Part90s_1_4MHz_QPSK_6_0_Main_LowCH26697-814.7




Cat_M1_Band26_15MHz_16QAM_75_0_Main_MidCH26915-836.5




Cat_M1_Band26_Part90s_1_4MHz_QPSK_6_0_Main_MidCH26740-819

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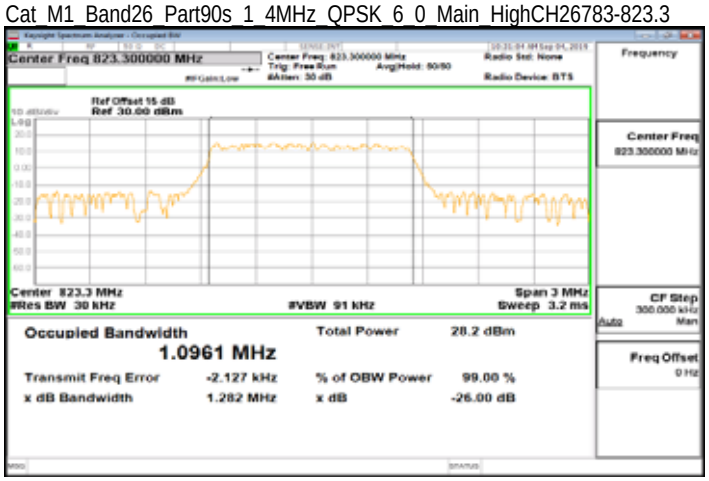
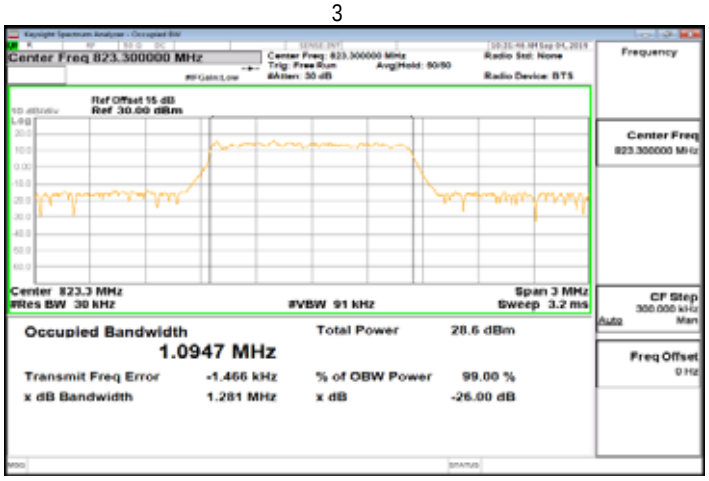
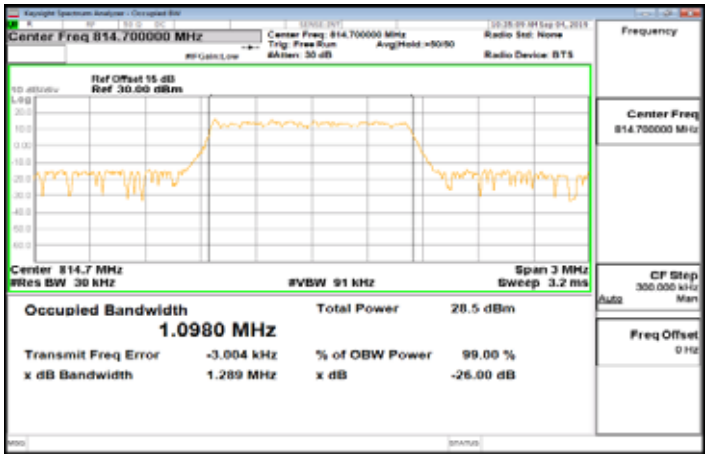
Cat_M1_Band26_Part90s_1_4MHz_QPSK_6_0_Main_HighCH26783-823.3



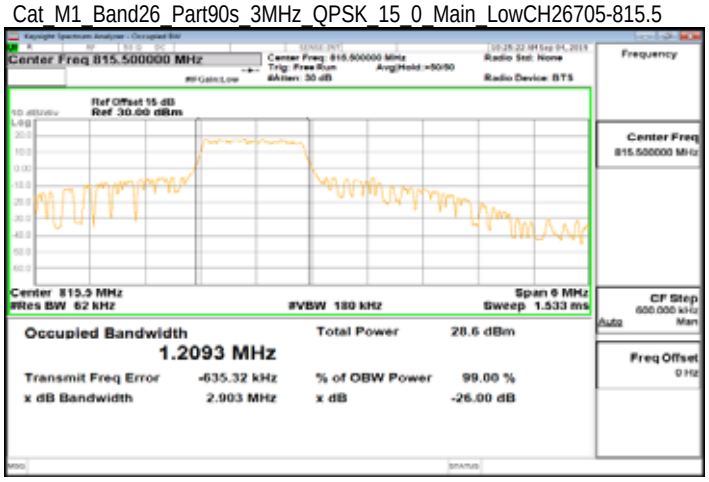

Cat_M1_Band26_Part90s_1_4MHz_16QAM_6_0_Main_HighCH26783-823.3



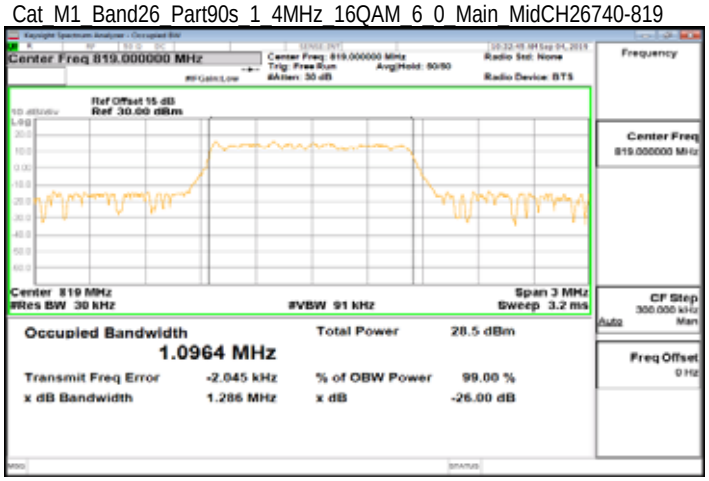

Cat_M1_Band26_Part90s_1_4MHz_16QAM_6_0_Main_LowCH26697-814.7



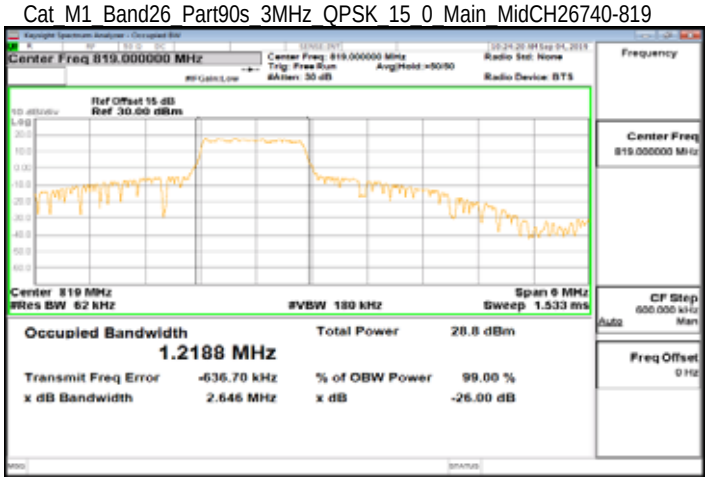

Cat_M1_Band26_Part90s_3MHz_QPSK_15_0_Main_LowCH26705-815.5




Cat_M1_Band26_Part90s_1_4MHz_16QAM_6_0_Main_MidCH26740-819




Cat_M1_Band26_Part90s_3MHz_QPSK_15_0_Main_MidCH26740-819

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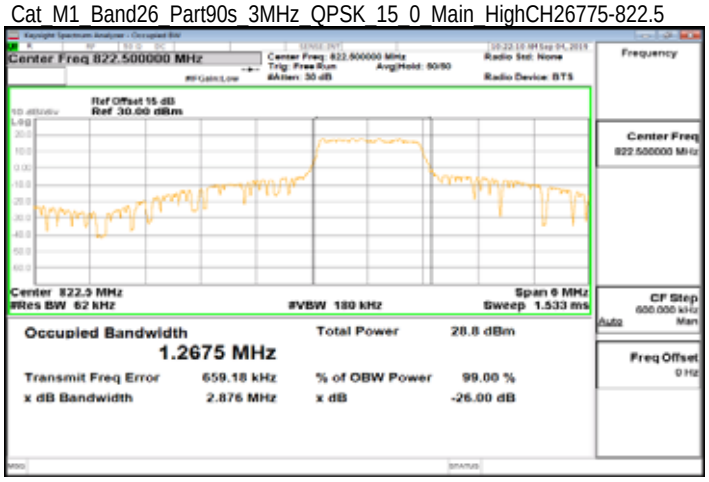
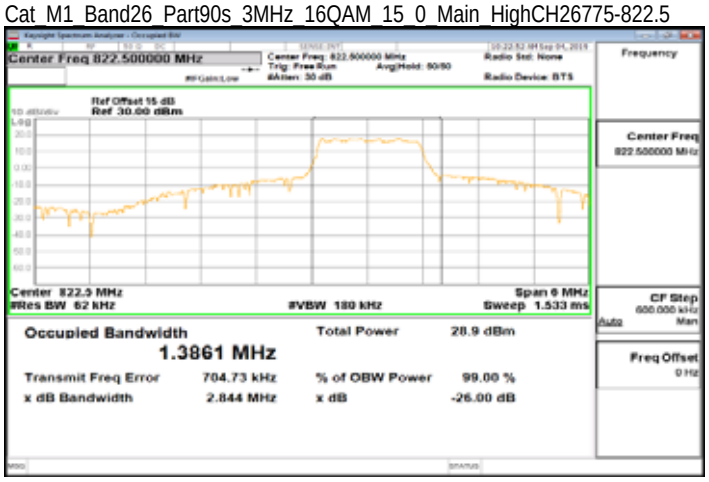
Cat_M1_Band26_Part90s_3MHz_QPSK_15_0_Main_HighCH26775-822.5




Cat_M1_Band26_Part90s_3MHz_16QAM_15_0_Main_HighCH26775-822.5

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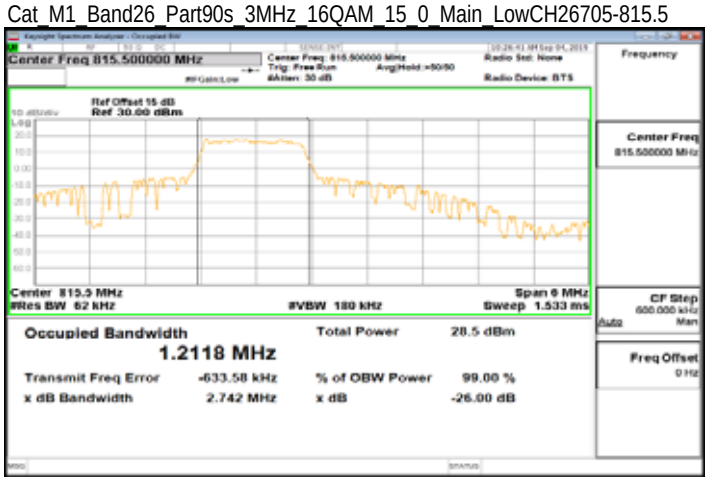
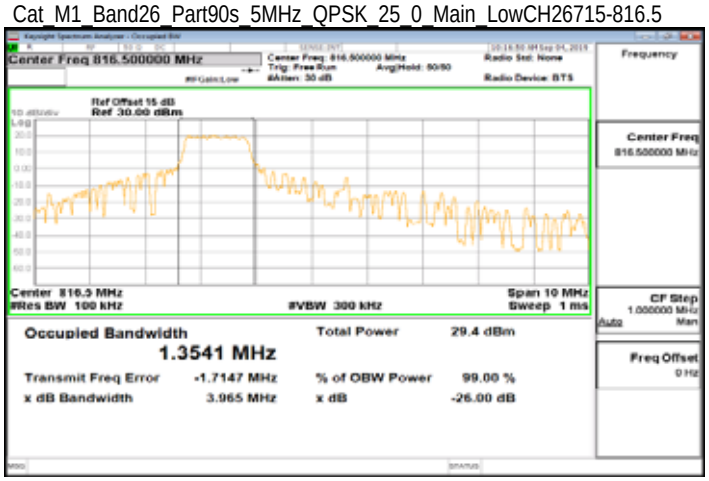



Cat_M1_Band26_Part90s_5MHz_QPSK_25_0_Main_LowCH26715-816.5

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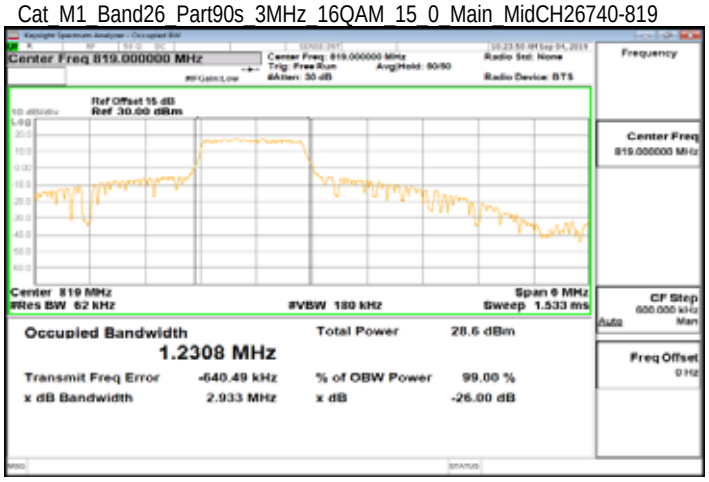


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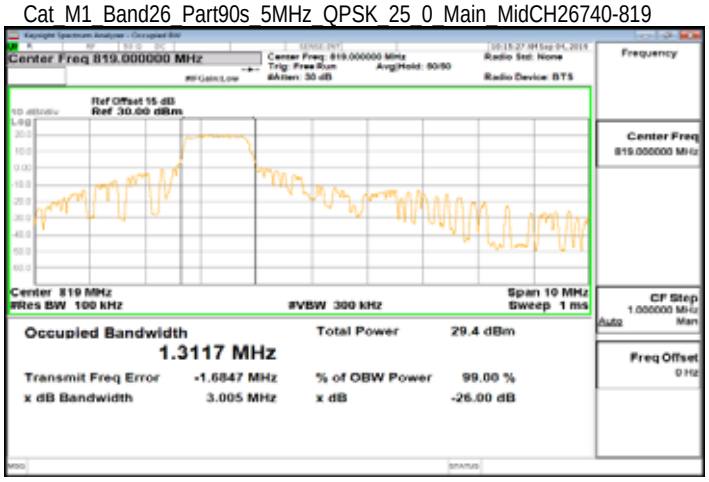


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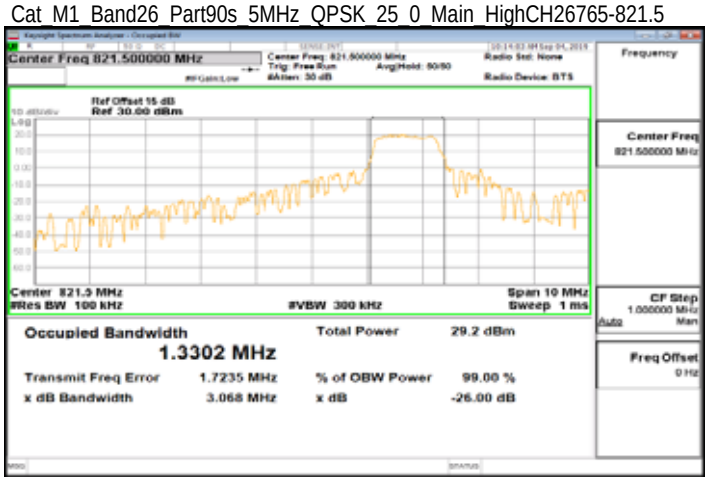
Cat_M1_Band26_Part90s_5MHz_QPSK_25_0_Main_HighCH26765-821.5

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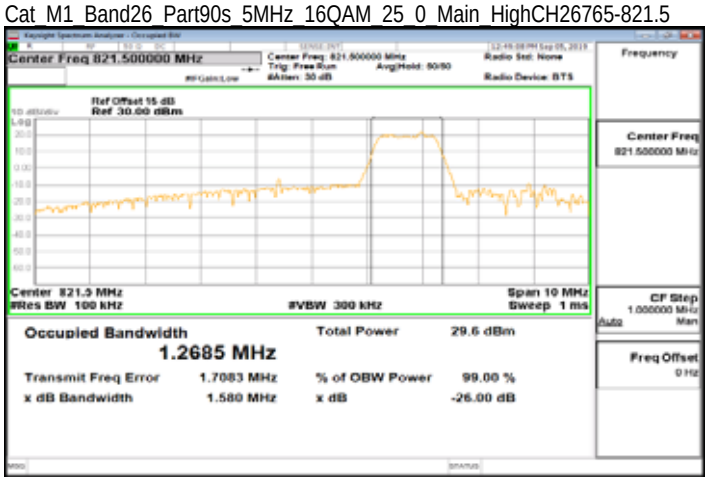
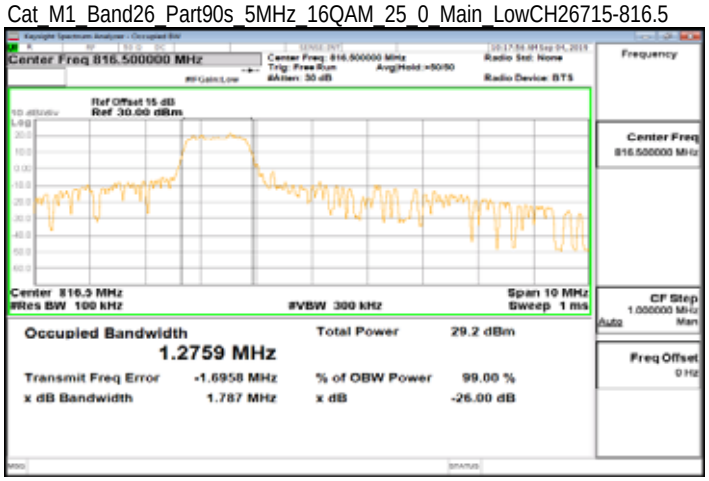
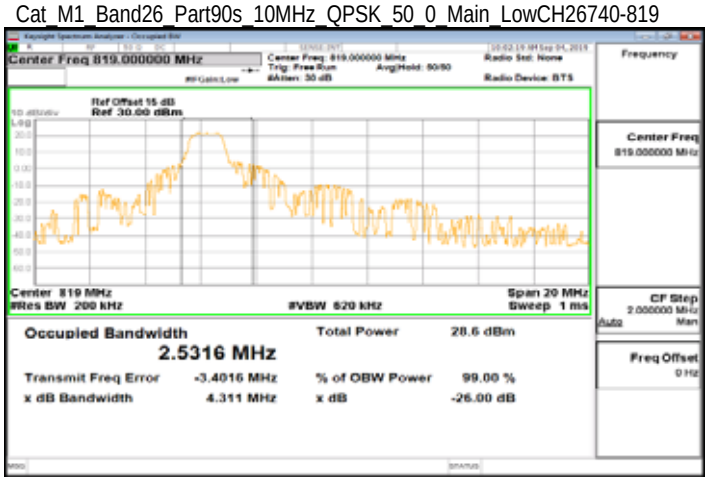


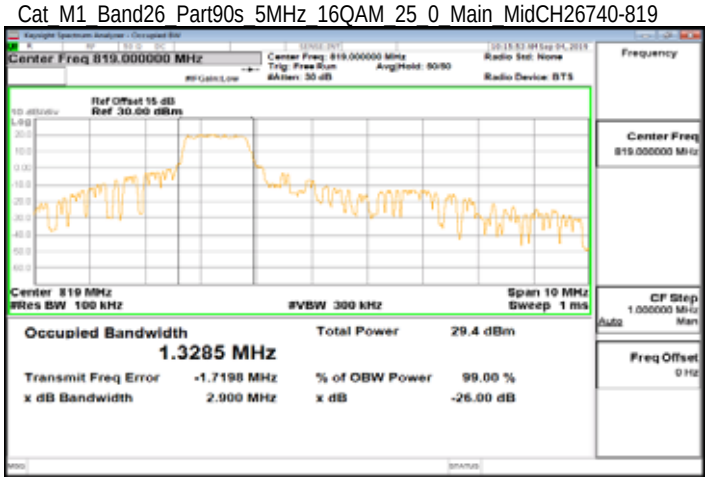

Cat_M1_Band26_Part90s_5MHz_16QAM_25_0_Main_LowCH26715-816.5



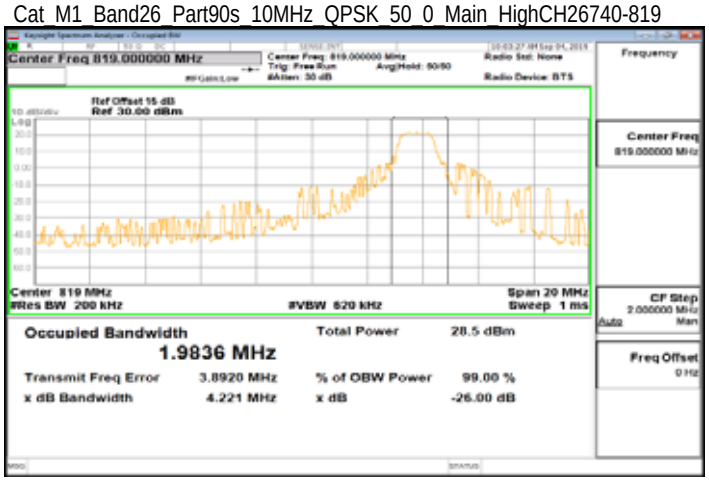

Cat_M1_Band26_Part90s_10MHz_QPSK_50_0_Main_LowCH26740-819




Cat_M1_Band26_Part90s_5MHz_16QAM_25_0_Main_MidCH26740-819




Cat_M1_Band26_Part90s_10MHz_QPSK_50_0_Main_HighCH26740-819

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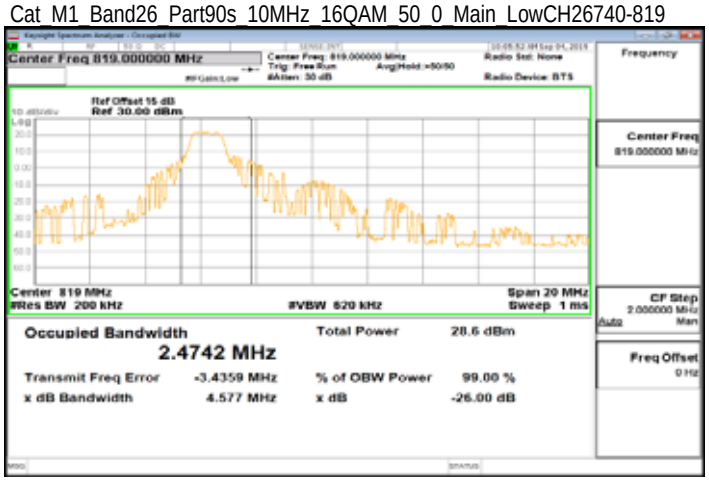
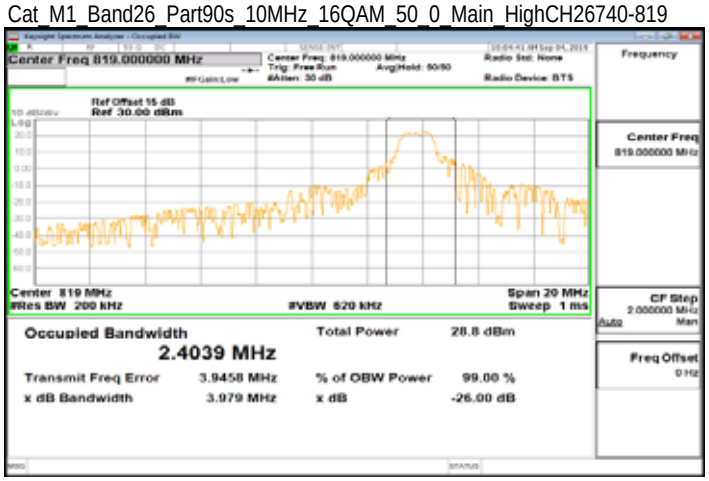
Cat_M1_Band26_Part90s_10MHz_16QAM_50_0_Main_LowCH26740-819




Cat_M1_Band26_Part90s_10MHz_16QAM_50_0_Main_HighCH26740-819

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# 8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

## 8.1 Standard Applicable

**FCC §22.917(a), §24.238(a), §27.53(h)**
**RSS-130 §4.7, RSS-132 §5.5, RSS-139 §6.5, RSS-139 §6.6**

Out of band emissions.The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

**FCC §27.53(c) for B13**

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:
(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB (-13dBm)
(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

**FCC §27.53 (f) for B13**

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

**FCC §27.53(c) (5) & FCC §27.53(g) for B12, 13**

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

**ISED RSS-130 §4.7.1 for B12, 13**

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least 43 + 10 log10 p (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

**ISED RSS-130 §4.7.2 for B13**

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:
the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

76 + 10 log10 p (watts), dB, for base and fixed equipment and
65 + 10 log10 p (watts), dB, for mobile and portable equipment

the e.i.r.p. in the band 1559-1610 MHz shall not exceed −70 dBW/MHz for wideband signal and −80 dBW for discrete emission with bandwidth less than 700 Hz.

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**FCC §27.53(h)(3) for B4**

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

**RSS-139 §6.6 for B4**

In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block,Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.

After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.

**FCC §90.691 Emission mask requirements for EA-based systems for B26**

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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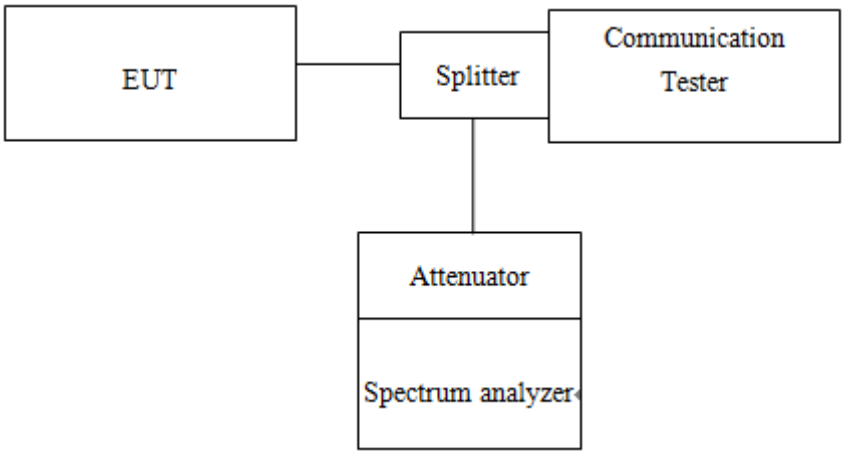
## 8.2 Test SET-UP




## 8.3 Measurement Procedure

**Conducted Emission**

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

**Band Edge**

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW ≥ 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

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## 8.4 Measurement Equipment Used

| Conducted Emission (measured at antenna port) Test Site | | | | | |
|---|---|---|---|---|---|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EXA Spectrum Analyzer | Agilent | N9010A | MY50420195 | 05/02/2019 | 05/01/2020 |
| Radio Communication Analyer | Anritsu | MT8821C | 6261786084 | 01/09/2019 | 01/08/2020 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 12/04/2018 | 12/03/2019 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 4 | 01/02/2019 | 01/01/2020 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/17/2019 | 05/16/2020 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/02/2019 | 01/01/2020 |
| Splitter | RF-LAMBAD | RFLT2W1G18G | 11-JSPF412-018 | 01/02/2019 | 01/01/2020 |

## 8.5 Measurement Result:

Refer to next pages.

***NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.***

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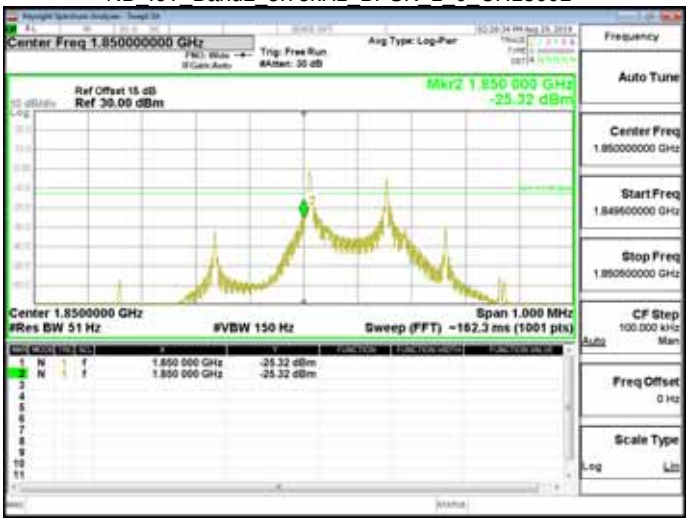
### 8.5.1 BANDEDGE

NB_IoT_Band2_3.75kHz_BPSK_1_0_CH18601




NB_IoT_Band2_15kHz_QPSK_1_11_CH19199

NB_IoT_Band2_3.75kHz_BPSK_1_47_CH19199

NB_IoT_Band2_15kHz_QPSK_12_0_CH18601

NB_IoT_Band2_15kHz_QPSK_1_0_CH18601

NB_IoT_Band2_15kHz_QPSK_12_0_CH19199

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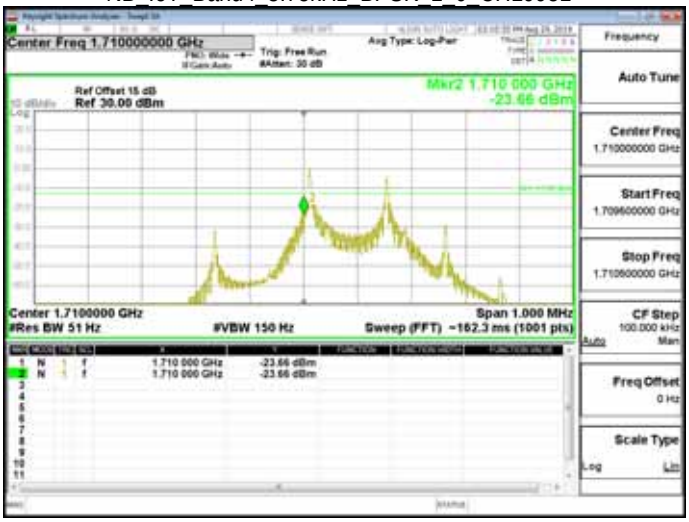
NB_IoT_Band4_3.75kHz_BPSK_1_0_CH19951




NB_IoT_Band4_15kHz_QPSK_1_11_CH20399

NB_IoT_Band4_3.75kHz_BPSK_1_47_CH20399

NB_IoT_Band4_15kHz_QPSK_12_0_CH19951

NB_IoT_Band4_15kHz_QPSK_1_0_CH19951

NB_IoT_Band4_15kHz_QPSK_12_0_CH20399

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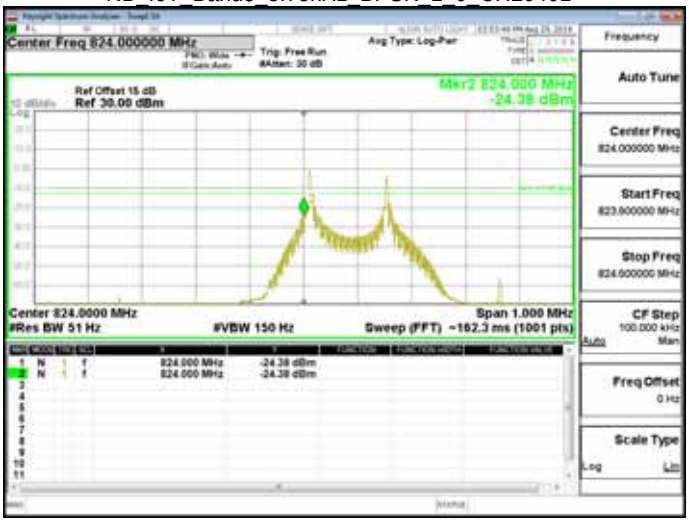
NB_IoT_Band5_3.75kHz_BPSK_1_0_CH20401

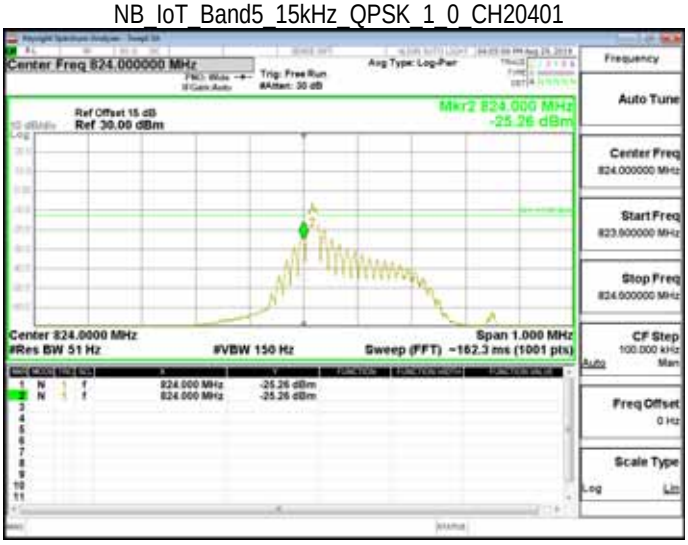



NB_IoT_Band5_15kHz_QPSK_1_11_CH20649

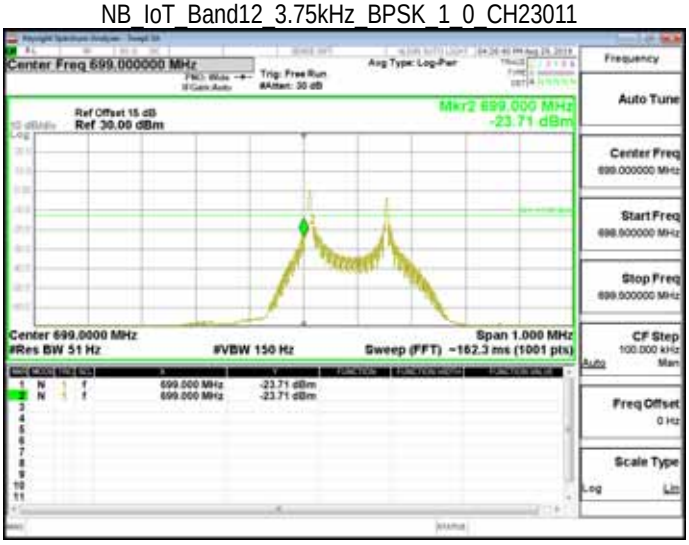
NB_IoT_Band5_3.75kHz_BPSK_1_47_CH20649

NB_IoT_Band5_15kHz_QPSK_12_0_CH20401

NB_IoT_Band5_15kHz_QPSK_1_0_CH20401




NB_IoT_Band12_3.75kHz_BPSK_1_0_CH23011

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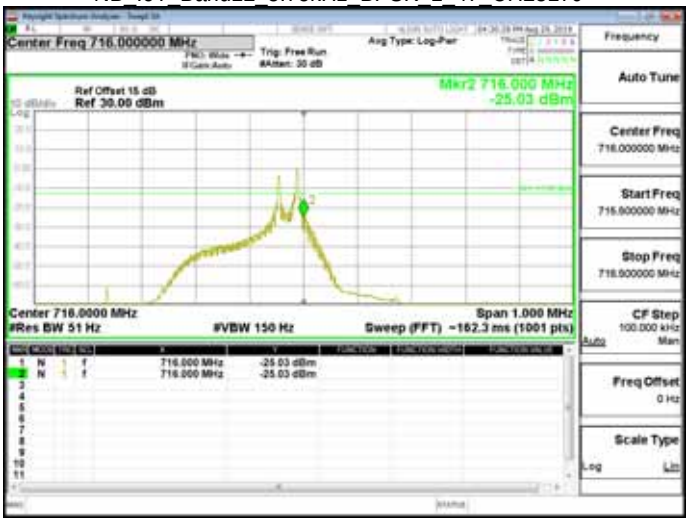
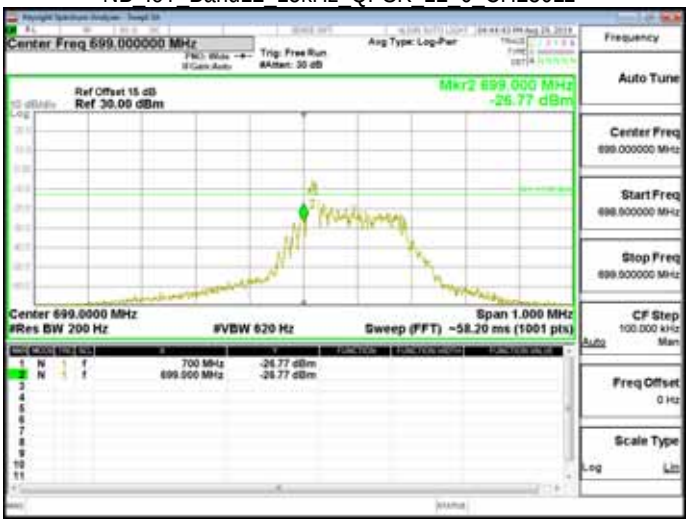
NB_IoT_Band12_3.75kHz_BPSK_1_47_CH23179



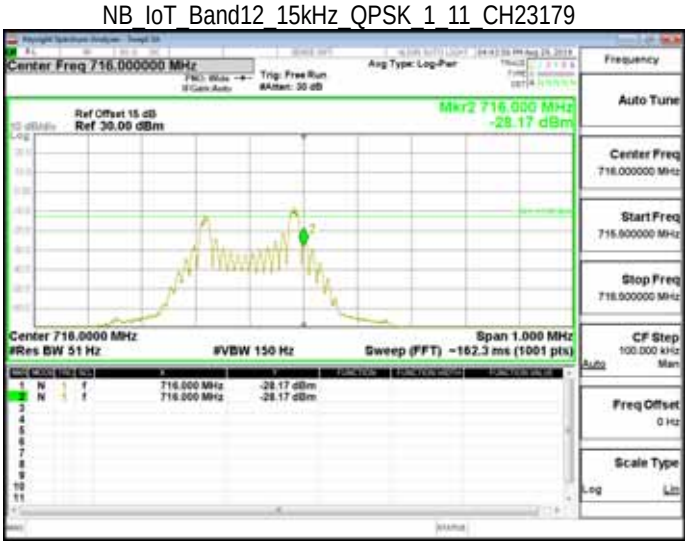

NB_IoT_Band12_15kHz_QPSK_12_0_CH23011



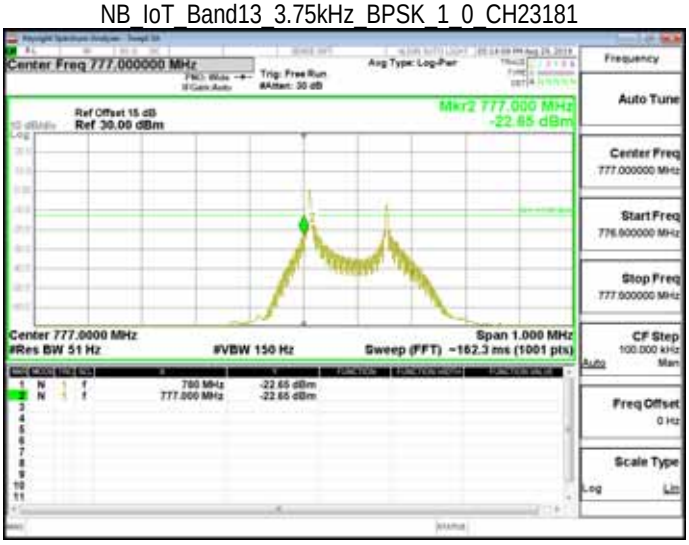

NB_IoT_Band12_15kHz_QPSK_1_0_CH23011

NB_IoT_Band12_15kHz_QPSK_12_0_CH23179

NB_IoT_Band12_15kHz_QPSK_1_11_CH23179




NB_IoT_Band13_3.75kHz_BPSK_1_0_CH23181

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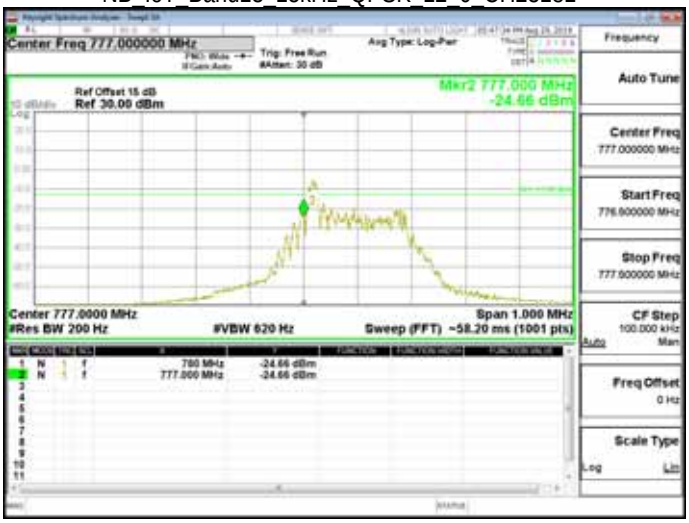
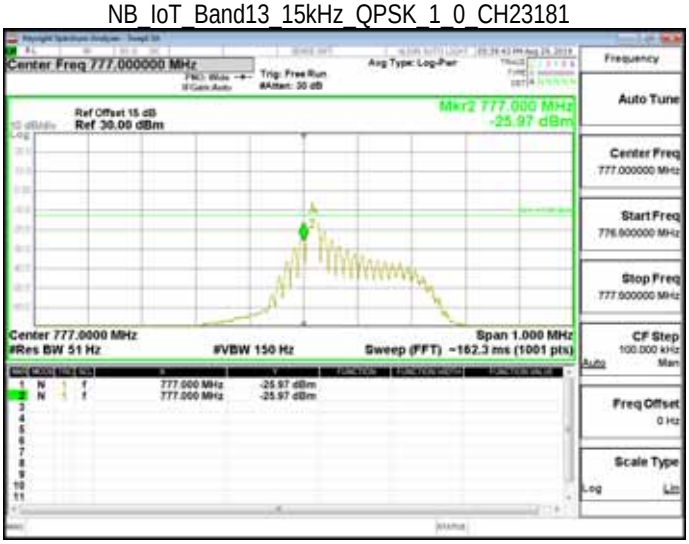
NB_IoT_Band13_3.75kHz_BPSK_1_47_CH23279

NB_IoT_Band13_15kHz_QPSK_12_0_CH23181

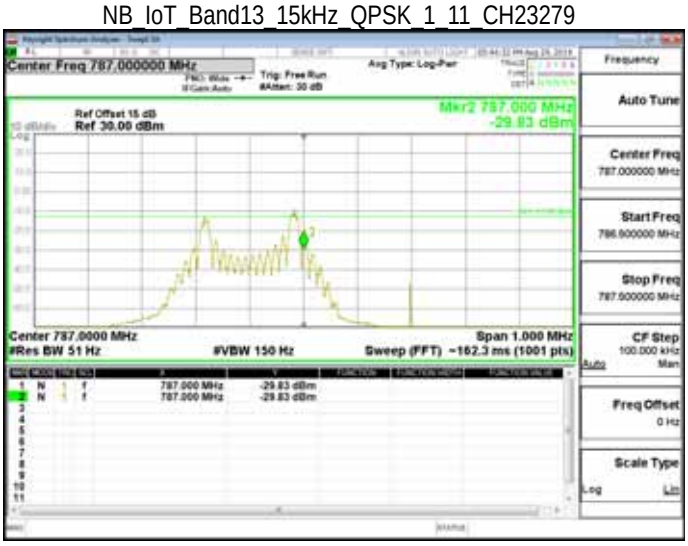



NB_IoT_Band13_15kHz_QPSK_1_0_CH23181

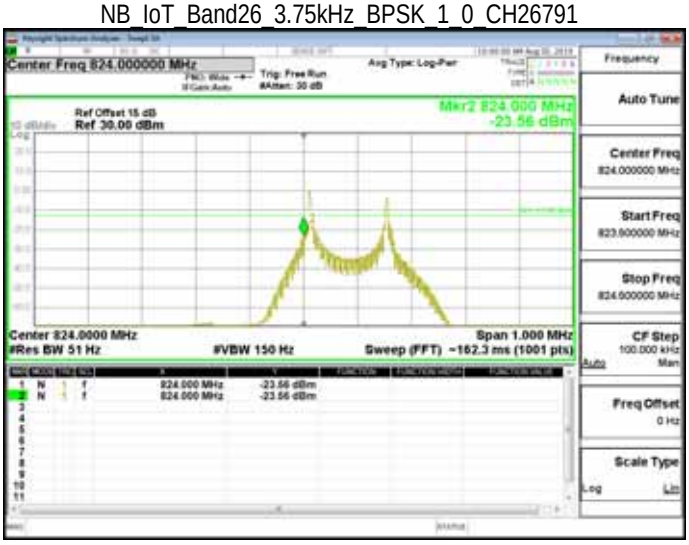



NB_IoT_Band13_15kHz_QPSK_12_0_CH23279

NB_IoT_Band13_15kHz_QPSK_1_11_CH23279




NB_IoT_Band26_3.75kHz_BPSK_1_0_CH26791

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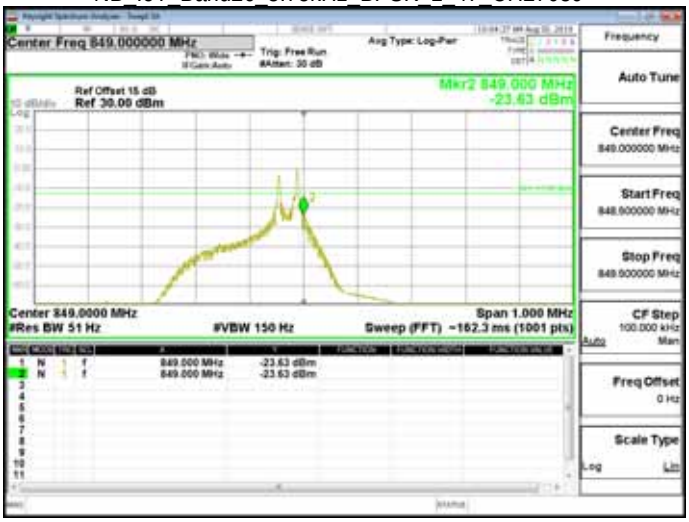
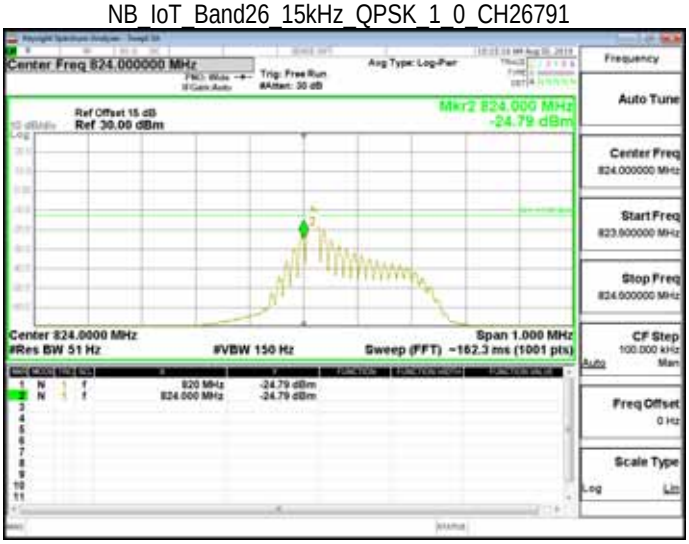
NB_IoT_Band26_3.75kHz_BPSK_1_47_CH27039



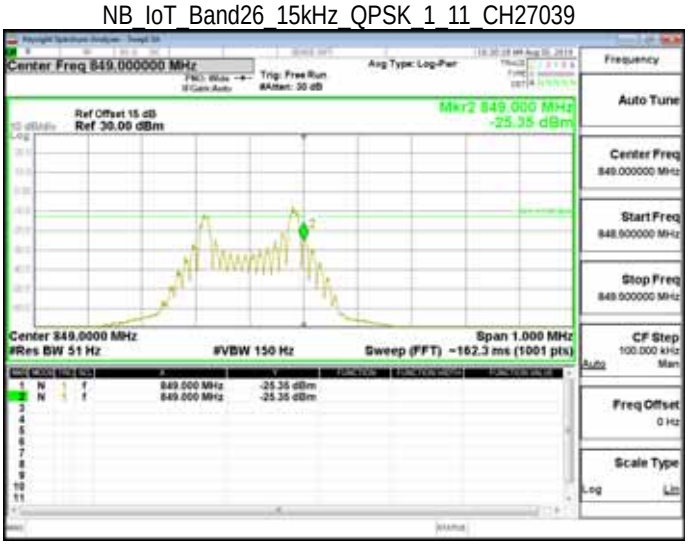

NB_IoT_Band26_15kHz_QPSK_12_0_CH26791

NB_IoT_Band26_15kHz_QPSK_1_0_CH26791

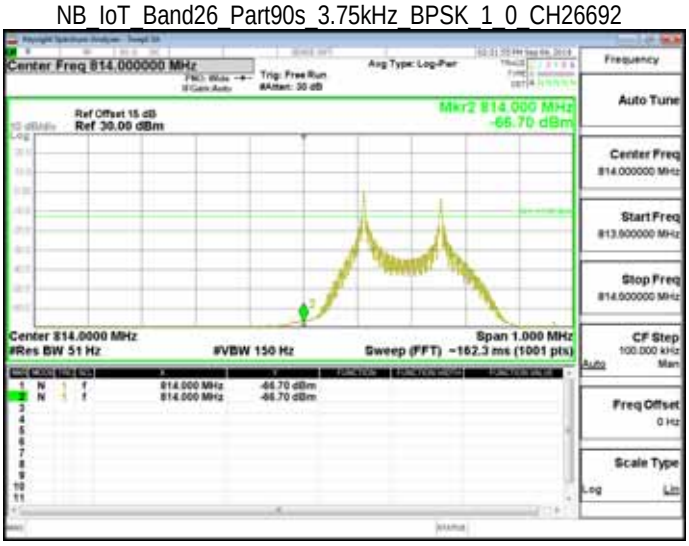



NB_IoT_Band26_15kHz_QPSK_12_0_CH27039

NB_IoT_Band26_15kHz_QPSK_1_11_CH27039




NB_IoT_Band26_Part90s_3.75kHz_BPSK_1_0_CH26692

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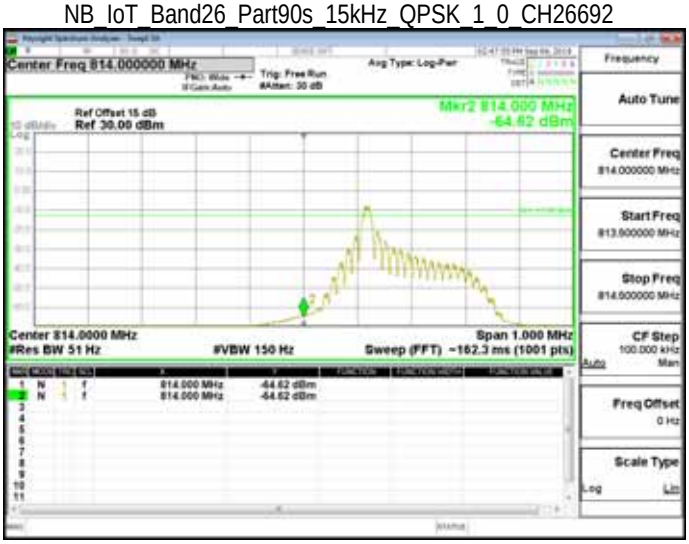
NB_IoT_Band26_Part90s_3.75kHz_BPSK_1_47_CH26788

NB_IoT_Band26_Part90s_15kHz_QPSK_12_0_CH26692

NB_IoT_Band26_Part90s_15kHz_QPSK_1_0_CH26692

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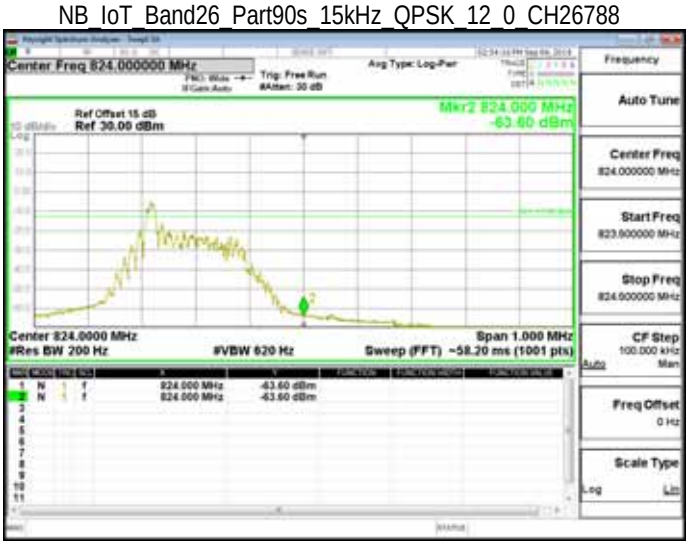
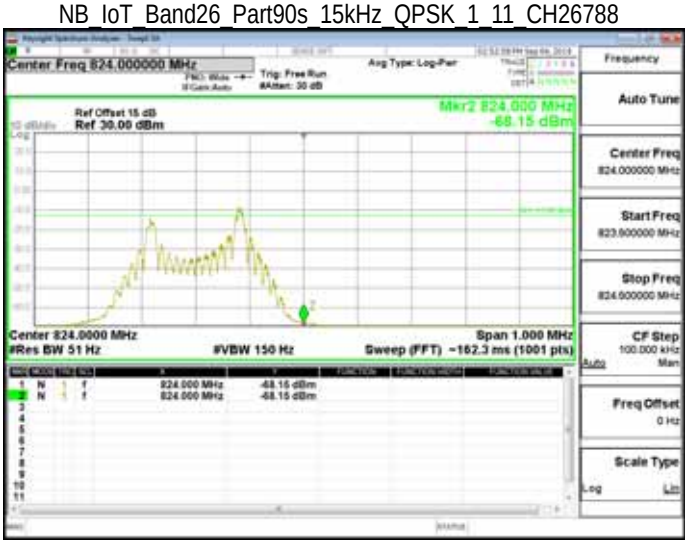



NB_IoT_Band26_Part90s_15kHz_QPSK_1_11_CH26788

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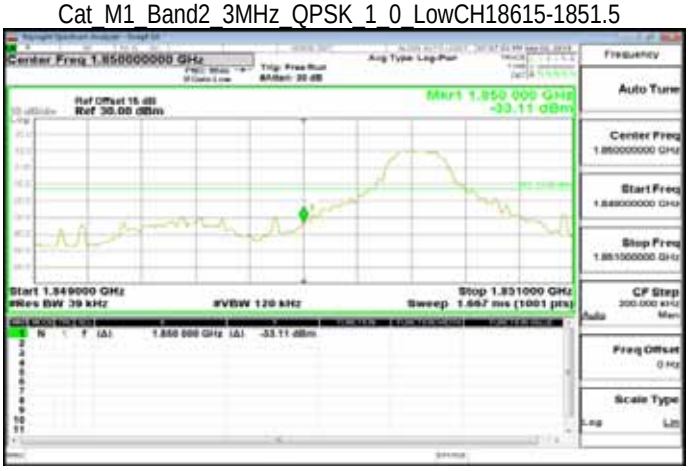
Cat_M1_Band2_1_4MHz_QPSK_1_0_LowCH18607-1850.7

Cat_M1_Band2_1_4MHz_QPSK_6_0_HighCH19193-1909.3

Cat_M1_Band2_1_4MHz_QPSK_1_5_HighCH19193-1909.3

Cat_M1_Band2_3MHz_QPSK_1_0_LowCH18615-1851.5




Cat_M1_Band2_1_4MHz_QPSK_6_0_LowCH18607-1850.7

Cat_M1_Band2_3MHz_QPSK_1_5_HighCH19185-1908.5

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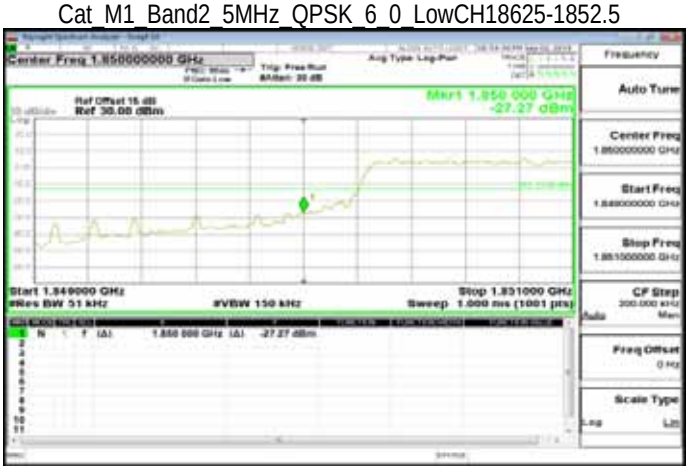
Cat_M1_Band2_3MHz_QPSK_6_0_LowCH18615-1851.5

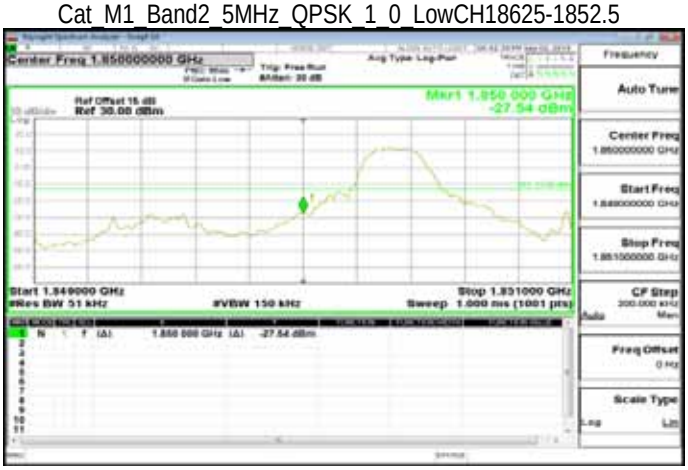
Cat_M1_Band2_5MHz_QPSK_1_5_HighCH19175-1907.5

Cat_M1_Band2_3MHz_QPSK_6_0_HighCH19185-1908.5

Cat_M1_Band2_5MHz_QPSK_6_0_LowCH18625-1852.5




Cat_M1_Band2_5MHz_QPSK_1_0_LowCH18625-1852.5




Cat_M1_Band2_5MHz_QPSK_6_0_HighCH19175-1907.5

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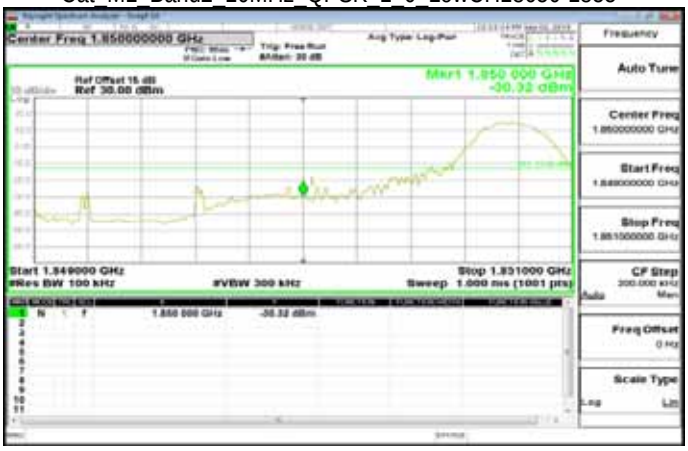
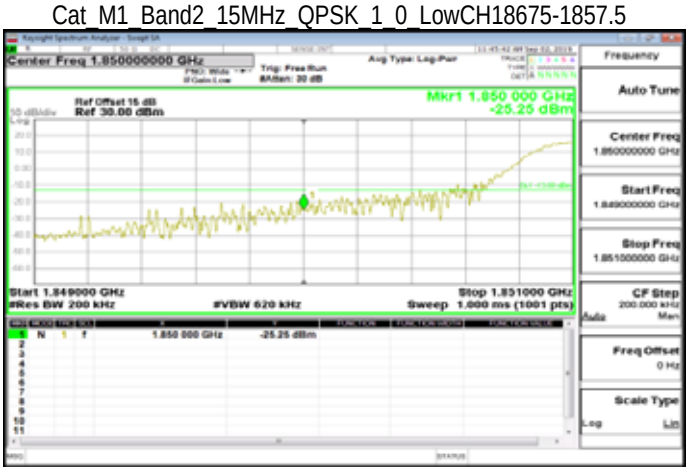
Cat_M1_Band2_10MHz_QPSK_1_0_LowCH18650-1855




Cat_M1_Band2_10MHz_QPSK_6_0_HighCH19150-1905

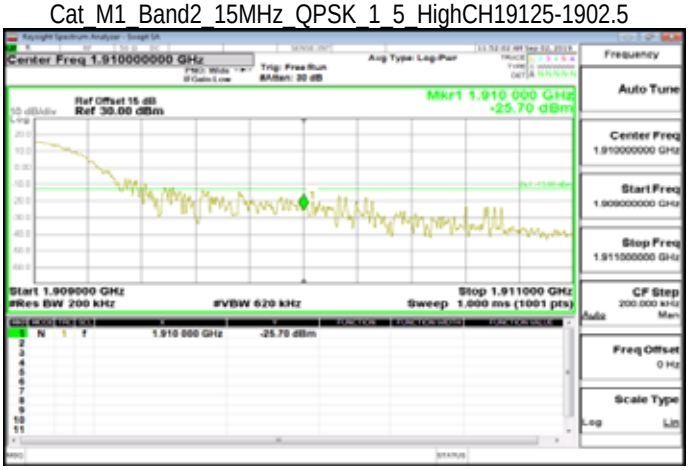
Cat_M1_Band2_10MHz_QPSK_1_5_HighCH19150-1905

Cat_M1_Band2_15MHz_QPSK_1_0_LowCH18675-1857.5




Cat_M1_Band2_10MHz_QPSK_6_0_LowCH18650-1855

Cat_M1_Band2_15MHz_QPSK_1_5_HighCH19125-1902.5

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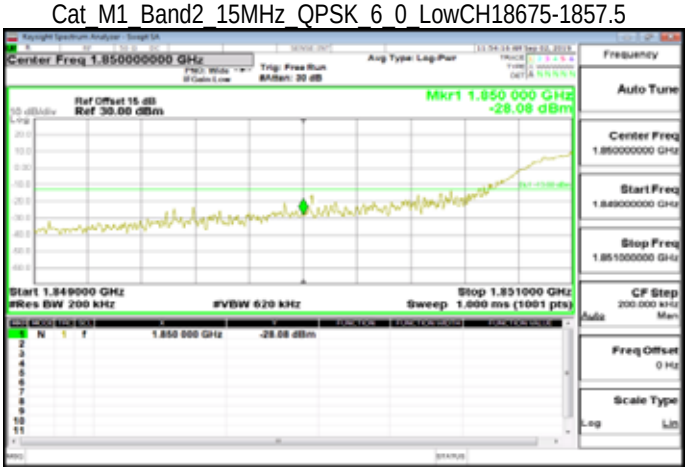
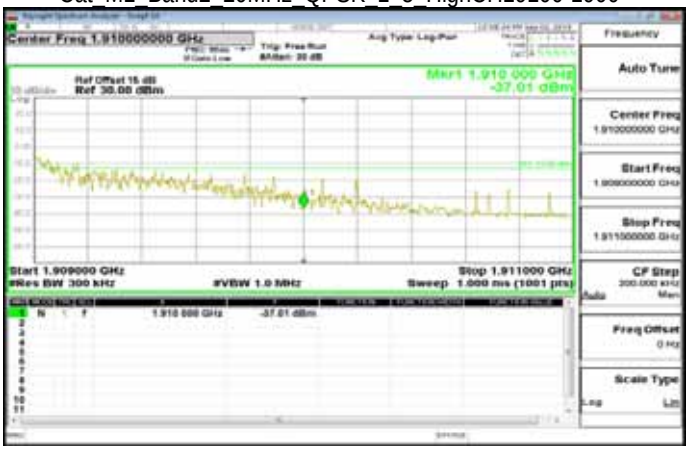
Cat_M1_Band2_15MHz_QPSK_6_0_LowCH18675-1857.5

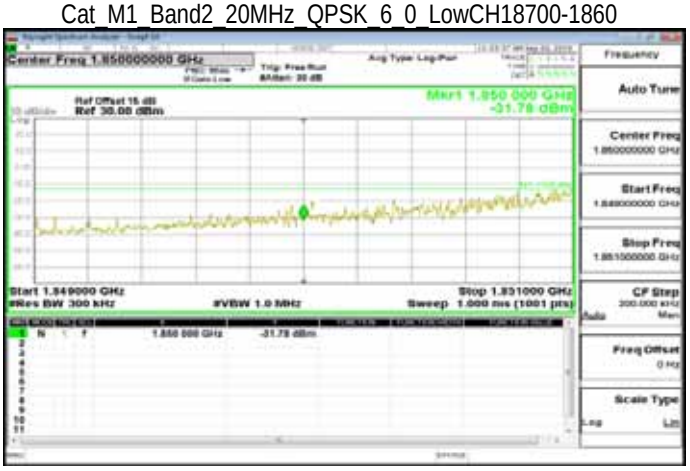



Cat_M1_Band2_20MHz_QPSK_1_5_HighCH19100-1900

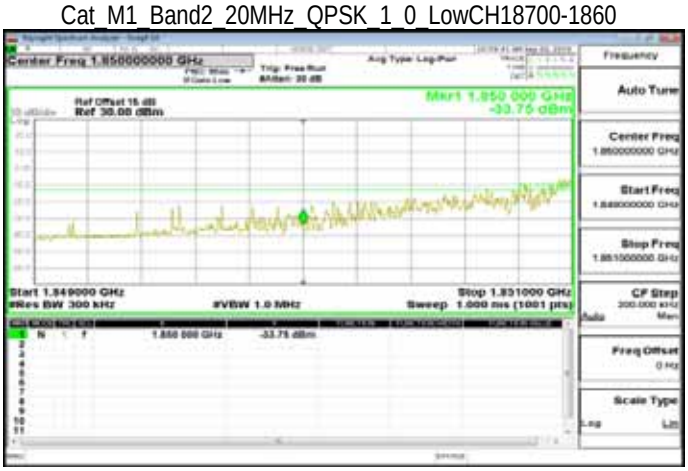



Cat_M1_Band2_15MHz_QPSK_6_0_HighCH19125-1902.5

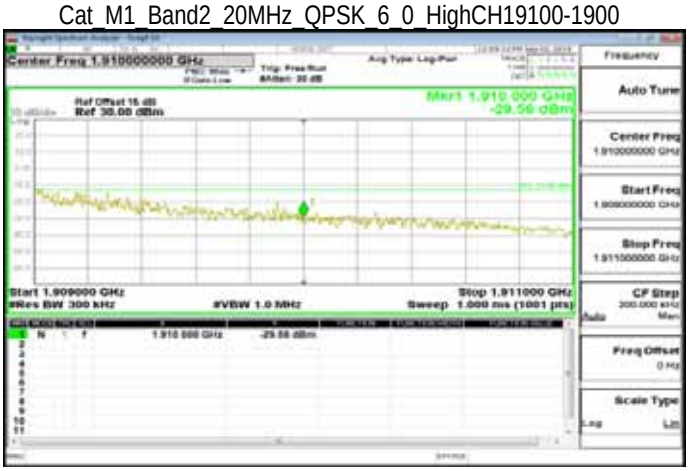
Cat_M1_Band2_20MHz_QPSK_6_0_LowCH18700-1860




Cat_M1_Band2_20MHz_QPSK_1_0_LowCH18700-1860




Cat_M1_Band2_20MHz_QPSK_6_0_HighCH19100-1900

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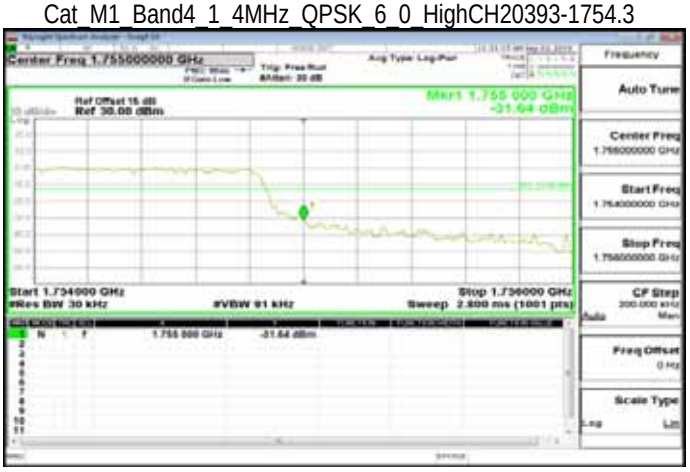
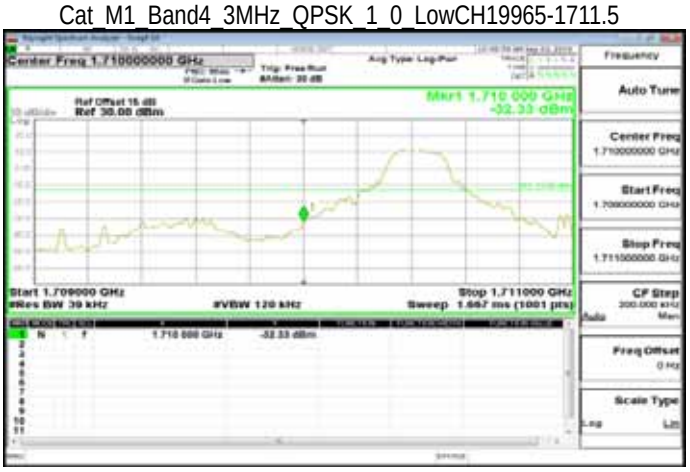
Cat_M1_Band4_1_4MHz_QPSK_1_0_LowCH19957-1710.7

Cat_M1_Band4_1_4MHz_QPSK_6_0_HighCH20393-1754.3




Cat_M1_Band4_1_4MHz_QPSK_1_5_HighCH20393-1754.3

Cat_M1_Band4_3MHz_QPSK_1_0_LowCH19965-1711.5




Cat_M1_Band4_1_4MHz_QPSK_6_0_LowCH19957-1710.7

Cat_M1_Band4_3MHz_QPSK_1_5_HighCH20385-1753.5

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Cat_M1_Band4_3MHz_QPSK_6_0_LowCH19965-1711.5

Cat_M1_Band4_5MHz_QPSK_1_5_HighCH20375-1752.5

Cat_M1_Band4_3MHz_QPSK_6_0_HighCH20385-1753.5

Cat_M1_Band4_5MHz_QPSK_6_0_LowCH19975-1712.5

Cat_M1_Band4_5MHz_QPSK_1_0_LowCH19975-1712.5

Cat_M1_Band4_5MHz_QPSK_6_0_HighCH20375-1752.5

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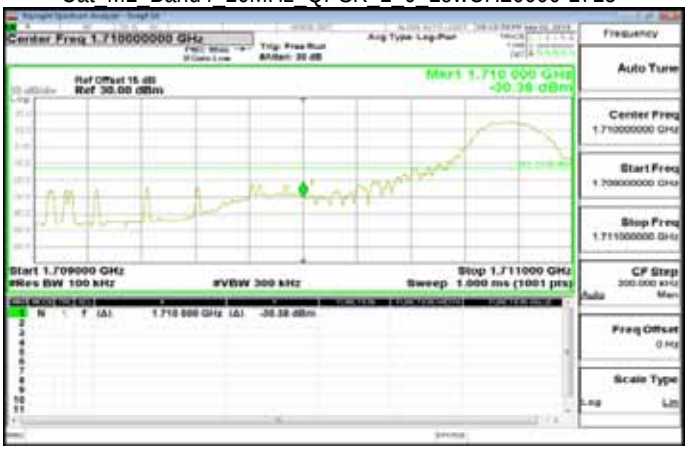
Cat_M1_Band4_10MHz_QPSK_1_0_LowCH20000-1715



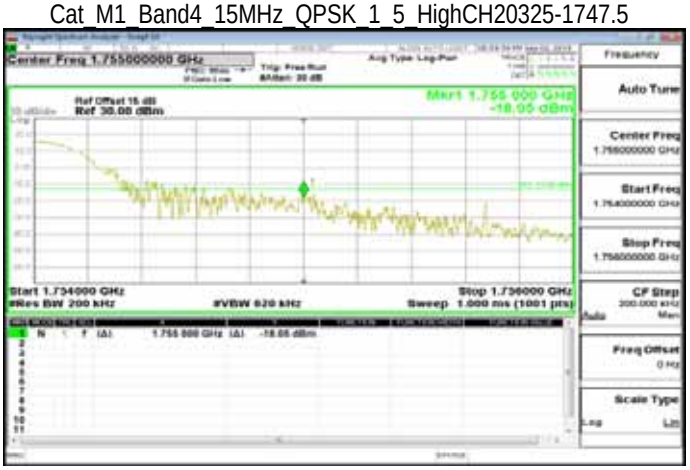

Cat_M1_Band4_10MHz_QPSK_6_0_HighCH20350-1750

Cat_M1_Band4_10MHz_QPSK_1_5_HighCH20350-1750

Cat_M1_Band4_15MHz_QPSK_1_0_LowCH20025-1717.5

Cat_M1_Band4_10MHz_QPSK_6_0_LowCH20000-1715

Cat_M1_Band4_15MHz_QPSK_1_5_HighCH20325-1747.5

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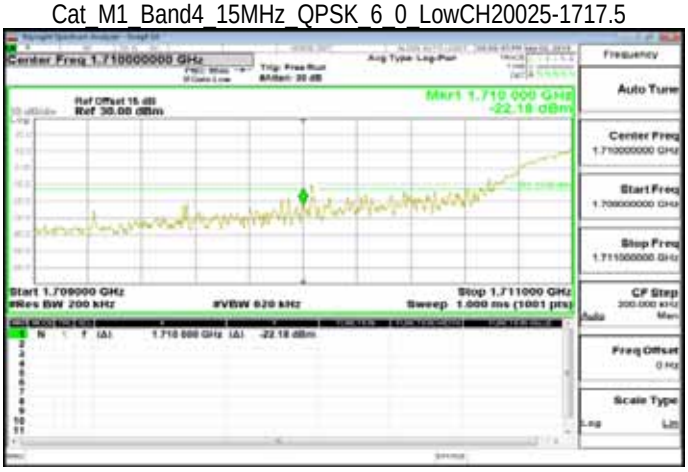
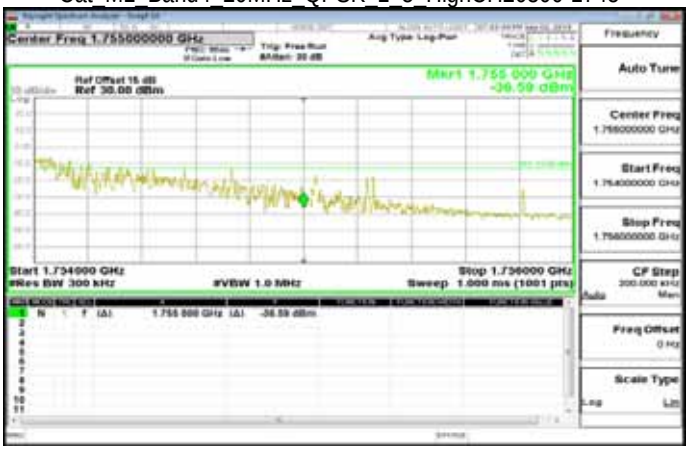
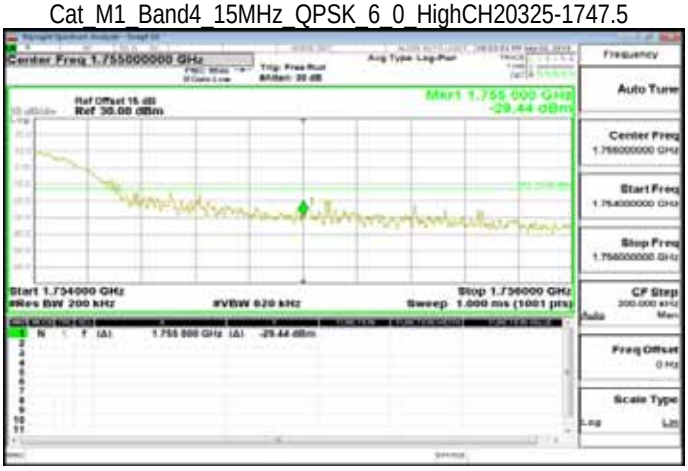
Cat_M1_Band4_15MHz_QPSK_6_0_LowCH20025-1717.5



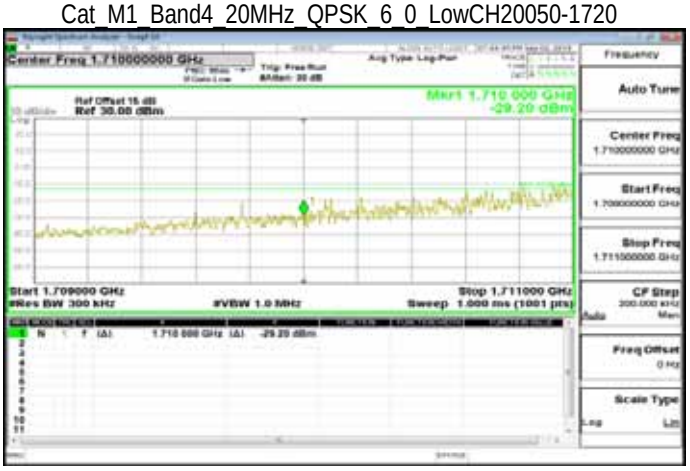

Cat_M1_Band4_20MHz_QPSK_1_5_HighCH20300-1745



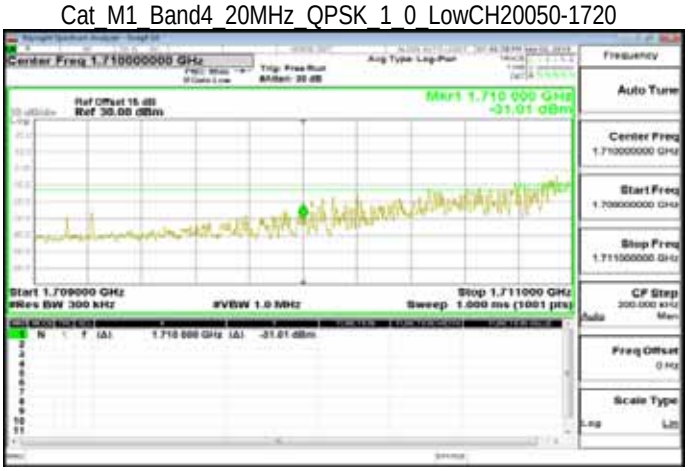

Cat_M1_Band4_15MHz_QPSK_6_0_HighCH20325-1747.5



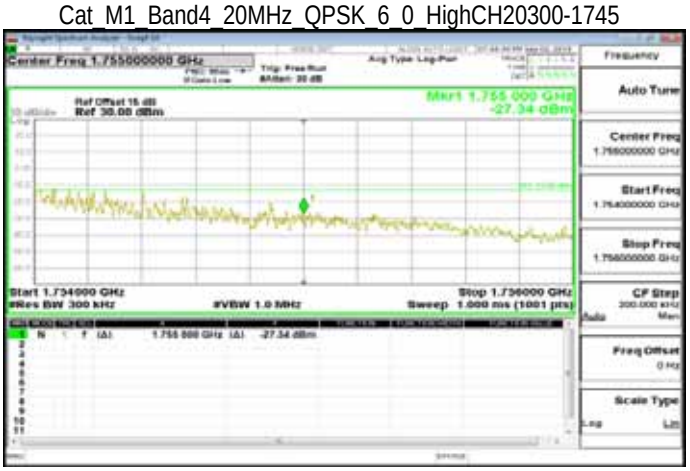

Cat_M1_Band4_20MHz_QPSK_6_0_LowCH20050-1720




Cat_M1_Band4_20MHz_QPSK_1_0_LowCH20050-1720




Cat_M1_Band4_20MHz_QPSK_6_0_HighCH20300-1745

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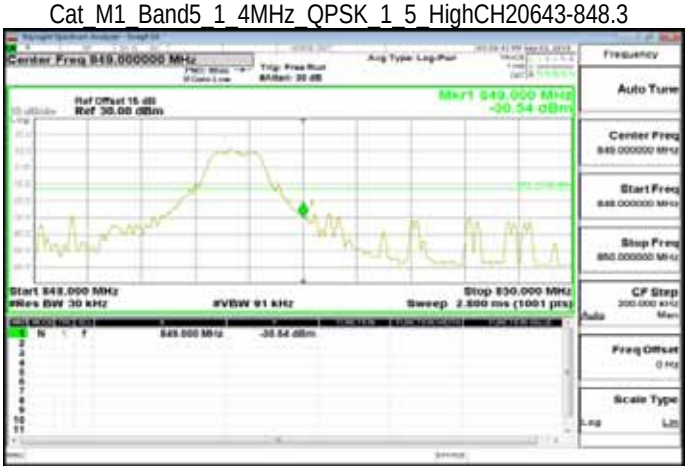
Cat_M1_Band5_1_4MHz_QPSK_1_0_LowCH20407-824.7

Cat_M1_Band5_1_4MHz_QPSK_6_0_HighCH20643-848.3

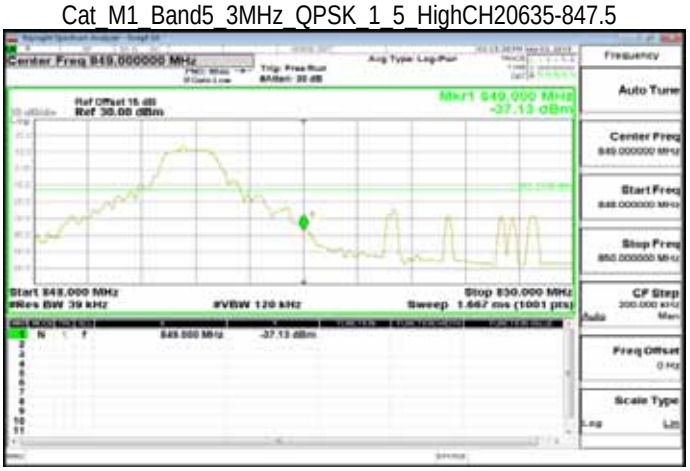
Cat_M1_Band5_1_4MHz_QPSK_1_5_HighCH20643-848.3




Cat_M1_Band5_3MHz_QPSK_1_0_LowCH20415-825.5

Cat_M1_Band5_1_4MHz_QPSK_6_0_LowCH20407-824.7

Cat_M1_Band5_3MHz_QPSK_1_5_HighCH20635-847.5

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Cat_M1_Band5_3MHz_QPSK_6_0_LowCH20415-825.5

Cat_M1_Band5_5MHz_QPSK_1_5_HighCH20625-846.5

Cat_M1_Band5_3MHz_QPSK_6_0_HighCH20635-847.5

Cat_M1_Band5_5MHz_QPSK_6_0_LowCH20425-826.5

Cat_M1_Band5_5MHz_QPSK_1_0_LowCH20425-826.5

Cat_M1_Band5_5MHz_QPSK_6_0_HighCH20625-846.5

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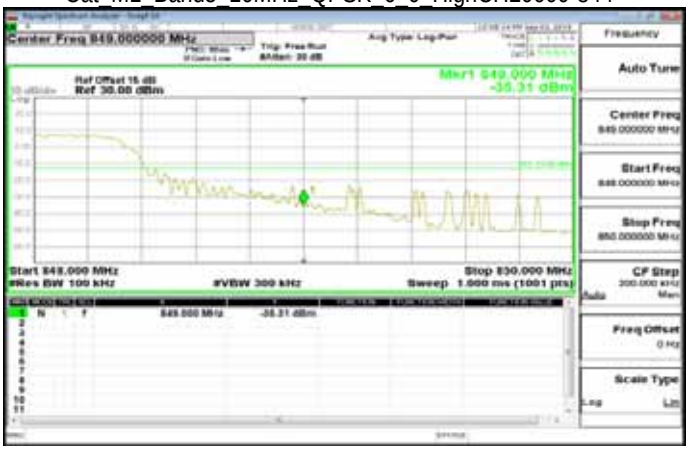
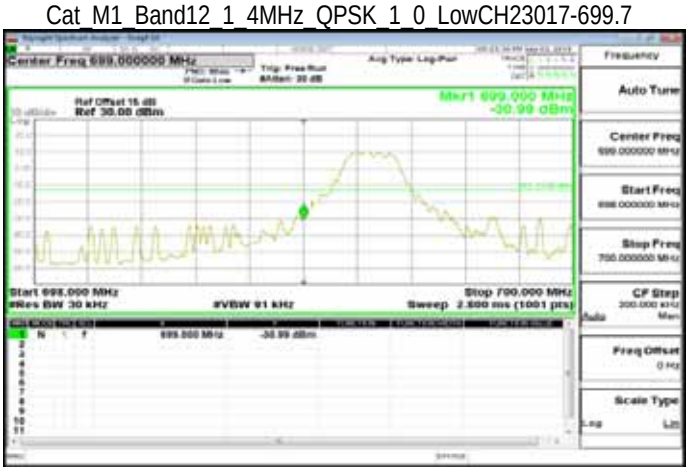
Cat_M1_Band5_10MHz_QPSK_1_0_LowCH20450-829

Cat_M1_Band5_10MHz_QPSK_6_0_HighCH20600-844



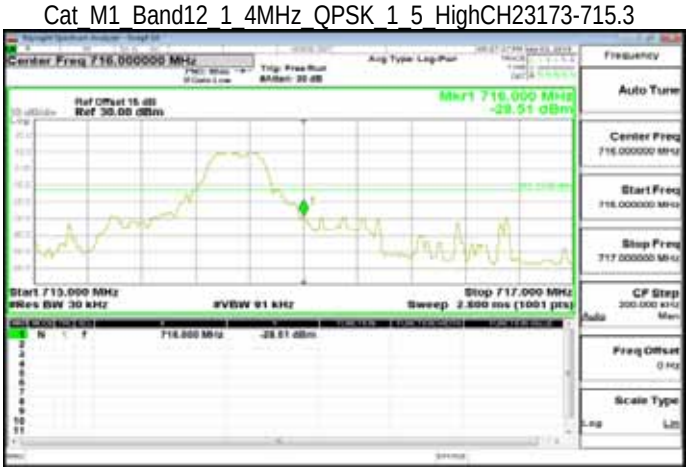

Cat_M1_Band5_10MHz_QPSK_1_5_HighCH20600-844

Cat_M1_Band12_1_4MHz_QPSK_1_0_LowCH23017-699.7




Cat_M1_Band5_10MHz_QPSK_6_0_LowCH20450-829

Cat_M1_Band12_1_4MHz_QPSK_1_5_HighCH23173-715.3

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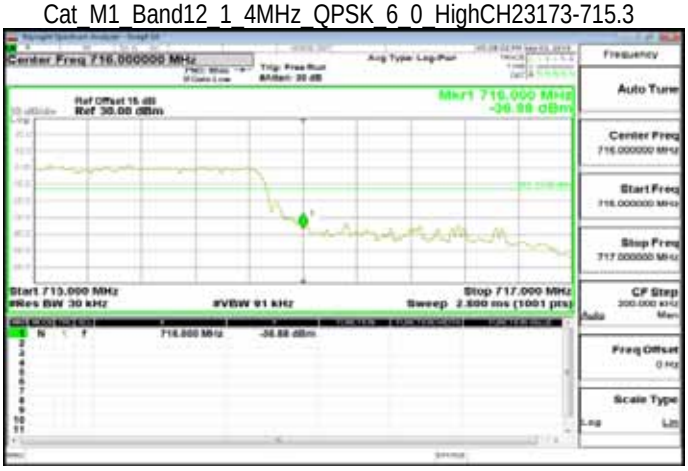
Cat_M1_Band12_1_4MHz_QPSK_6_0_LowCH23017-699.7

Cat_M1_Band12_3MHz_QPSK_1_5_HighCH23165-714.5

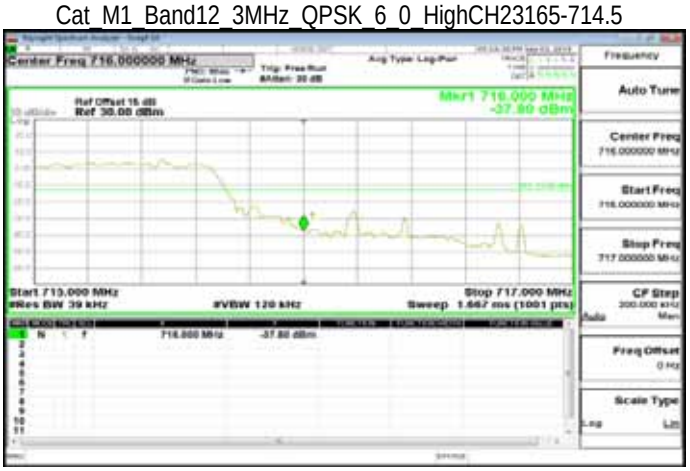
Cat_M1_Band12_1_4MHz_QPSK_6_0_HighCH23173-715.3




Cat_M1_Band12_3MHz_QPSK_6_0_LowCH23025-700.5

Cat_M1_Band12_3MHz_QPSK_1_0_LowCH23025-700.5

Cat_M1_Band12_3MHz_QPSK_6_0_HighCH23165-714.5

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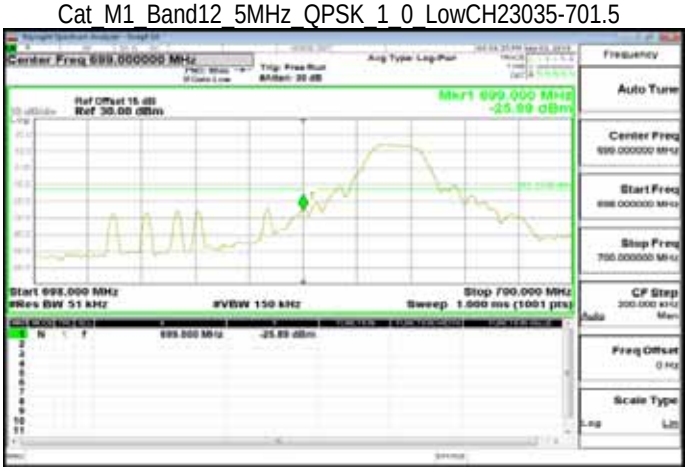
Cat_M1_Band12_5MHz_QPSK_1_0_LowCH23035-701.5




Cat_M1_Band12_5MHz_QPSK_6_0_HighCH23155-713.5

Cat_M1_Band12_5MHz_QPSK_1_5_HighCH23155-713.5

Cat_M1_Band12_10MHz_QPSK_1_0_LowCH23060-704

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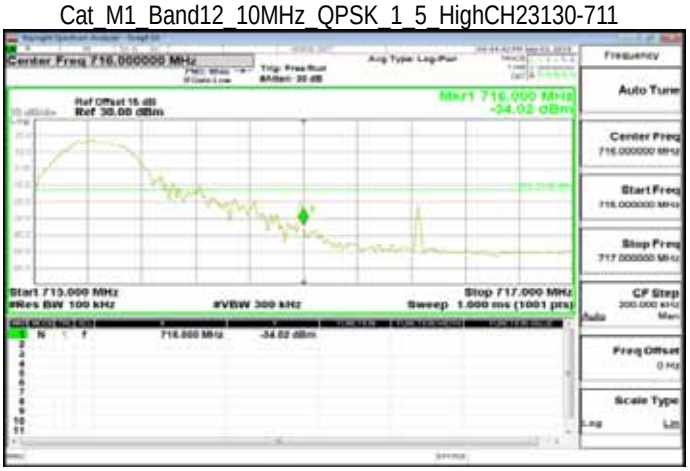
Cat_M1_Band12_10MHz_QPSK_1_5_HighCH23130-711

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