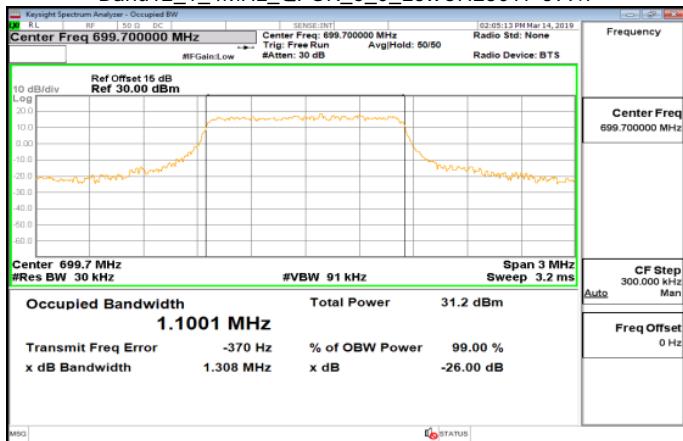
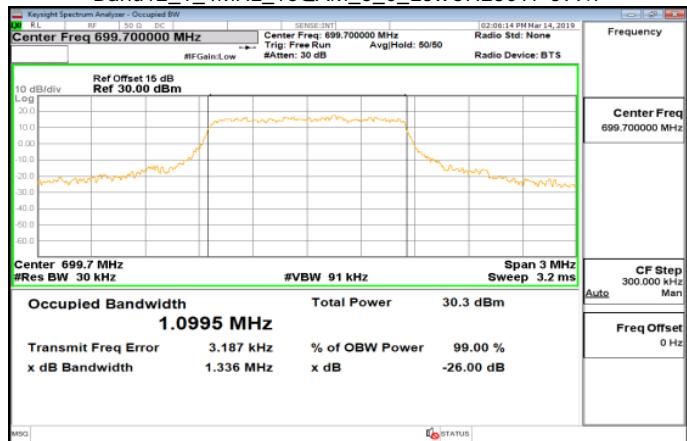


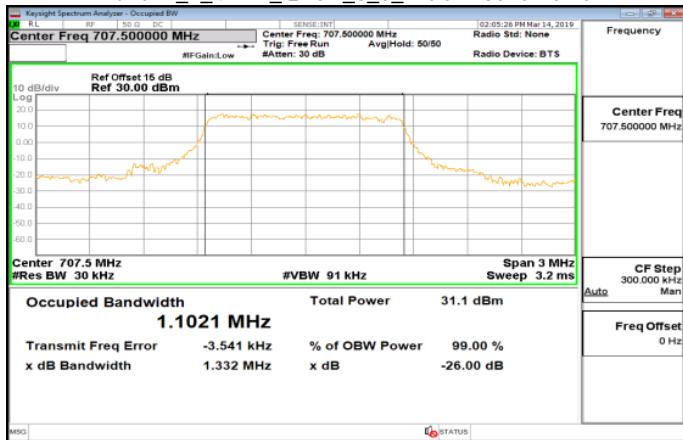
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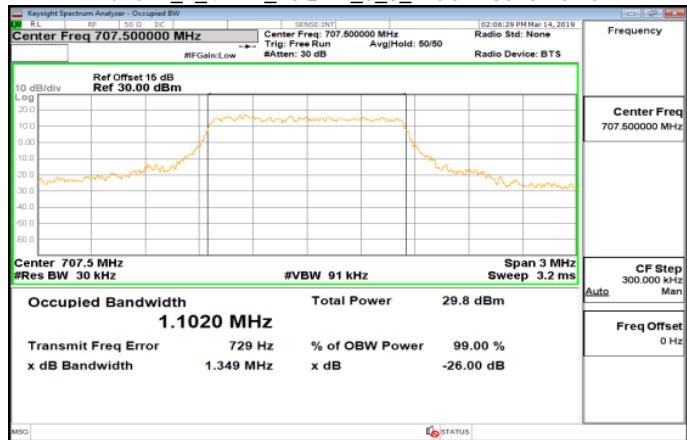
Band12_1_4MHz_16QAM_6_0_LowCH23017-699.7



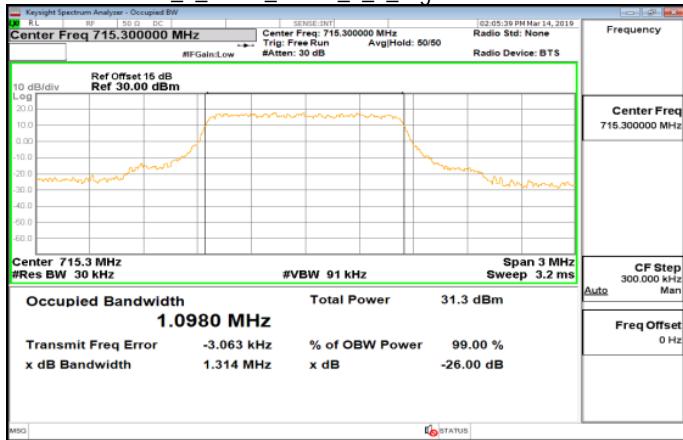
Band12_1_4MHz_QPSK_6_0_MidCH23095-707.5



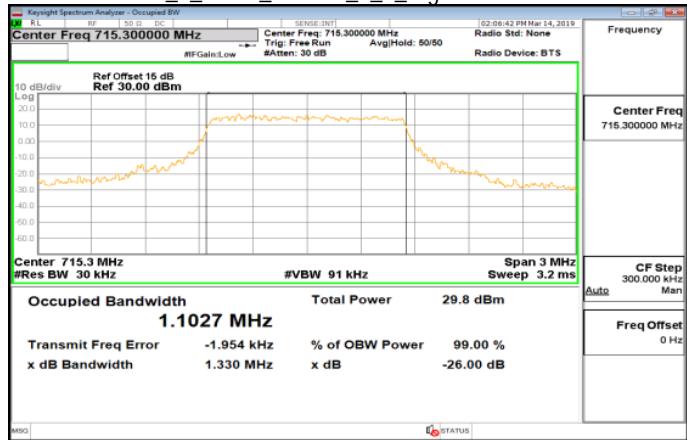
Band12_1_4MHz_16QAM_6_0_MidCH23095-707.5



Band12_1_4MHz_QPSK_6_0_HighCH23173-715.3



Band12_1_4MHz_16QAM_6_0_HighCH23173-715.3

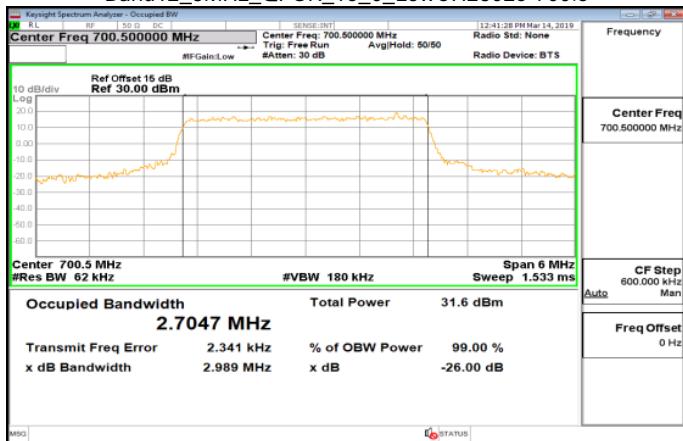


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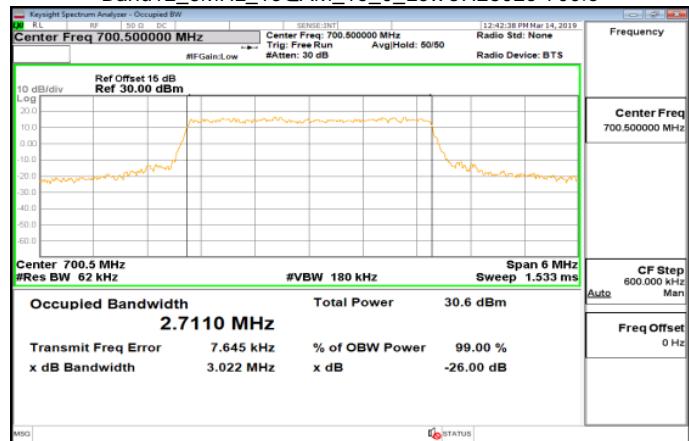
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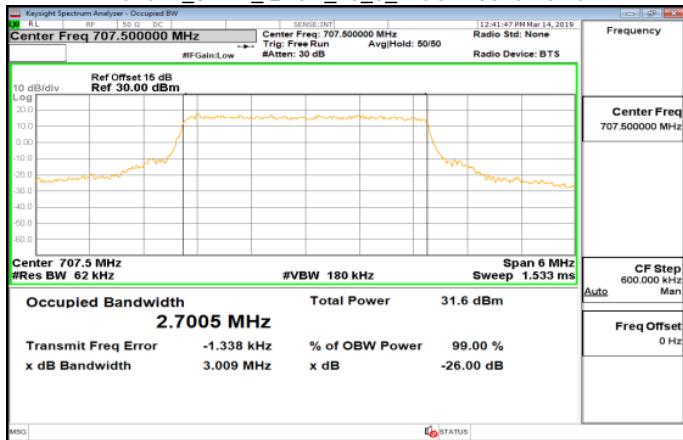
Band12_3MHz_QPSK_15_0_LowCH23025-700.5



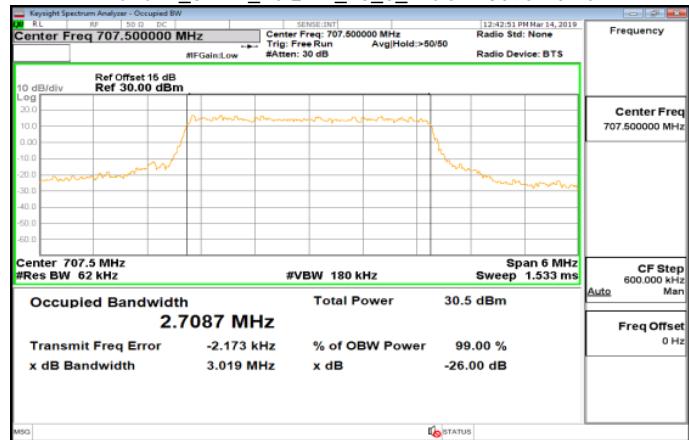
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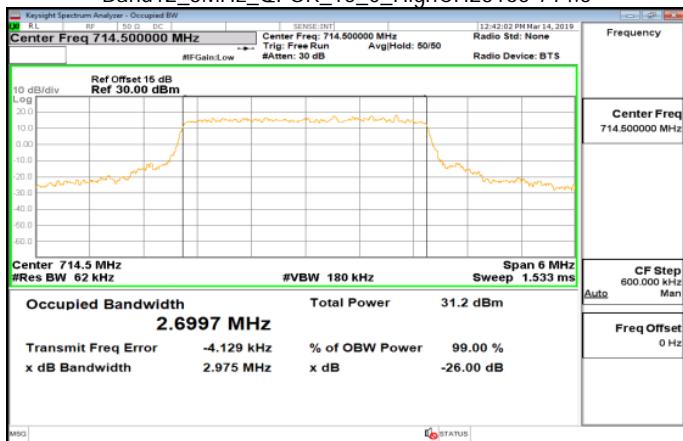
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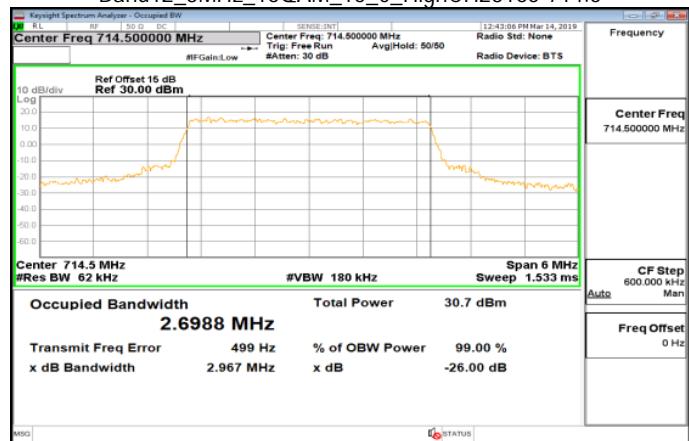
Band12_3MHz_16QAM_15_0_MidCH23095-707.5



Band12_3MHz_QPSK_15_0_HighCH23165-714.5



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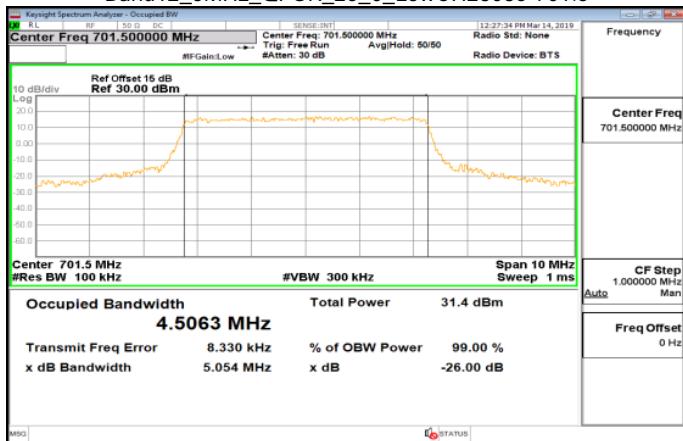


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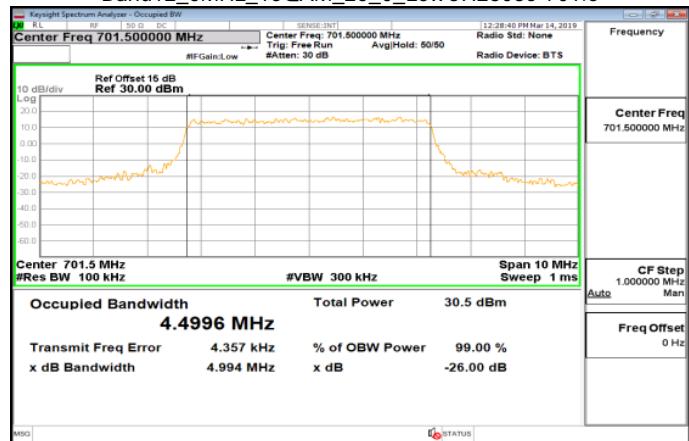
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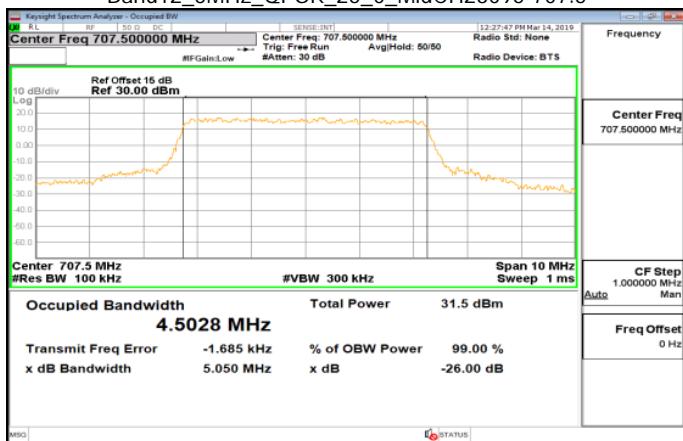
Band12_5MHz_QPSK_25_0_LowCH23035-701.5



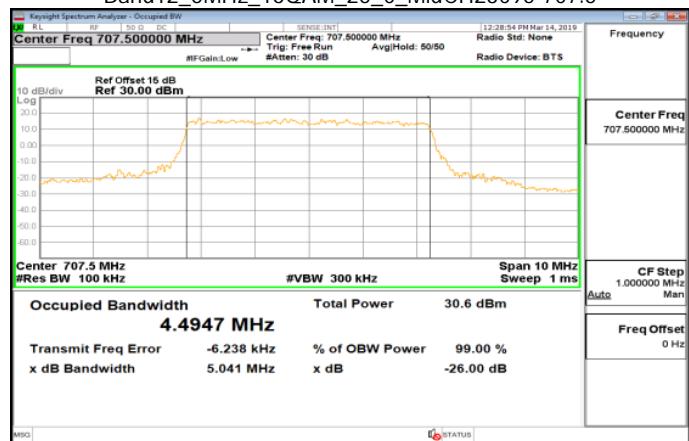
Band12_5MHz_16QAM_25_0_LowCH23035-701.5



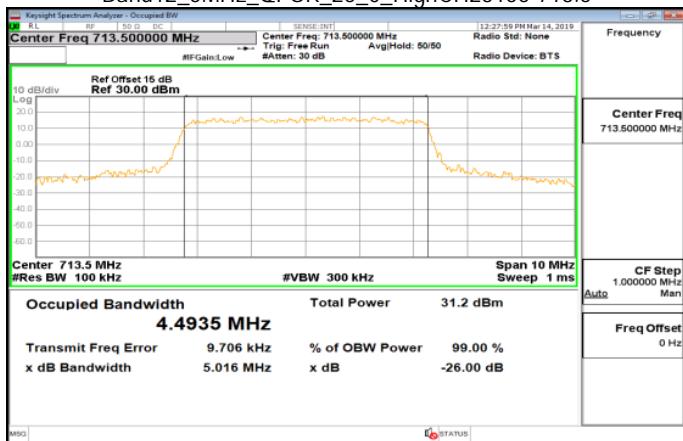
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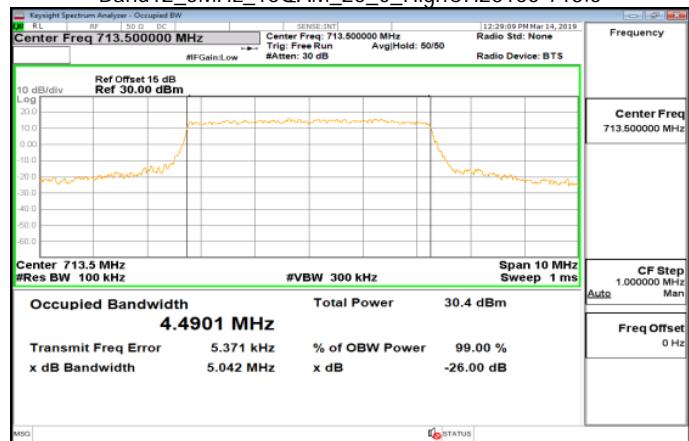
Band12_5MHz_16QAM_25_0_MidCH23095-707.5



Band12_5MHz_QPSK_25_0_HighCH23155-713.5



Band12_5MHz_16QAM_25_0_HighCH23155-713.5

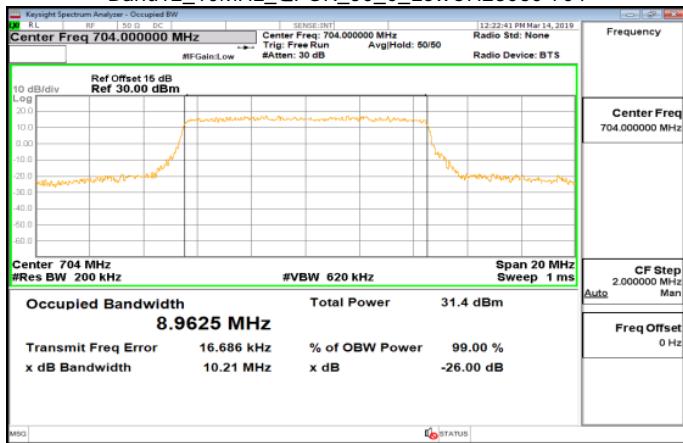


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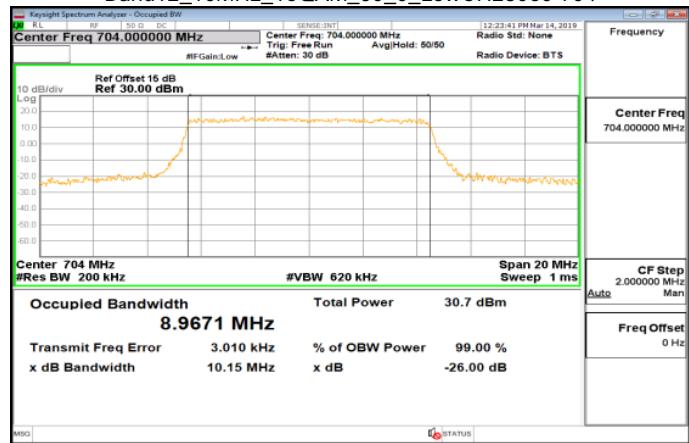
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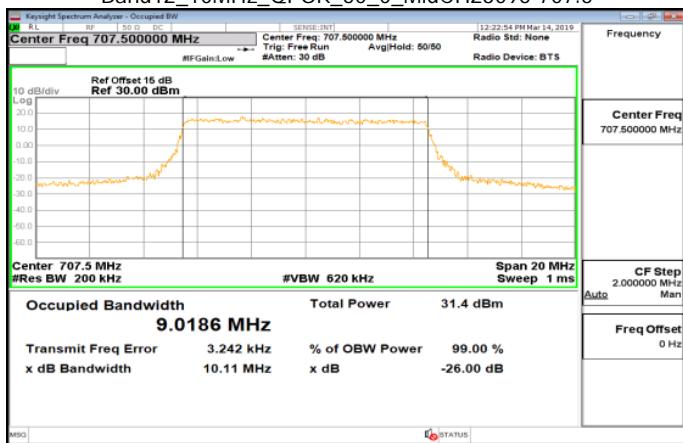
Band12_10MHz_QPSK_50_0_LowCH23060-704



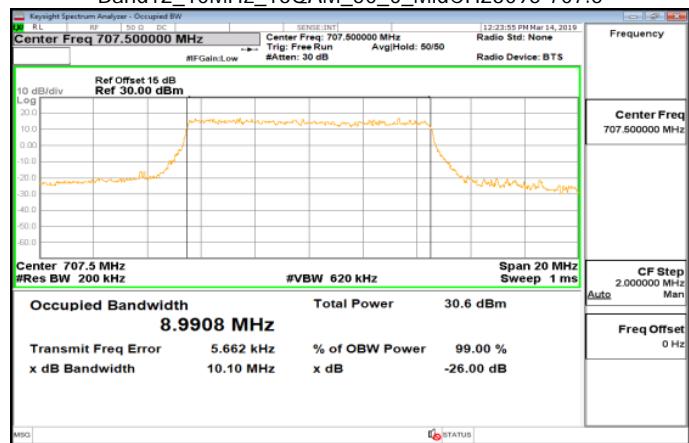
Band12_10MHz_16QAM_50_0_LowCH23060-704



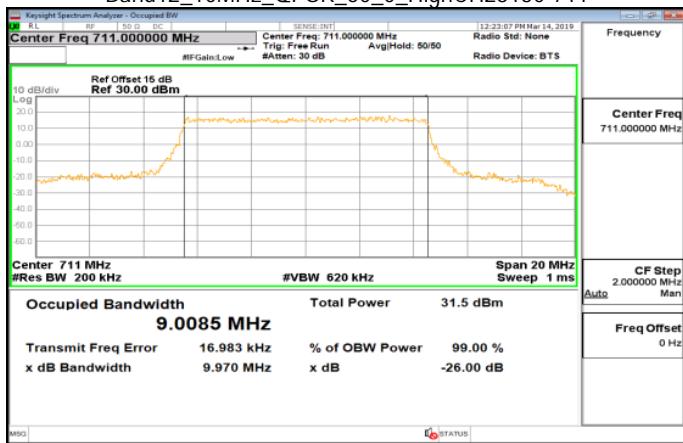
Band12_10MHz_QPSK_50_0_MidCH23095-707.5



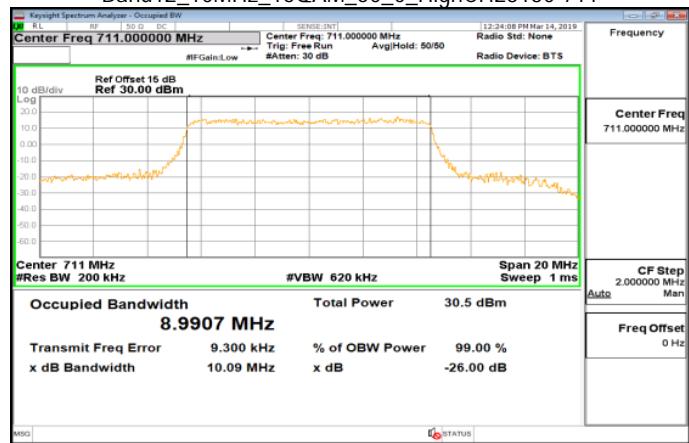
Band12_10MHz_16QAM_50_0_MidCH23095-707.5



Band12_10MHz_QPSK_50_0_HighCH23130-711



Band12_10MHz_16QAM_50_0_HighCH23130-711



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8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1. Standard Applicable

FCC §22.917(a), §24.238(a), 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(g) (h)

Compliance 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.

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

FCC §27.53(h) (3)

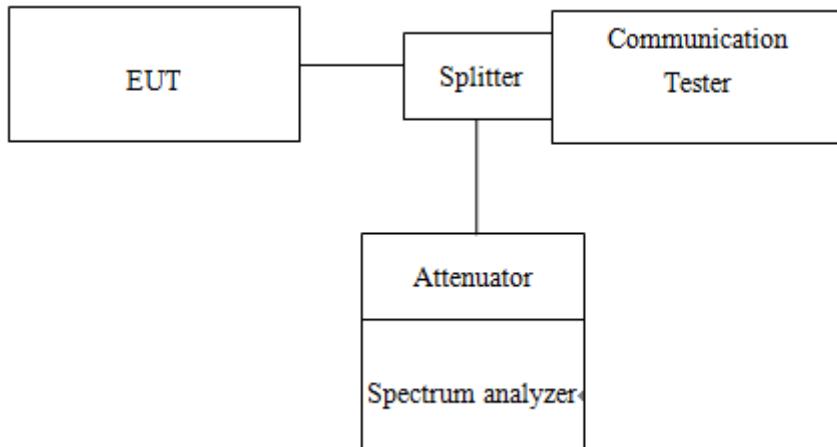
Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission 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.

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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 \geq 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

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY57120290	02/13/2019	02/12/2020
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/04/2018	12/03/2019
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2019	01/01/2020
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
Coaxial Cables	N/A	WK CE Cable	N/A	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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Band Edge

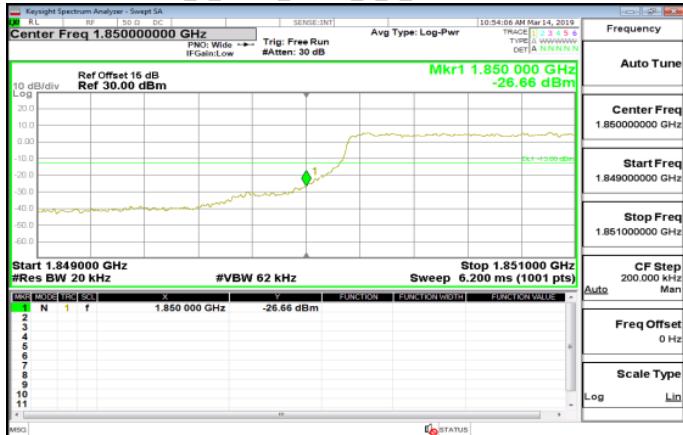
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LTE\Band2_1_4MHz_QPSK_1_5_HighCH19193-1909.3



LTE\Band2_1_4MHz_QPSK_6_0_LowCH18607-1850.7



LTE\Band2_1_4MHz_QPSK_6_0_HighCH19193-1909.3



LTE\Band2_3MHz_QPSK_1_0_LowCH18615-1851.5



LTE\Band2_3MHz_QPSK_1_14_HighCH19185-1908.5

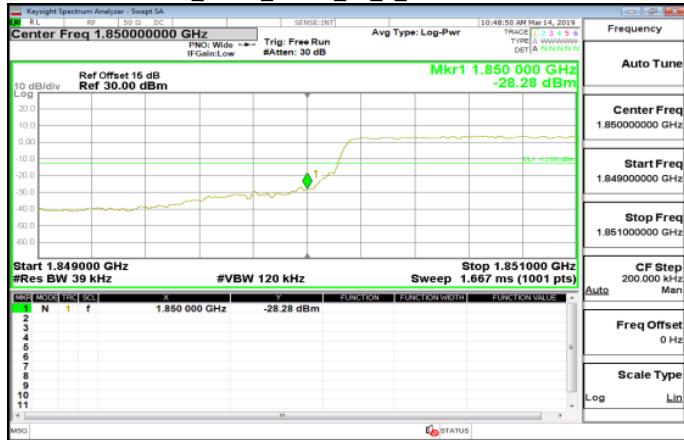


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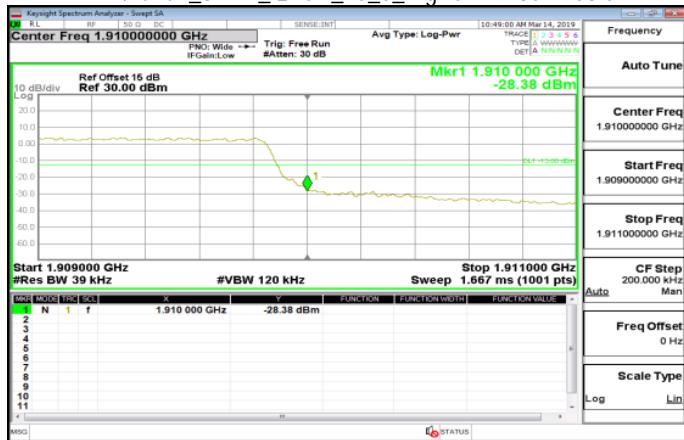
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LTE\Band2_3MHz_QPSK_15_0_LowCH18615-1851.5



LTE\Band2_3MHz_QPSK_15_0_HighCH19185-1908.5



LTE\Band2_5MHz_QPSK_1_0_LowCH18625-1852.5



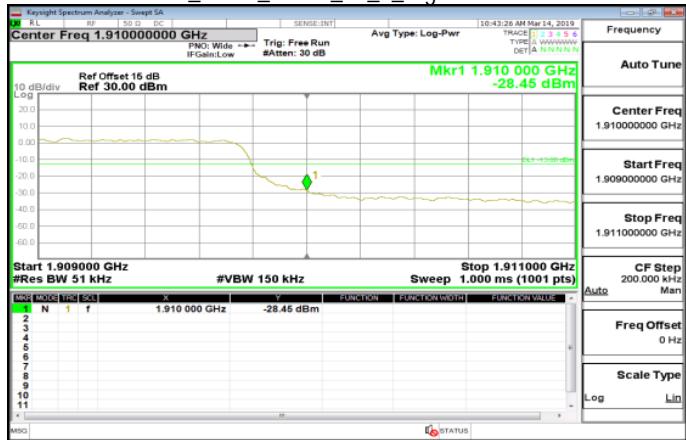
LTE\Band2_5MHz_QPSK_1_24_HighCH19175-1907.5



LTE\Band2_5MHz_QPSK_25_0_LowCH18625-1852.5



LTE\Band2_5MHz_QPSK_25_0_HighCH19175-1907.5



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LTE\Band2_10MHz_QPSK_1_0_LowCH18650-1855



LTE\Band2_10MHz_QPSK_50_0_HighCH19150-1905



LTE\Band2_10MHz_QPSK_1_49_HighCH19150-1905



LTE\Band2_15MHz_QPSK_1_0_LowCH18675-1857.5



LTE\Band2_10MHz_QPSK_50_0_LowCH18650-1855



LTE\Band2_15MHz_QPSK_1_74_HighCH19125-1902.5

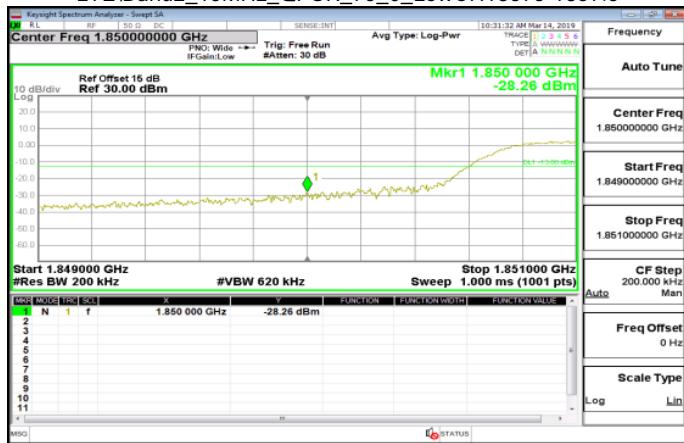


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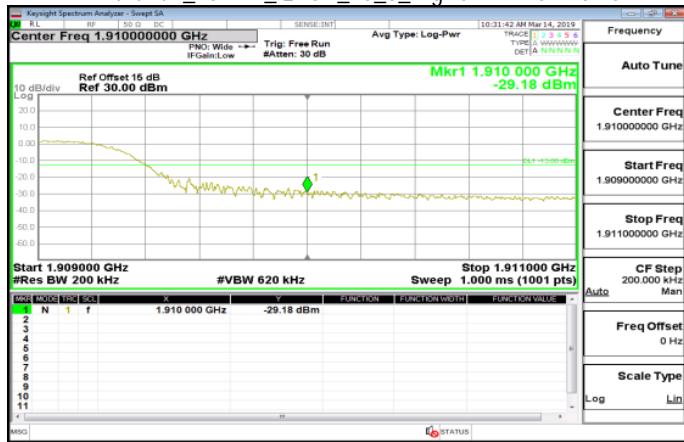
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LTE\Band2_15MHz_QPSK_75_0_LowCH18675-1857.5



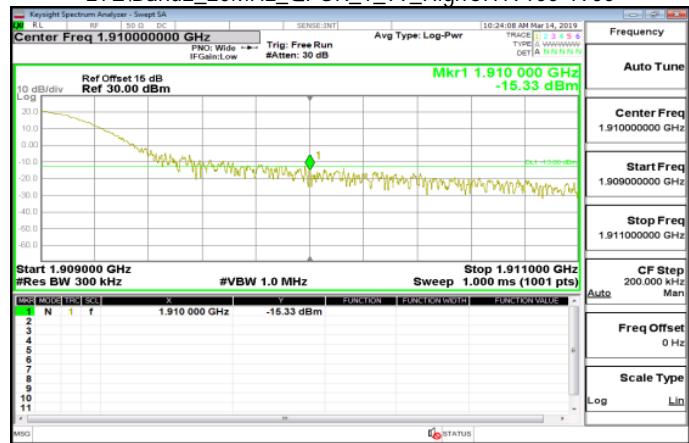
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LTE\Band2_20MHz_QPSK_1_0_LowCH18700-1860



LTE\Band2_20MHz_QPSK_1_99_HighCH19100-1900



LTE\Band2_20MHz_QPSK_100_0_LowCH18700-1860



LTE\Band2_20MHz_QPSK_100_0_HighCH19100-1900



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LTE\Band4_1_4MHz_QPSK_1_0_LowCH19957-1710.7



LTE\Band4_1_4MHz_QPSK_1_5_HighCH20393-1754.3



LTE\Band4_1_4MHz_QPSK_6_0_LowCH19957-1710.7



LTE\Band4_1_4MHz_QPSK_6_0_HighCH20393-1754.3



LTE\Band4_3MHz_QPSK_1_0_LowCH19965-1711.5



LTE\Band4_3MHz_QPSK_1_14_HighCH20385-1753.5

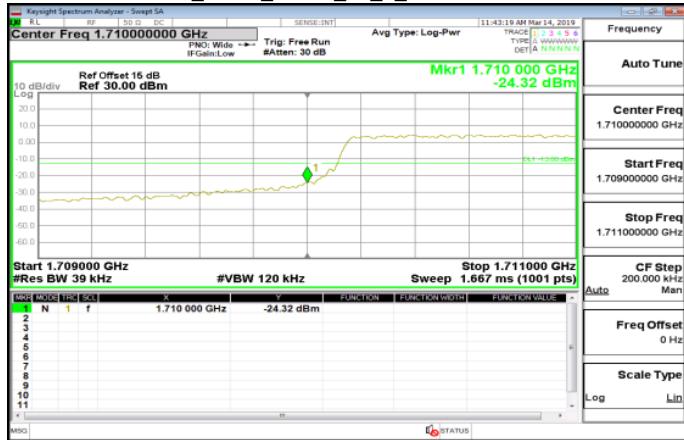


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LTE\Band4_3MHz_QPSK_15_0_LowCH19965-1711.5



LTE\Band4_10MHz_QPSK_1_0_LowCH20000-1715



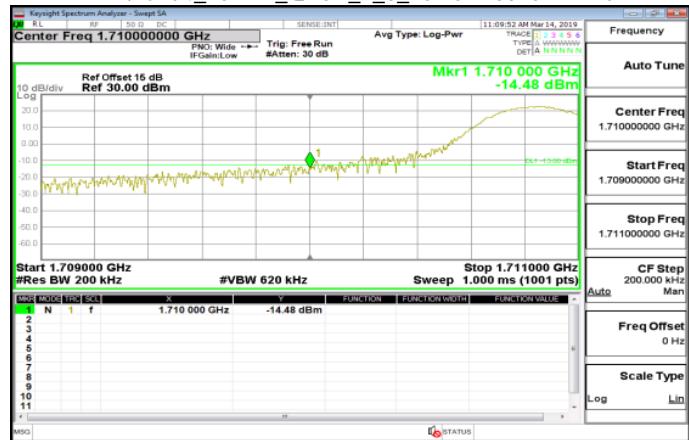
LTE\Band4_10MHz_QPSK_50_0_HighCH20350-1750



LTE\Band4_10MHz_QPSK_1_49_HighCH20350-1750



LTE\Band4_15MHz_QPSK_1_0_LowCH20025-1715



LTE\Band4_10MHz_QPSK_50_0_LowCH20000-1715



LTE\Band4_15MHz_QPSK_1_74_HighCH20325-1747.5



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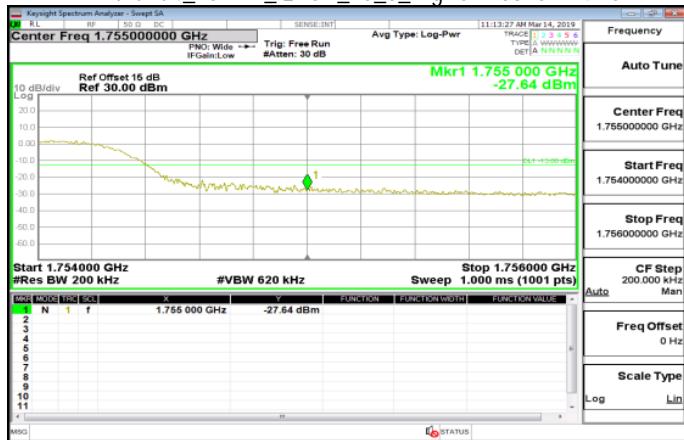
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LTE\Band4_15MHz_QPSK_75_0_LowCH20025-1717.5



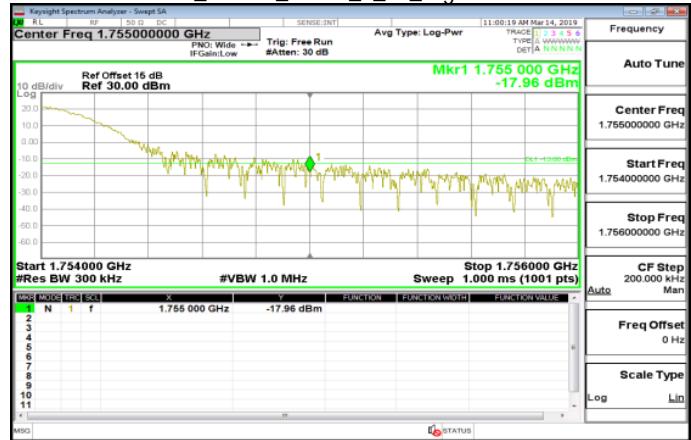
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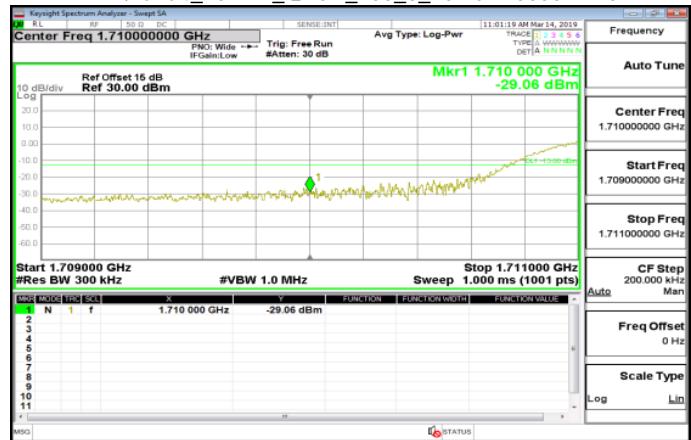
LTE\Band4_20MHz_QPSK_1_0_LowCH20050-1720



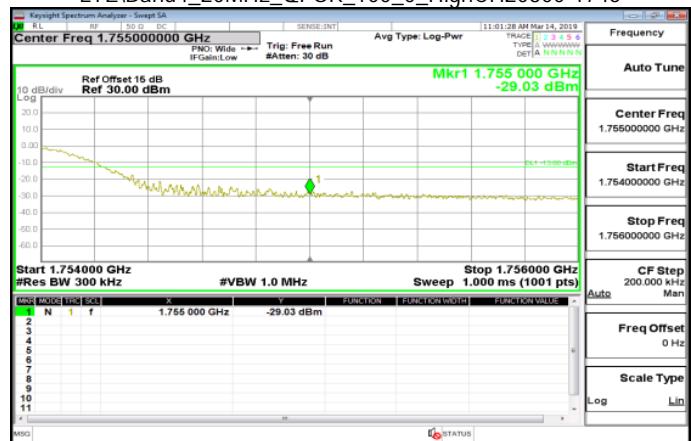
LTE\Band4_20MHz_QPSK_1_99_HighCH20300-1745



LTE\Band4_20MHz_QPSK_100_0_LowCH20050-1720



LTE\Band4_20MHz_QPSK_1_0_HighCH20300-1745



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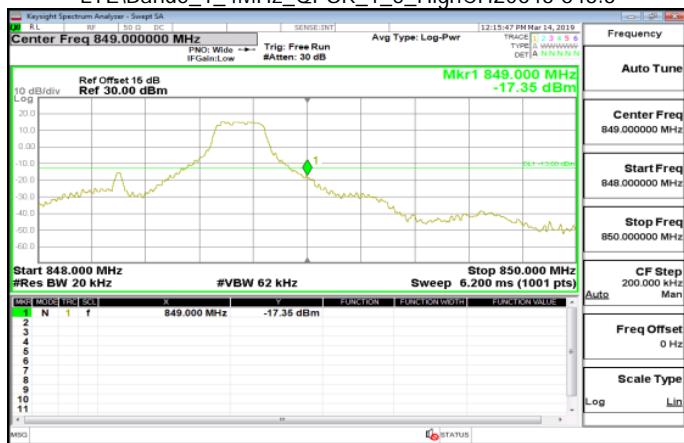
LTE\Band5_1_4MHz_QPSK_1_0_LowCH20407-824.7



LTE\Band5_1_4MHz_QPSK_6_0_HighCH20643-848.3



LTE\Band5_1_4MHz_QPSK_1_5_HighCH20643-848.3



LTE\Band5_3MHz_QPSK_1_0_LowCH20415-825.5



LTE\Band5_1_4MHz_QPSK_6_0_LowCH20407-824.7



LTE\Band5_3MHz_QPSK_1_14_HighCH20635-847.5

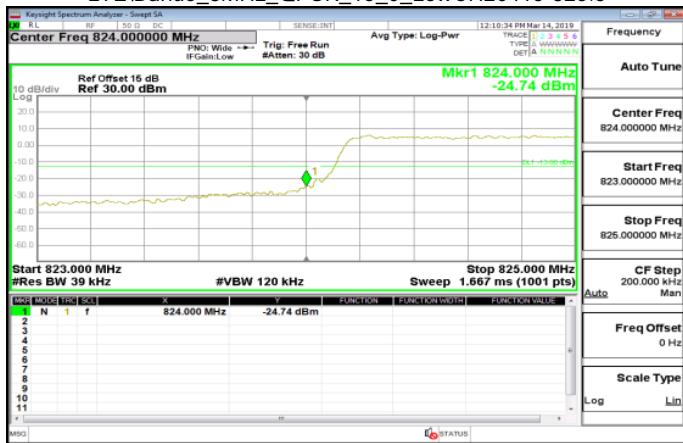


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LTE\Band5_3MHz_QPSK_15_0_LowCH20415-825.5



LTE\Band5_3MHz_QPSK_15_0_HighCH20635-847.5



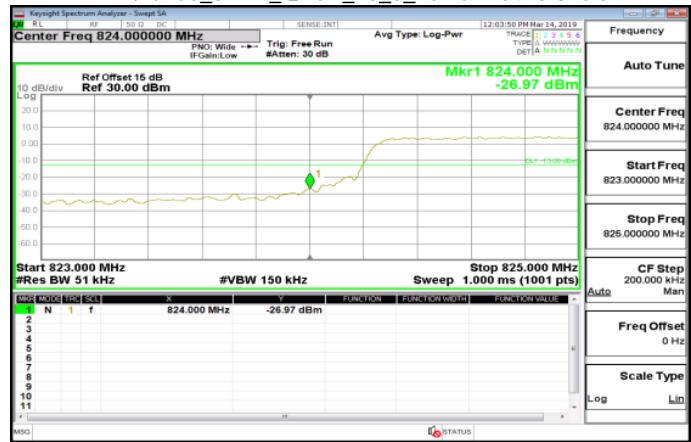
LTE\Band5_5MHz_QPSK_1_0_LowCH20425-826.5



LTE\Band5_5MHz_QPSK_1_24_HighCH20625-846.5



LTE\Band5_5MHz_QPSK_25_0_LowCH20425-826.5



LTE\Band5_5MHz_QPSK_25_0_HighCH20625-846.5



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LTE\Band5_10MHz_QPSK_1_0_LowCH20450-829



LTE\Band5_10MHz_QPSK_50_0_HighCH20600-844



LTE\Band5_10MHz_QPSK_1_49_HighCH20600-844



LTE\Band5_10MHz_QPSK_50_0_LowCH20450-829



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Band12_1_4MHz_QPSK_1_0_LowCH23017-699.7



Band12_1_4MHz_QPSK_6_0_HighCH23173-715.3



Band12_1_4MHz_QPSK_1_5_HighCH23173-715.3



Band12_3MHz_QPSK_1_0_LowCH23025-700.5



Band12_1_4MHz_QPSK_6_0_LowCH23017-699.7



Band12_3MHz_QPSK_1_14_HighCH23165-714.5



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Band12_3MHz_QPSK_15_0_LowCH23025-700.5



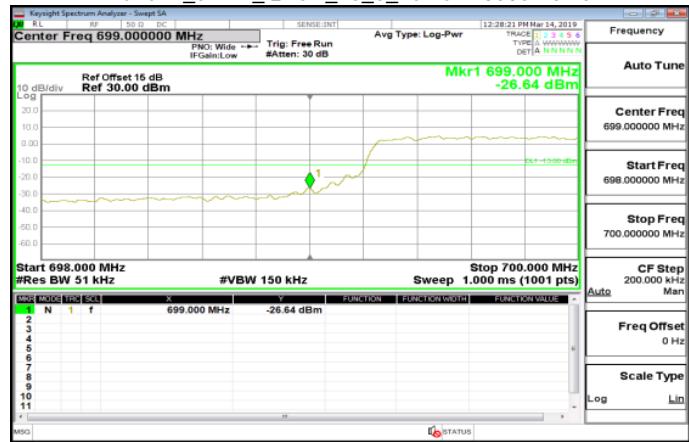
Band12_5MHz_QPSK_1_24_HighCH23155-713.5



Band12_3MHz_QPSK_15_0_HighCH23165-714.5



Band12_5MHz_QPSK_25_0_LowCH23035-701.5



Band12_5MHz_QPSK_1_0_LowCH23035-701.5



Band12_5MHz_QPSK_25_0_HighCH23155-713.5



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