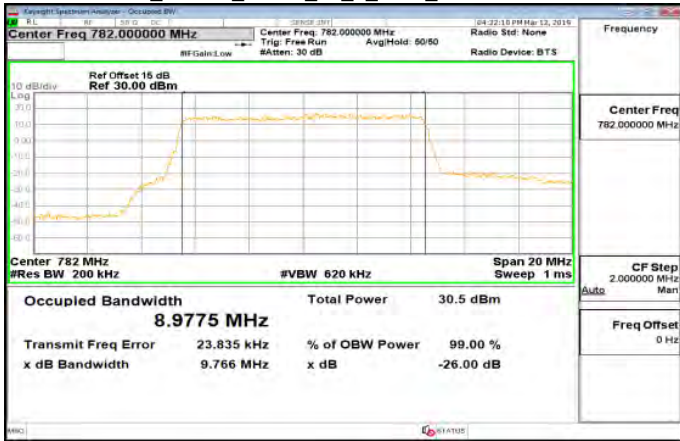
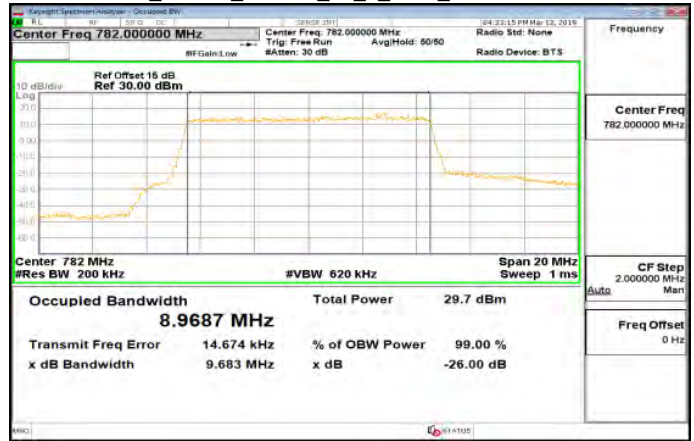


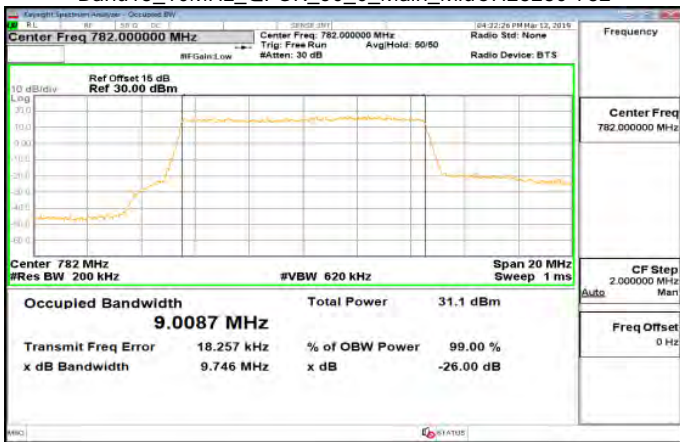
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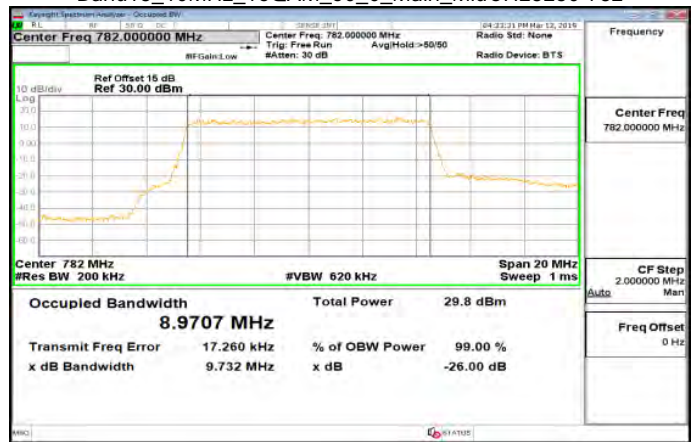
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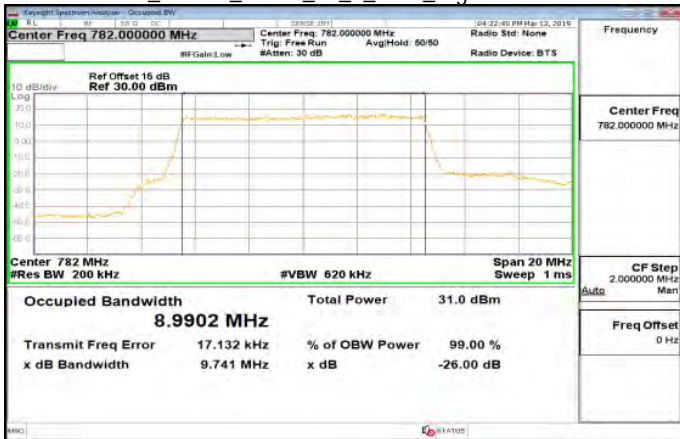
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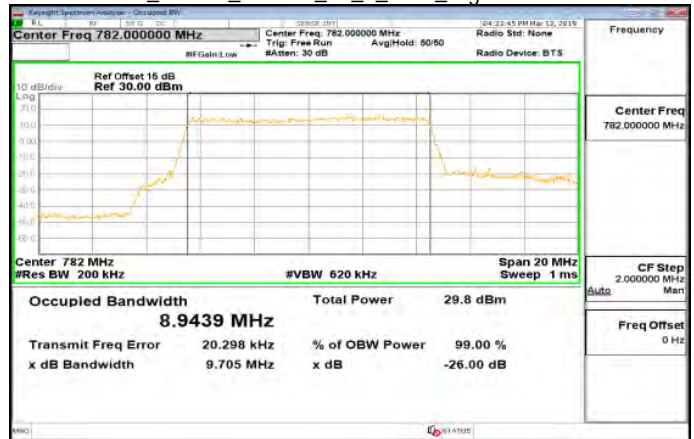
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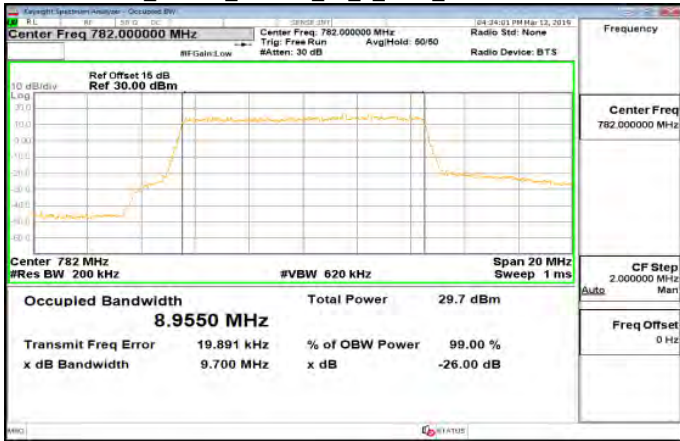


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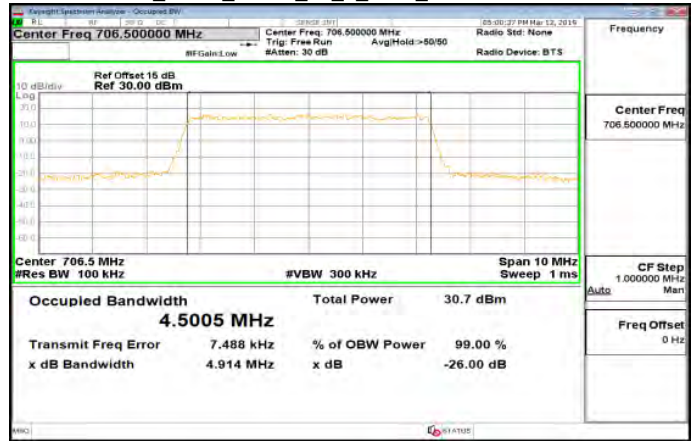
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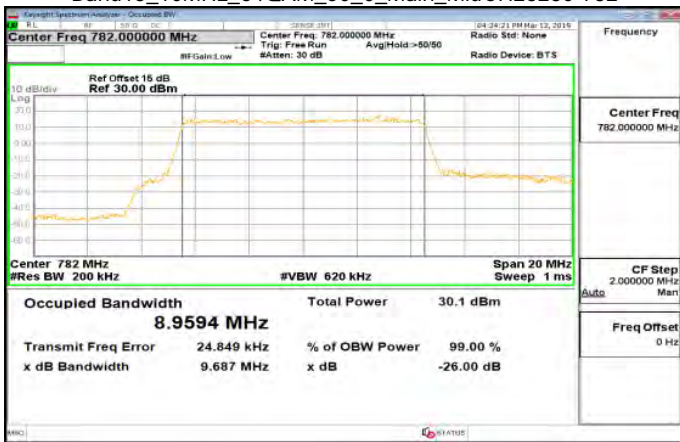
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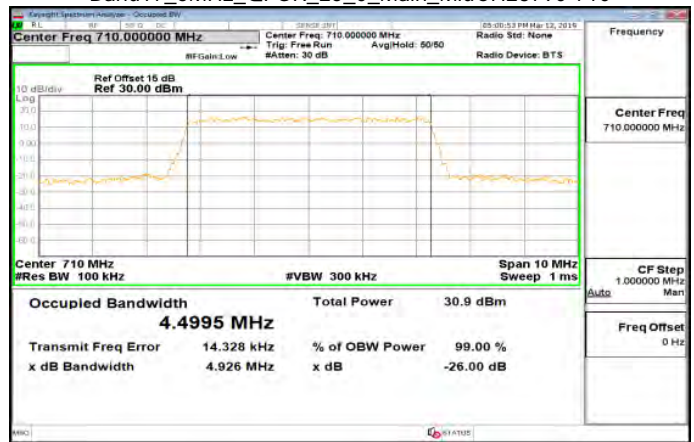
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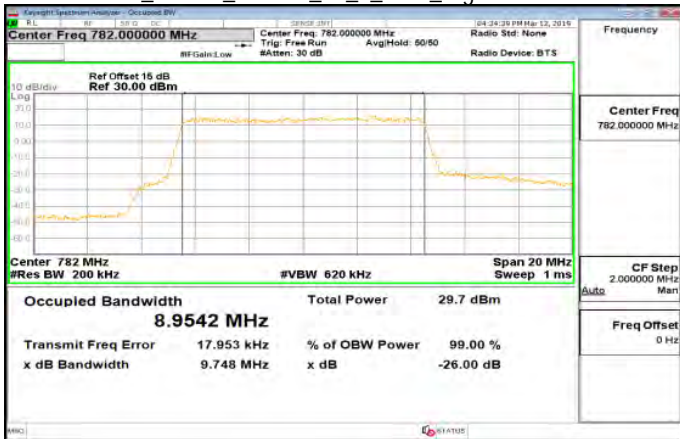
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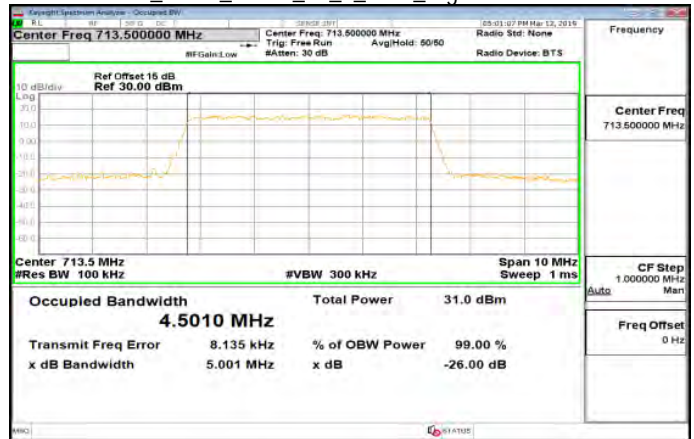
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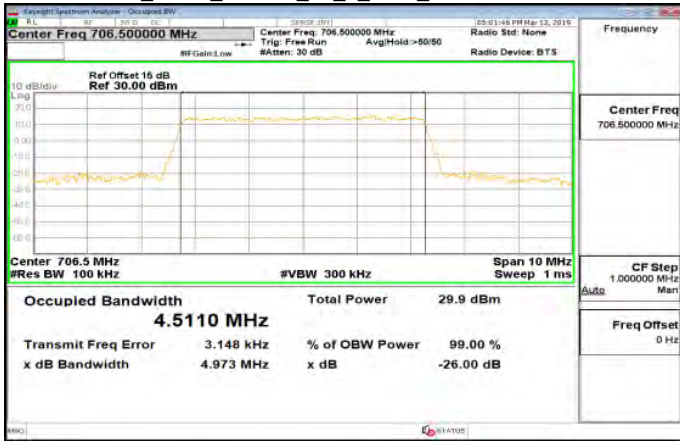


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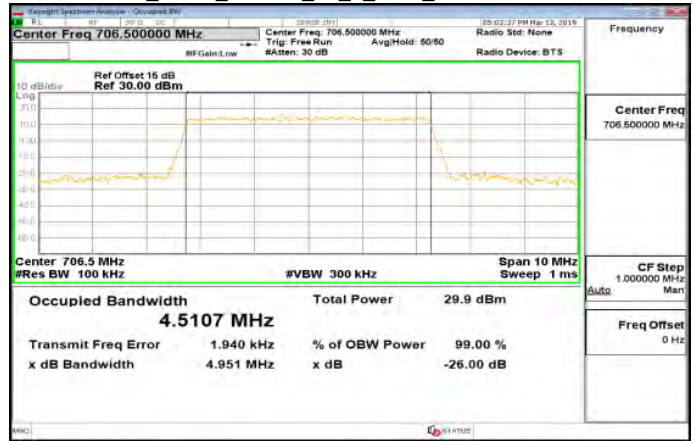
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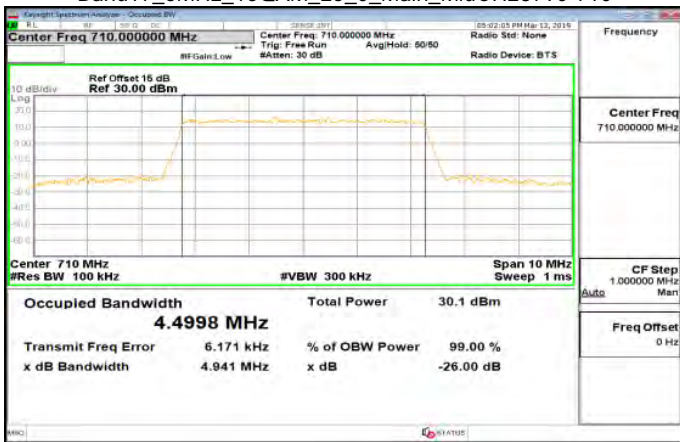
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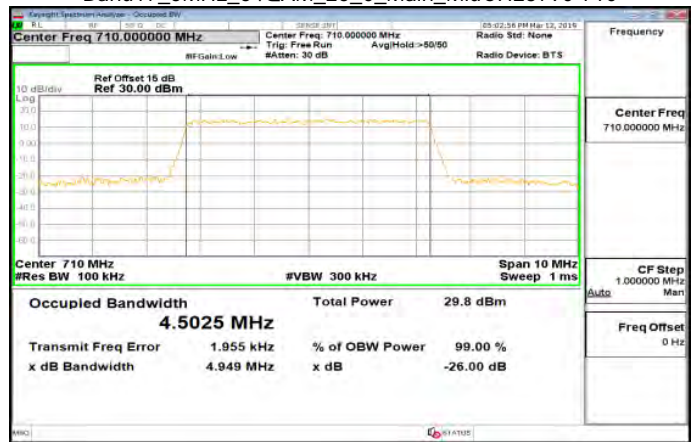
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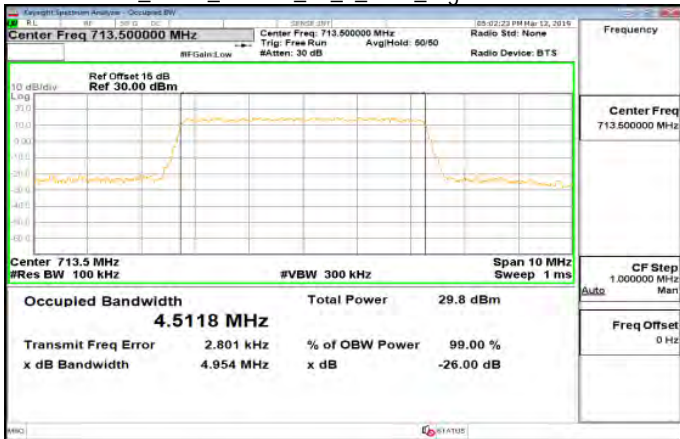
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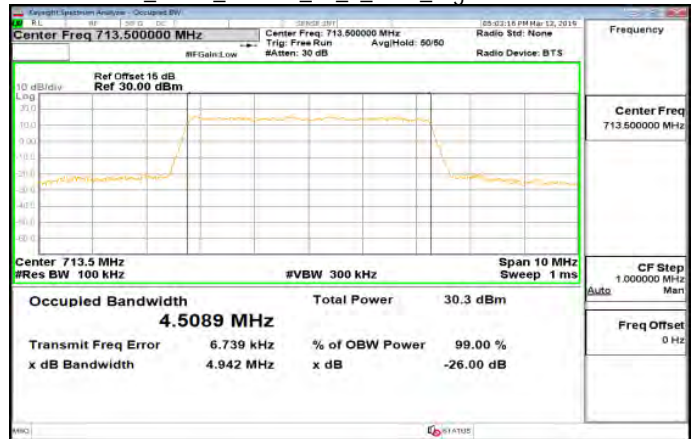
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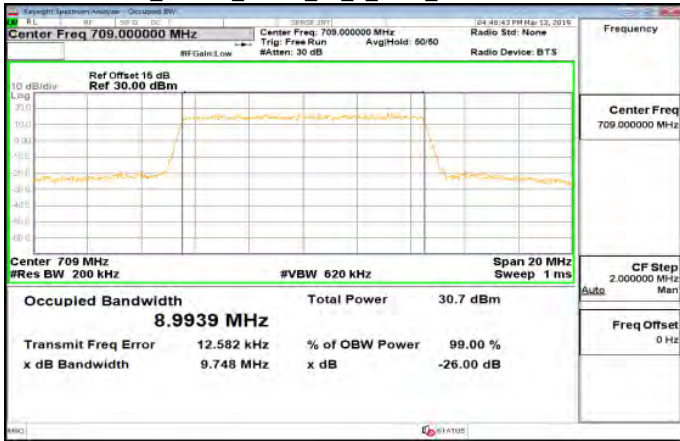


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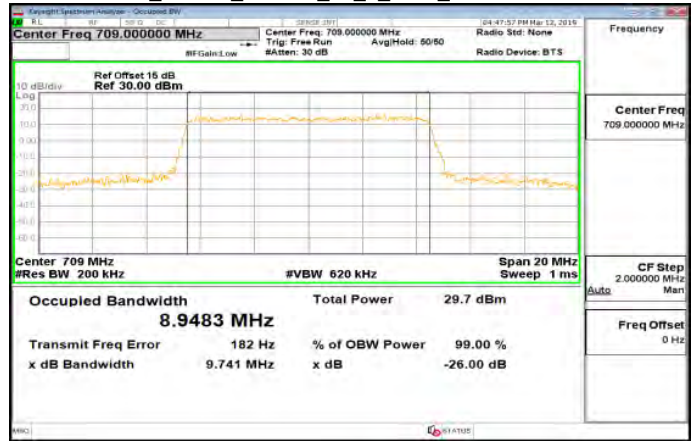
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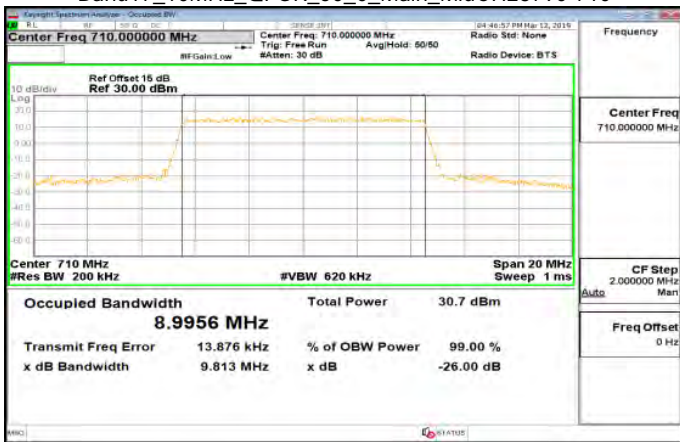
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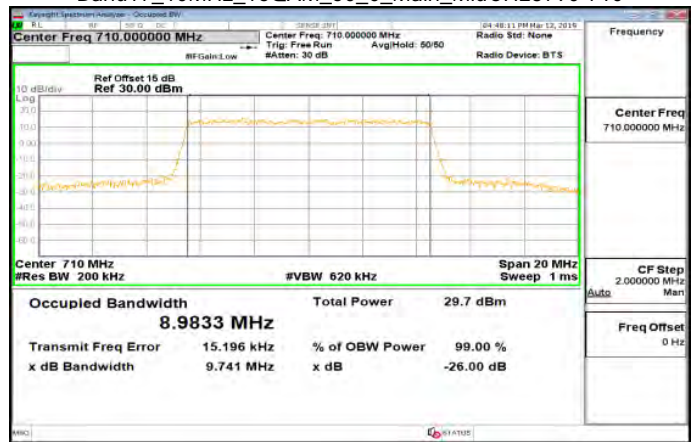
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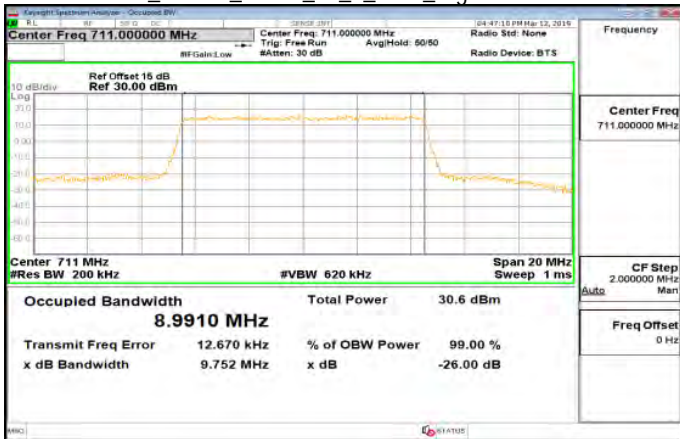
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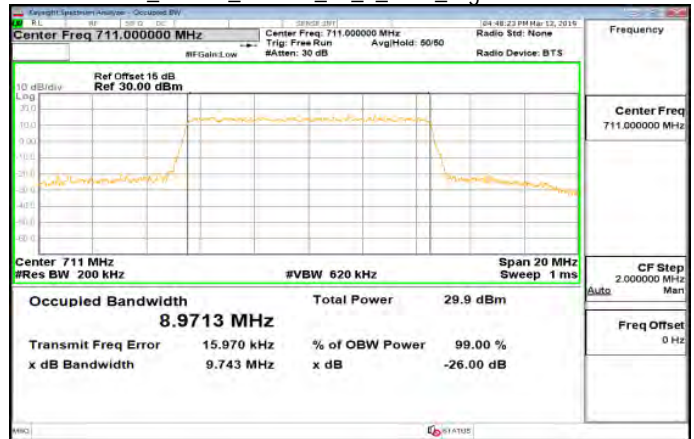
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Band17_10MHz_QPSK_50_0_Main_HighCH23800-711



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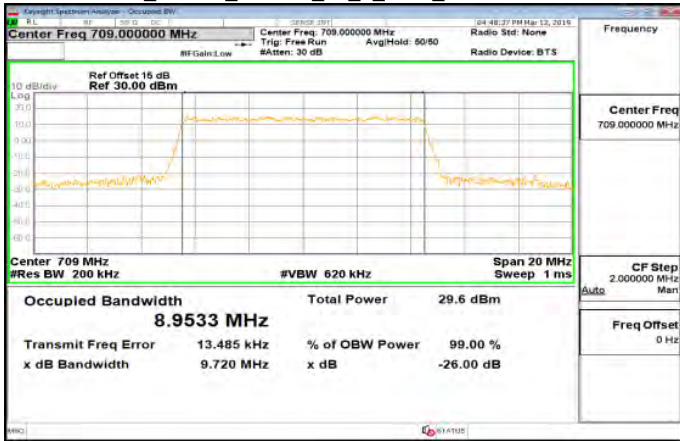


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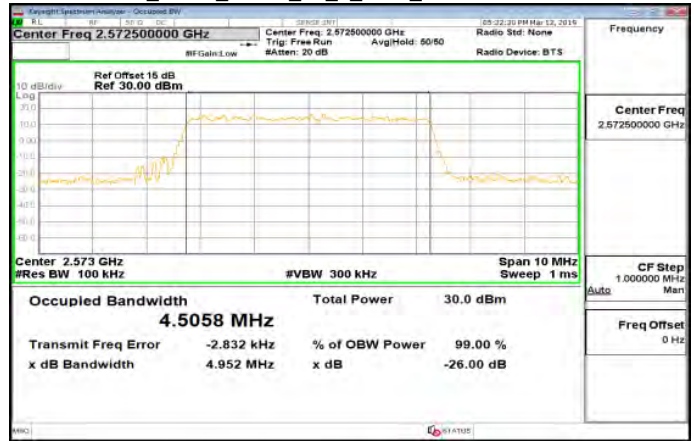
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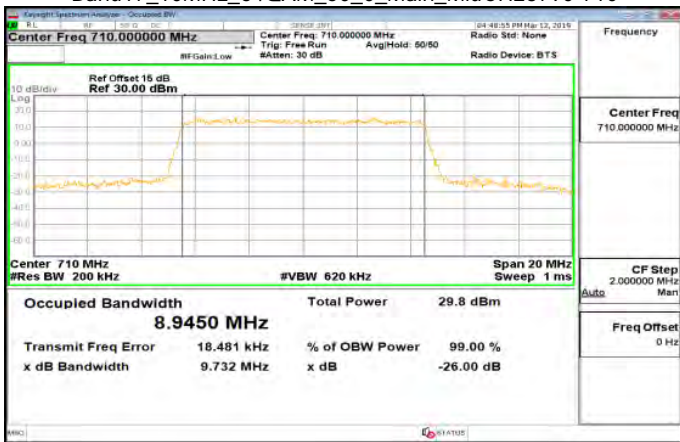
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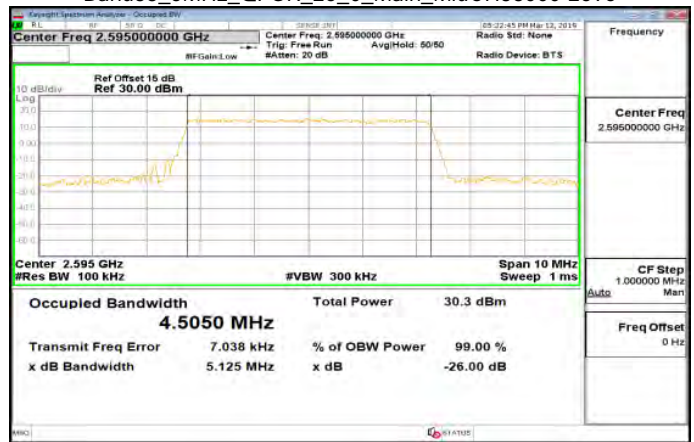
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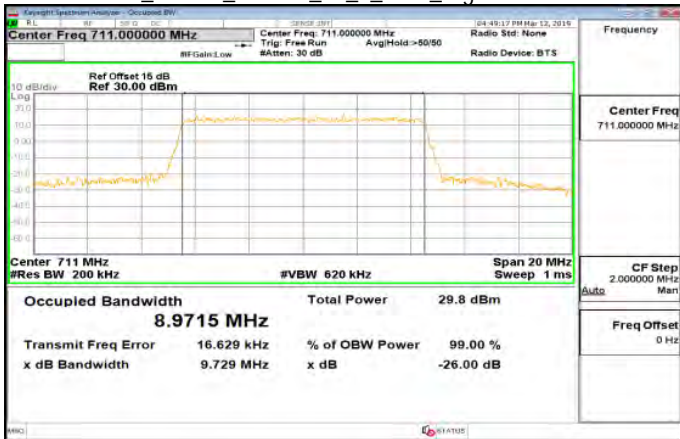
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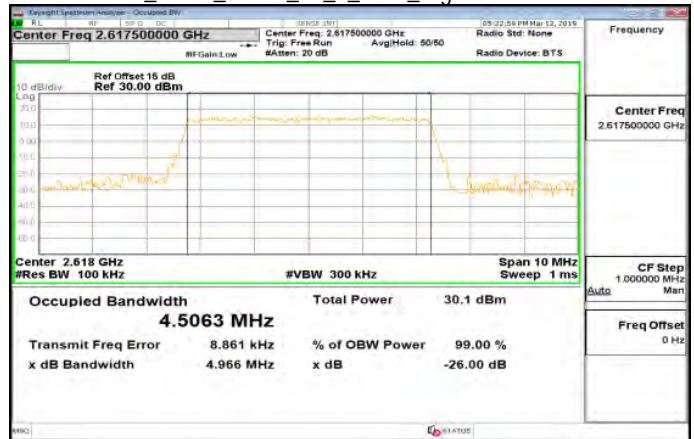
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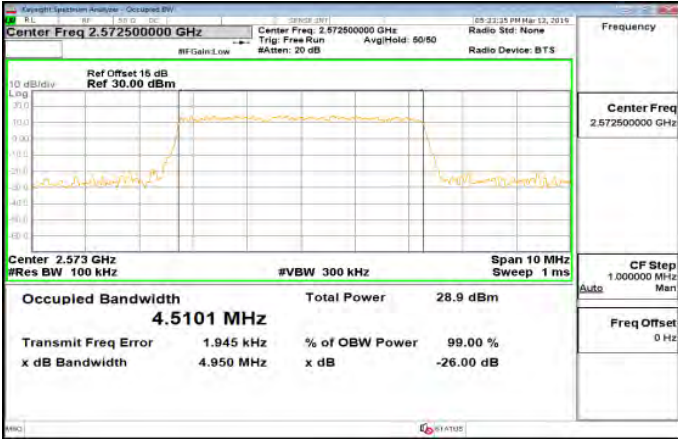


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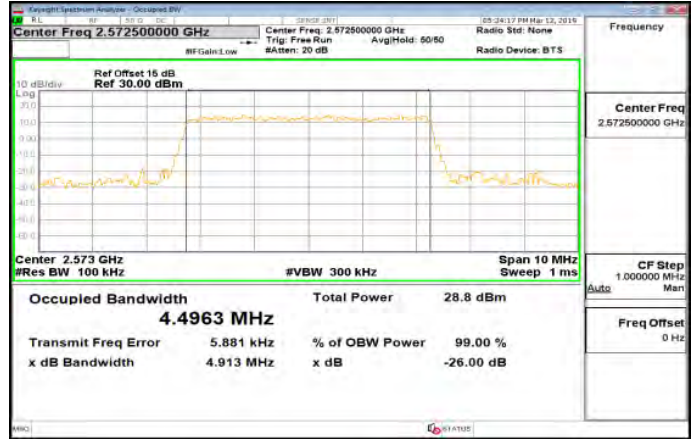
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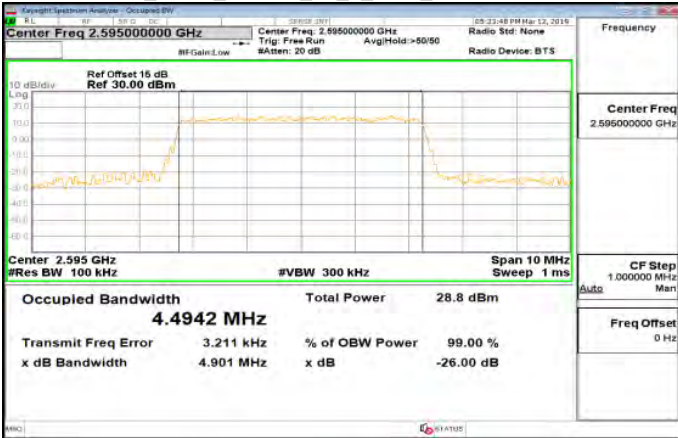
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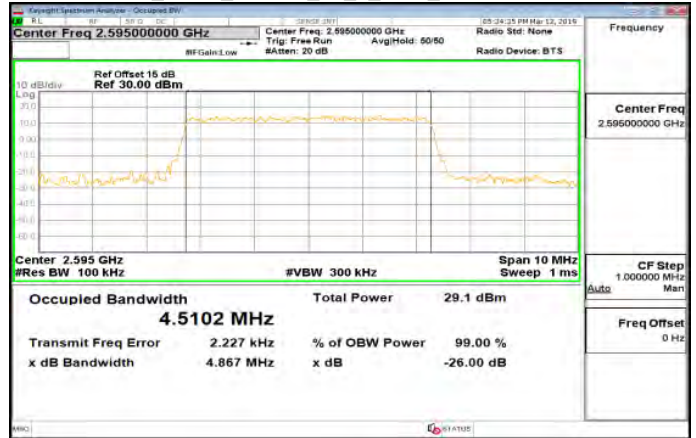
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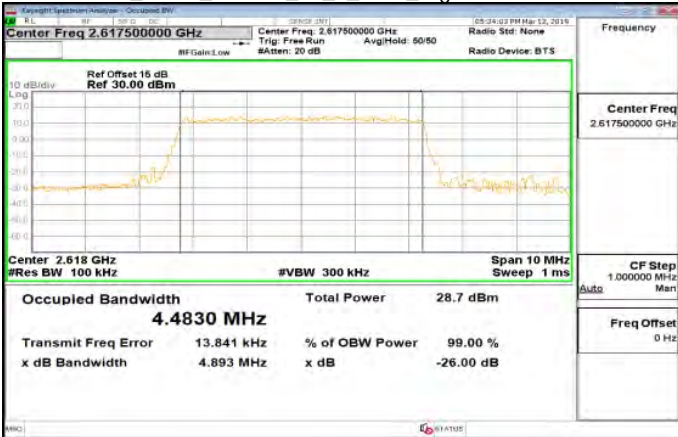
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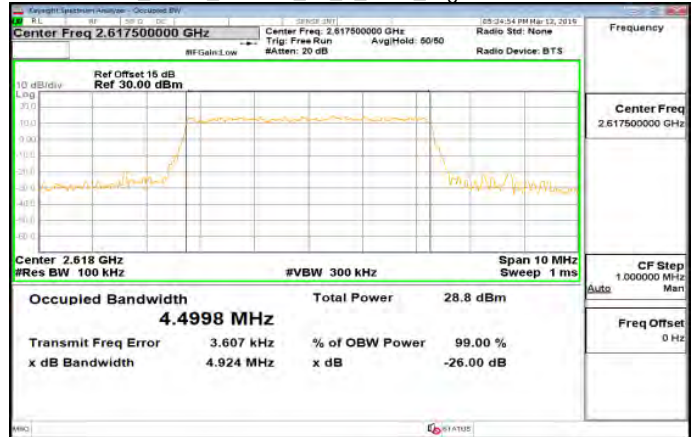
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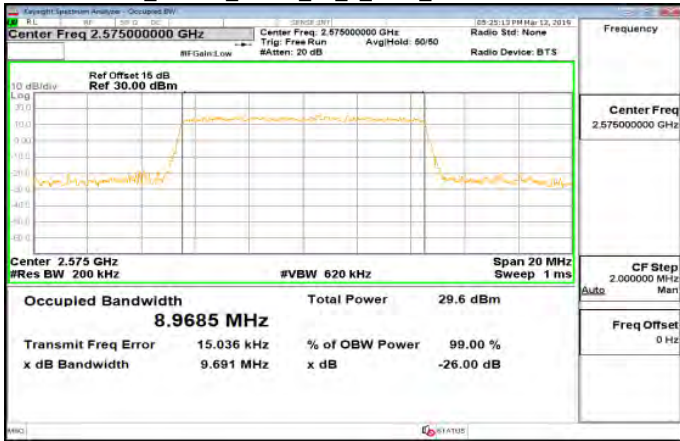


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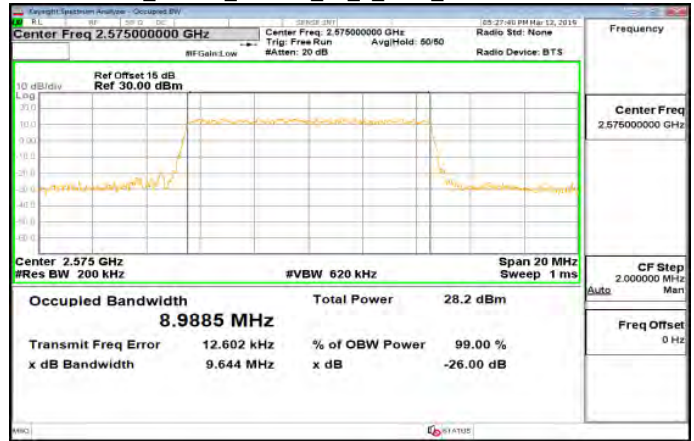
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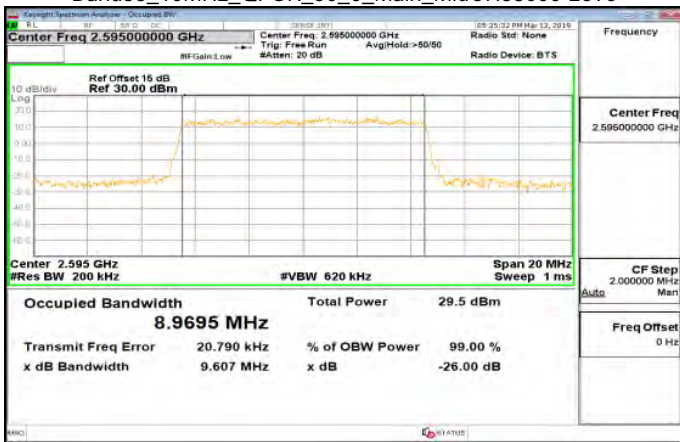
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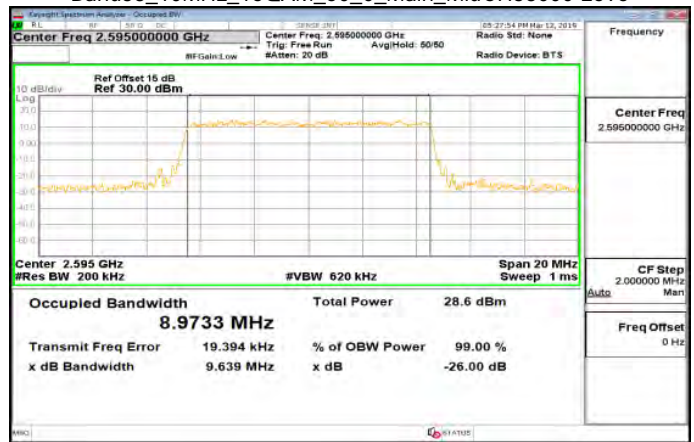
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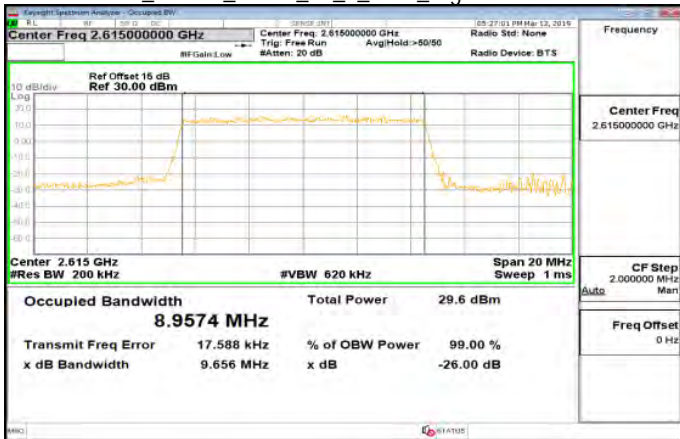
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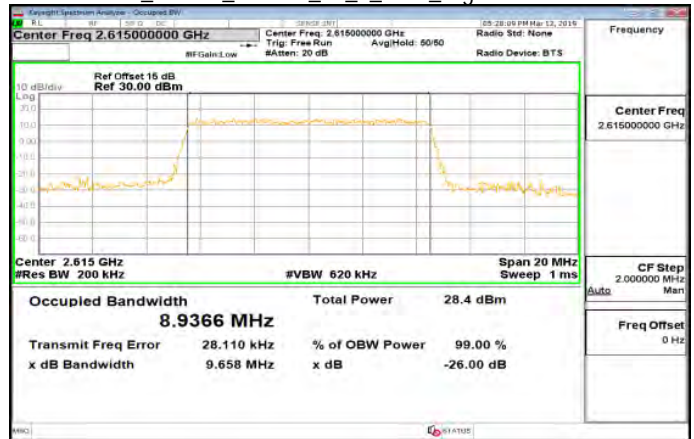
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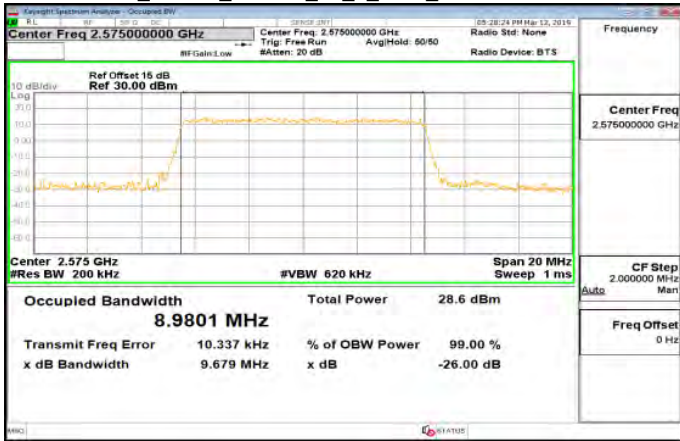


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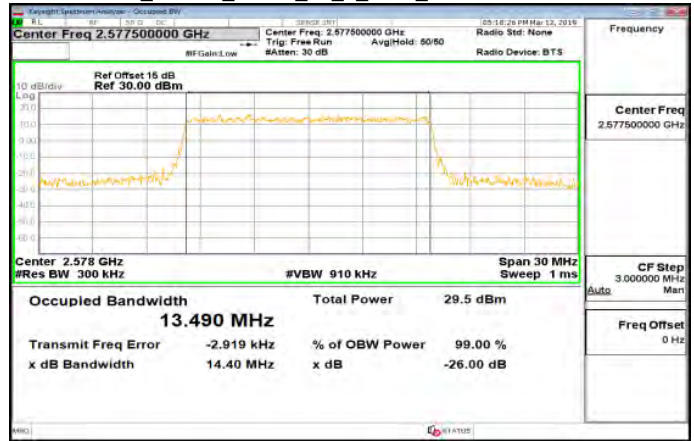
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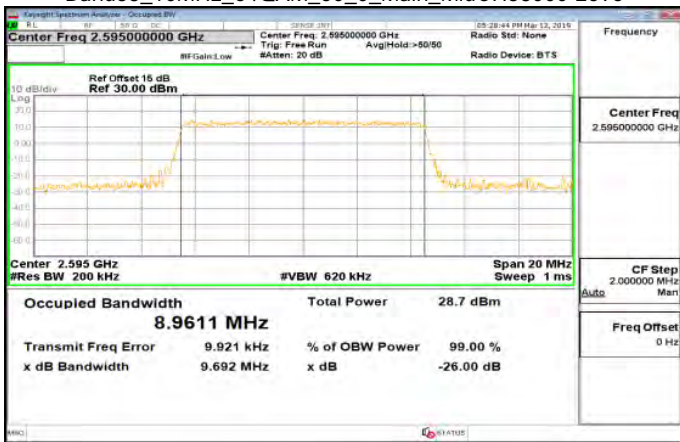
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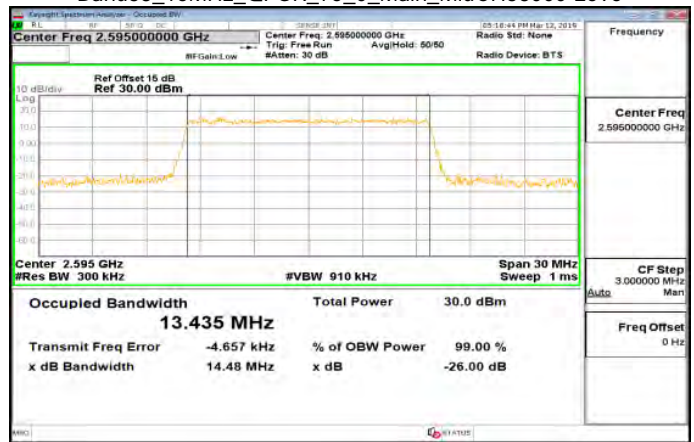
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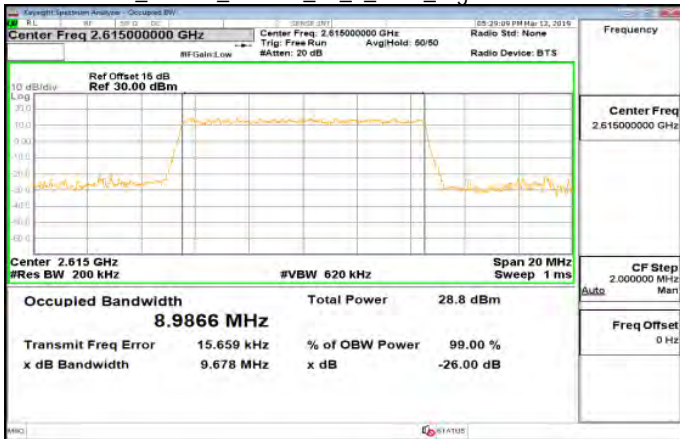
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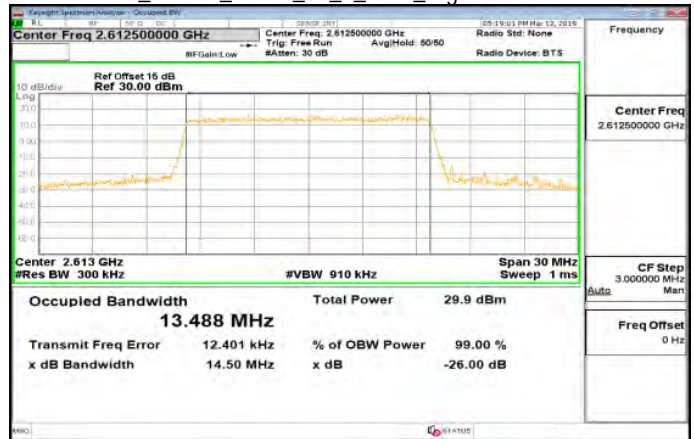
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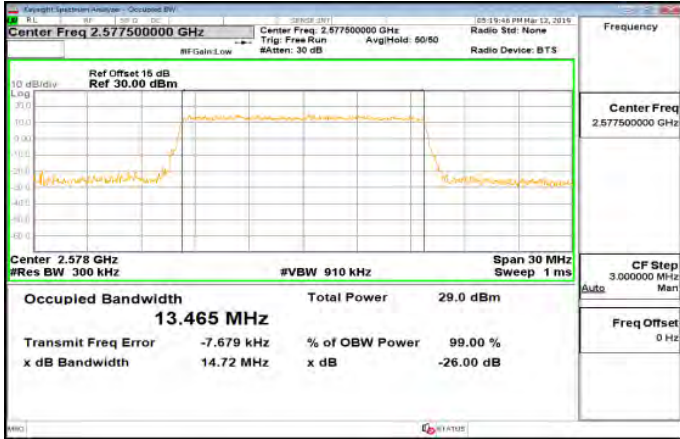


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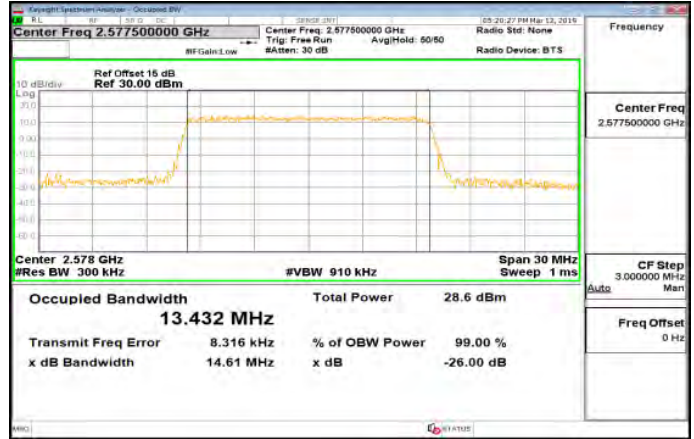
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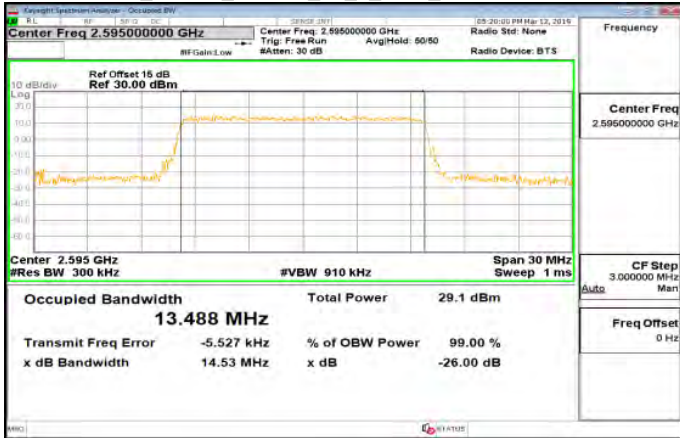
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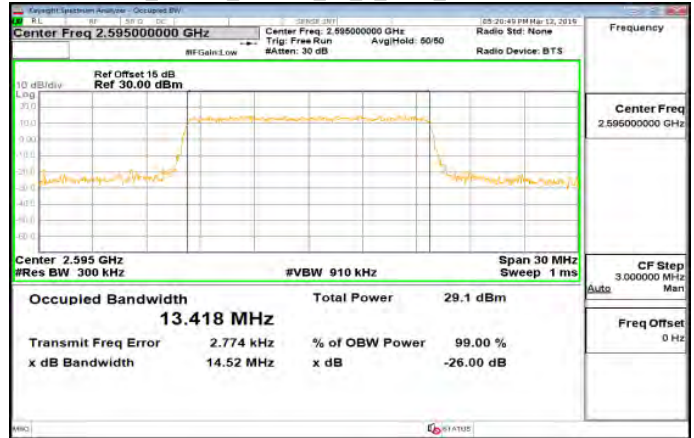
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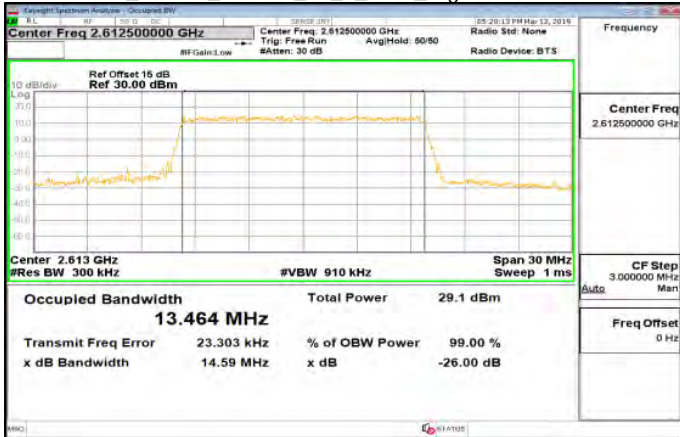
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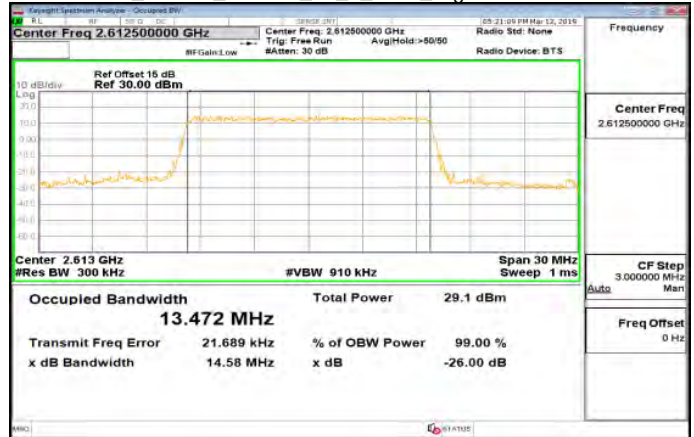
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Band38_15MHz_16QAM_75_0_Main_HighCH38175-2612.5



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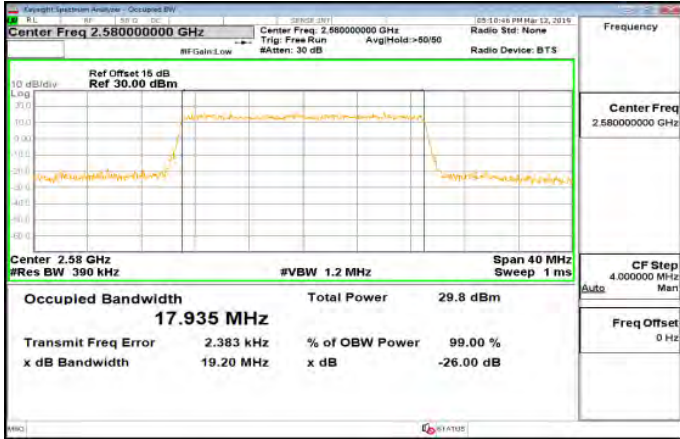


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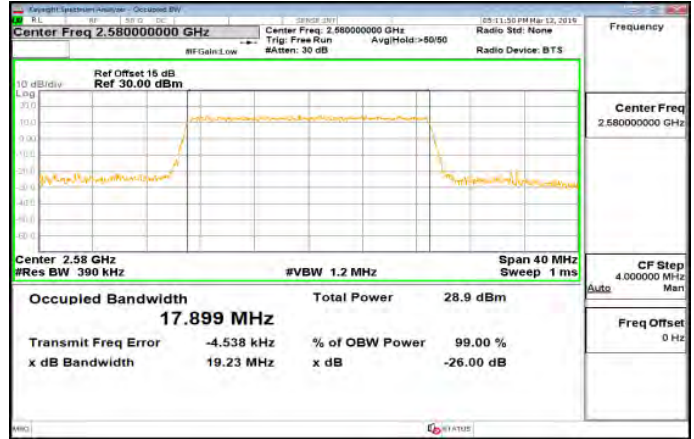
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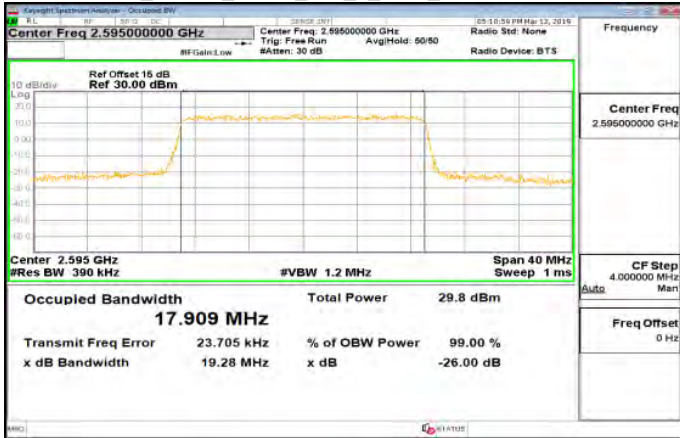
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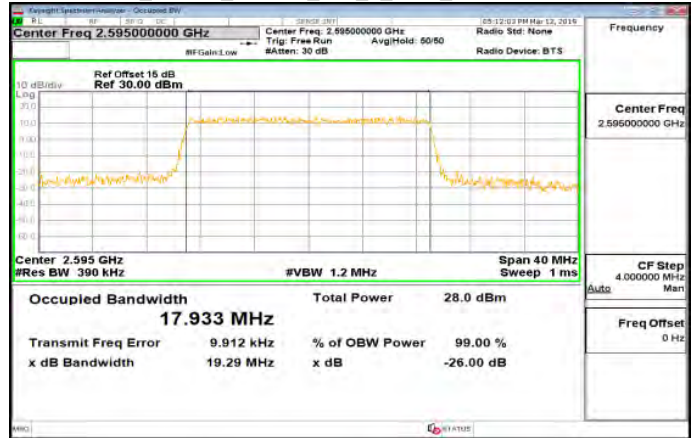
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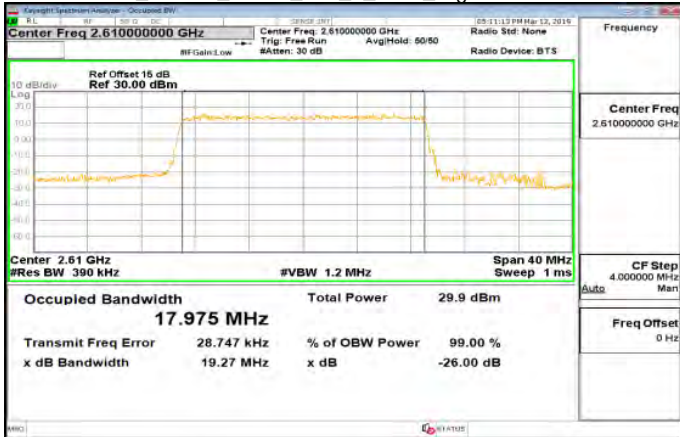
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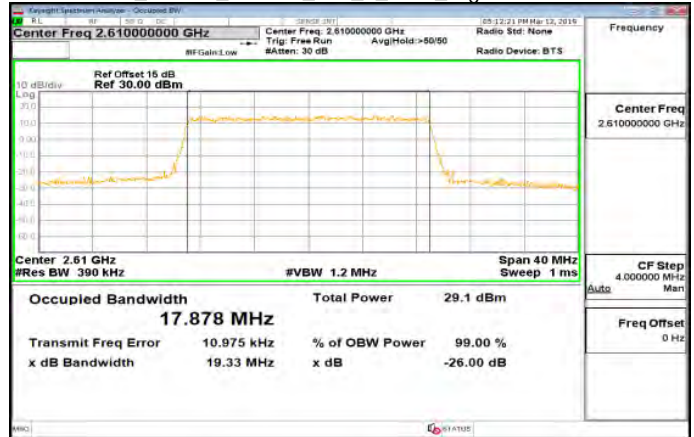
Band38_20MHz_16QAM_100_0_Main_MidCH38000-2595



Band38_20MHz_QPSK_100_0_Main_HighCH38150-2610



Band38_20MHz_16QAM_100_0_Main_HighCH38150-2610

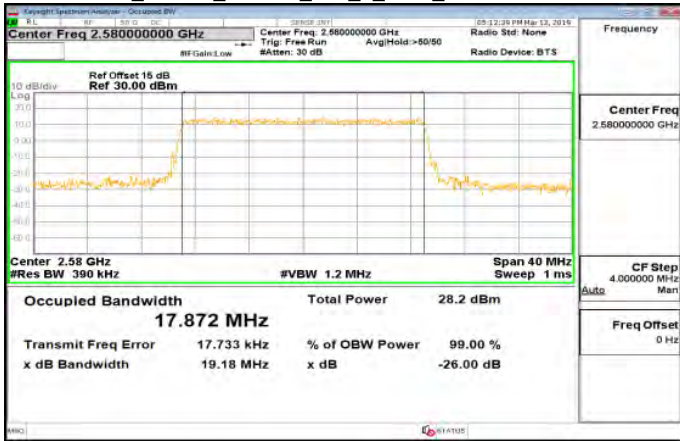


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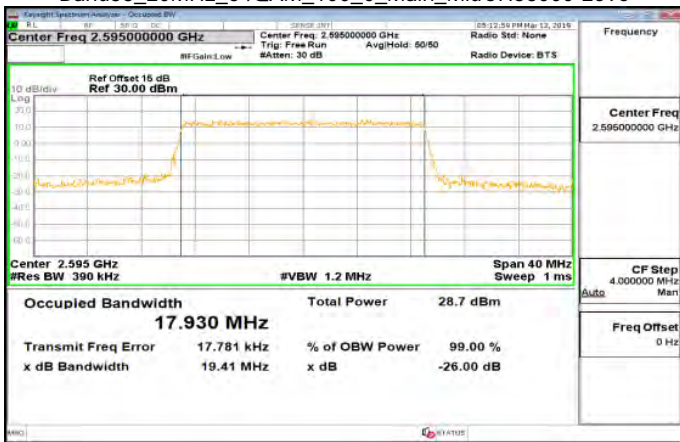
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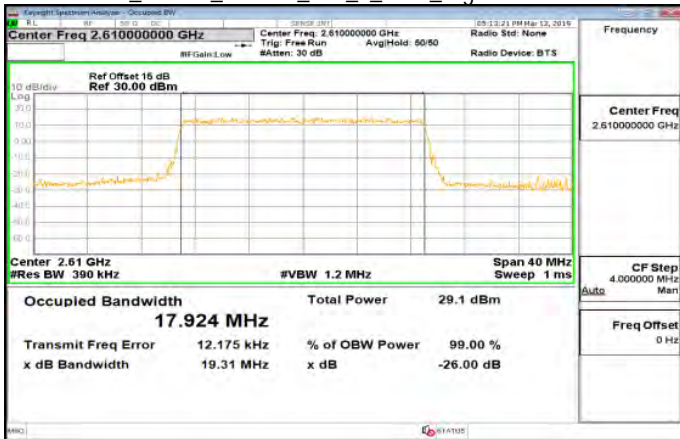
Band38_20MHz_64QAM_100_0_Main_LowCH37850-2580



Band38_20MHz_64QAM_100_0_Main_MidCH38000-2595



Band38_20MHz_64QAM_100_0_Main_HighCH38150-2610



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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), 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)

(c) 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;

§27.53 (f) 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)

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.

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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FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

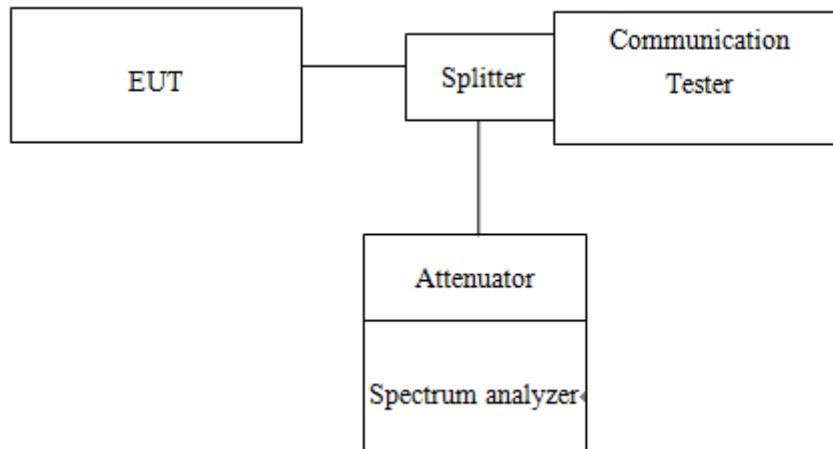
Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). 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. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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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 | MY53400256 | 11/21/2018 | 11/20/2019 |
| Digital Radio Communication Tester | R&S | CMU200 | 100535 | 09/17/2018 | 09/16/2019 |
| DC Power Supply | Agilent | E3640A | KR93300208 | 08/15/2018 | 08/14/2019 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 1 | 02/26/2019 | 02/25/2020 |
| DC Block | Mini-Circuits | BLK-18-S+ | 31129(1) | 02/26/2019 | 02/25/2020 |
| Splitter | RF-LAMBAD | RFLT2W1G18G | 11-JSPD022-013 | 02/26/2019 | 02/25/2020 |
| Coaxial Cables | Woken | 00100A1F1A185C | RF12 | 02/26/2019 | 02/25/2020 |
| Wideband Radio Communication Tester | R&S | CMW 500 | 116875 | 04/20/2018 | 04/19/2019 |

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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GPRS_850MHz_HighCH251-848.8



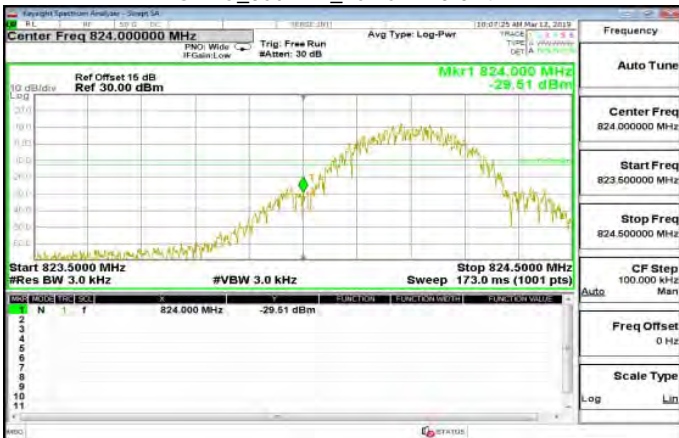
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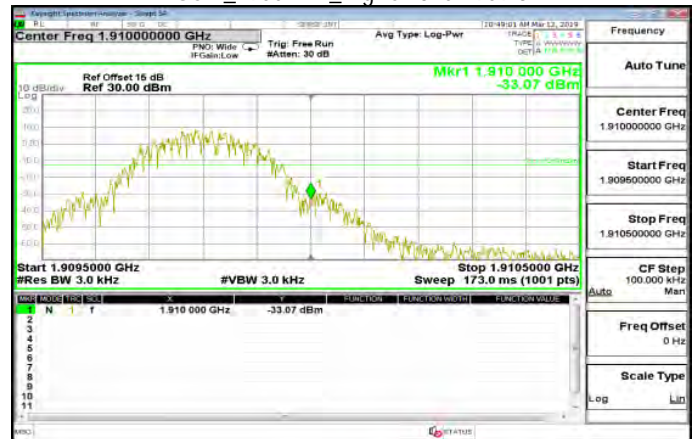
GSM_1900MHz_LowCH512-1850.2



GPRS_850MHz_LowCH128-824.2



GSM_1900MHz_HighCH810-1909.8



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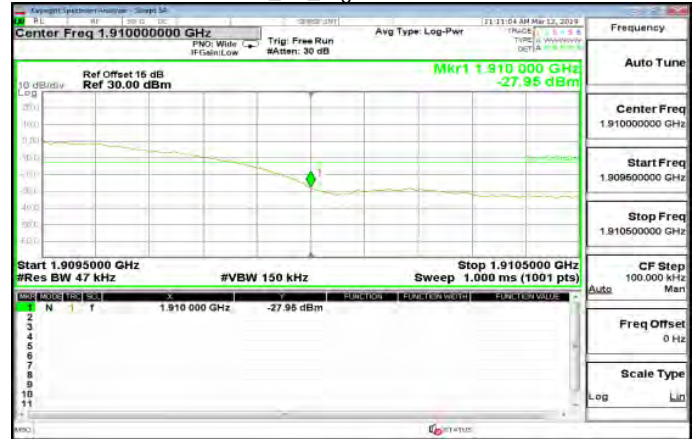
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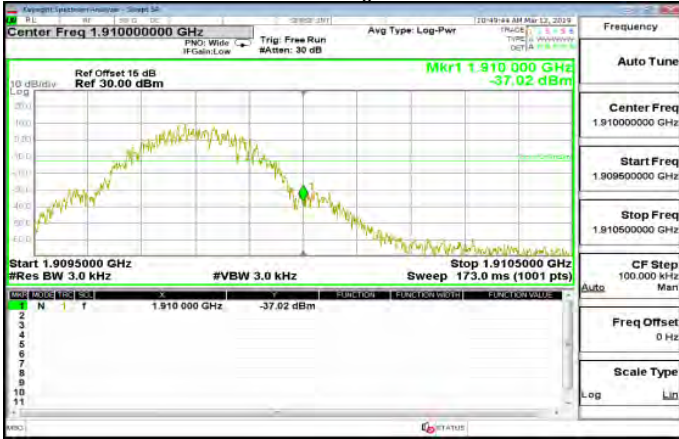
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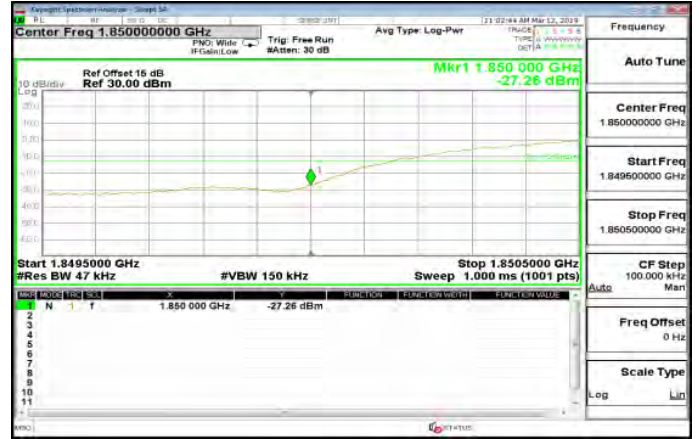
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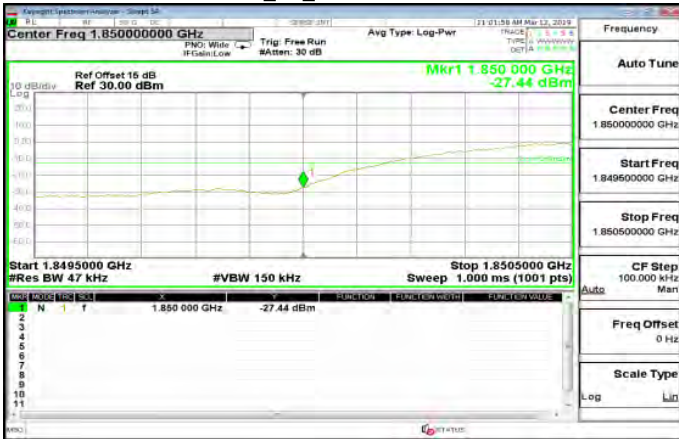
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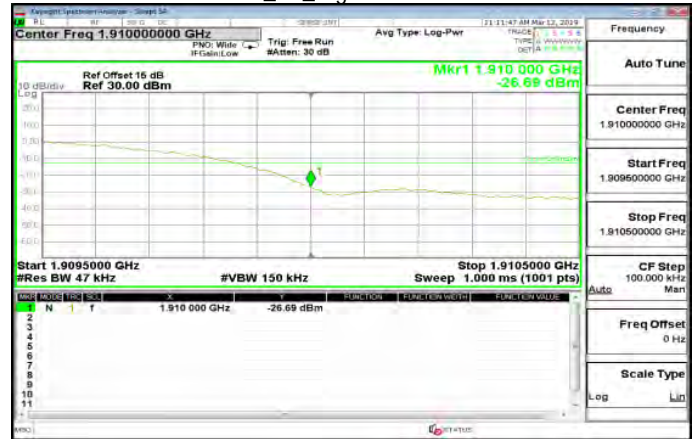
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WCDMA_B2_LowCH9262-1852.4



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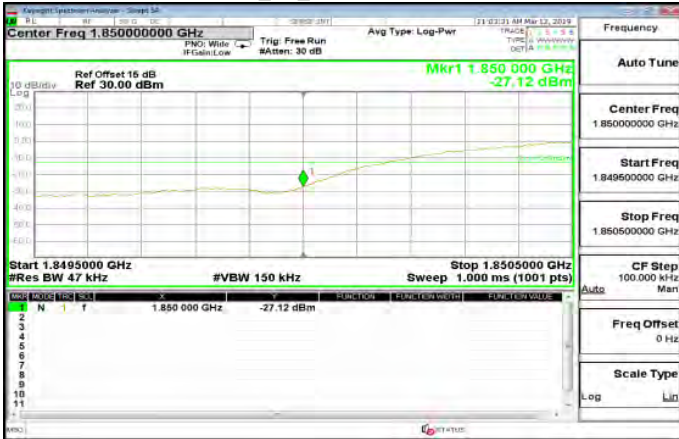


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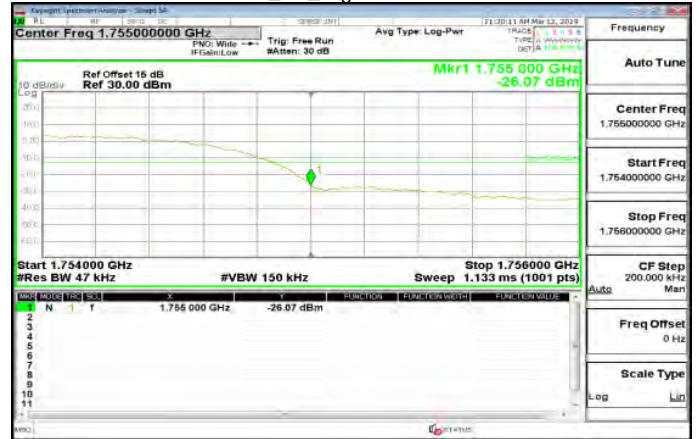
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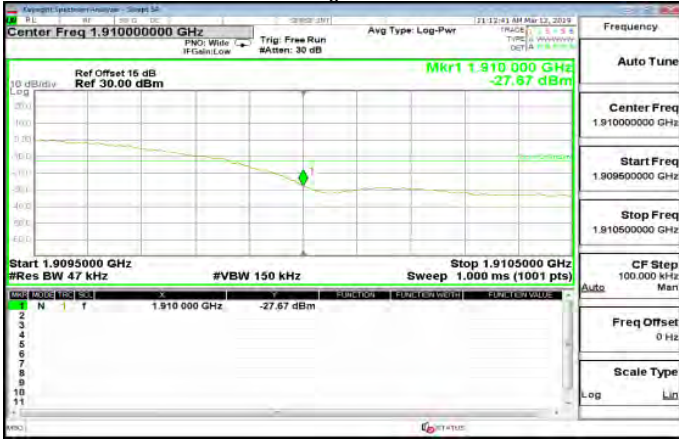
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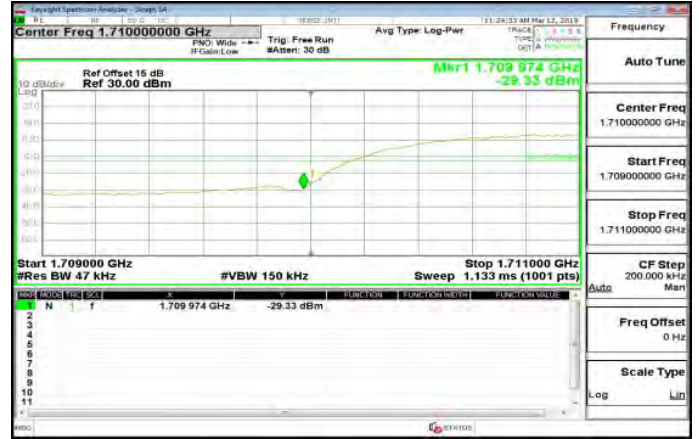
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HSUPA_B2_HighCH9538-1907.6



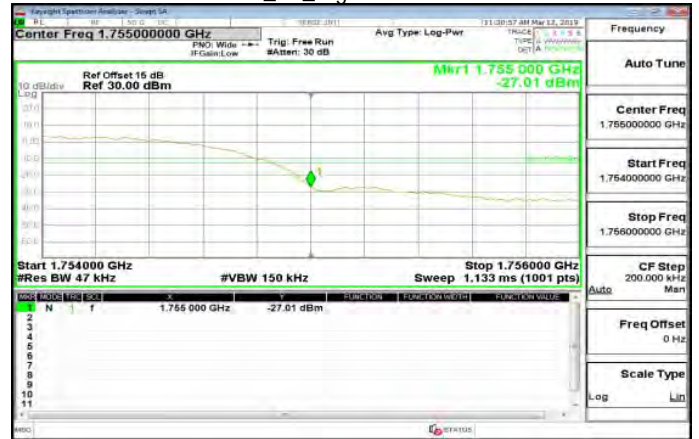
HSDPA_B4_LowCH1312-1712.4



WCDMA_B4_LowCH1312-1712.4



HSDPA_B4_HighCH1513-1752.6



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HSUPA_B4_LowCH1312-1712.4



WCDMA_B5_HighCH4233-846.6



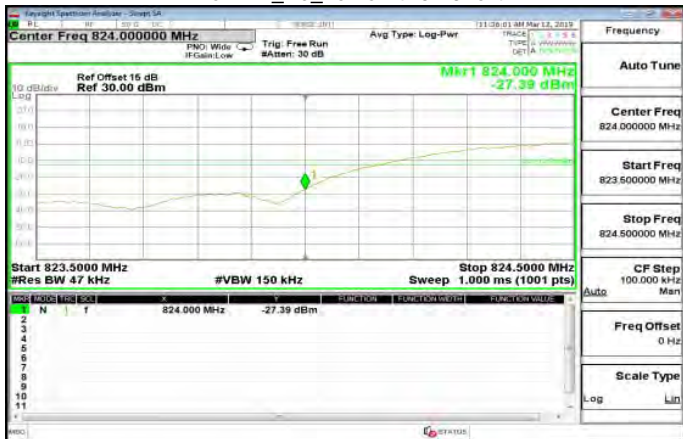
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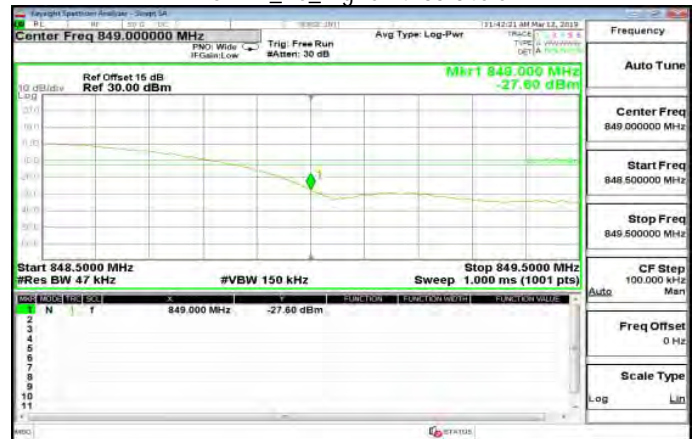
HSDPA_B5_LowCH4132-826.4



WCDMA_B5_LowCH4132-826.4



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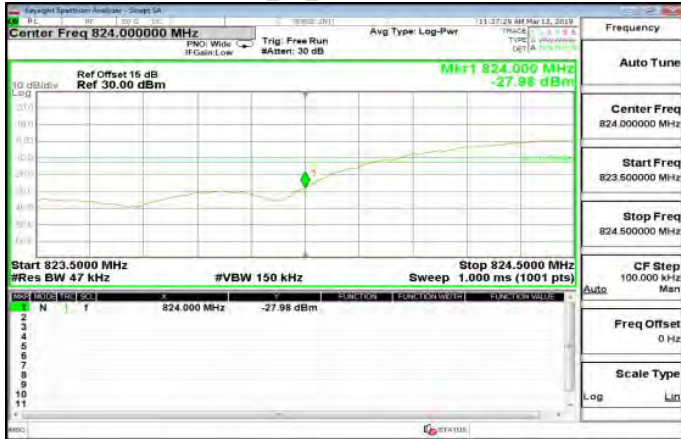


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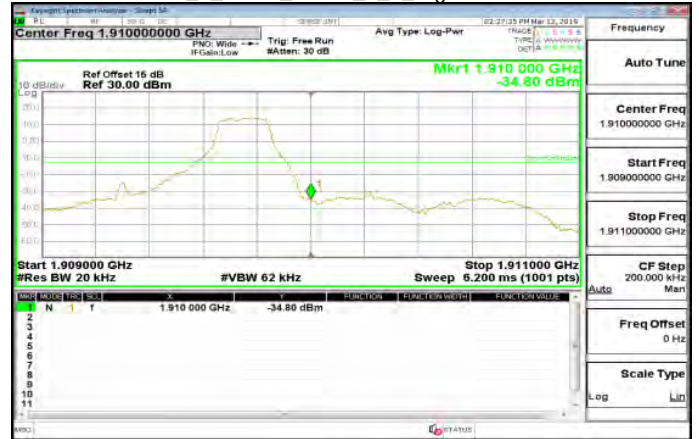
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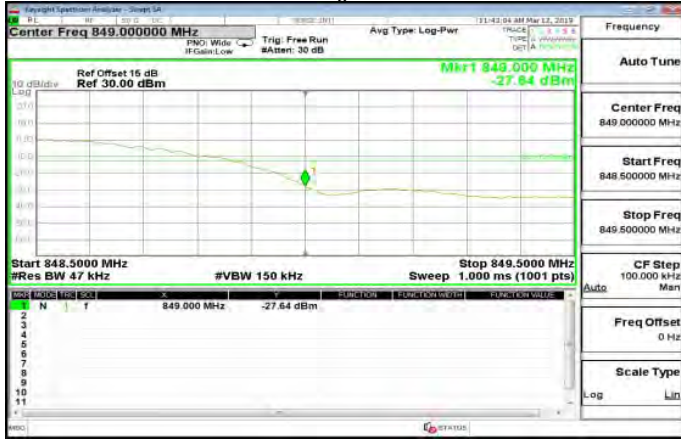
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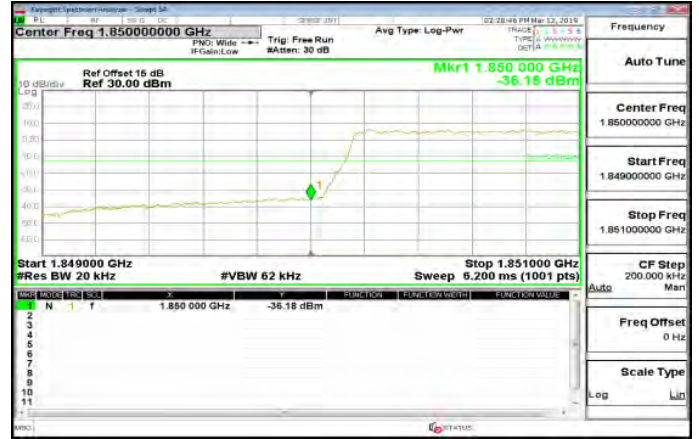
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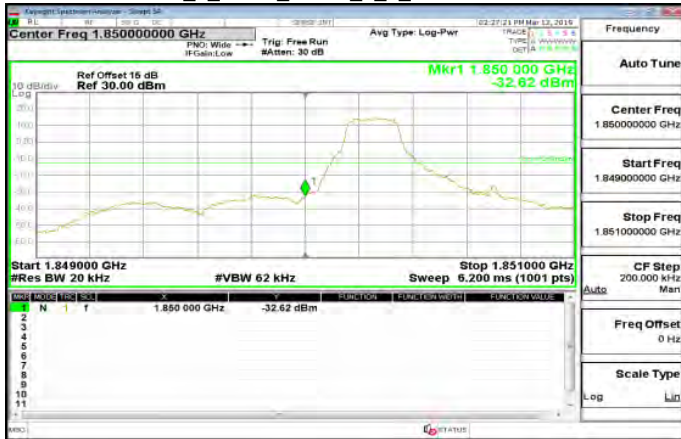
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LTE\Band2_1_4MHz_QPSK_1_0_LowCH18607-1850.7



LTE\Band2_1_4MHz_QPSK_6_0_HighCH19193-1909.3



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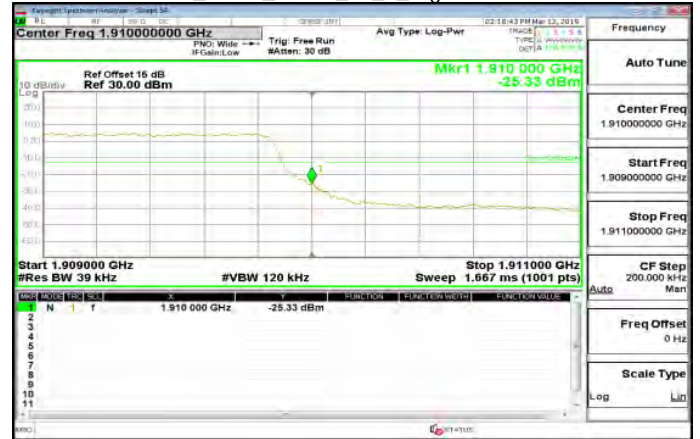
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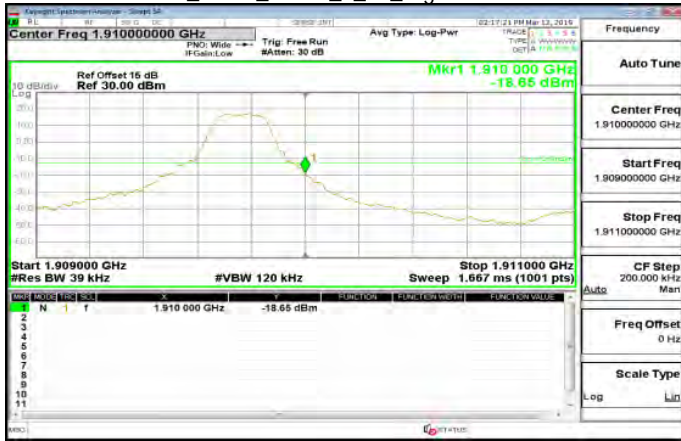
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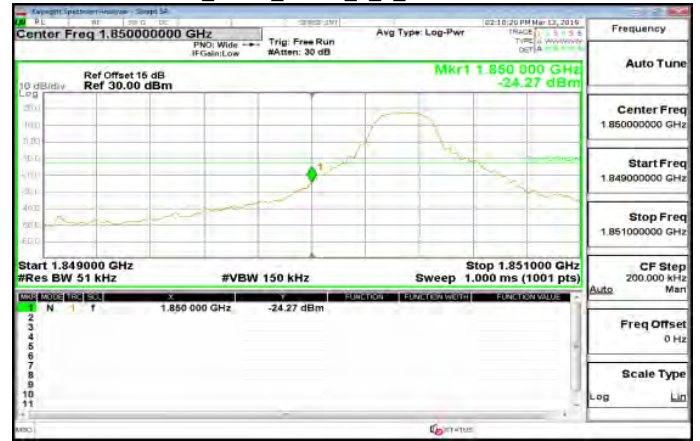
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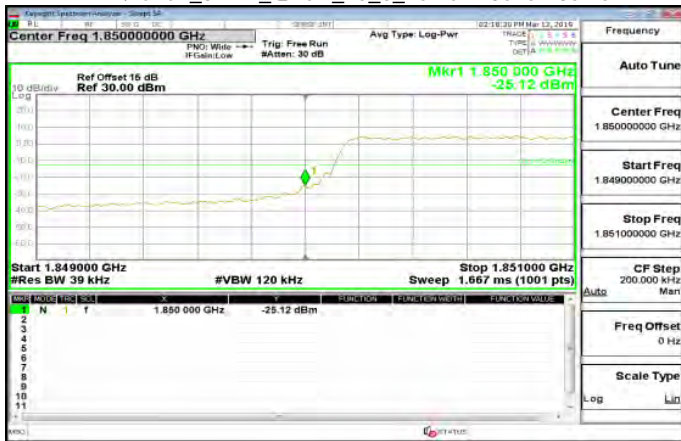
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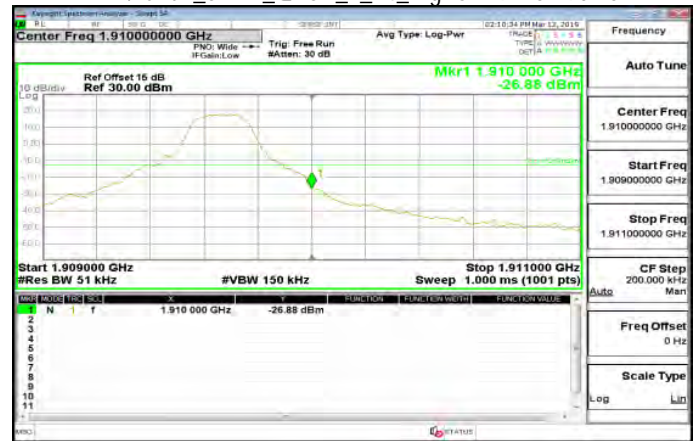
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LTE\Band2_3MHz_QPSK_15_0_LowCH18615-1851.5



LTE\Band2_5MHz_QPSK_1_24_HighCH19175-1907.5



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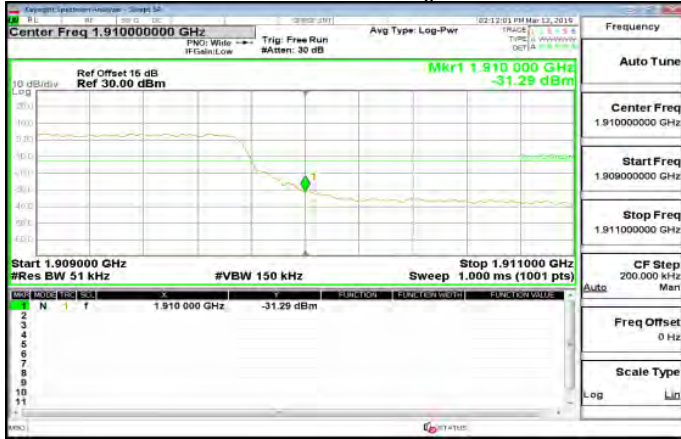
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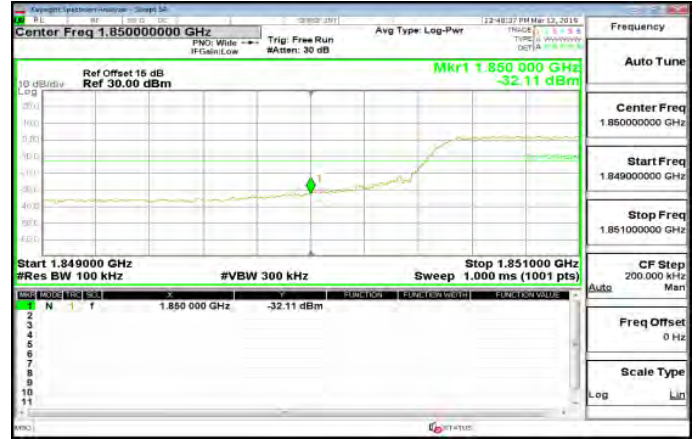
LTE\Band2_10MHz_QPSK_1_49_HighCH19150-1905



LTE\Band2_5MHz_QPSK_25_0_HighCH19175-1907.5



LTE\Band2_10MHz_QPSK_50_0_LowCH18650-1855



LTE\Band2_10MHz_QPSK_1_0_LowCH18650-1855



LTE\Band2_10MHz_QPSK_50_0_HighCH19150-1905



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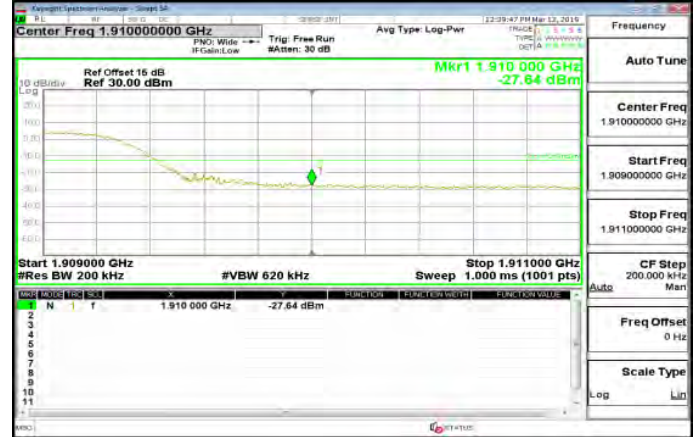
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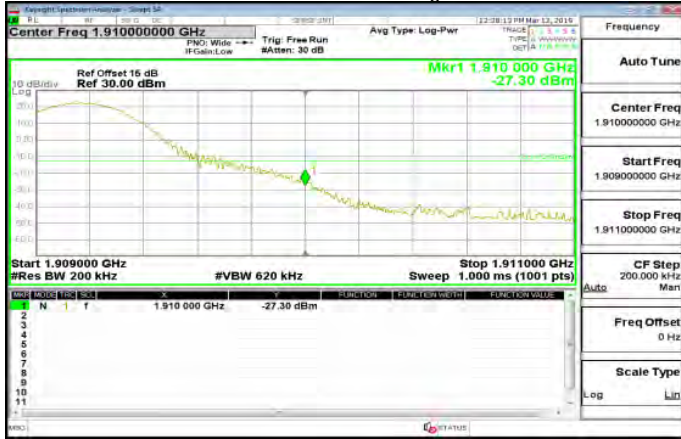
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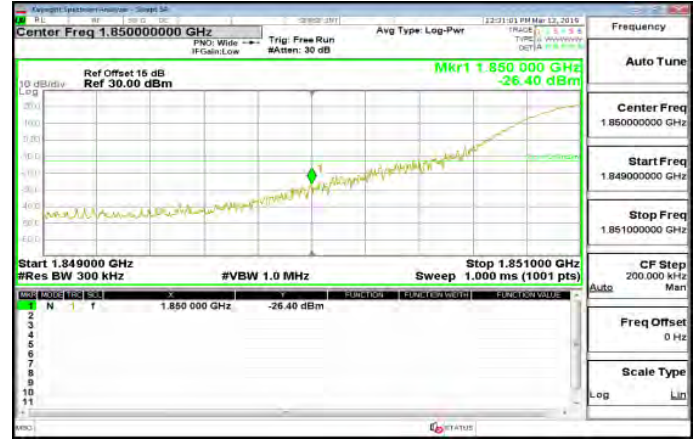
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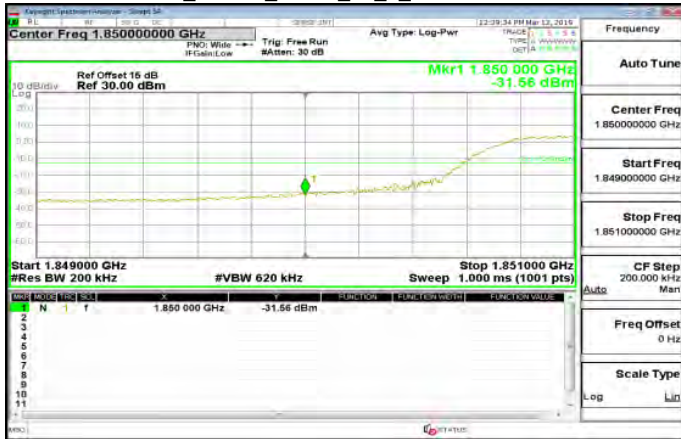
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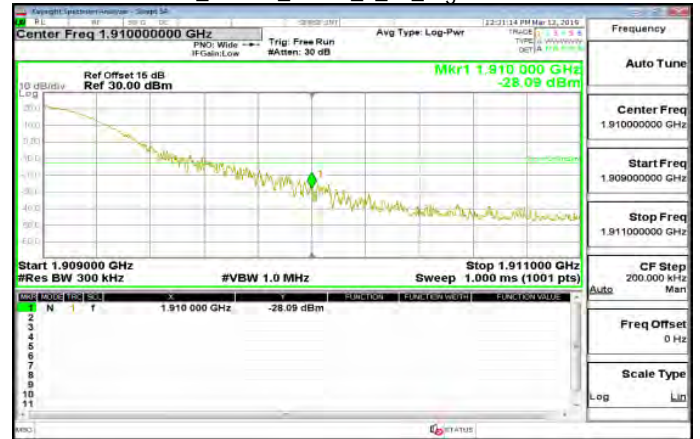
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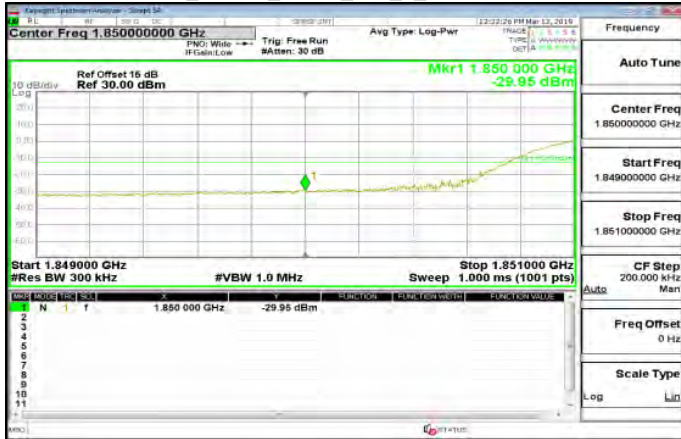


LTE\Band2_20MHz_QPSK_1_99_HighCH19100-1900



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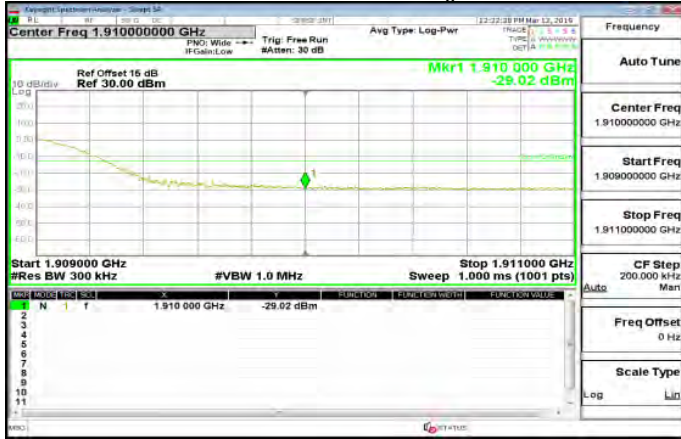
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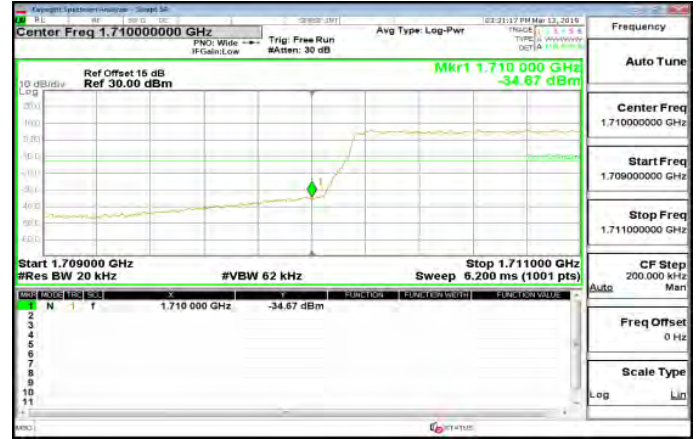
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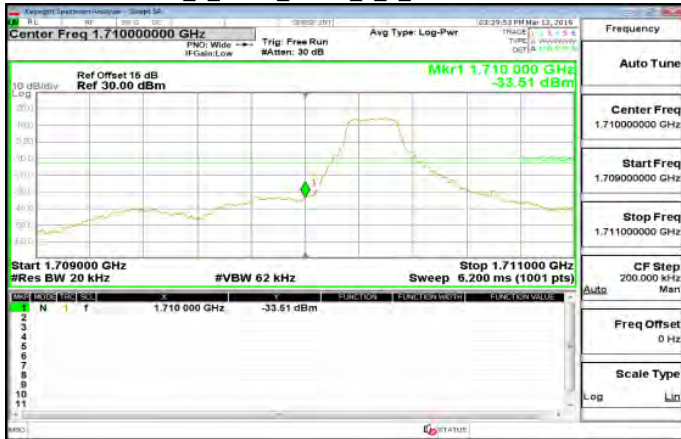
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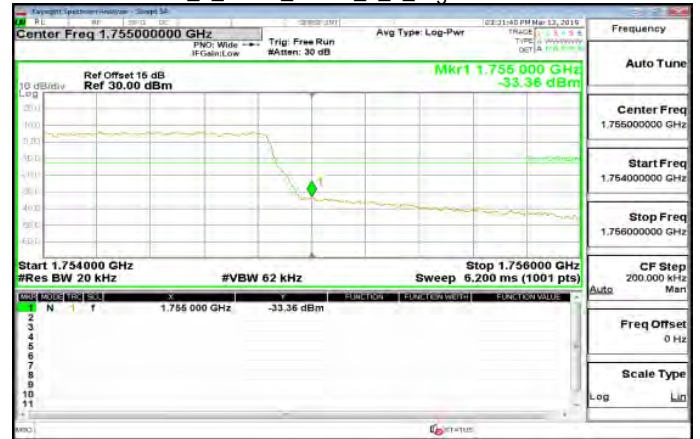
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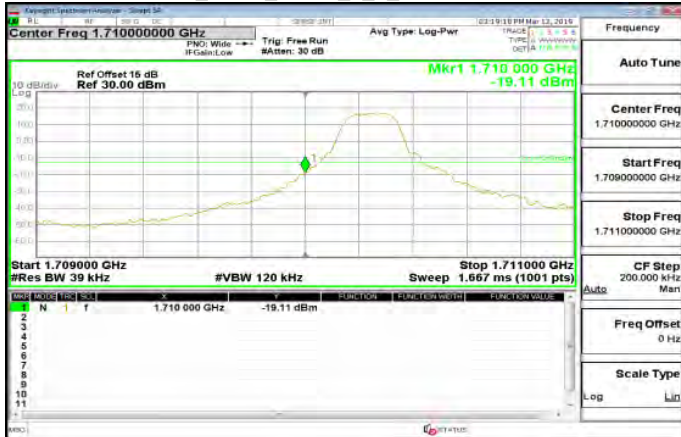


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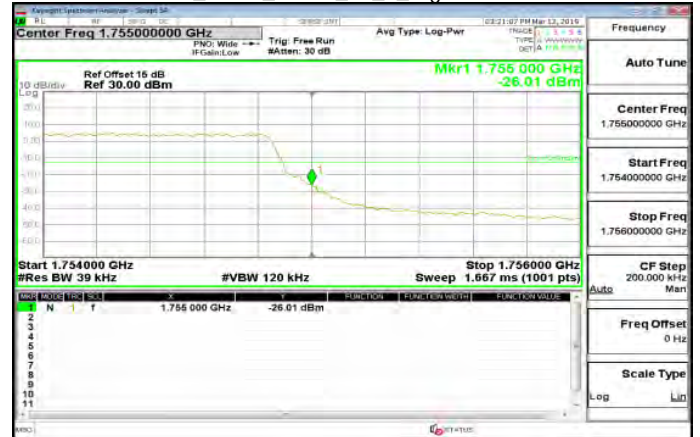


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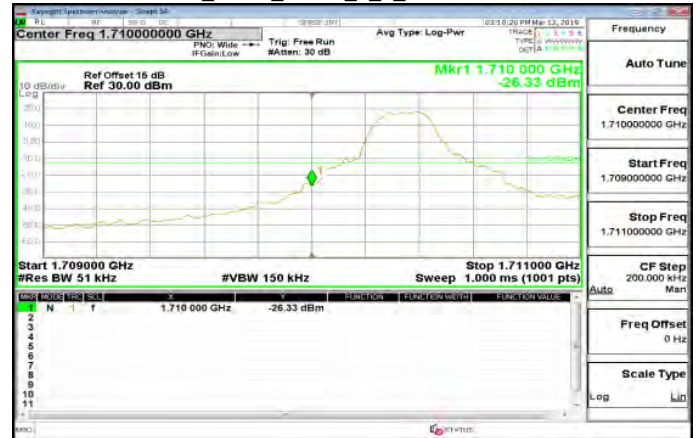
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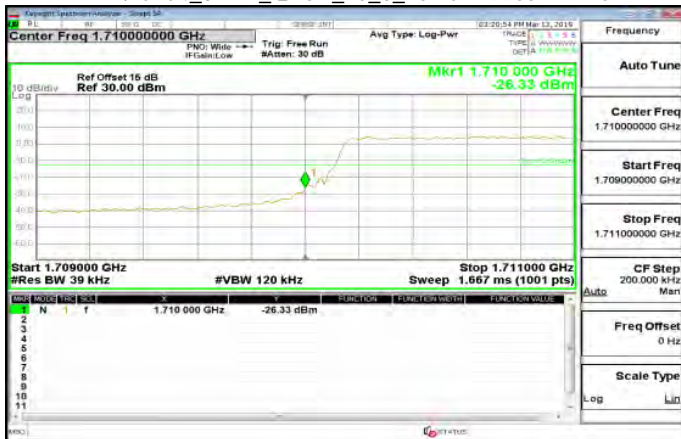
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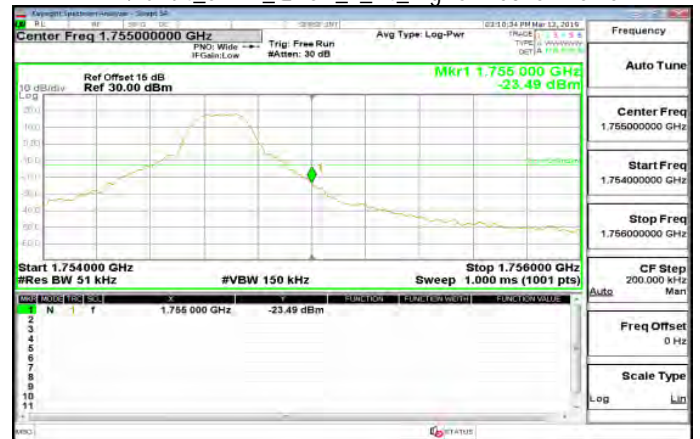
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LTE\Band4_3MHz_QPSK_15_0_LowCH19965-1711.5



LTE\Band4_5MHz_QPSK_1_24_HighCH20375-1752.5

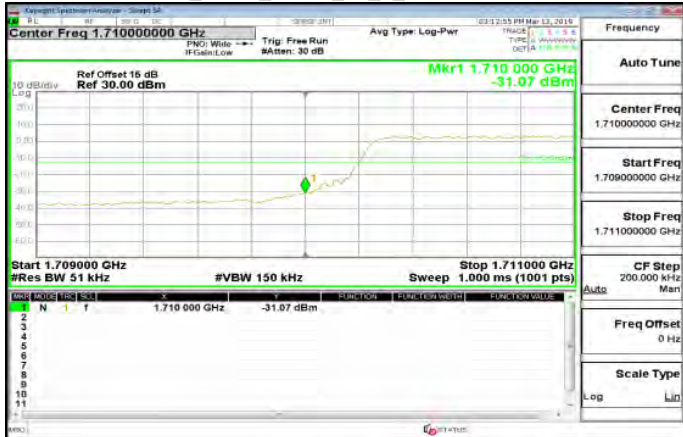


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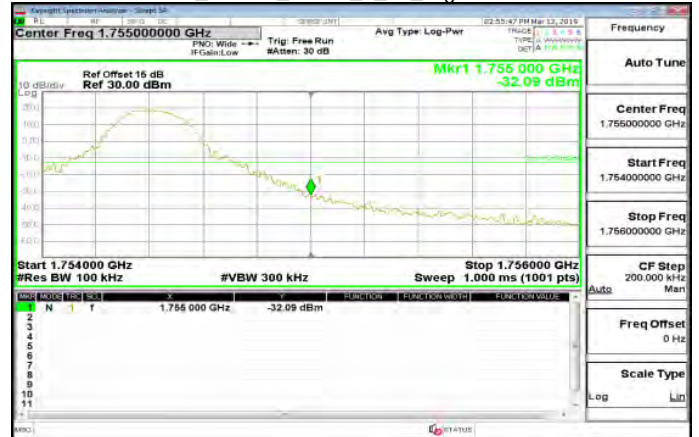
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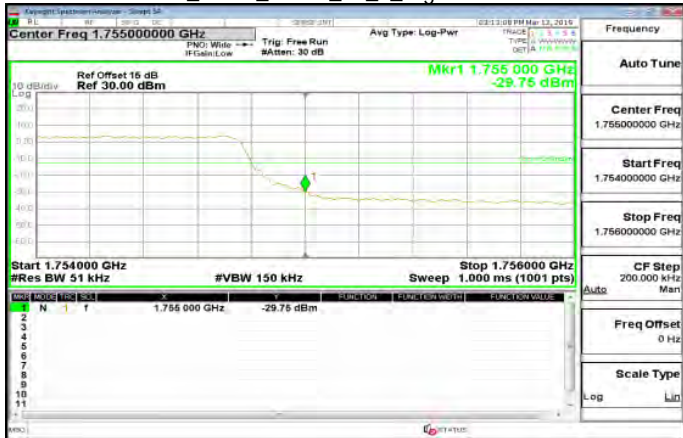
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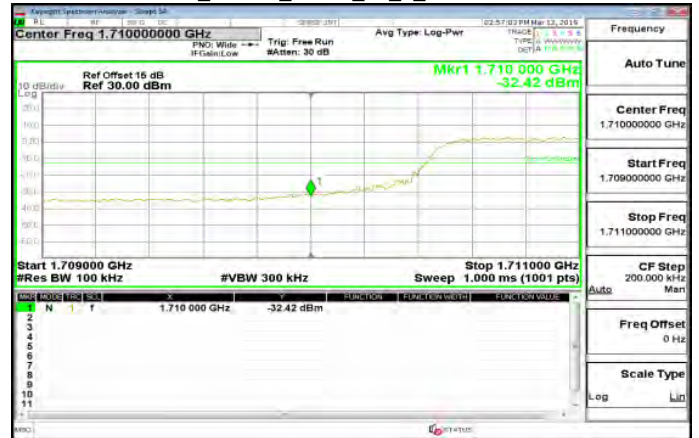
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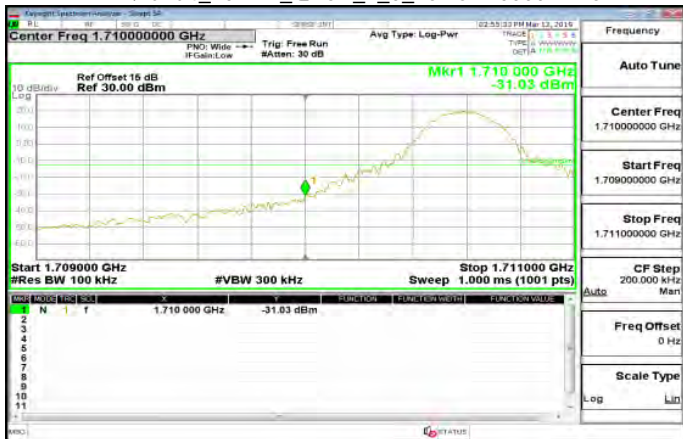
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LTE\Band4_10MHz_QPSK_50_0_LowCH20000-1715



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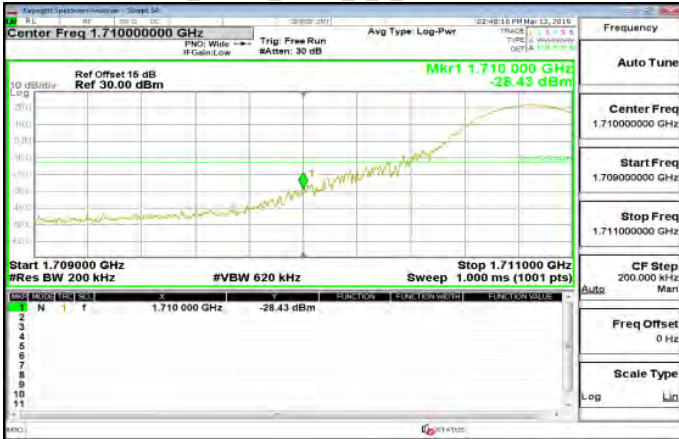


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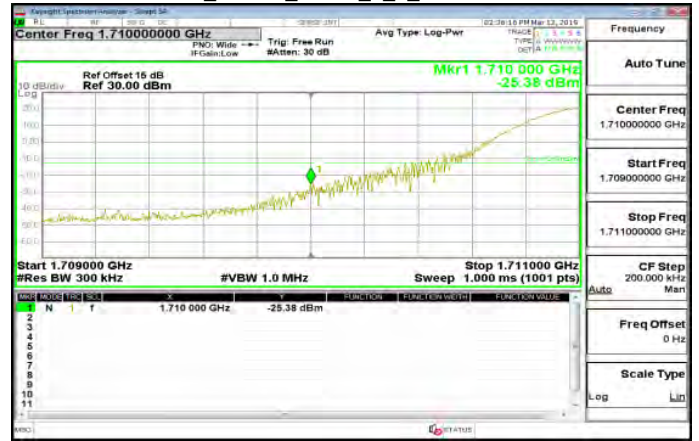
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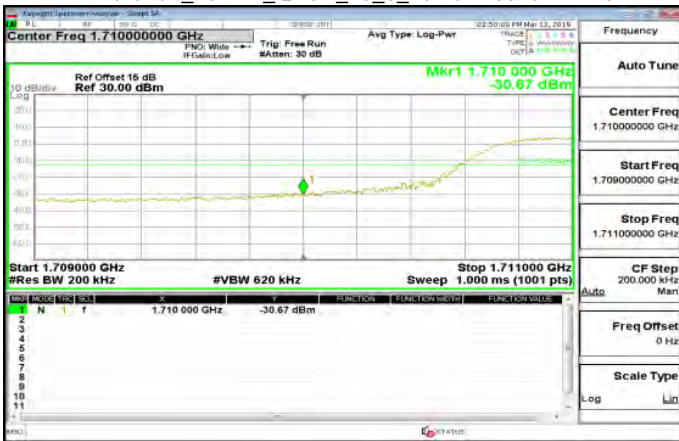
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LTE\Band4_20MHz_QPSK_1_0_LowCH20050-1720



LTE\Band4_15MHz_QPSK_75_0_LowCH20025-1717.5



LTE\Band4_20MHz_QPSK_1_99_HighCH20300-1745

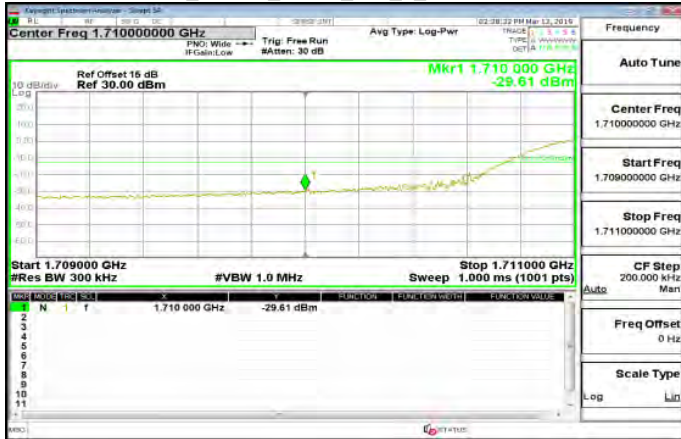


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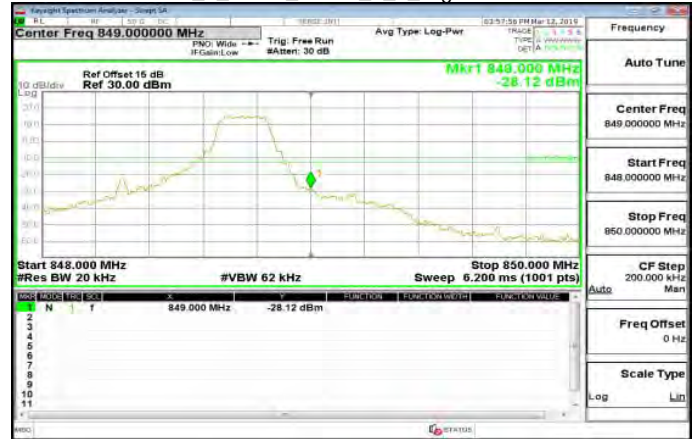
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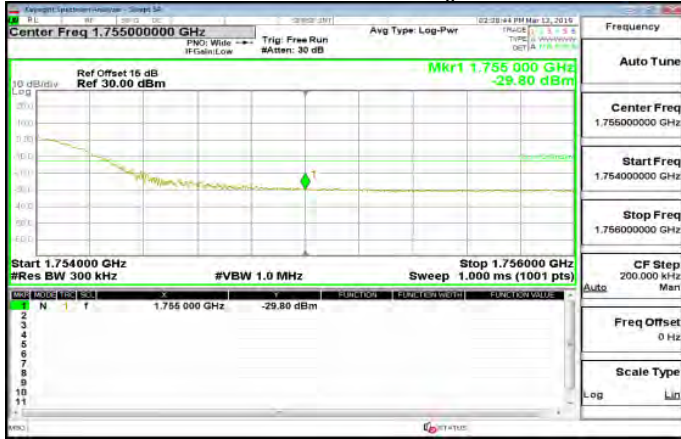
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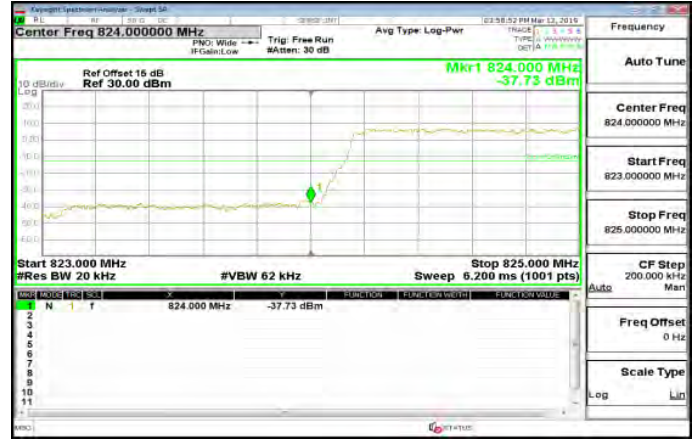
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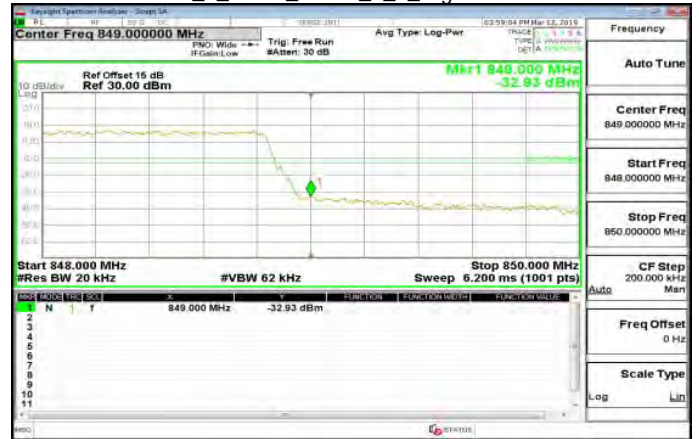
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LTE\Band5_1_4MHz_QPSK_1_0_LowCH20407-824.7



LTE\Band5_1_4MHz_QPSK_6_0_HighCH20643-848.3



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LTE\Band5_3MHz_QPSK_1_0_LowCH20415-825.5



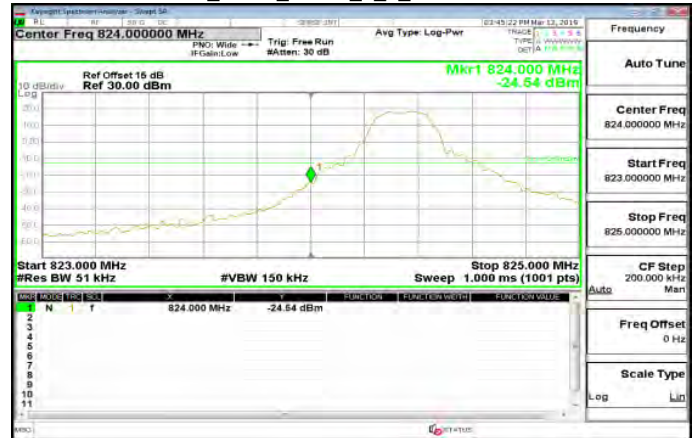
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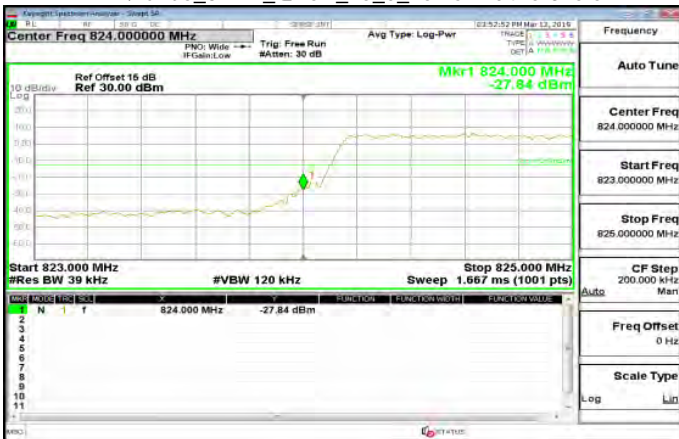
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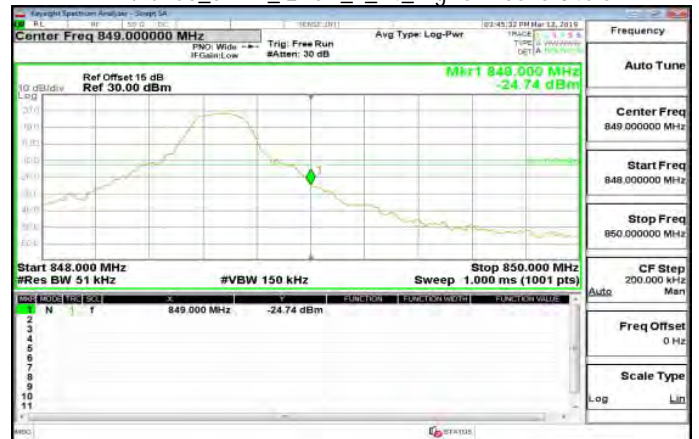
LTE\Band5_5MHz_QPSK_1_0_LowCH20425-826.5



LTE\Band5_3MHz_QPSK_15_0_LowCH20415-825.5



LTE\Band5_5MHz_QPSK_1_24_HighCH20625-846.5



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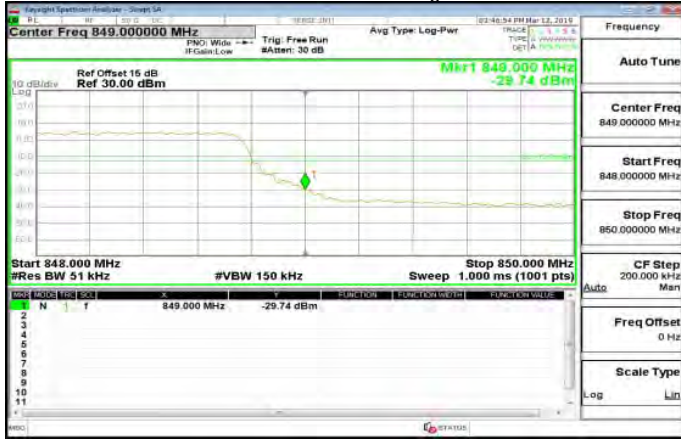
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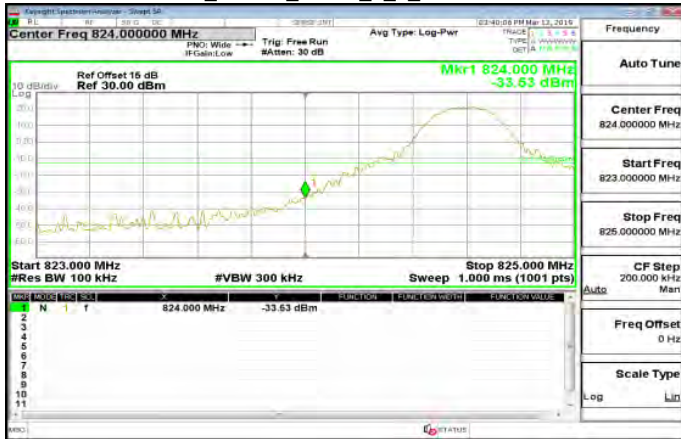
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LTE\Band5_10MHz_QPSK_50_0_LowCH20450-829



LTE\Band5_10MHz_QPSK_1_0_LowCH20450-829



LTE\Band5_10MHz_QPSK_50_0_HighCH20600-844



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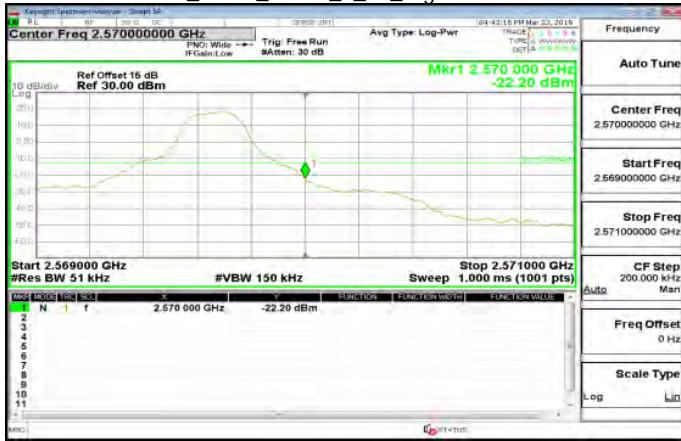
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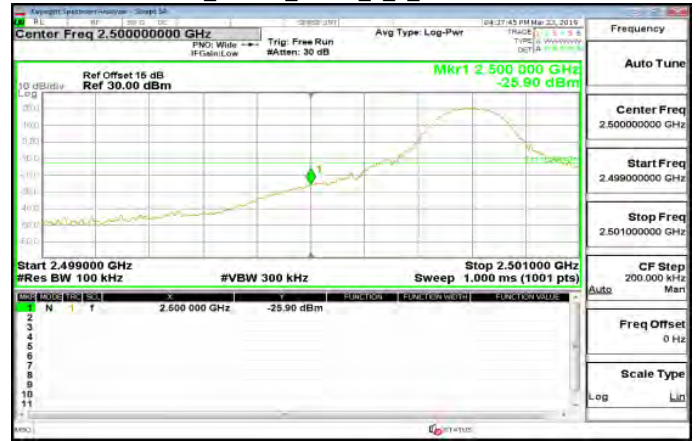
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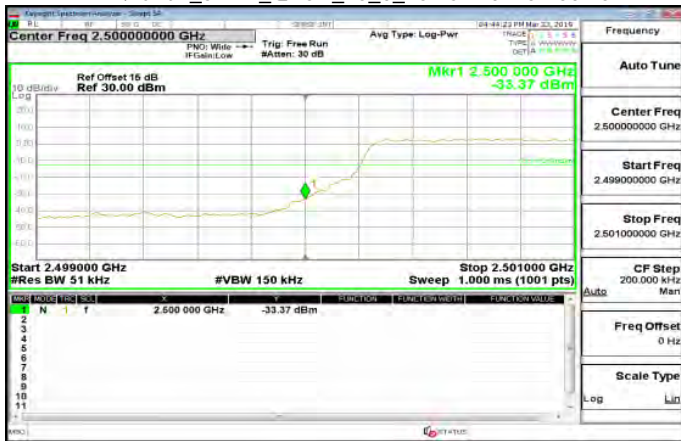
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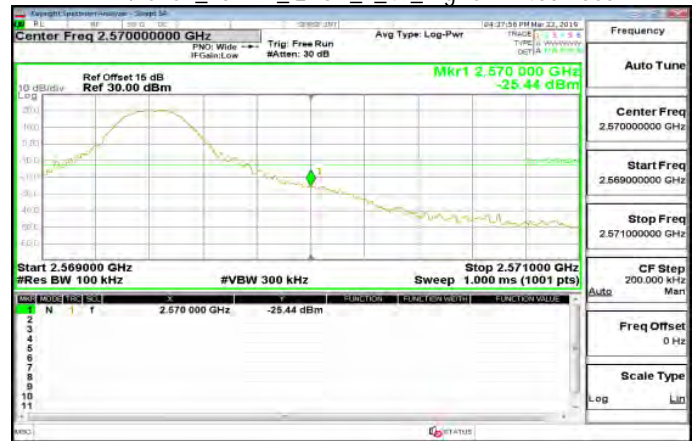
LTE\Band7_10MHz_QPSK_1_0_LowCH20800-2505



LTE\Band7_5MHz_QPSK_25_0_LowCH20775-2502.5



LTE\Band7_10MHz_QPSK_1_49_HighCH21400-2565



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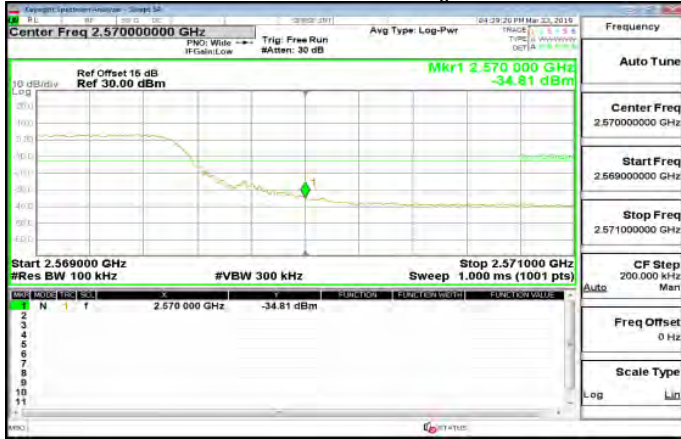
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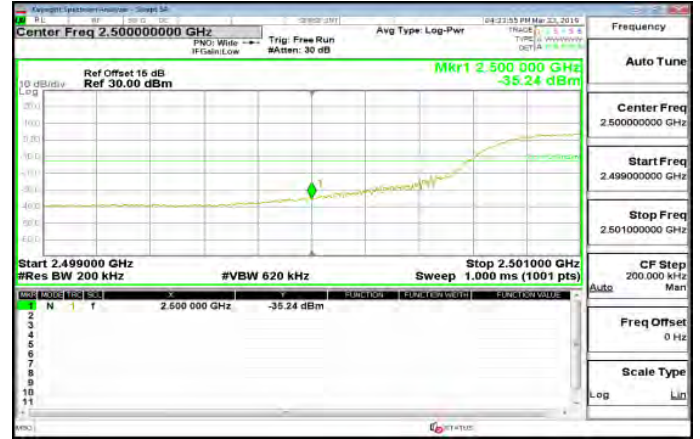
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LTE\Band7_10MHz_QPSK_50_0_HighCH21400-2565



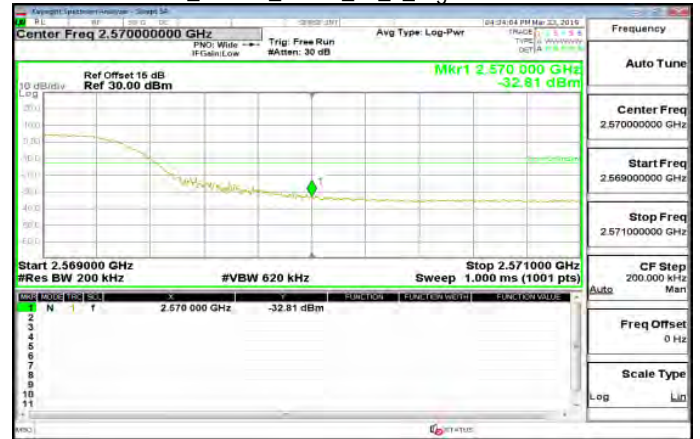
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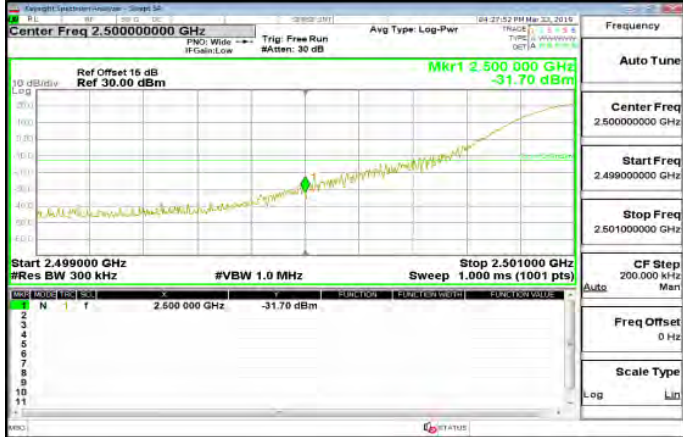


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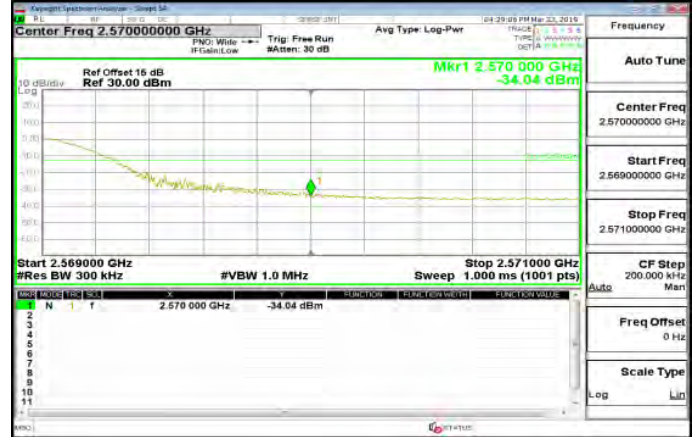
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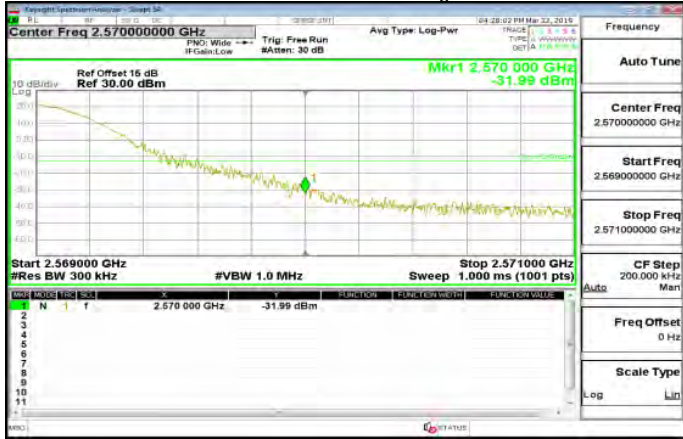
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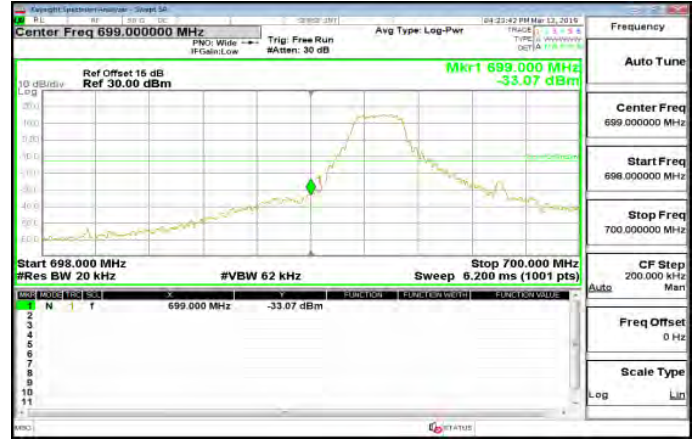
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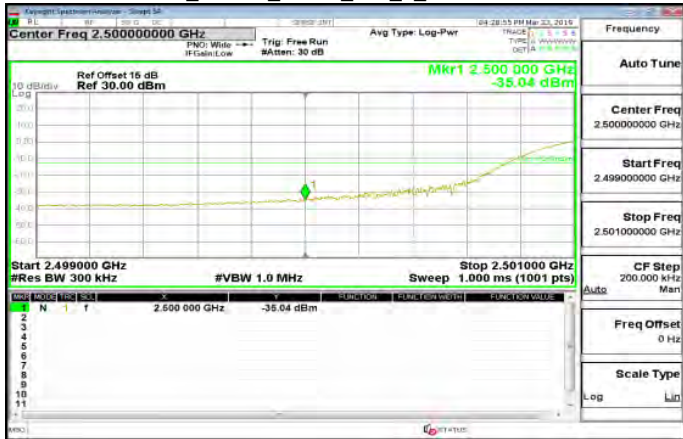
LTE\Band7_20MHz_QPSK_1_99_HighCH21350-2560



LTE\Band12_1_4MHz_QPSK_1_0_LowCH23017-699.7



LTE\Band7_20MHz_QPSK_100_0_LowCH20850-2510



LTE\Band12_1_4MHz_QPSK_1_5_HighCH23173-715.3



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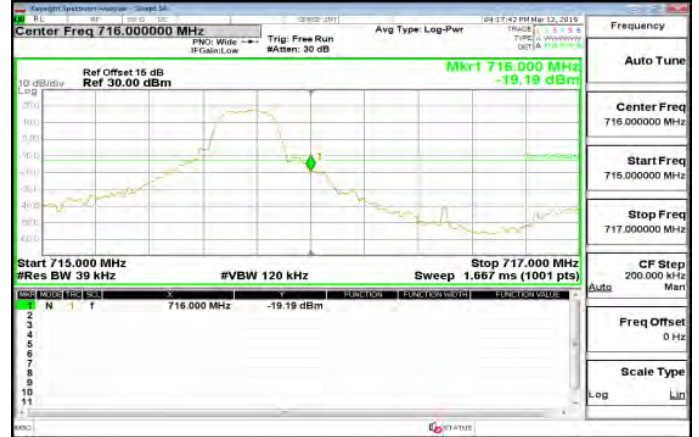
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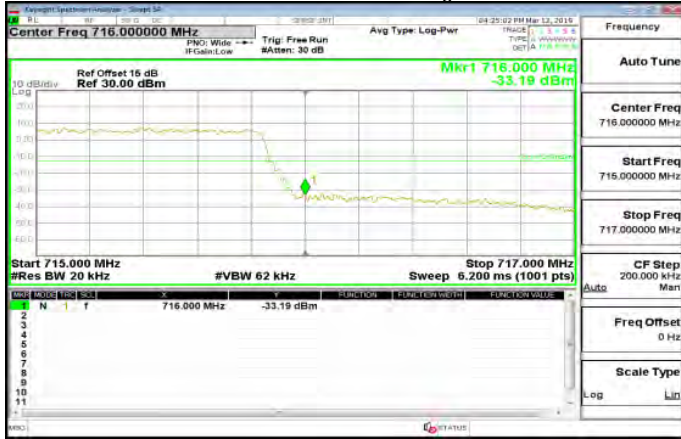
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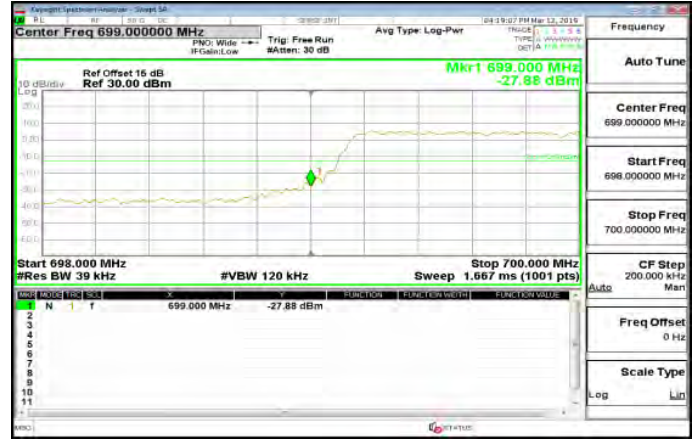
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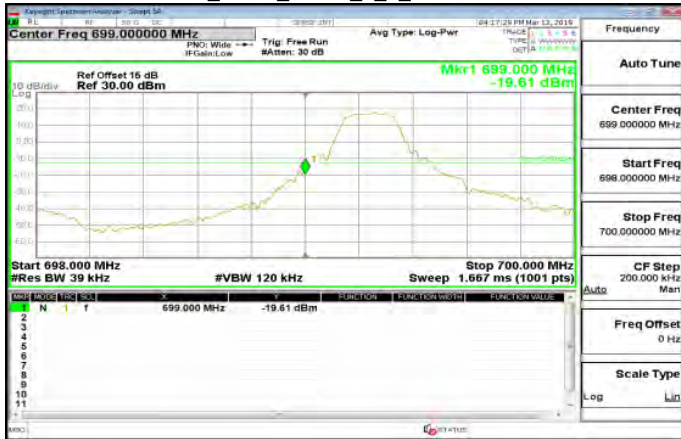
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LTE\Band12_3MHz_QPSK_15_0_LowCH23025-700.5



LTE\Band12_3MHz_QPSK_1_0_LowCH23025-700.5



LTE\Band12_3MHz_QPSK_15_0_HighCH23165-714.5



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LTE\Band12_5MHz_QPSK_25_0_HighCH23155-713.5



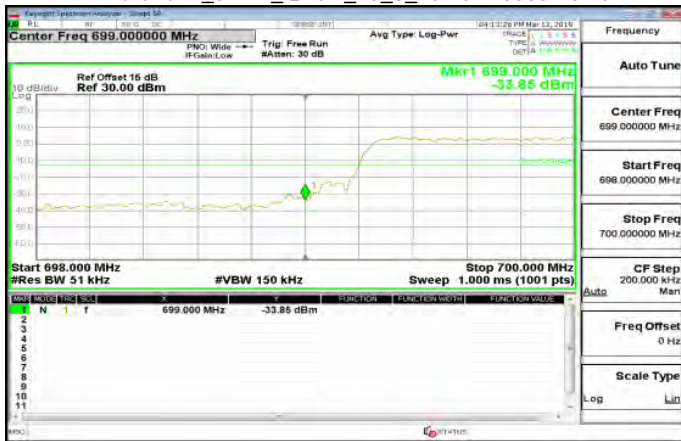
LTE\Band12_5MHz_QPSK_1_24_HighCH23155-713.5



LTE\Band12_10MHz_QPSK_1_0_LowCH23060-704



LTE\Band12_5MHz_QPSK_25_0_LowCH23035-701.5



LTE\Band12_10MHz_QPSK_1_49_HighCH23130-711

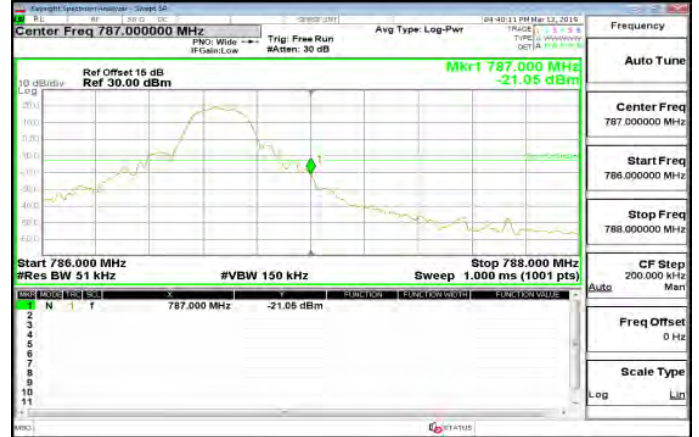


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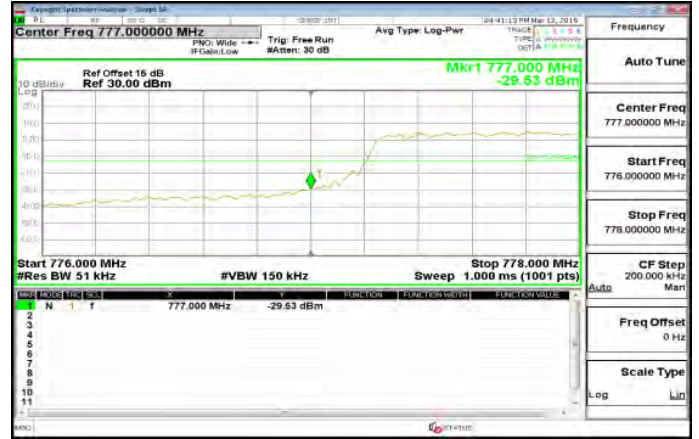
LTE\Band13_5MHz_QPSK_1_24_HighCH23255-784.5



LTE\Band12_10MHz_QPSK_50_0_HighCH23130-711



LTE\Band13_5MHz_QPSK_25_0_LowCH23205-779.5



LTE\Band13_5MHz_QPSK_1_0_LowCH23205-779.5



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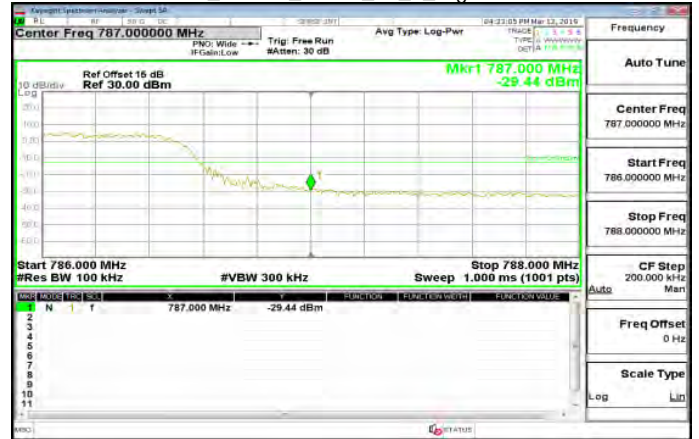
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LTE\Band13_10MHz_QPSK_1_0_LowCH23230-782



LTE\Band13_10MHz_QPSK_50_0_HighCH23230-782



LTE\Band13_10MHz_QPSK_1_49_HighCH23230-782



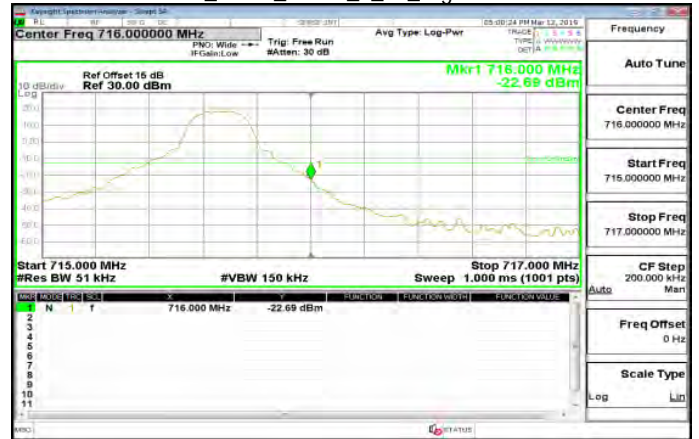
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LTE\Band13_10MHz_QPSK_50_0_LowCH23230-782



LTE\Band17_5MHz_QPSK_1_24_HighCH23825-713.5

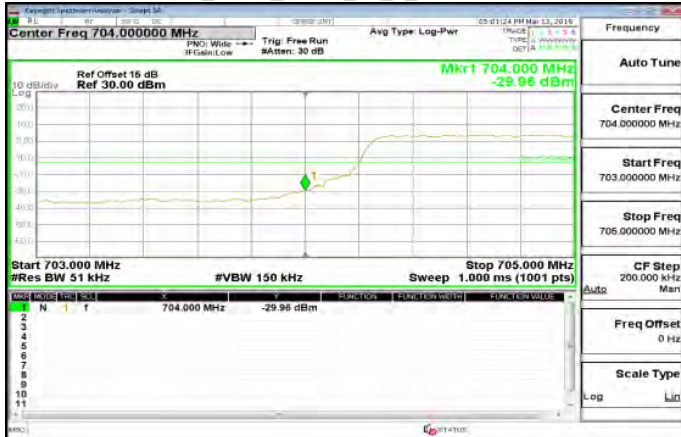


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LTEBand17_5MHz_QPSK_25_0_LowCH23755-706.5



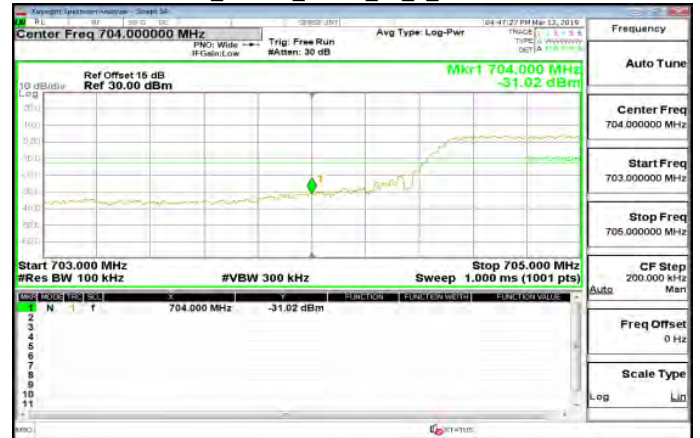
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LTEBand17_5MHz_QPSK_25_0_HighCH23825-713.5



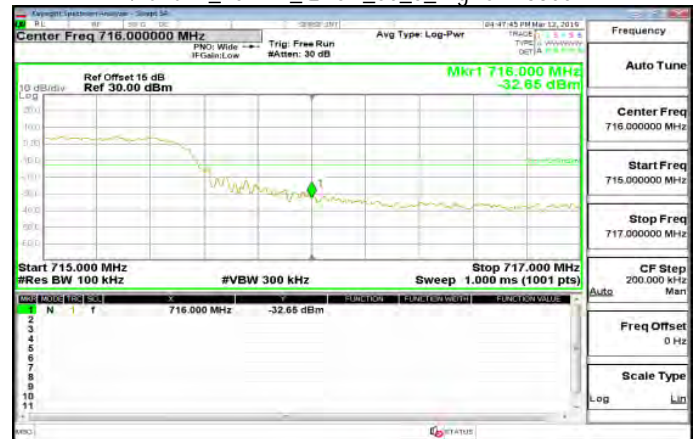
LTEBand17_10MHz_QPSK_50_0_LowCH23780-709



LTEBand17_10MHz_QPSK_1_0_LowCH23780-709



LTEBand17_10MHz_QPSK_50_0_HighCH23800-711



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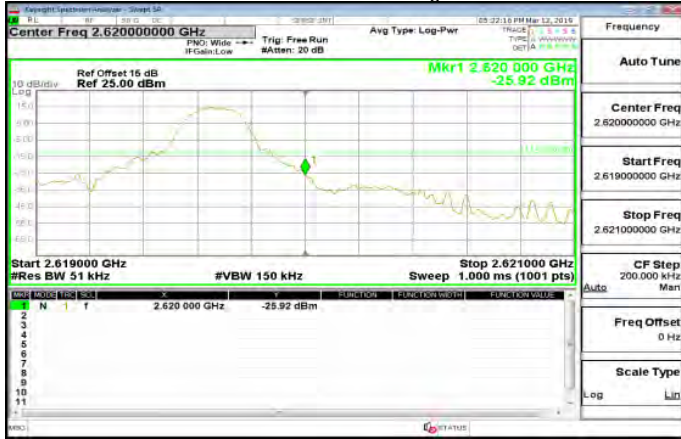
LTE\Band38_5MHz_QPSK_1_0_LowCH37775-2572.5



LTE\Band38_5MHz_QPSK_25_0_HighCH38225-2617.5



LTE\Band38_5MHz_QPSK_1_24_HighCH38225-2617.5



LTE\Band38_10MHz_QPSK_1_0_LowCH37800-2575



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LTE\Band38_10MHz_QPSK_1_49_HighCH38200-2615

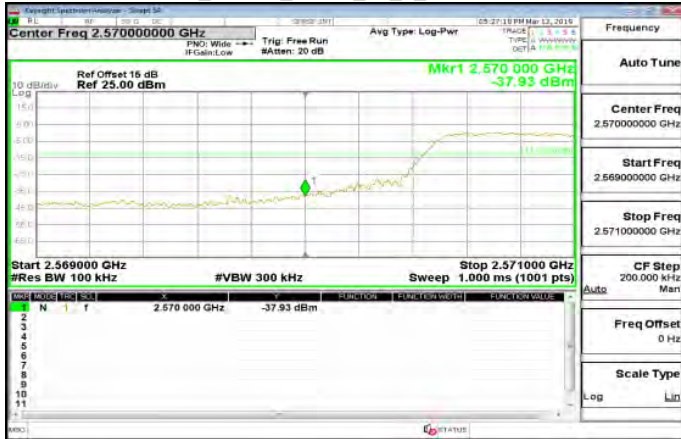


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LTEBand38_10MHz_QPSK_50_0_LowCH37800-2575



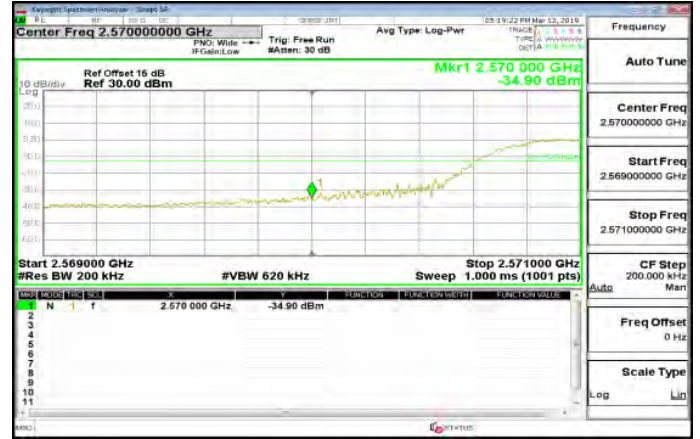
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LTEBand38_10MHz_QPSK_50_0_HighCH38200-2615



LTEBand38_15MHz_QPSK_75_0_LowCH37825-2577.5



LTEBand38_15MHz_QPSK_1_0_LowCH37825-2577.5



LTEBand38_15MHz_QPSK_75_0_HighCH38175-2612.5

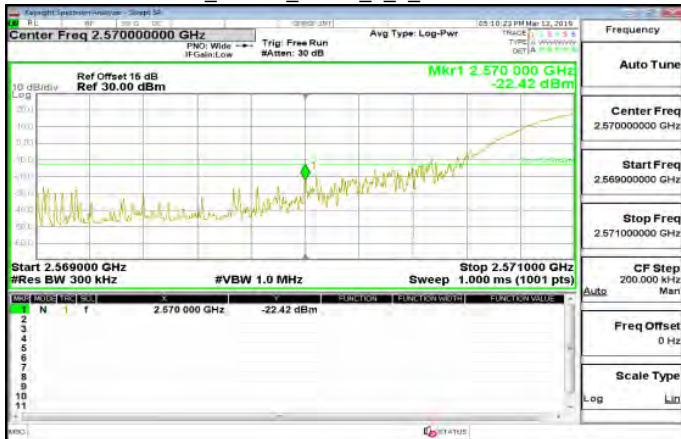


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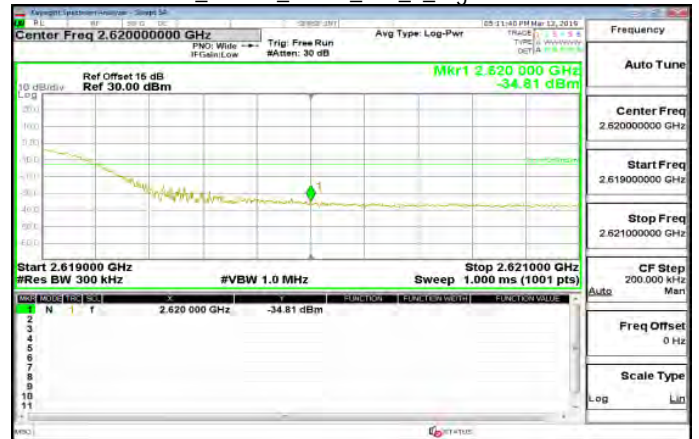
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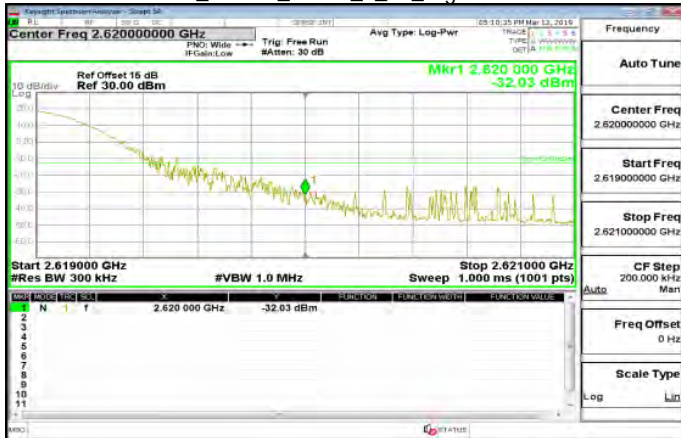
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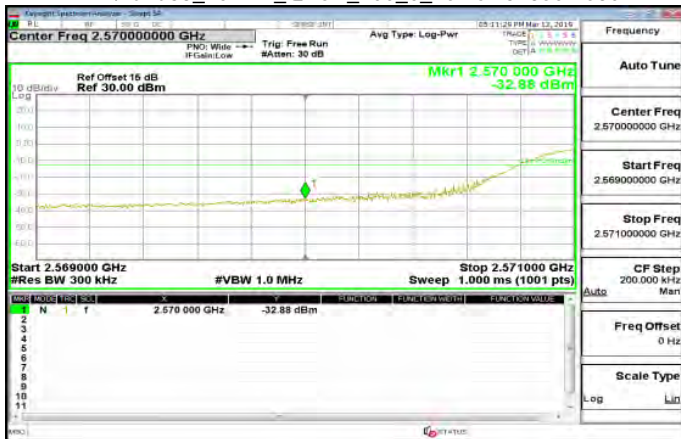
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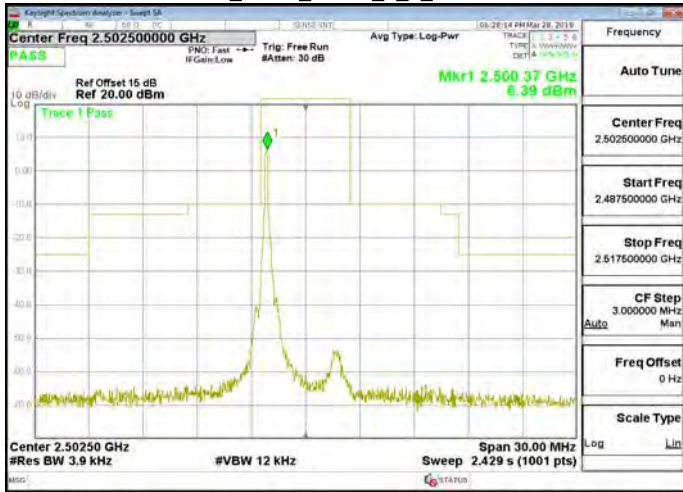


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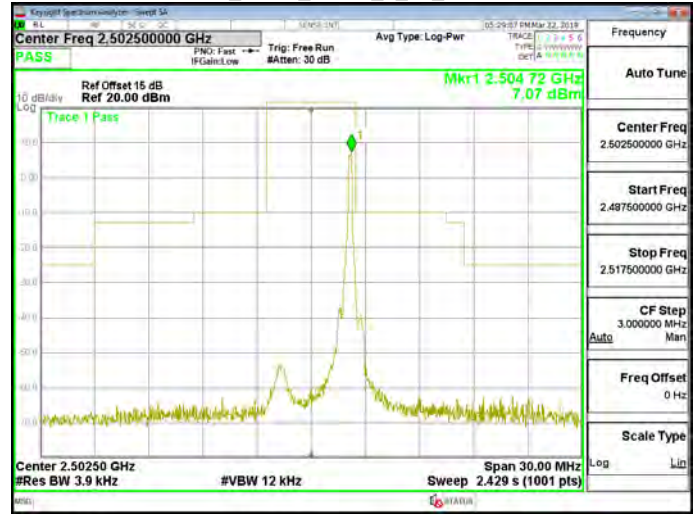
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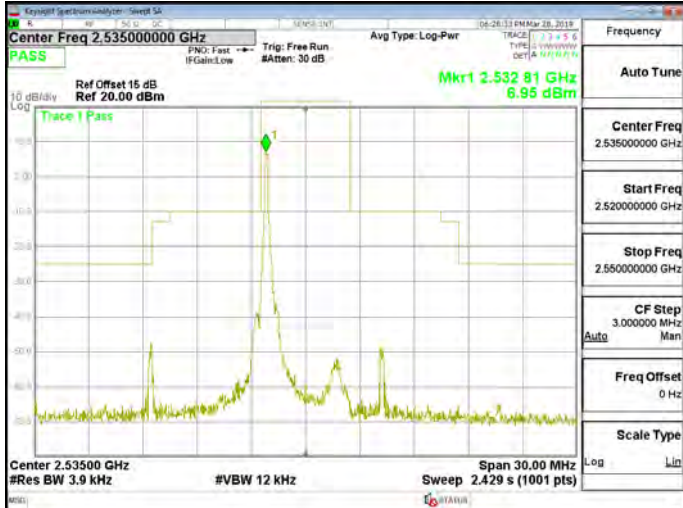
Emission Mask
Band7_5MHz_QPSK_1_0_CH20775



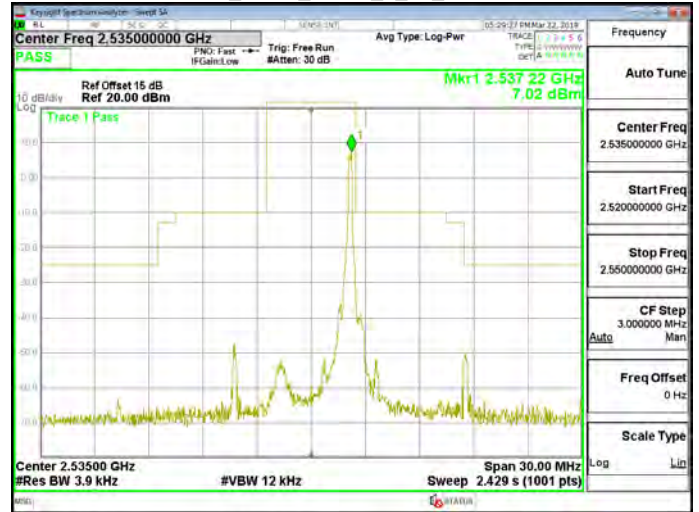
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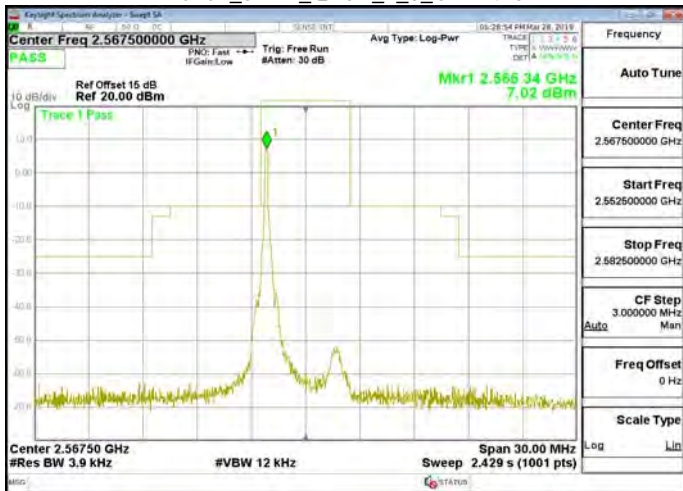
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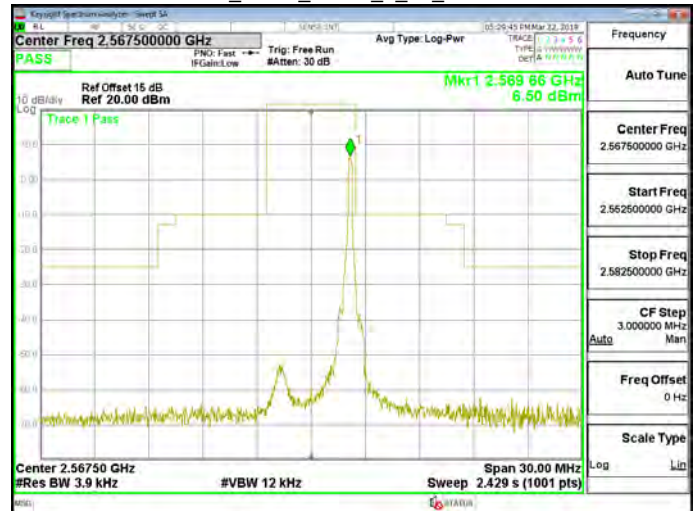
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Band7_5MHz_QPSK_1_0_CH21425



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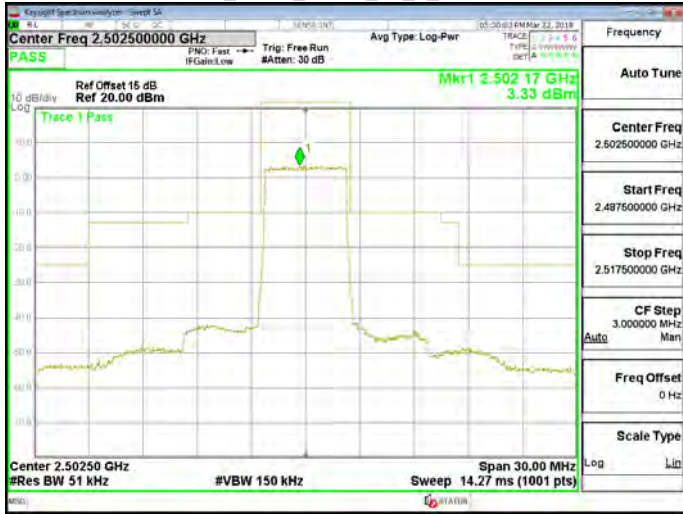


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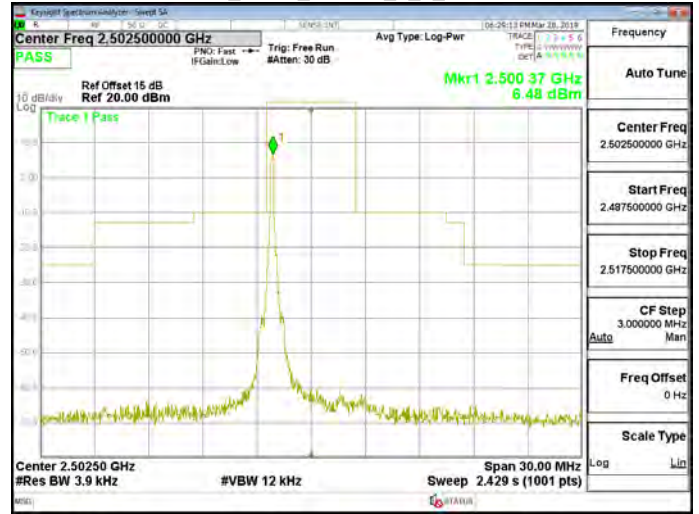
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Band7_5MHz_QPSK_25_0_CH20775



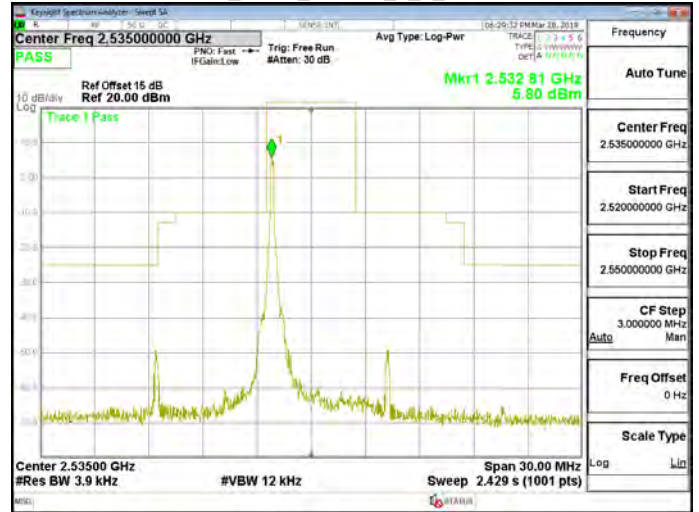
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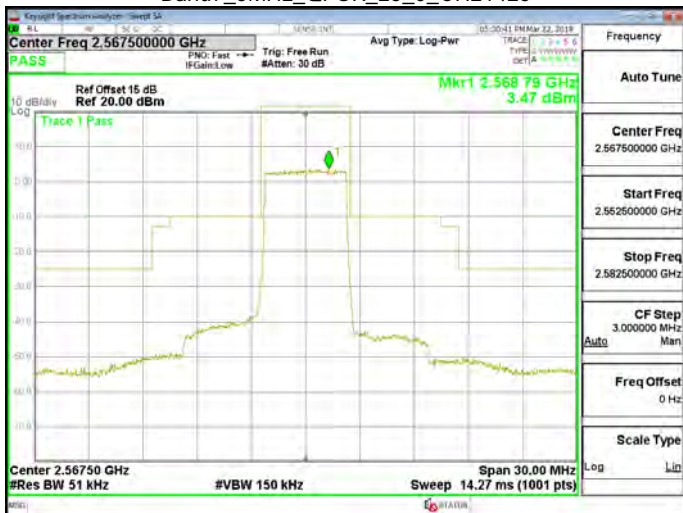
Band7_5MHz_QPSK_25_0_CH21100



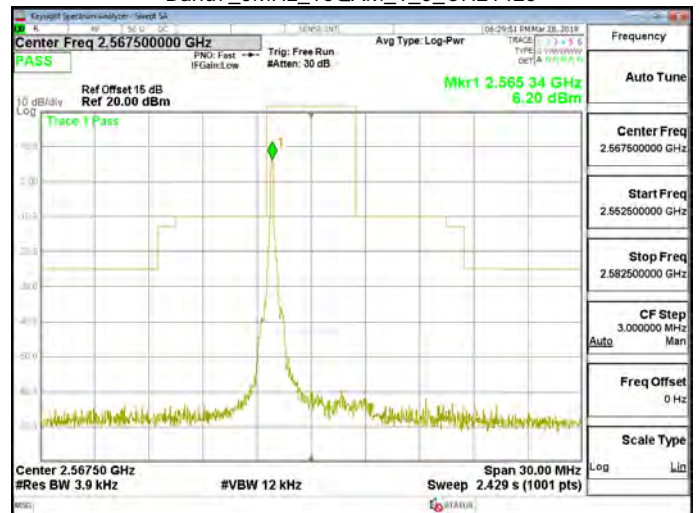
Band7_5MHz_16QAM_1_0_CH21100



Band7_5MHz_QPSK_25_0_CH21425



Band7_5MHz_16QAM_1_0_CH21425

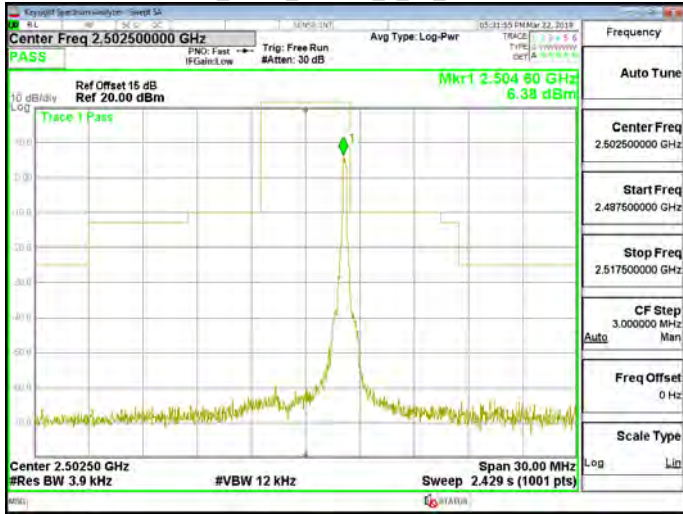


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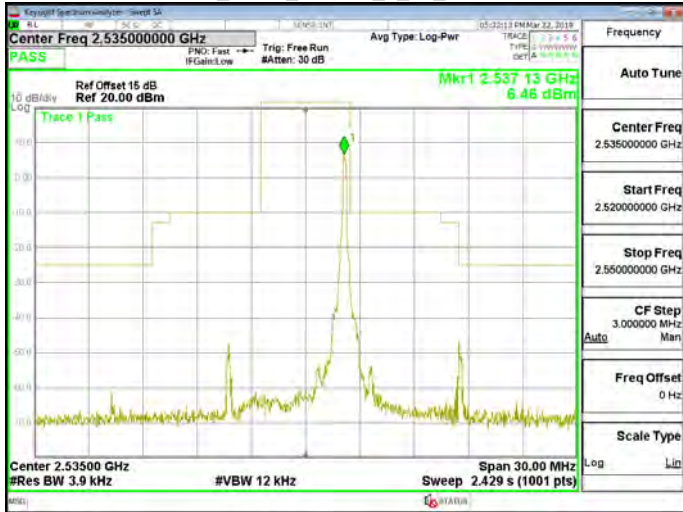
Band7_5MHz_16QAM_1_24_CH20775



Band7_5MHz_16QAM_25_0_CH20775



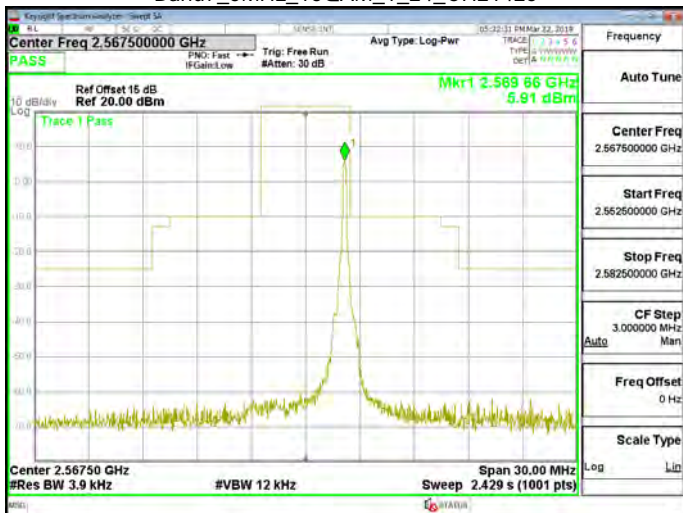
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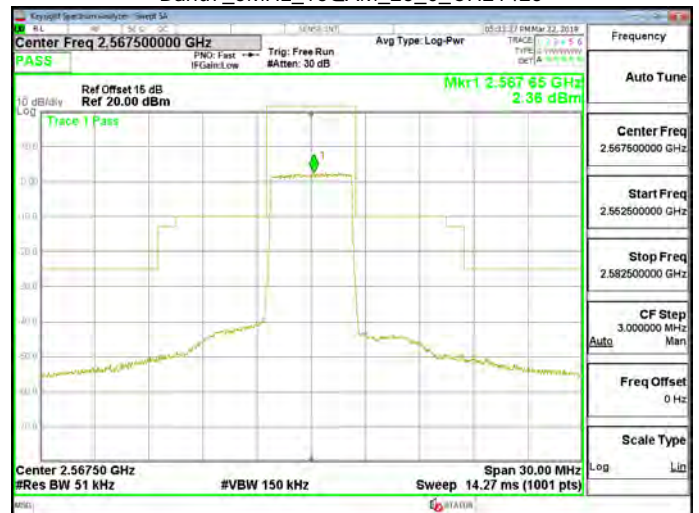
Band7_5MHz_16QAM_25_0_CH21100



Band7_5MHz_16QAM_1_24_CH21425



Band7_5MHz_16QAM_25_0_CH21425

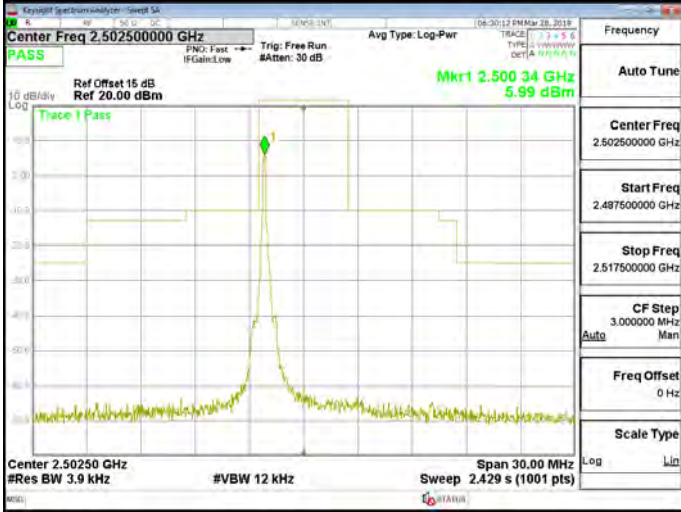


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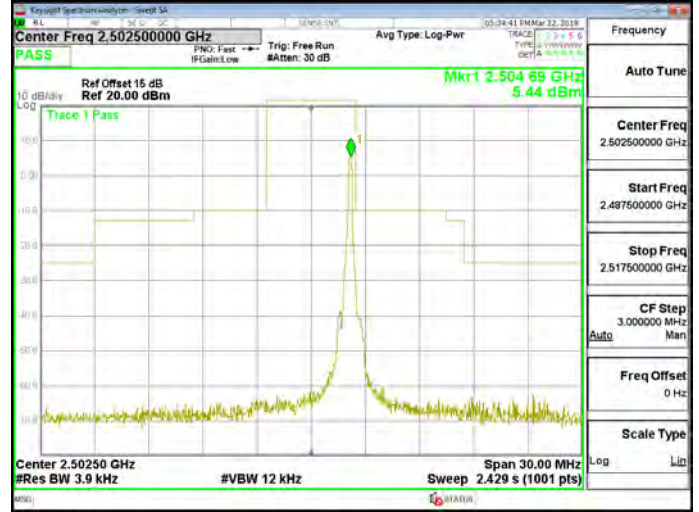
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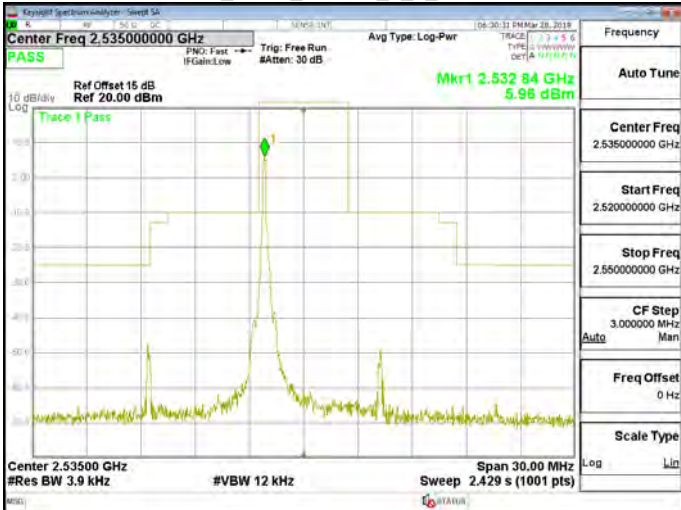
Band7_5MHz_64QAM_1_0_CH20775



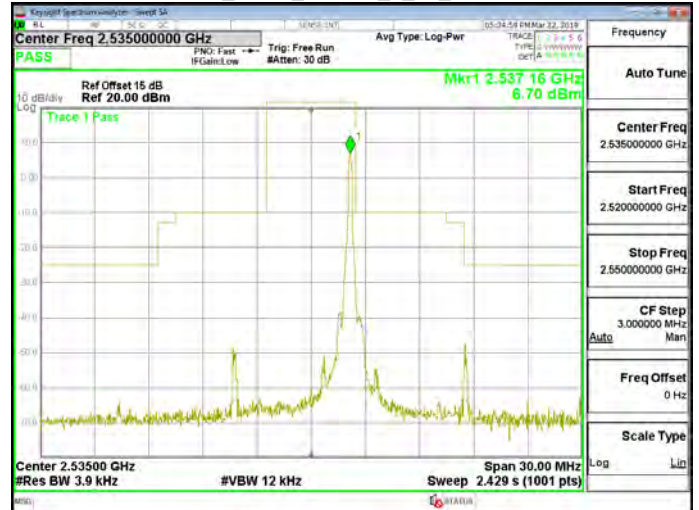
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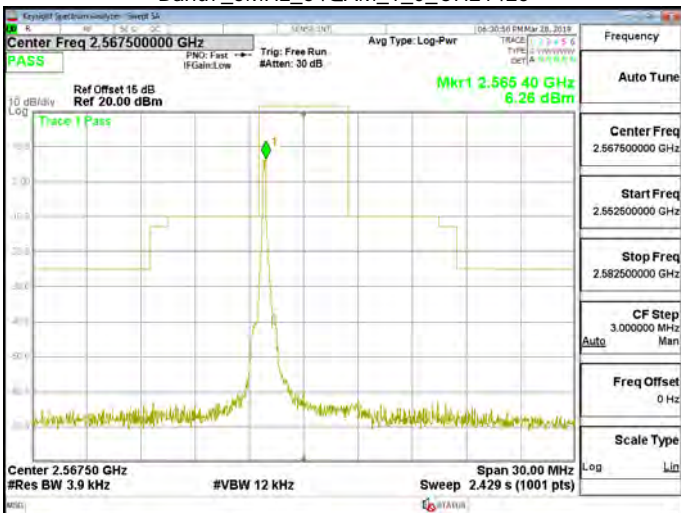
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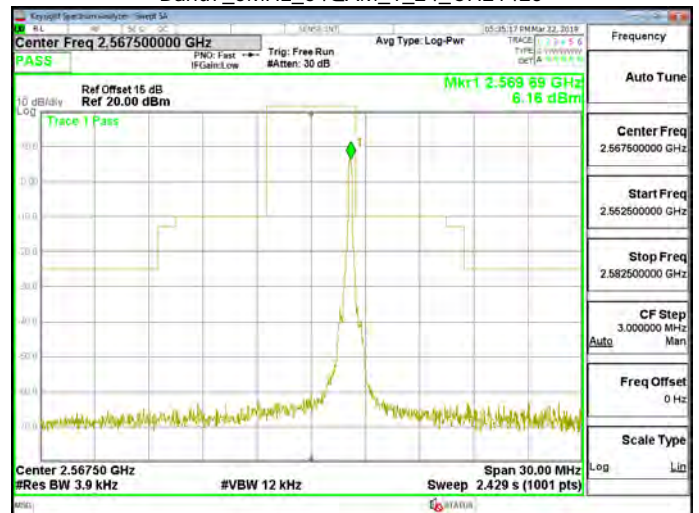
Band7_5MHz_64QAM_1_24_CH21100



Band7_5MHz_64QAM_1_0_CH21425



Band7_5MHz_64QAM_1_24_CH21425



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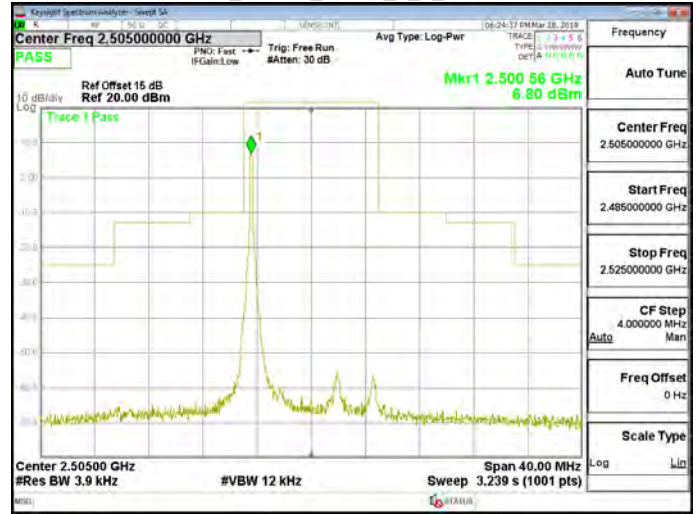
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Band7_5MHz_64QAM_25_0_CH20775



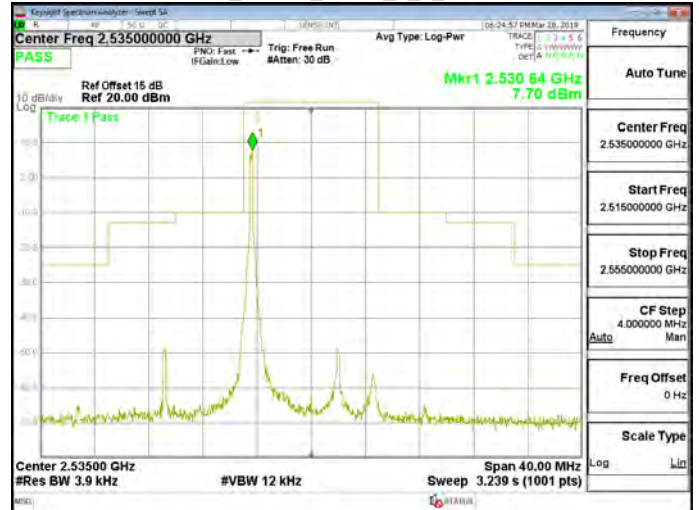
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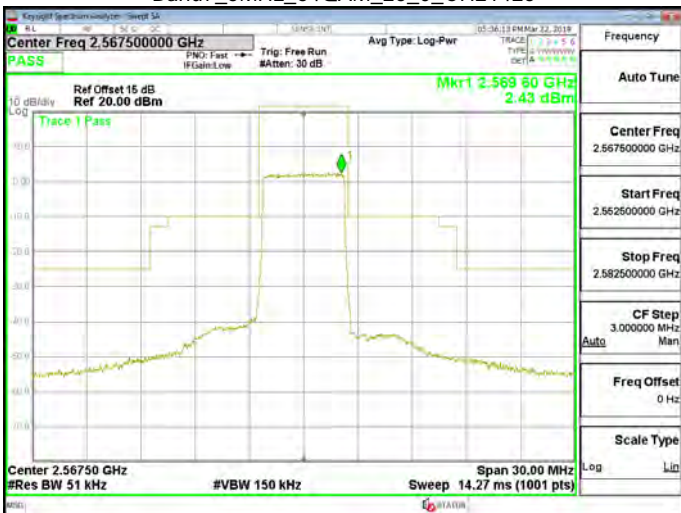
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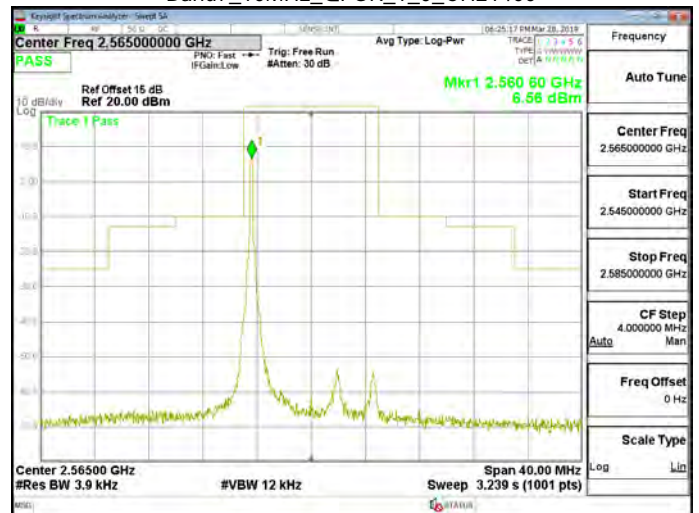
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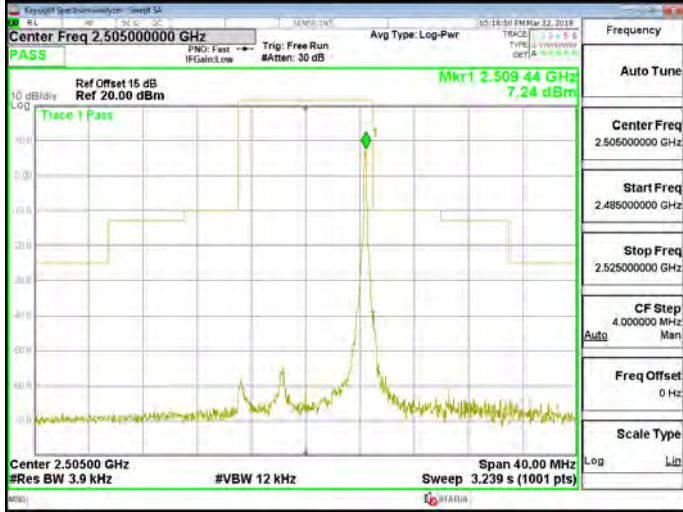


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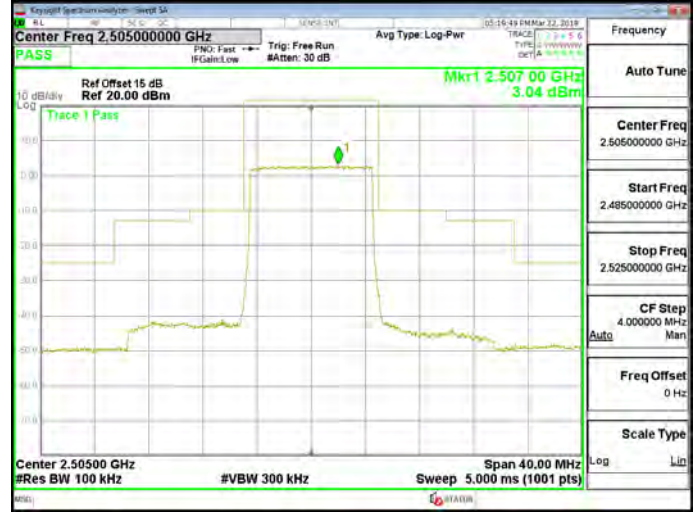
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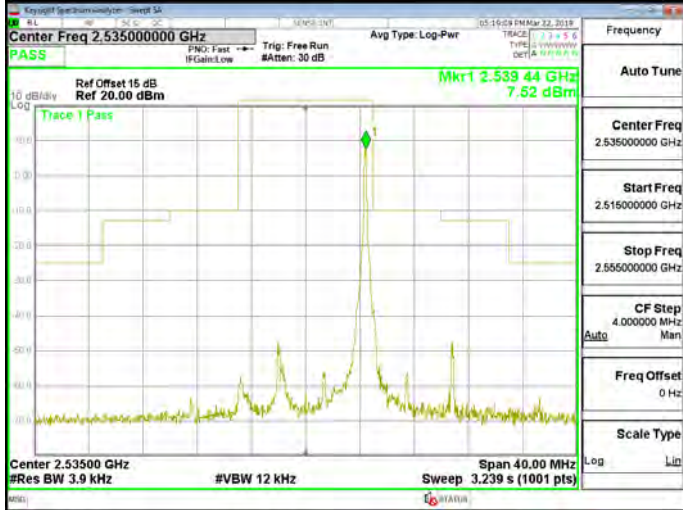
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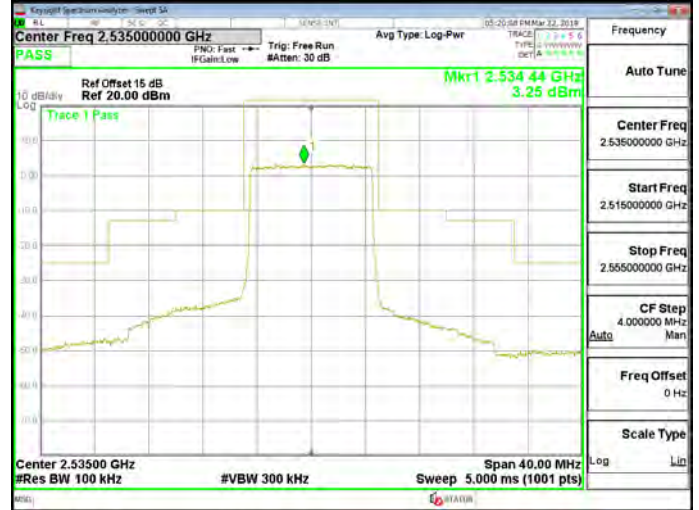
Band7_10MHz_QPSK_50_0_CH20800



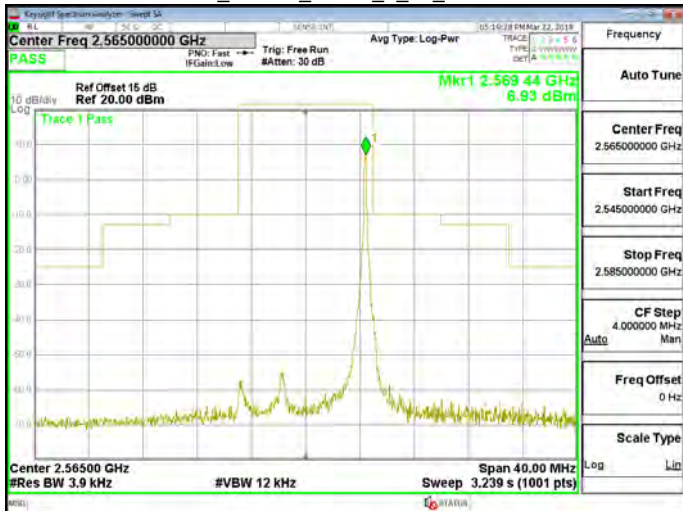
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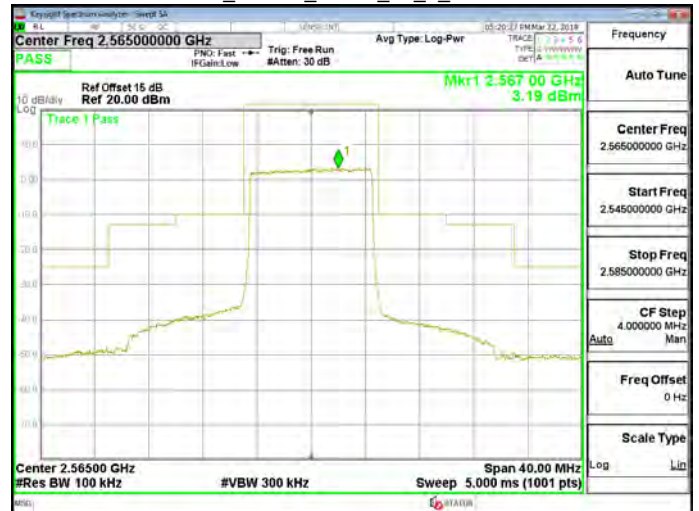
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Band7_10MHz_QPSK_1_49_CH21400



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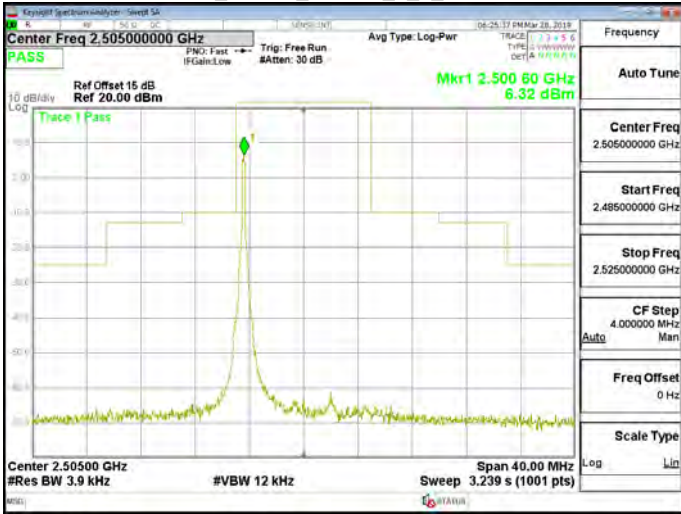


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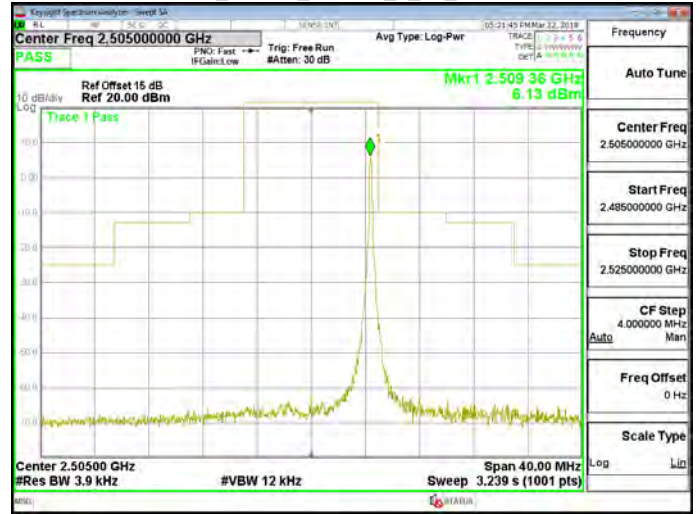
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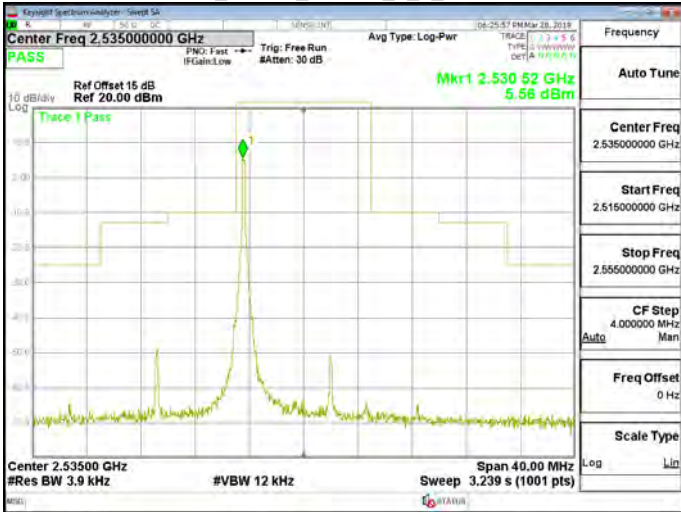
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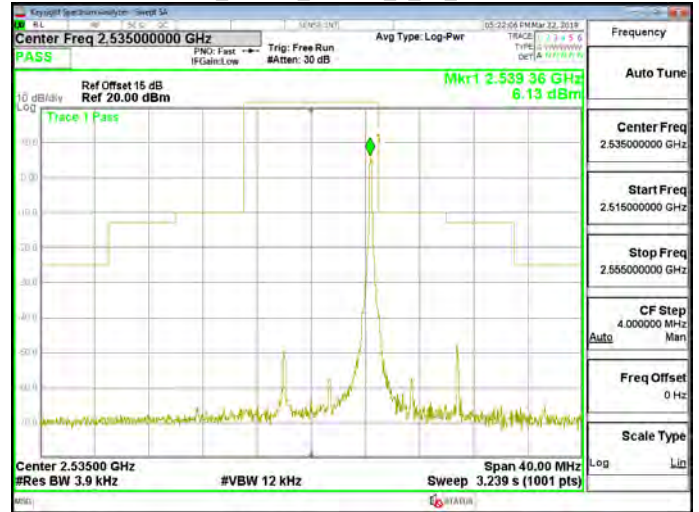
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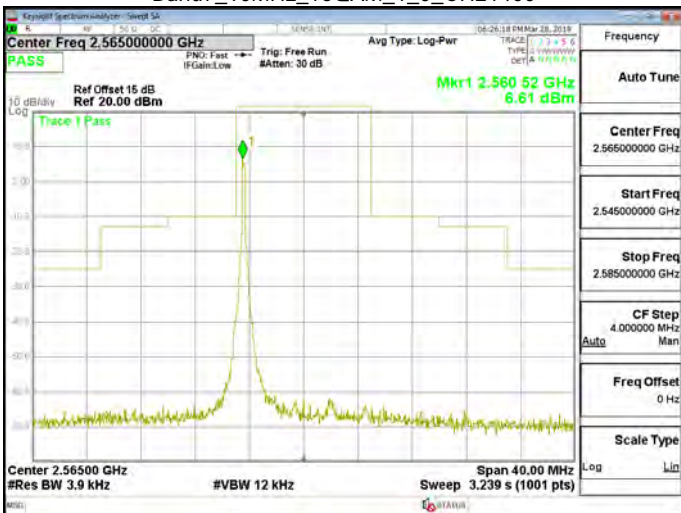
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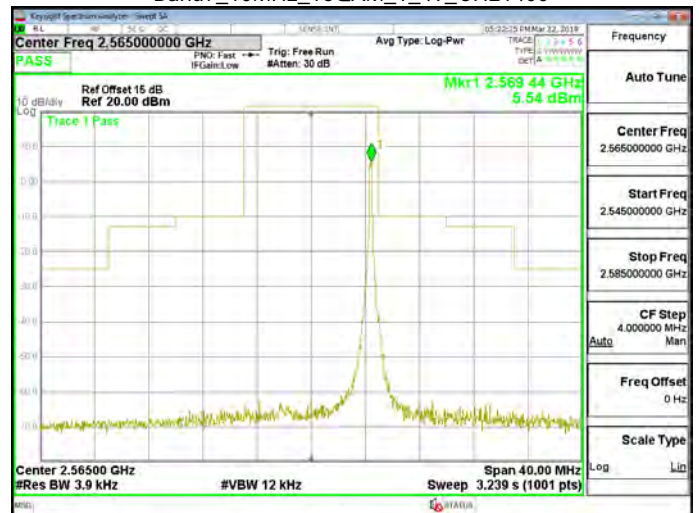
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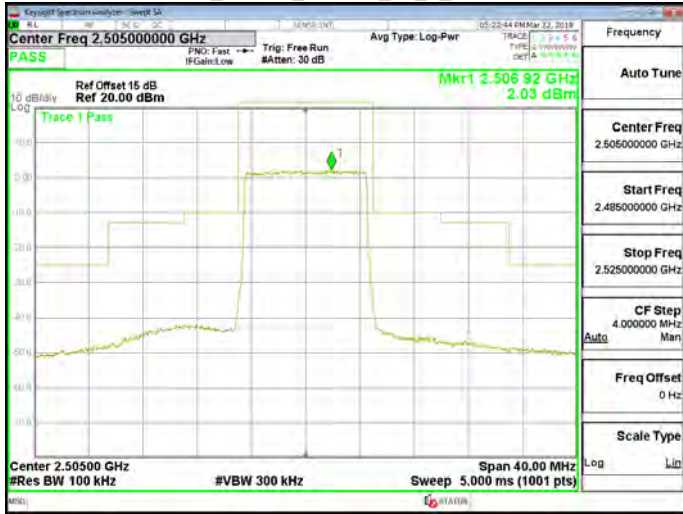


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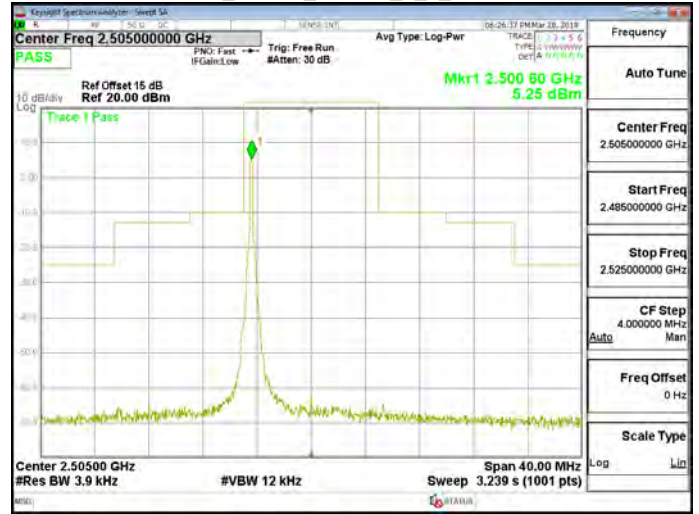
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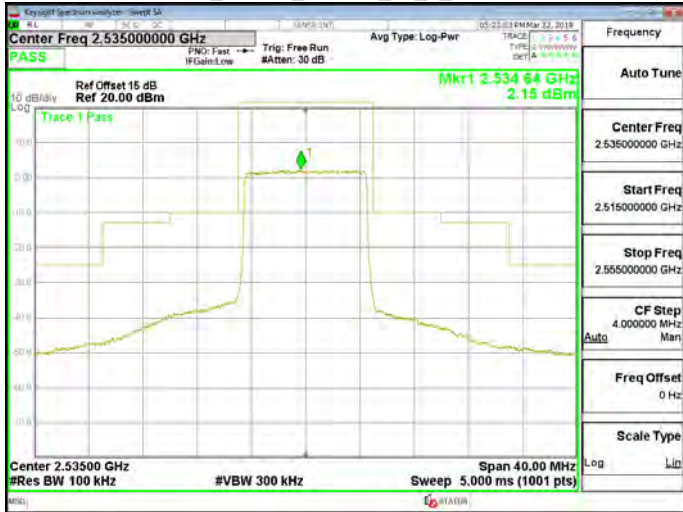
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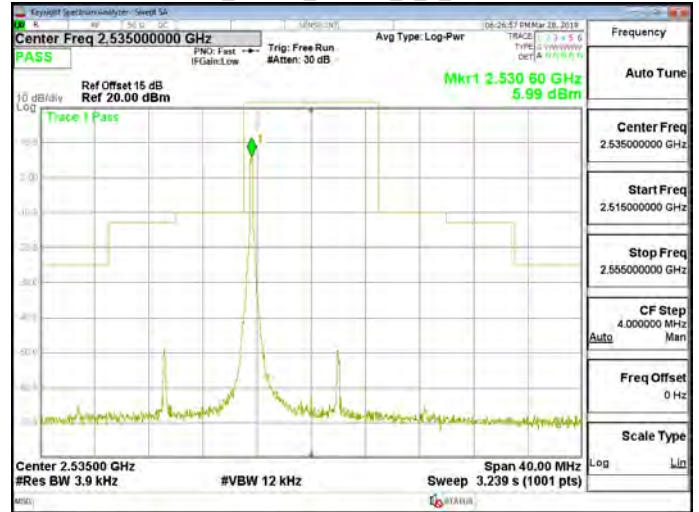
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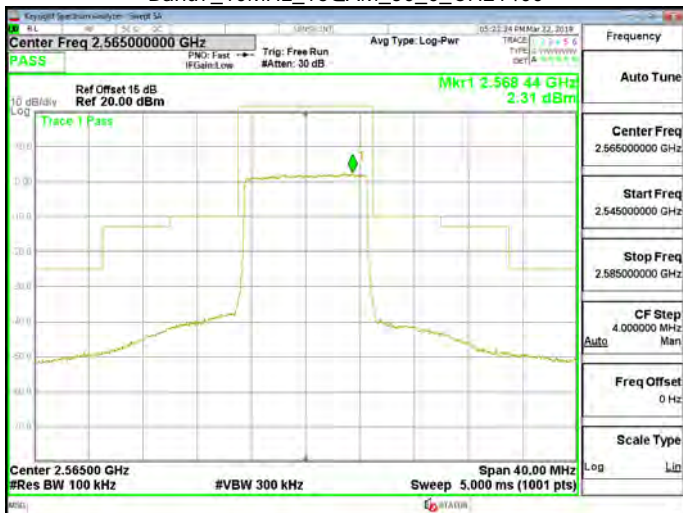
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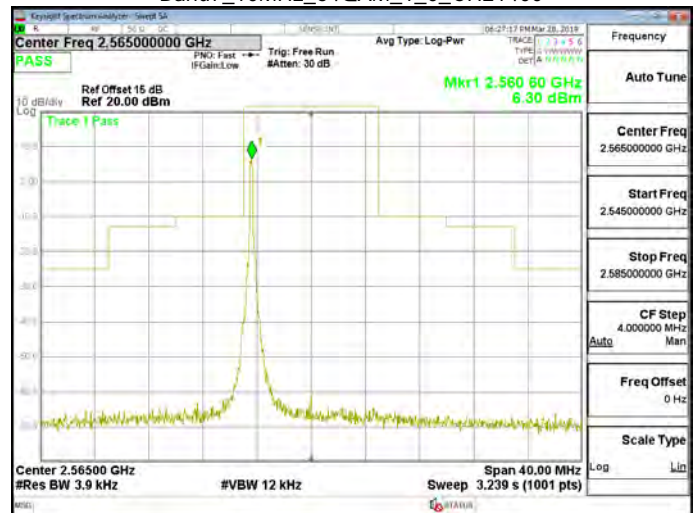
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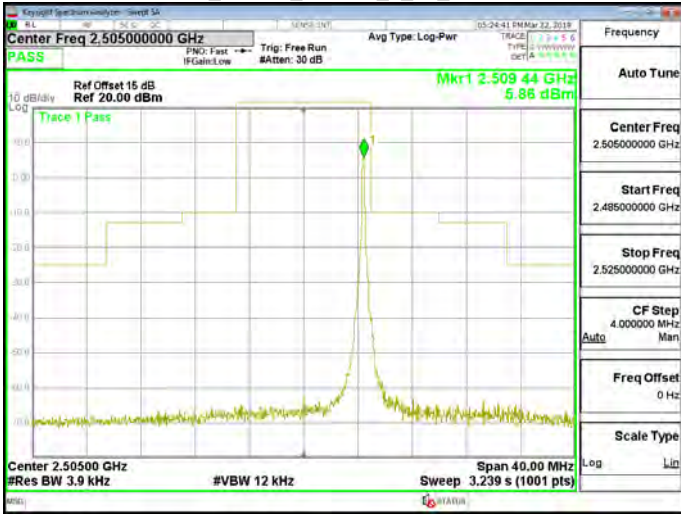


Band7_10MHz_64QAM_1_0_CH21400



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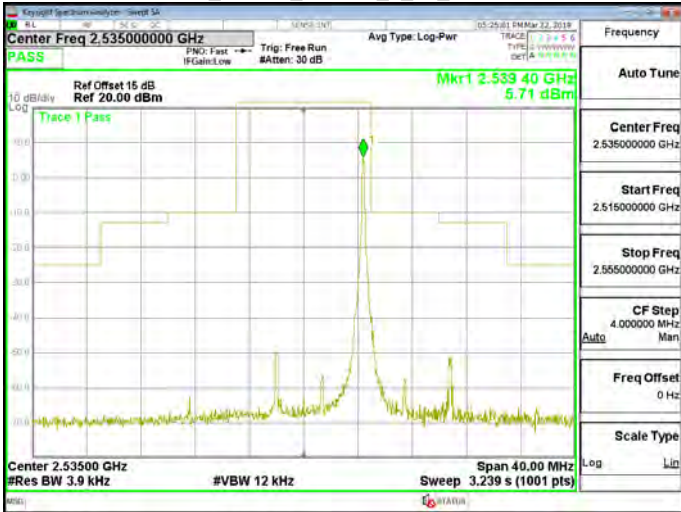
Band7_10MHz_64QAM_1_49_CH20800



Band7_10MHz_64QAM_50_0_CH20800



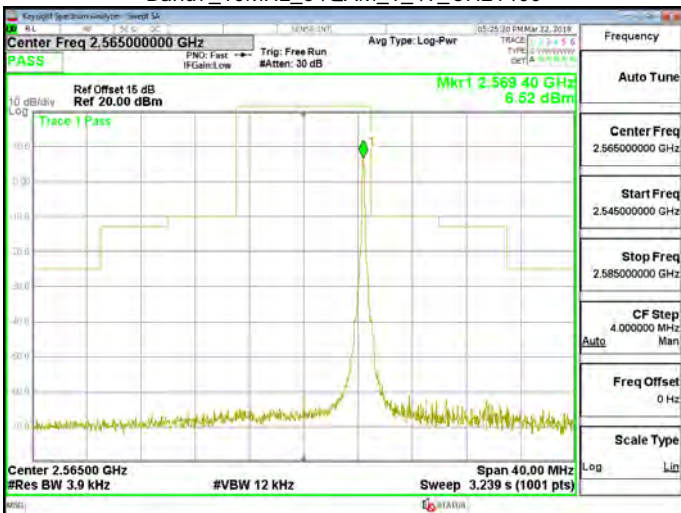
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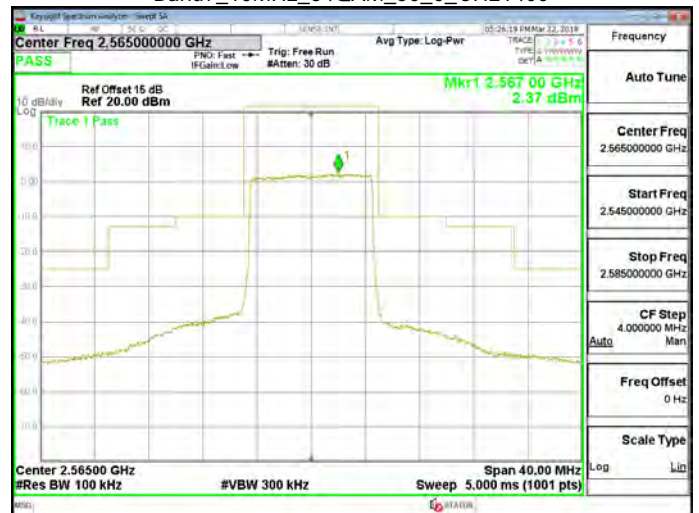
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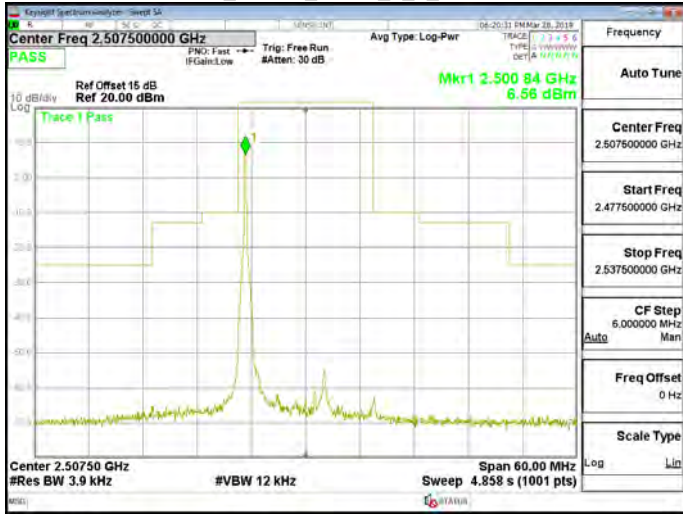


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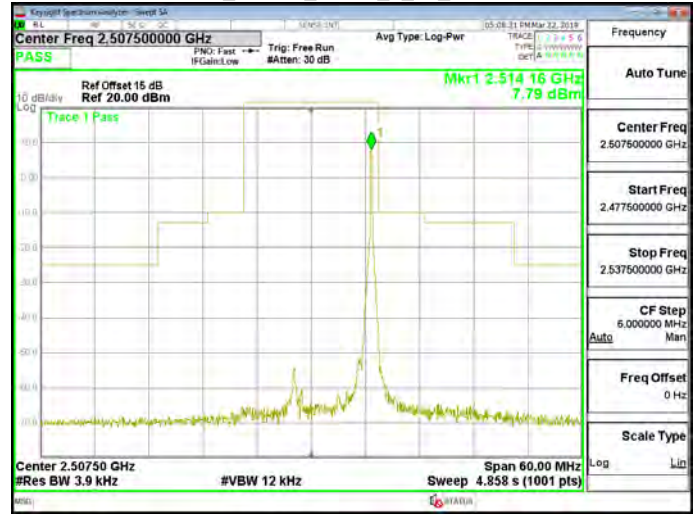
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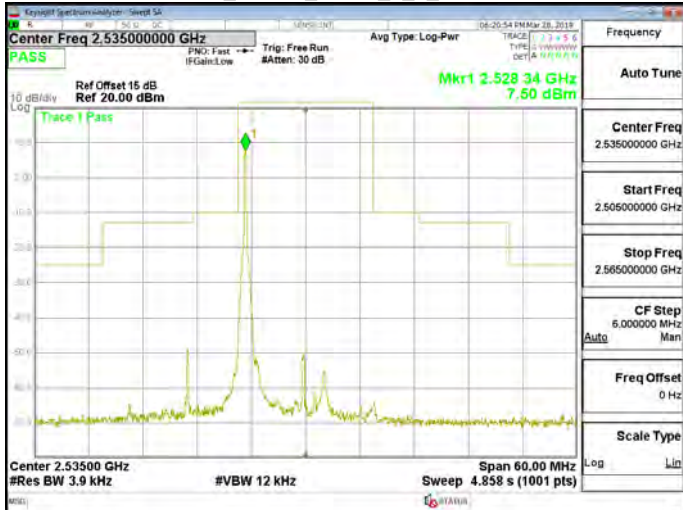
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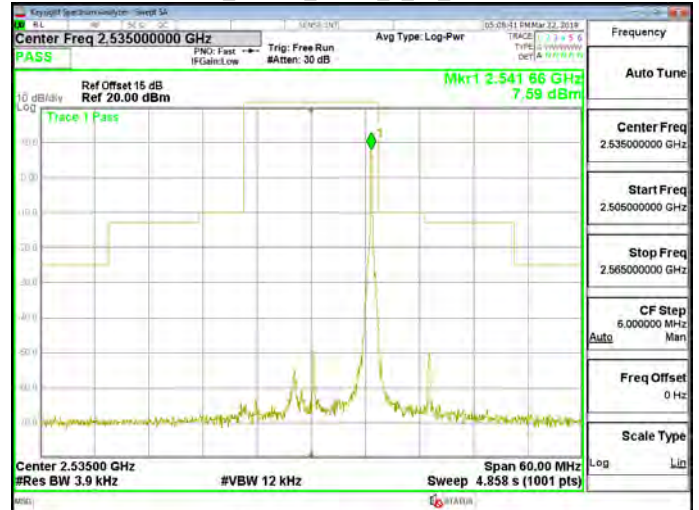
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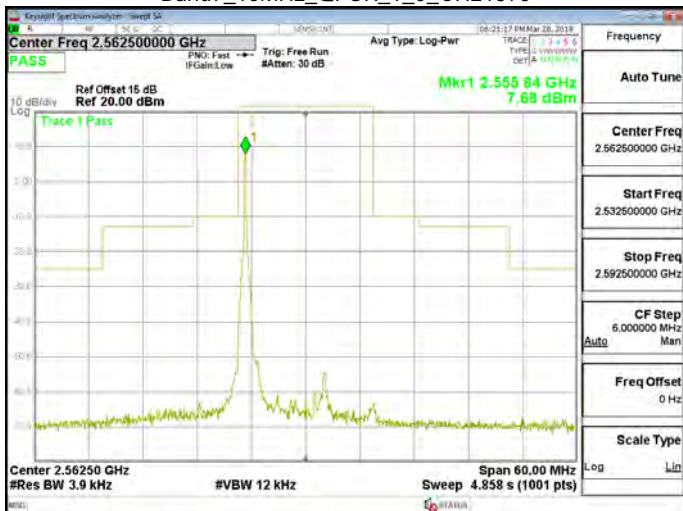
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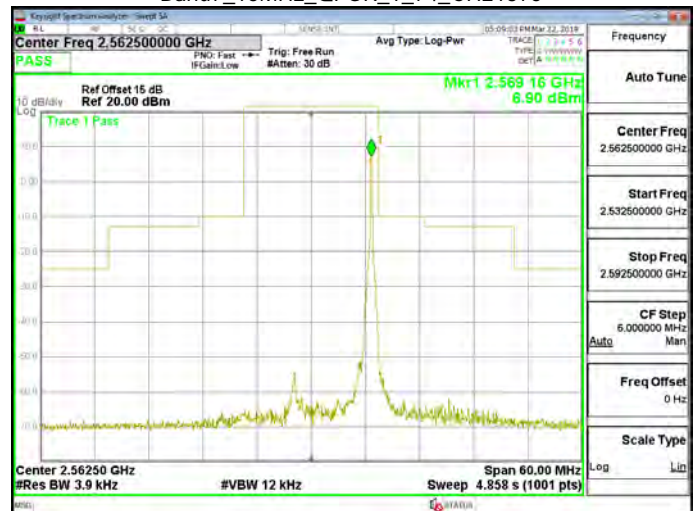
Band7_15MHz_QPSK_1_74_CH21100



Band7_15MHz_QPSK_1_0_CH21375



Band7_15MHz_QPSK_1_74_CH21375

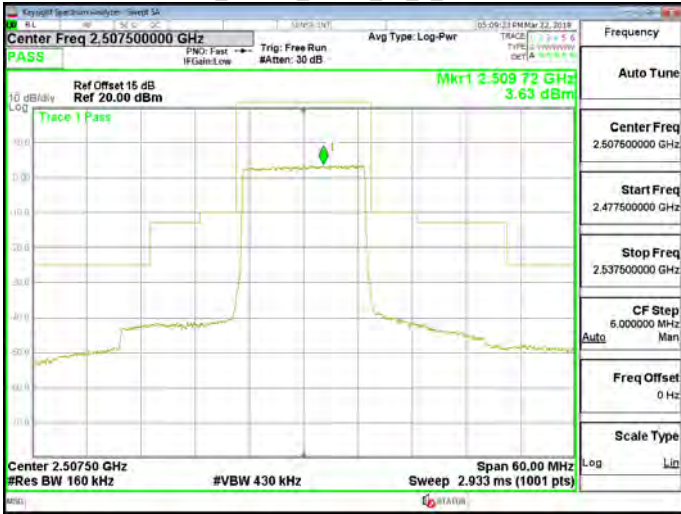


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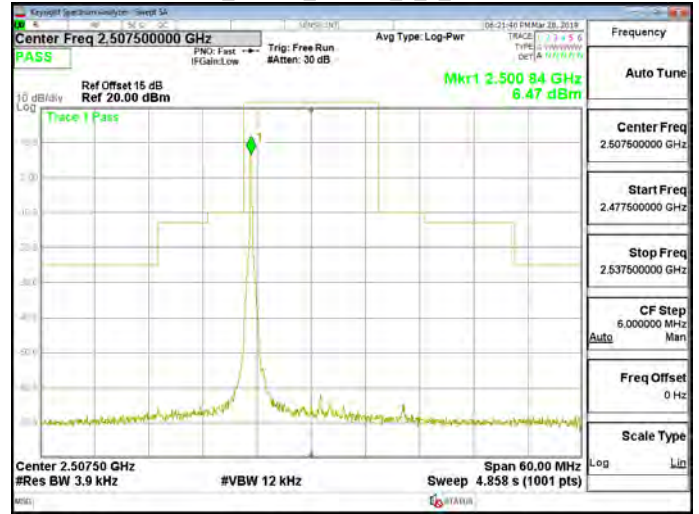
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Band7_15MHz_QPSK_75_0_CH20825



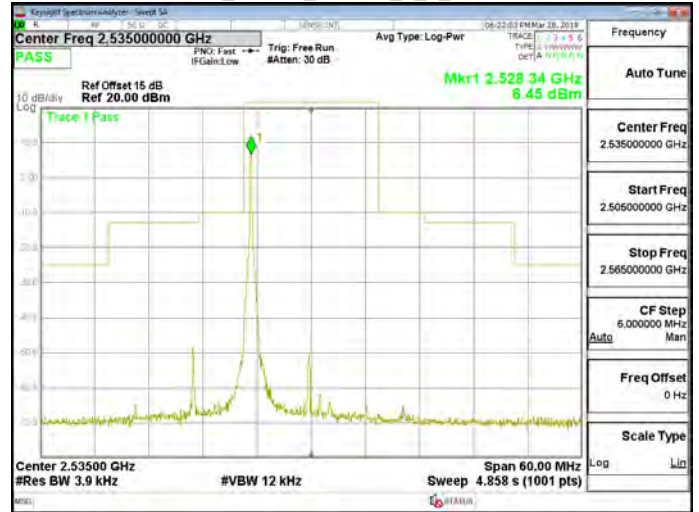
Band7_15MHz_16QAM_1_0_CH20825



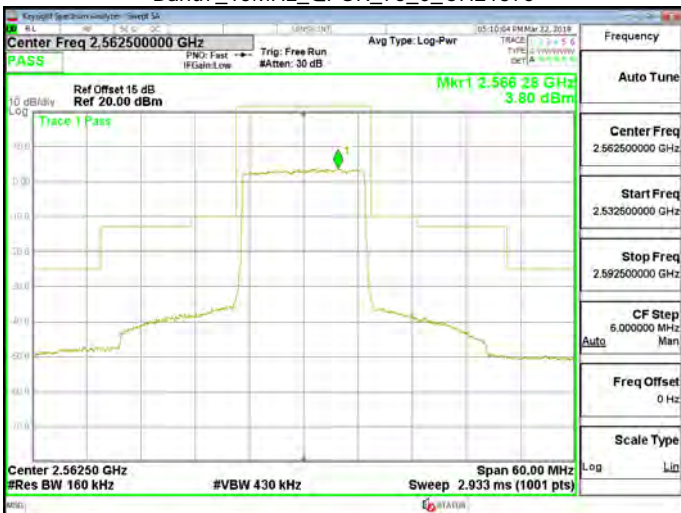
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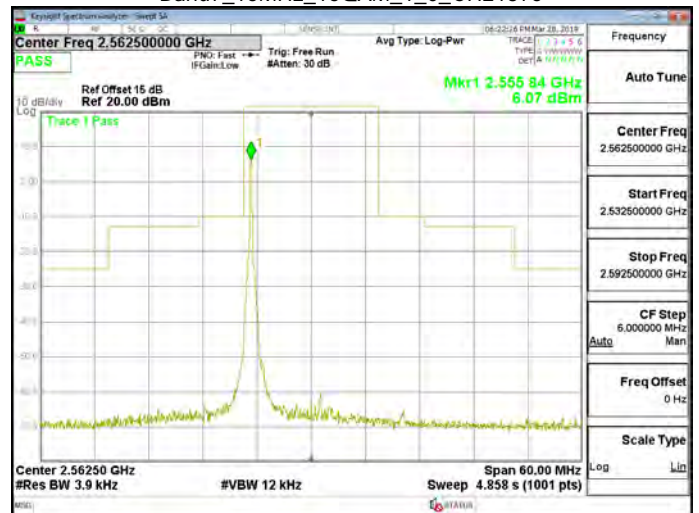
Band7_15MHz_16QAM_1_0_CH21100



Band7_15MHz_QPSK_75_0_CH21375



Band7_15MHz_16QAM_1_0_CH21375

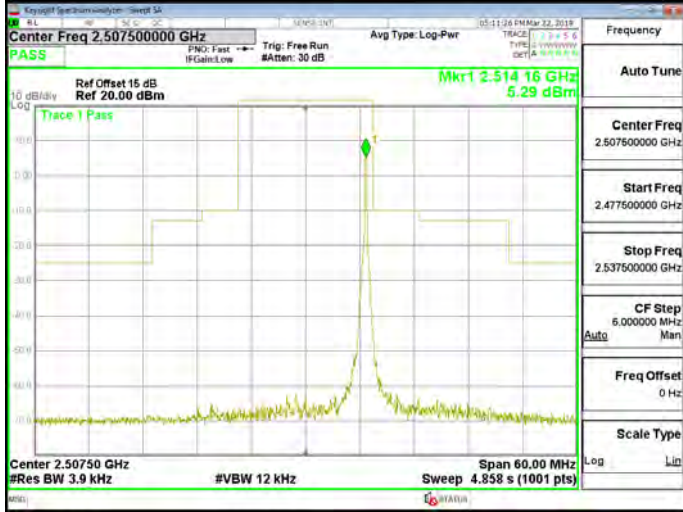


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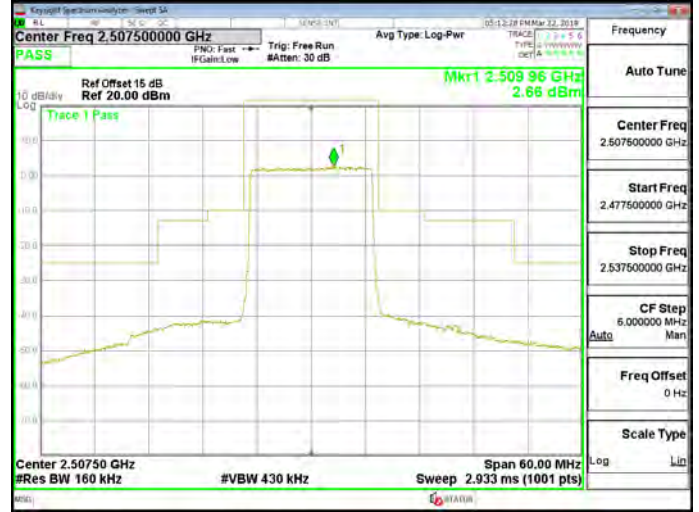
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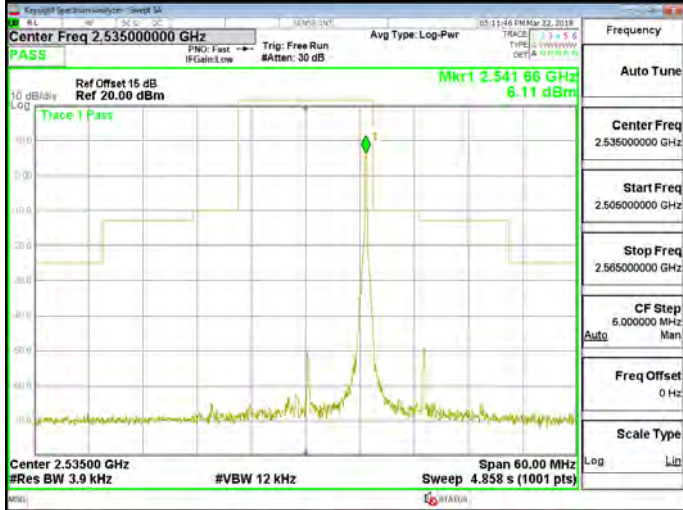
Band7_15MHz_16QAM_1_74_CH20825



Band7_15MHz_16QAM_75_0_CH20825



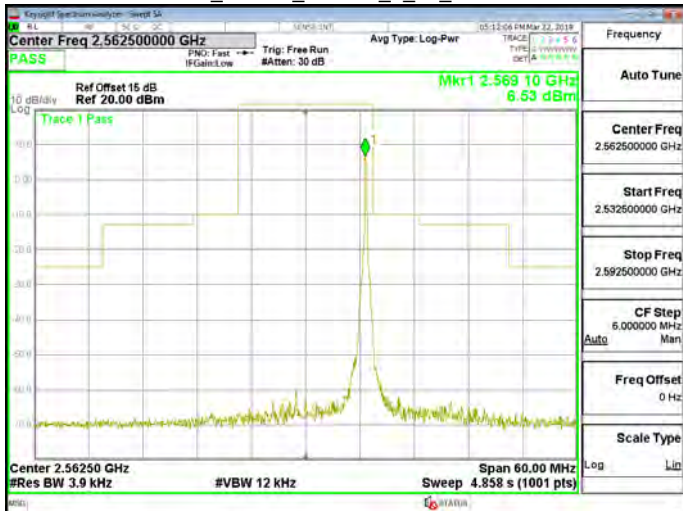
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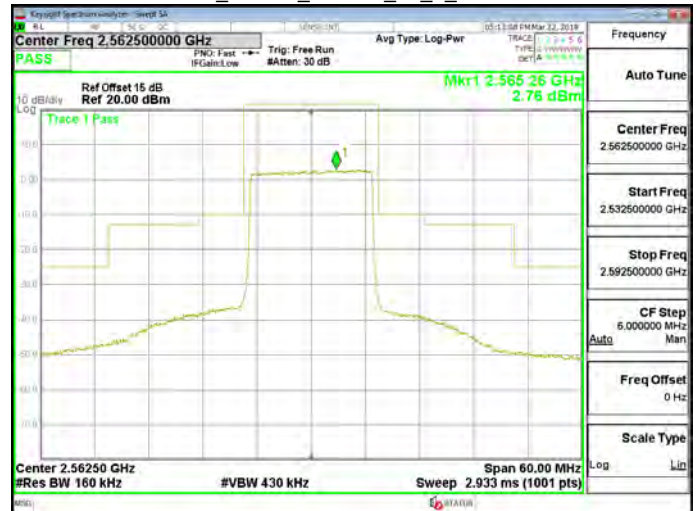
Band7_15MHz_16QAM_75_0_CH21100



Band7_15MHz_16QAM_1_74_CH21375



Band7_15MHz_16QAM_75_0_CH21375



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