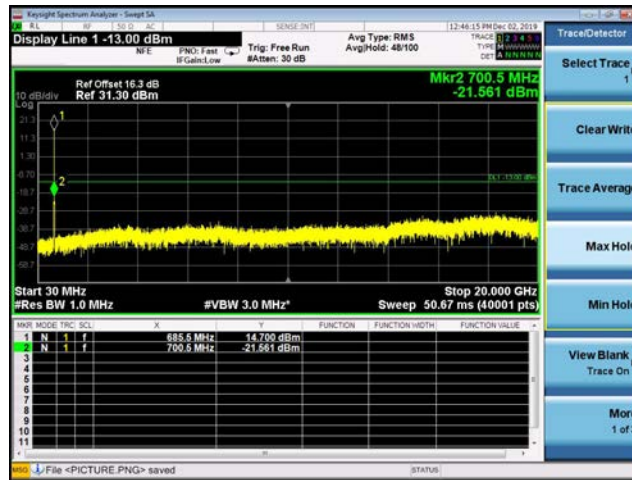


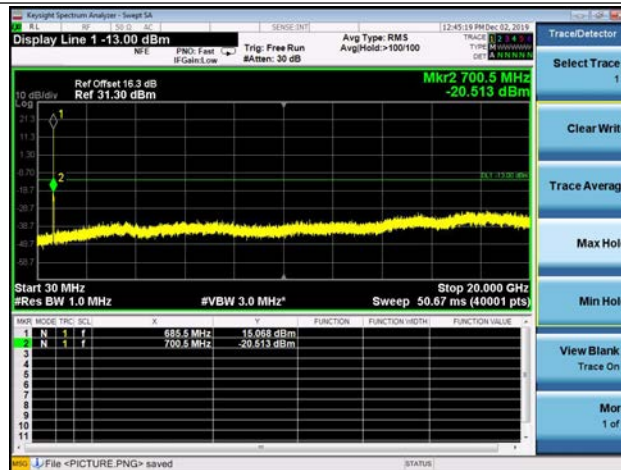


LTE Band 71 _ 15MHz BW _ High Channel

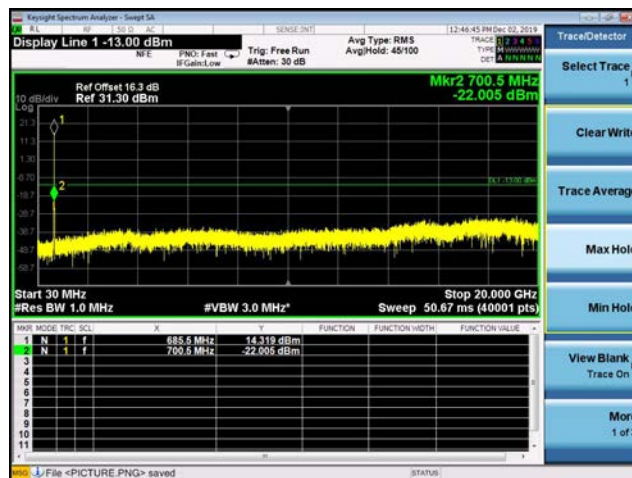
QPSK



16QAM



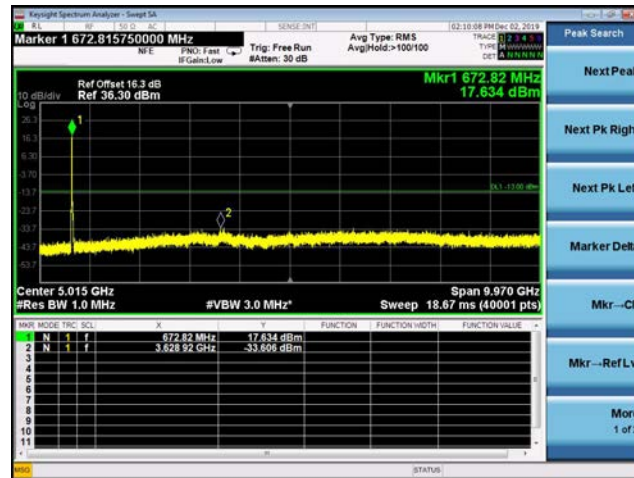
64QAM



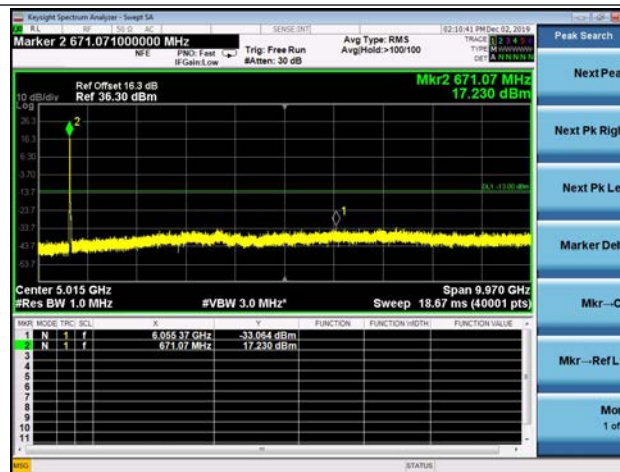


LTE Band 71 _ 20MHz BW _ Low Channel

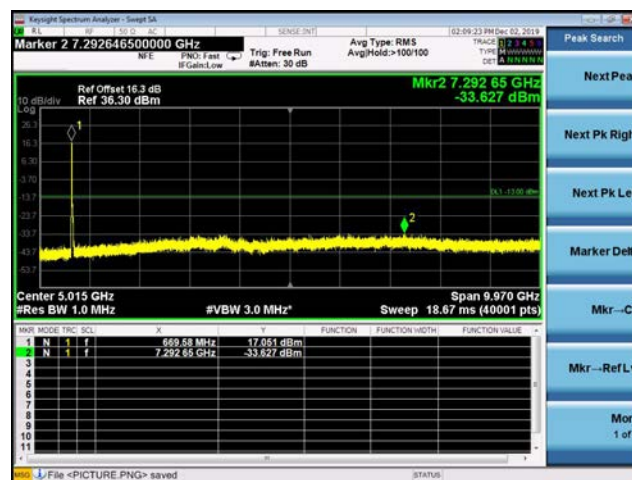
QPSK



16QAM



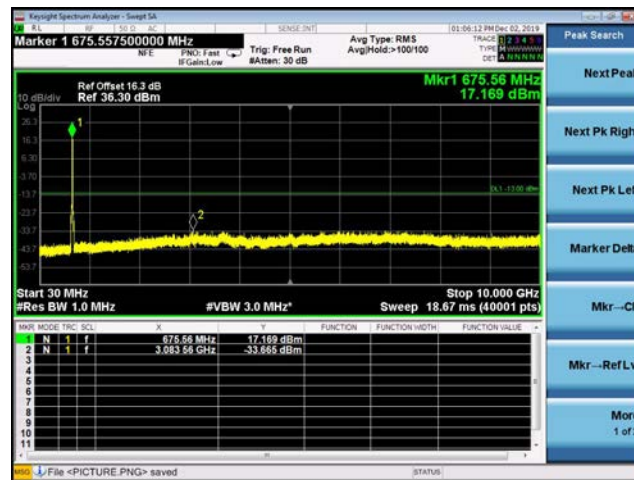
64QAM



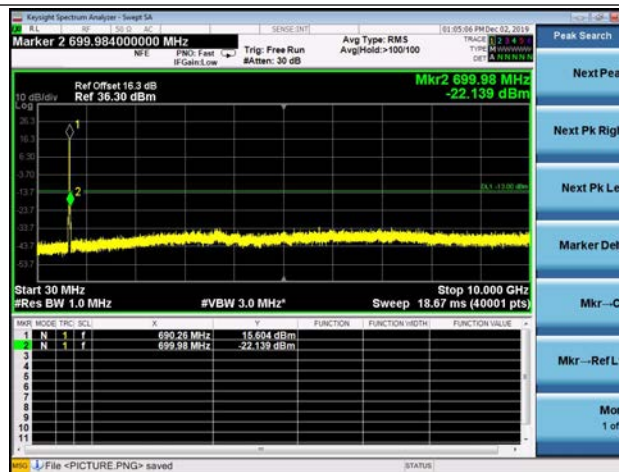


LTE Band 71 _ 20MHz BW _ Middle Channel

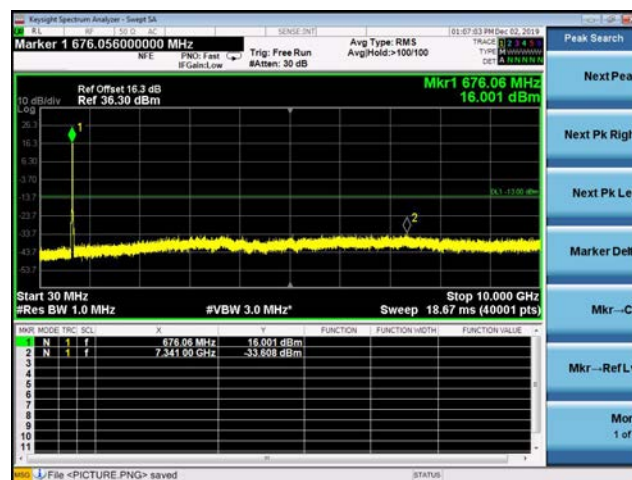
QPSK



16QAM



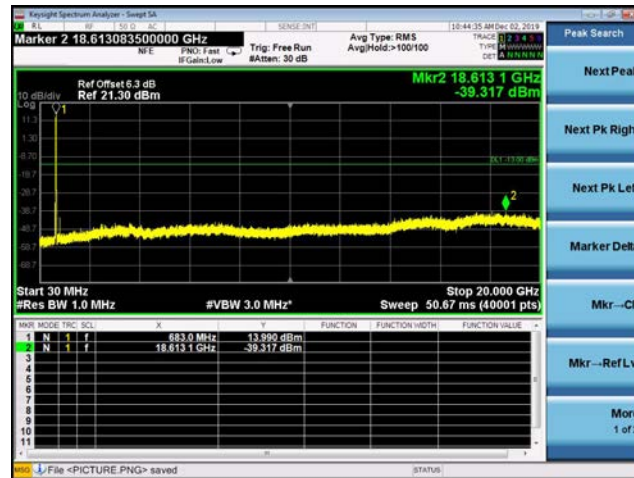
64QAM



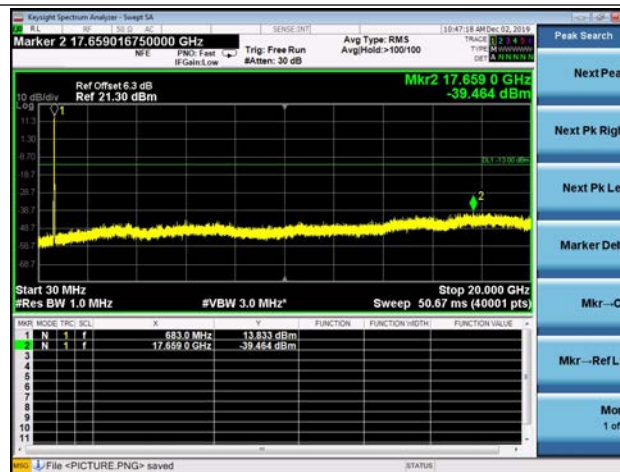


LTE Band 71 _ 20MHz BW _ High Channel

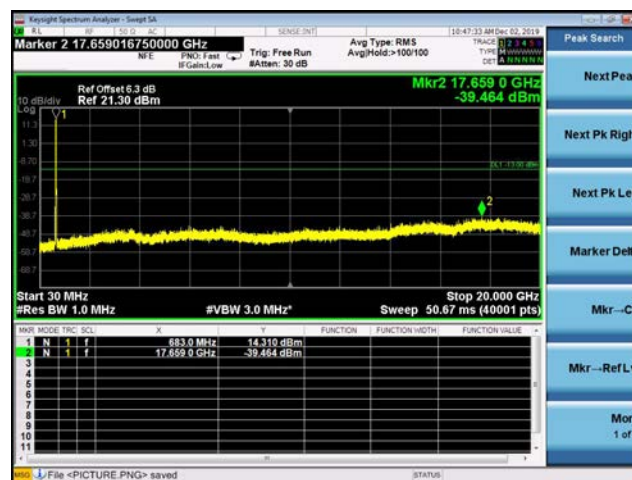
QPSK



16QAM



64QAM





2.6. Band Edge

2.6.1. Requirement

According to FCC section 22.917(a), 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.

According to FCC section 24.238(a), 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.

According to FCC section 27.53(c) (2), for on any frequency outside the the 776–788 MHz band, the power of any emission shall be attenuated the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB.

For operating in the 770-788MHz, emissions in the band 1559-1610MHz shall be limited to -70dBW/MHz. The limit of emission is equal to -40dBm

According to FCC section 27.53(g), for operations in the 698–746 MHz band, the power of any emission outside a 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, by at least $43 + 10 \log (P)$ dB. 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.

According to FCC section 27.53(h), For operations in the 1710–1785MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

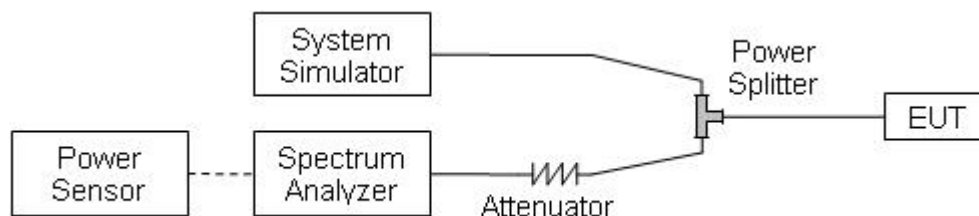
According to FCC section 27.53(m) (4)(6), For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from 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 that $43 + 10 \log (P)$ 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.

According to FCC section 90.961, 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.

(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 $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ 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 $43 + 10 \log_{10}(P)$ 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.

2.6.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.6.3. Test procedure

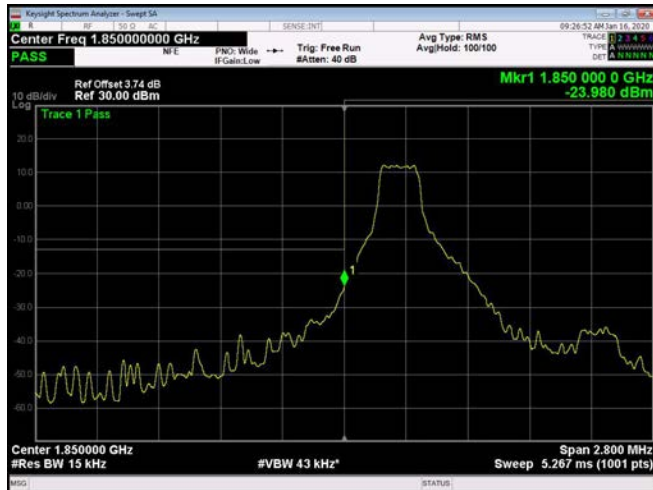
KDB 971168 D01 v03r01 Section 6.0 and ANSI/TIA-603-E-2016.



2.6.4. Test Result

LTE Band 2

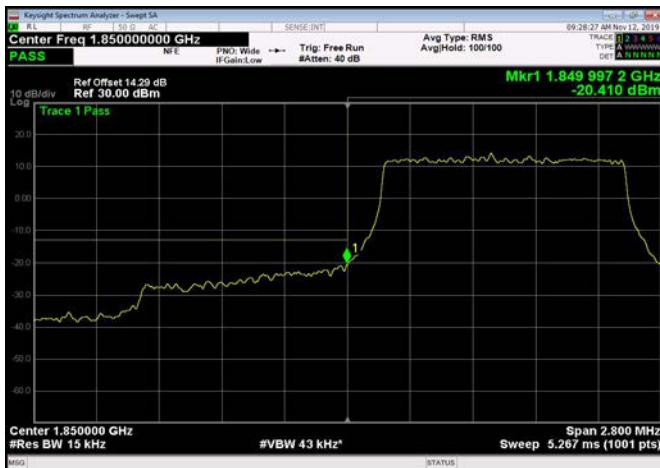
1.4MHz / QPSK / Low Channel / 1RB



1.4MHz / QPSK / High Channel / 1 RB



1.4MHz / QPSK / Low Channel / Full RB



1.4MHz / QPSK / High Channel / Full RB





1.4MHz / 16QAM / Low Channel / 1RB



1.4MHz / 16QAM / High Channel / 1 RB



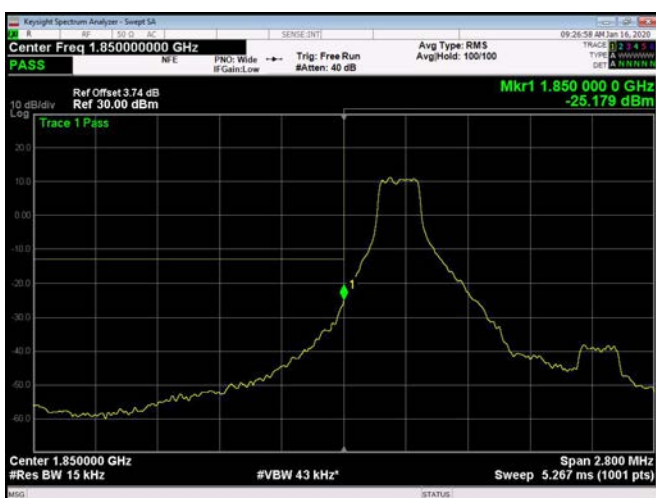
1.4MHz / 16QAM / Low Channel / Full RB



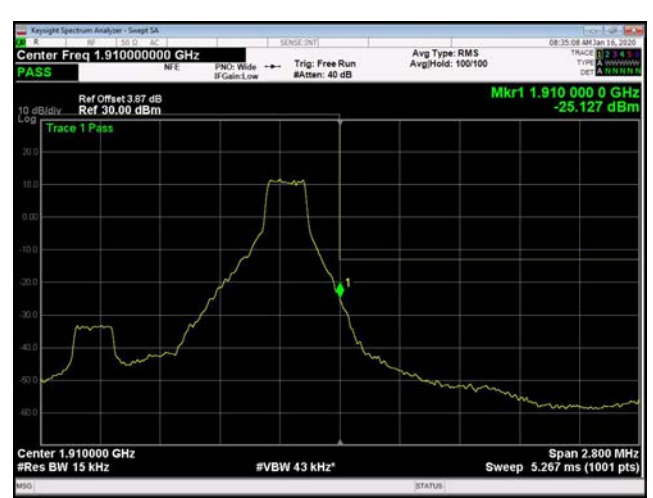
1.4MHz / 16QAM / High Channel / Full RB



1.4MHz / 64QAM / Low Channel / 1RB



1.4MHz / 64QAM / High Channel / 1 RB





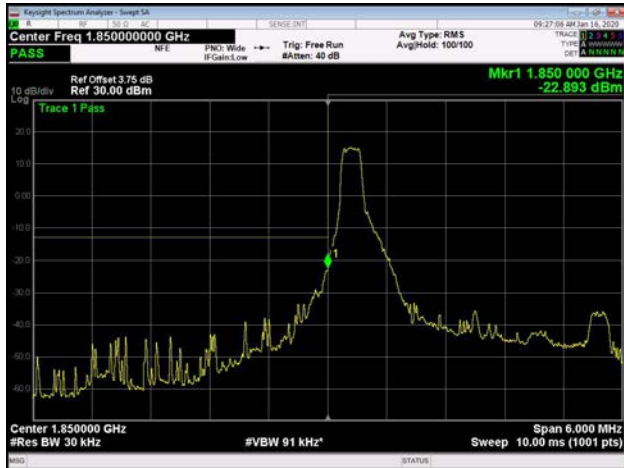
1.4MHz / 64QAM / Low Channel / Full RB



1.4MHz / 64QAM / High Channel / Full RB



3MHz / QPSK / Low Channel / 1RB



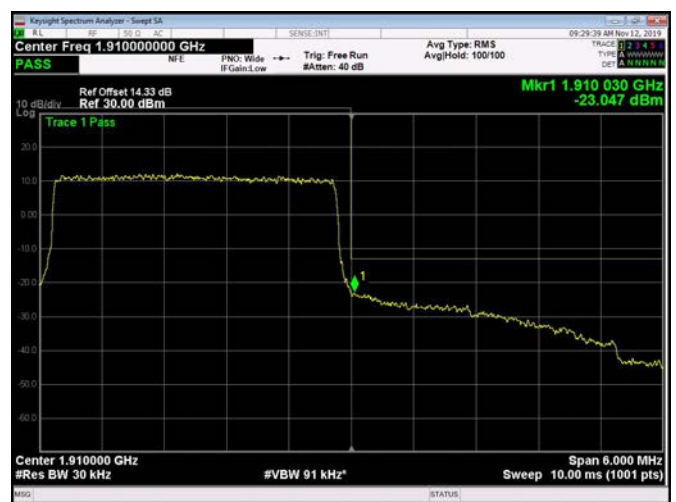
3MHz / QPSK / High Channel / 1 RB



3MHz / QPSK / Low Channel / Full RB



3MHz / QPSK / High Channel / Full RB





3MHz / 16QAM / Low Channel / 1RB



3MHz / 16QAM / High Channel / 1 RB



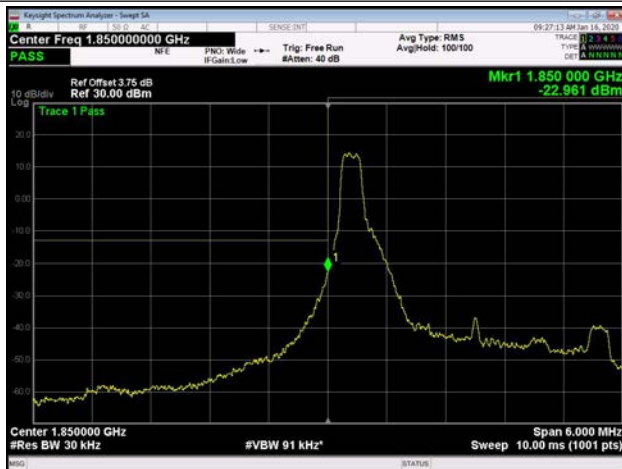
3MHz / 16QAM / Low Channel / Full RB



3MHz / 16QAM / High Channel / Full RB



3MHz / 64QAM / Low Channel / 1RB



3MHz / 64QAM / High Channel / 1 RB



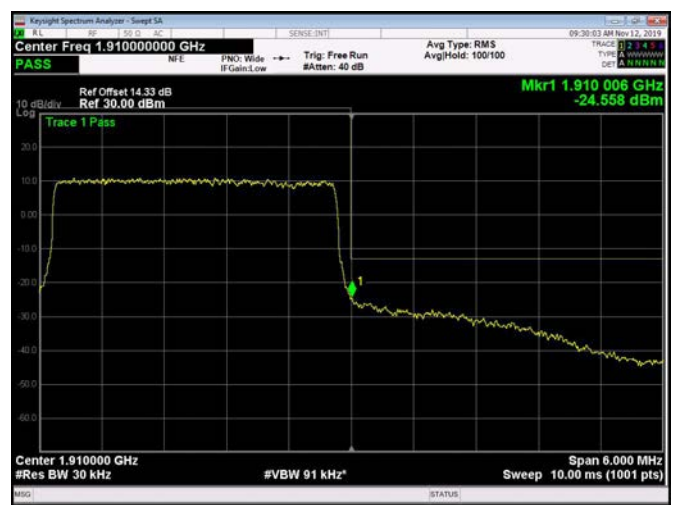


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3MHz / 64QAM / Low Channel / Full RB



3MHz / 64QAM / High Channel / Full RB



5MHz / QPSK / Low Channel / 1RB



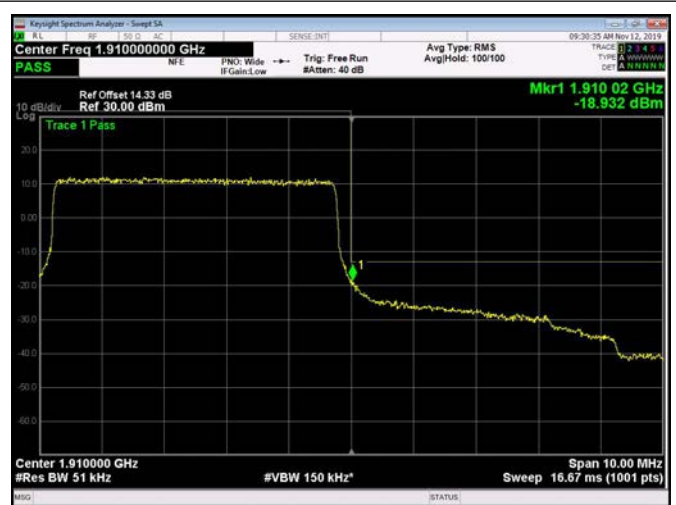
5MHz / QPSK / High Channel / 1 RB



5MHz / QPSK / Low Channel / Full RB



5MHz / QPSK / High Channel / Full RB





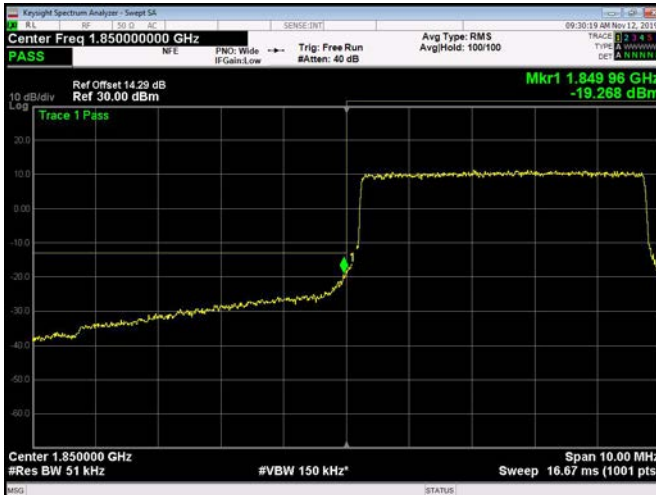
5MHz / 16QAM / Low Channel / 1RB



5MHz / 16QAM / High Channel / 1 RB



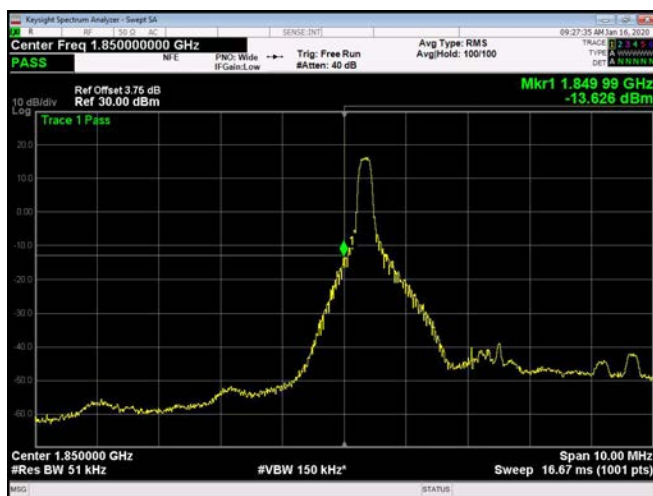
5MHz / 16QAM / Low Channel / Full RB



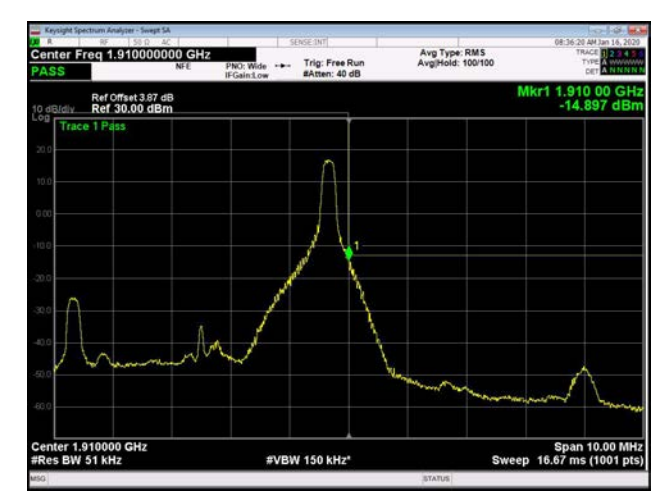
5MHz / 16QAM / High Channel / Full RB



5MHz / 64QAM / Low Channel / 1RB

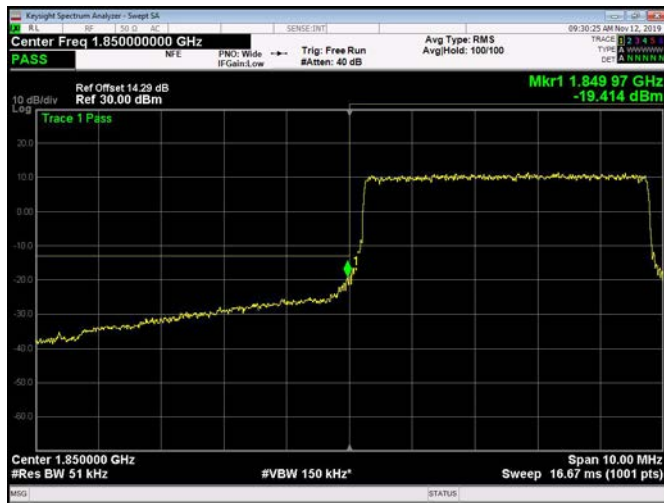


5MHz / 64QAM / High Channel / 1 RB

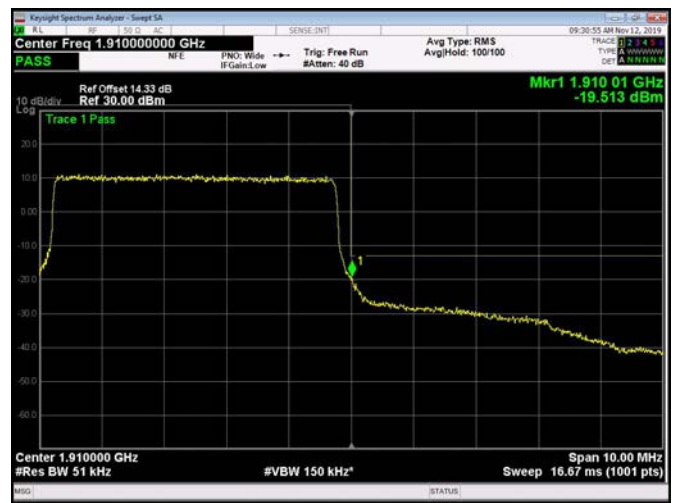




5MHz / 64QAM / Low Channel / Full RB



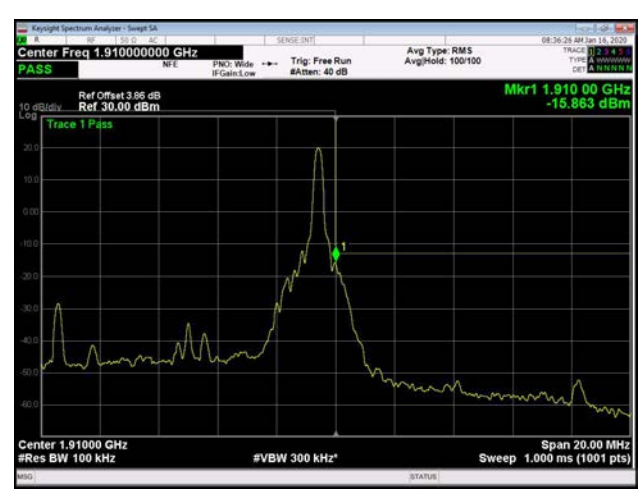
5MHz / 64QAM / High Channel / Full RB



10MHz / QPSK / Low Channel / 1RB



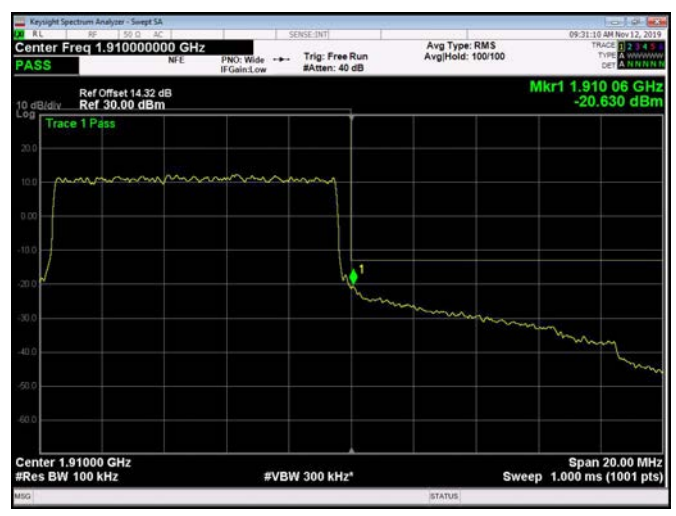
10MHz / QPSK / High Channel / 1 RB



10MHz / QPSK / Low Channel / Full RB



10MHz / QPSK / High Channel / Full RB

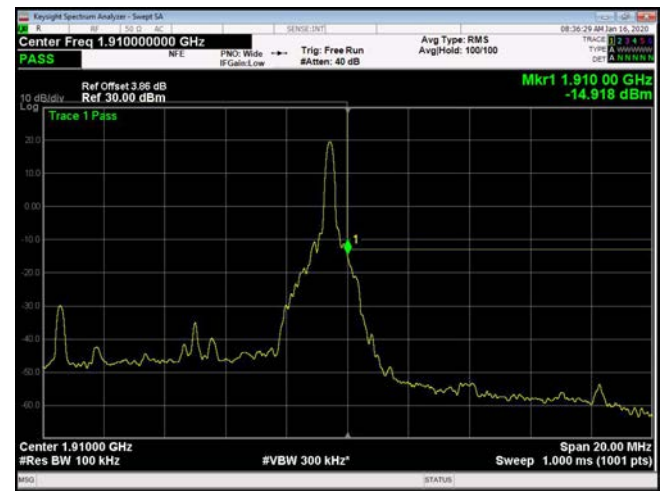




10MHz / 16QAM / Low Channel / 1RB



10MHz / 16QAM / High Channel / 1 RB



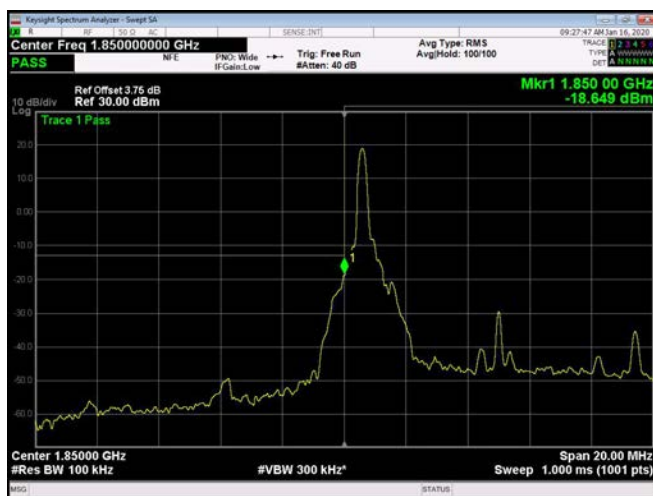
10MHz / 16QAM / Low Channel / Full RB



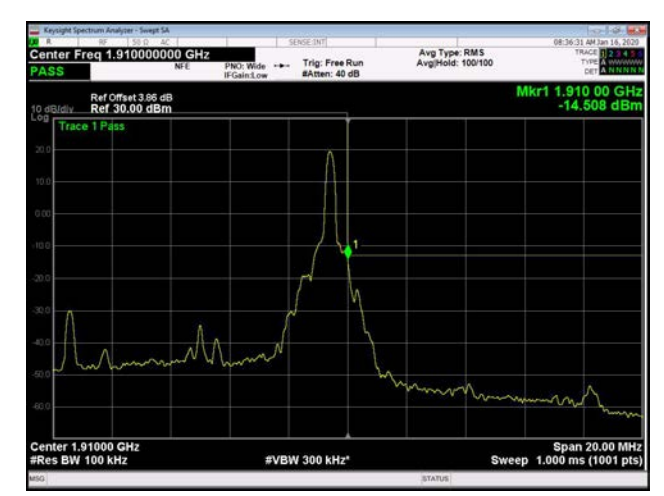
10MHz / 16QAM / High Channel / Full RB



10MHz / 64QAM / Low Channel / 1RB



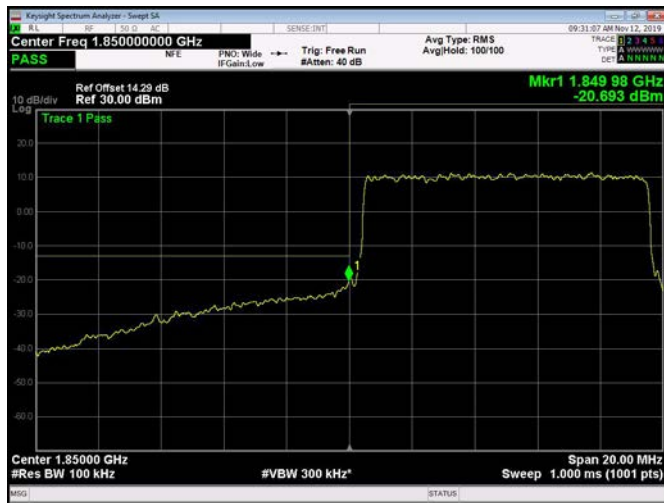
10MHz / 64QAM / High Channel / 1 RB





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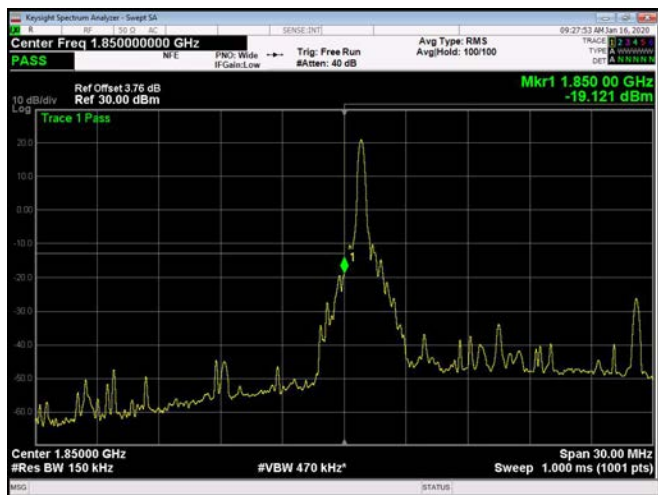
10MHz / 64QAM / Low Channel / Full RB



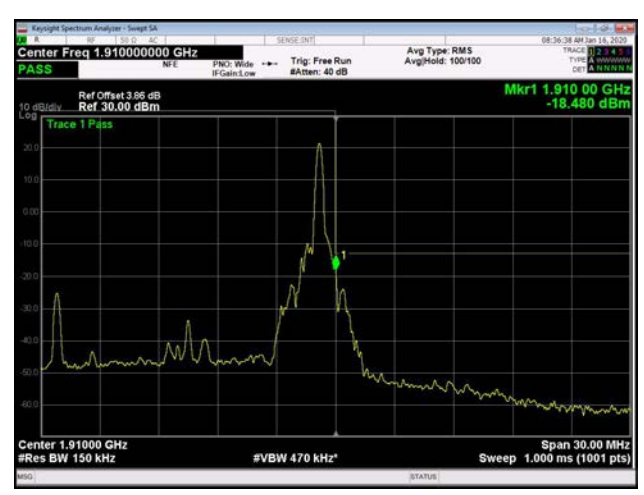
10MHz / 64QAM / High Channel / Full RB



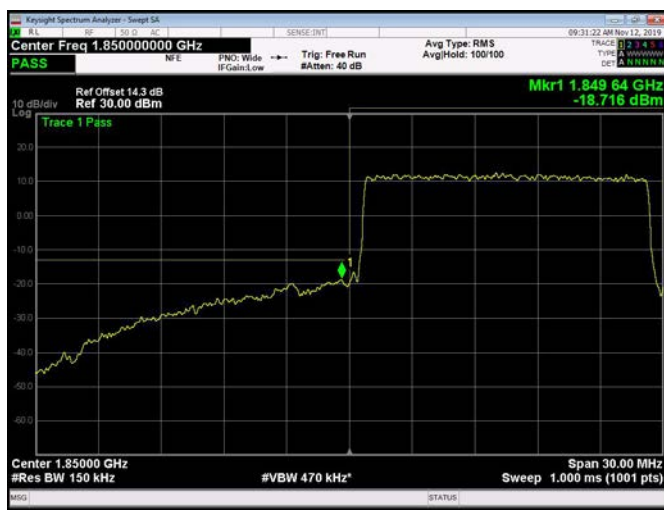
15MHz / QPSK / Low Channel / 1RB



15MHz / QPSK / High Channel / 1 RB



15MHz / QPSK / Low Channel / Full RB



15MHz / QPSK / High Channel / Full RB





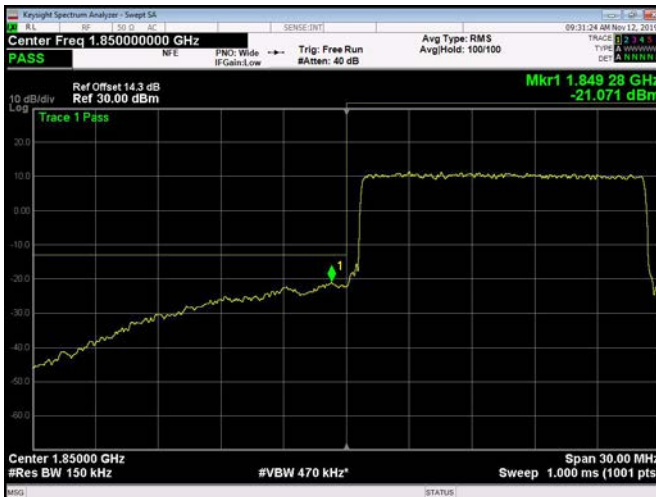
15MHz / 16QAM / Low Channel / 1RB



15MHz / 16QAM / High Channel / 1 RB



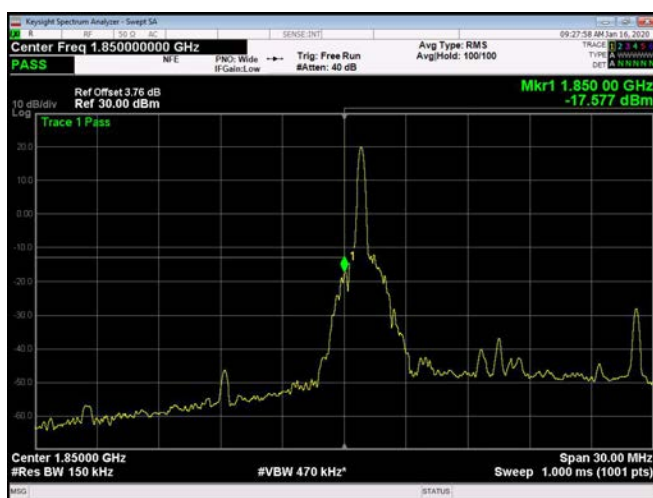
15MHz / 16QAM / Low Channel / Full RB



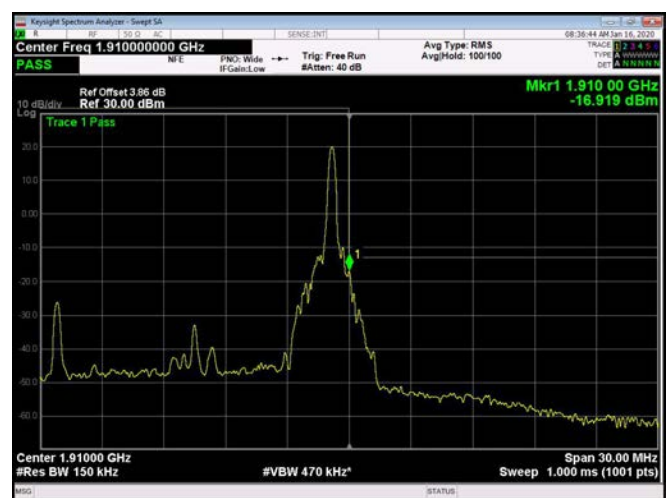
15MHz / 16QAM / High Channel / Full RB



15MHz / 64QAM / Low Channel / 1RB

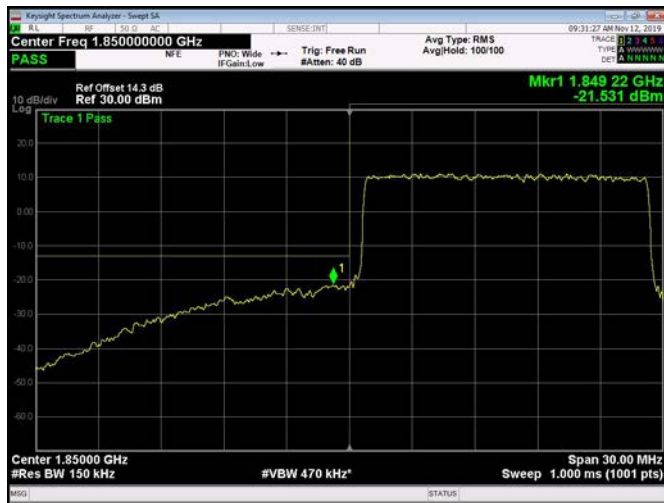


15MHz / 64QAM / High Channel / 1 RB





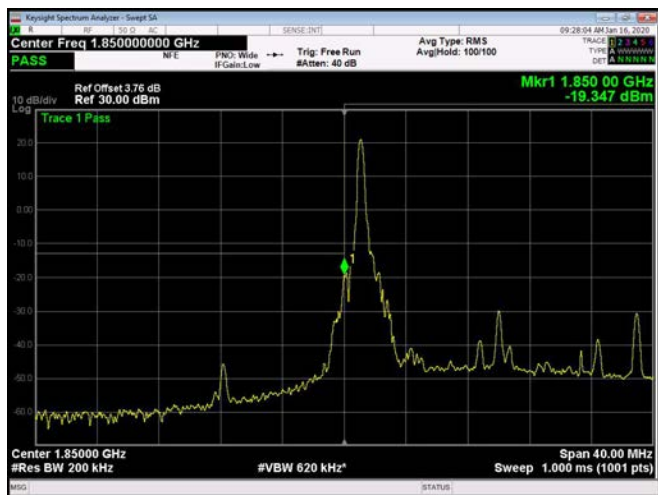
15MHz / 64QAM / Low Channel / Full RB



15MHz / 64QAM / High Channel / Full RB



20MHz / QPSK / Low Channel / 1RB



20MHz / QPSK / High Channel / 1 RB



20MHz / QPSK / Low Channel / Full RB



20MHz / QPSK / High Channel / Full RB

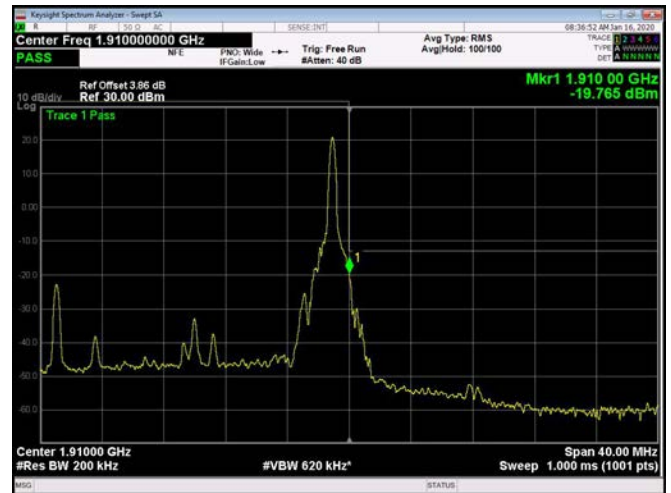




20MHz / 16QAM / Low Channel / 1RB



20MHz / 16QAM / High Channel / 1 RB



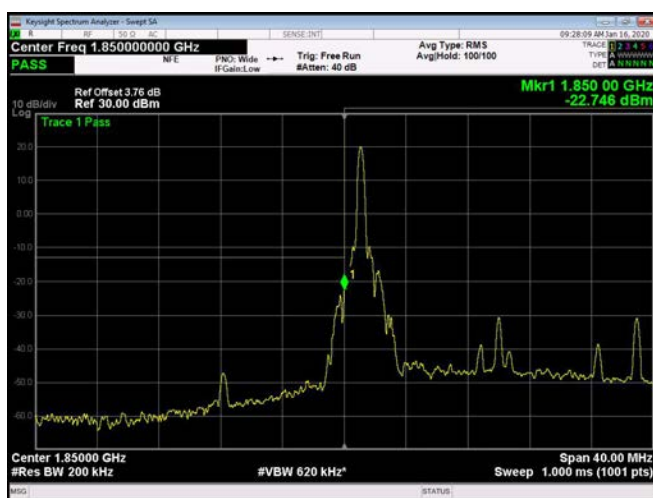
20MHz / 16QAM / Low Channel / Full RB



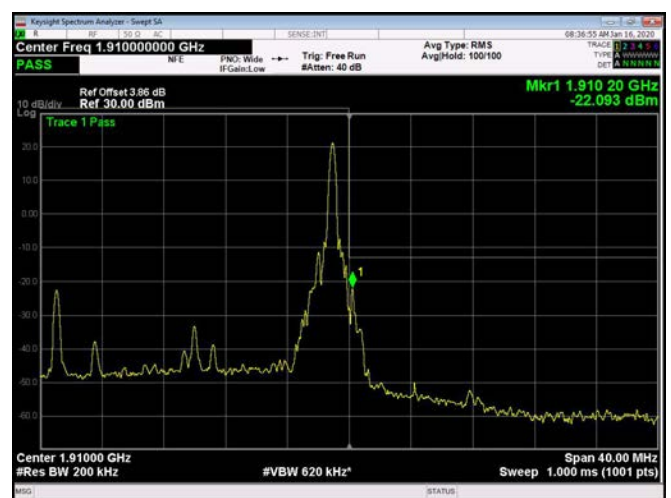
20MHz / 16QAM / High Channel / Full RB



20MHz / 64QAM / Low Channel / 1RB

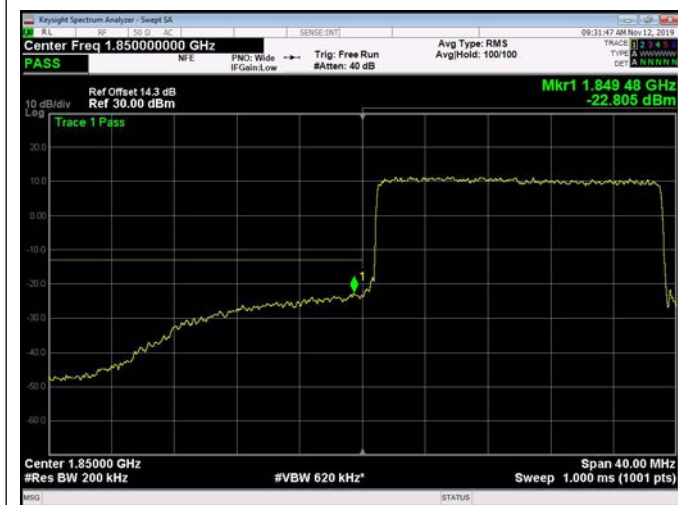


20MHz / 64QAM / High Channel / 1 RB

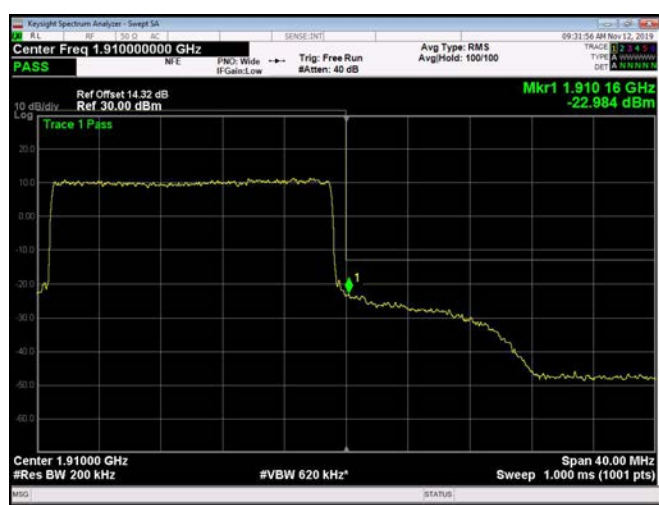




20MHz / 64QAM / Low Channel / Full RB



20MHz / 64QAM / High Channel / Full RB





LTE Band 4

1.4MHz / QPSK / Low Channel / 1RB



1.4MHz / QPSK / High Channel / 1 RB



1.4MHz / QPSK / Low Channel / Full RB



1.4MHz / QPSK / High Channel / Full RB



1.4MHz / 16QAM / Low Channel / 1RB



1.4MHz / 16QAM / High Channel / 1 RB



**1.4MHz / 16QAM / Low Channel / Full RB****1.4MHz / 16QAM / High Channel / Full RB****1.4MHz / 64QAM / Low Channel / 1RB****1.4MHz / 64QAM / High Channel / 1 RB****1.4MHz / 64QAM / Low Channel / Full RB****1.4MHz / 64QAM / High Channel / Full RB**



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3MHz / QPSK / Low Channel / 1RB



3MHz / QPSK / High Channel / 1 RB



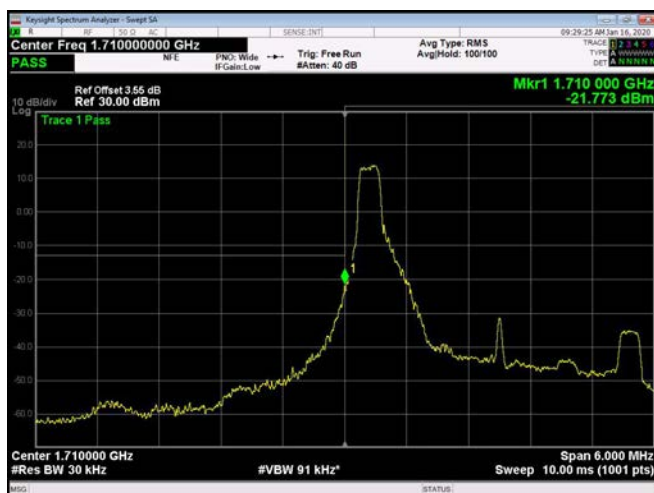
3MHz / QPSK / Low Channel / Full RB



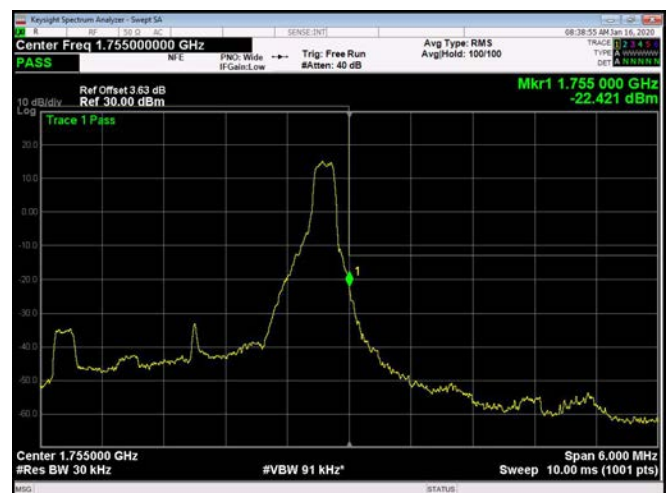
3MHz / QPSK / High Channel / Full RB



3MHz / 16QAM / Low Channel / 1RB



3MHz / 16QAM / High Channel / 1 RB





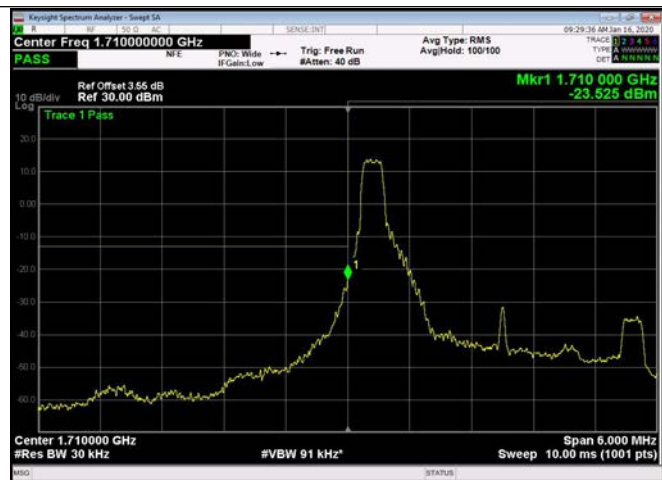
3MHz / 16QAM / Low Channel / Full RB



3MHz / 16QAM / High Channel / Full RB



3MHz / 64QAM / Low Channel / 1RB



3MHz / 64QAM / High Channel / 1 RB



3MHz / 64QAM / Low Channel / Full RB



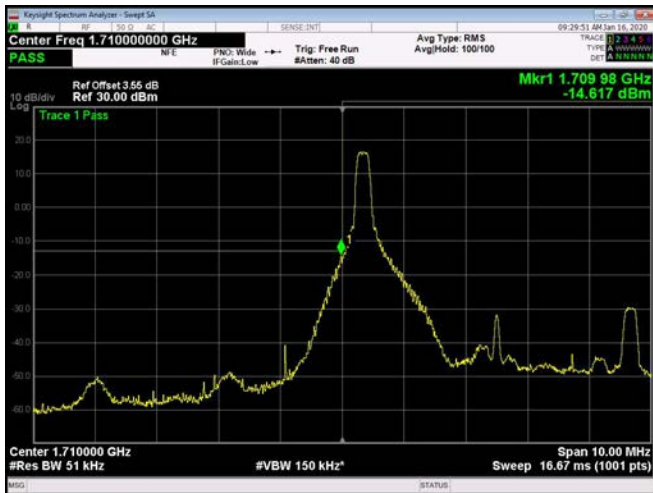
3MHz / 64QAM / High Channel / Full RB



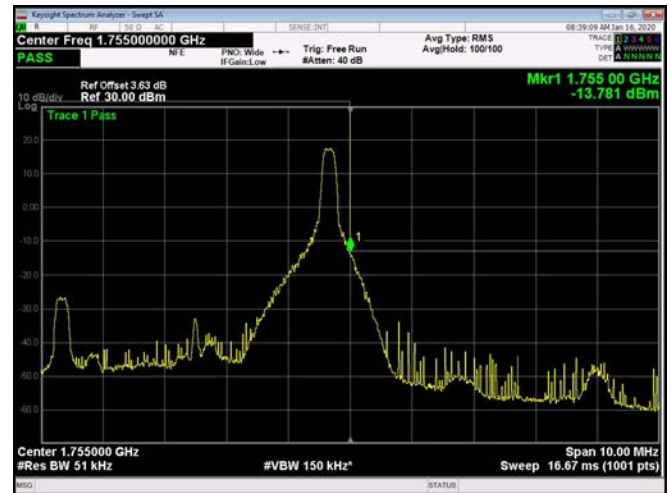


REPORT No. : XM19080032W05

5MHz / QPSK / Low Channel / 1RB



5MHz / QPSK / High Channel / 1 RB



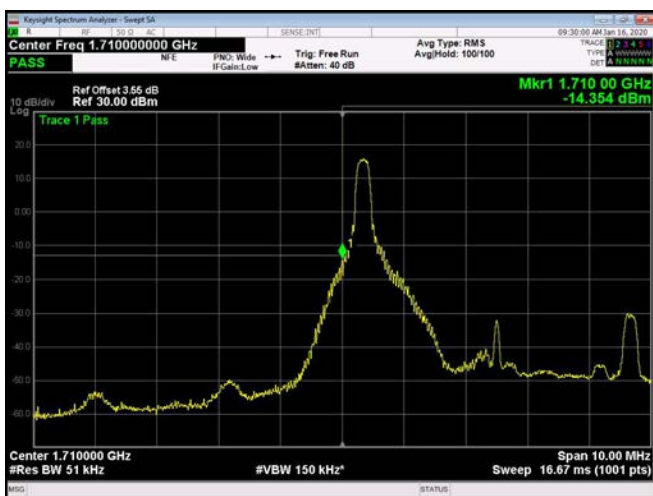
5MHz / QPSK / Low Channel / Full RB



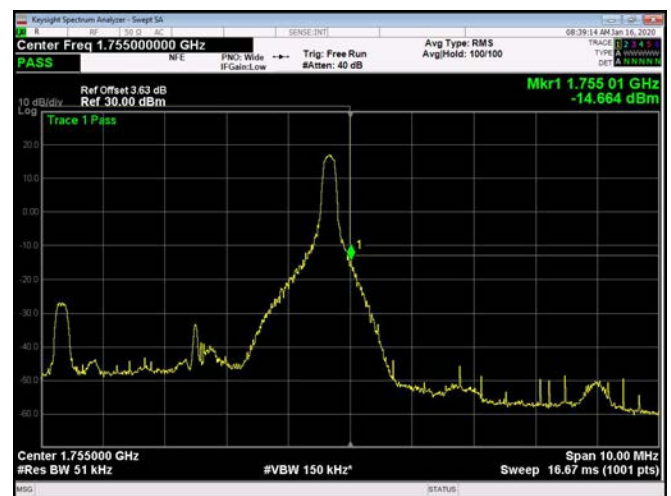
5MHz / QPSK / High Channel / Full RB



5MHz / 16QAM / Low Channel / 1RB



5MHz / 16QAM / High Channel / 1 RB





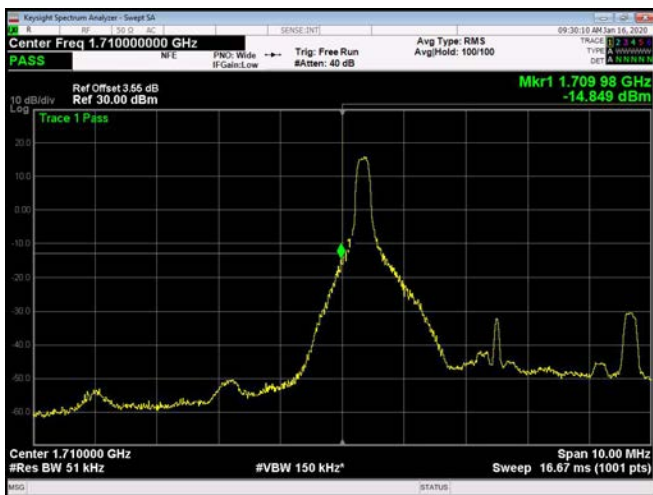
5MHz / 16QAM / Low Channel / Full RB



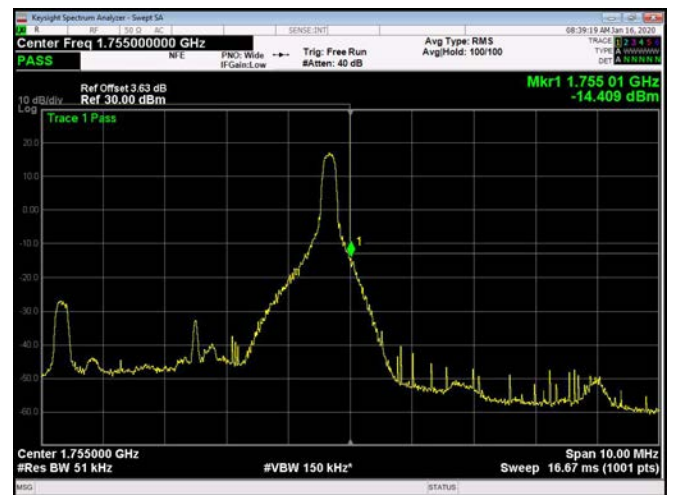
5MHz / 16QAM / High Channel / Full RB



5MHz / 64QAM / Low Channel / 1RB



5MHz / 64QAM / High Channel / 1 RB



5MHz / 64QAM / Low Channel / Full RB



5MHz / 64QAM / High Channel / Full RB



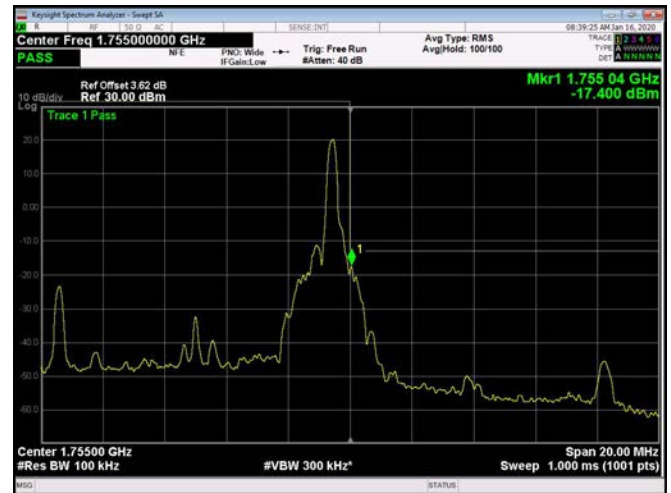


REPORT No. : XM19080032W05

10MHz / QPSK / Low Channel / 1RB



10MHz / QPSK / High Channel / 1 RB



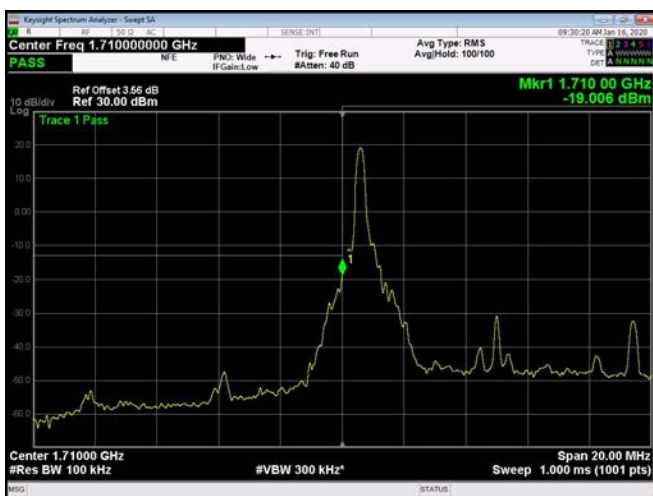
10MHz / QPSK / Low Channel / Full RB



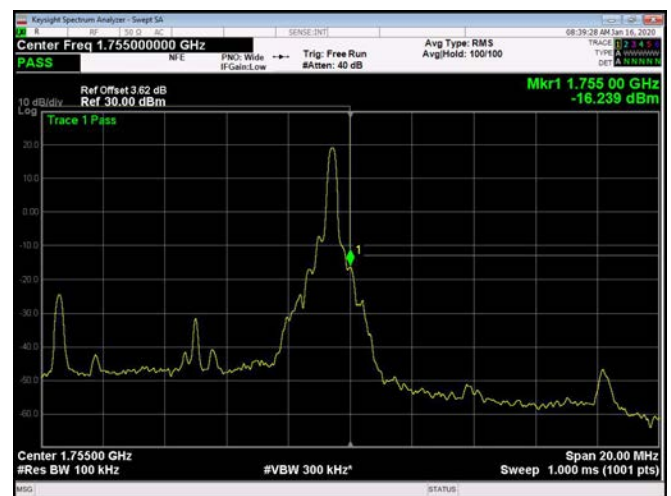
10MHz / QPSK / High Channel / Full RB



10MHz / 16QAM / Low Channel / 1RB



10MHz / 16QAM / High Channel / 1 RB





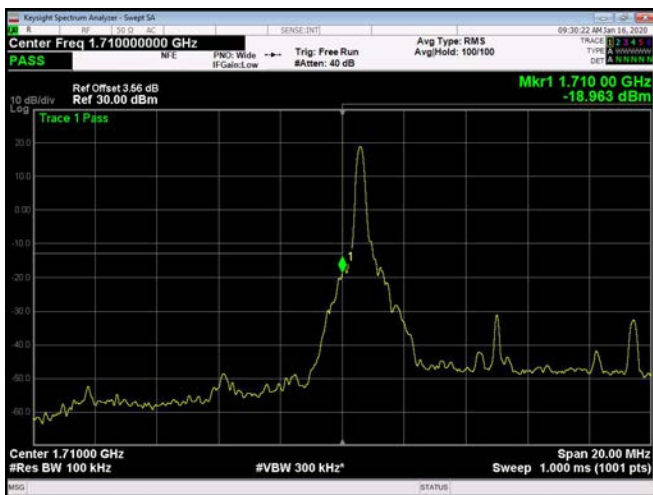
10MHz / 16QAM / Low Channel / Full RB



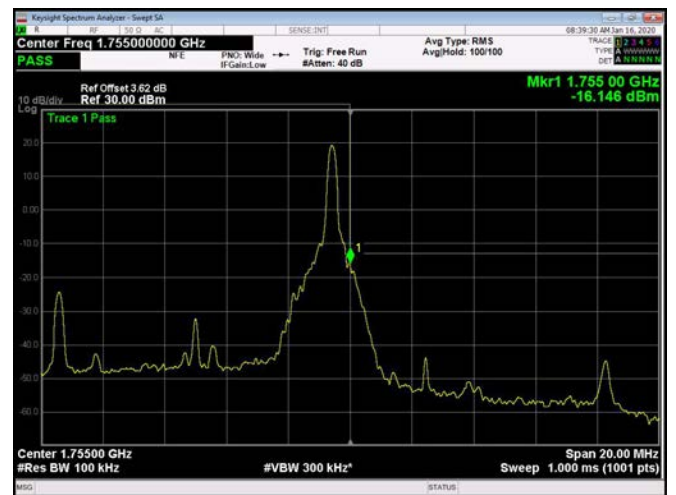
10MHz / 16QAM / High Channel / Full RB



10MHz / 64QAM / Low Channel / 1RB



10MHz / 64QAM / High Channel / 1 RB



10MHz / 64QAM / Low Channel / Full RB



10MHz / 64QAM / High Channel / Full RB



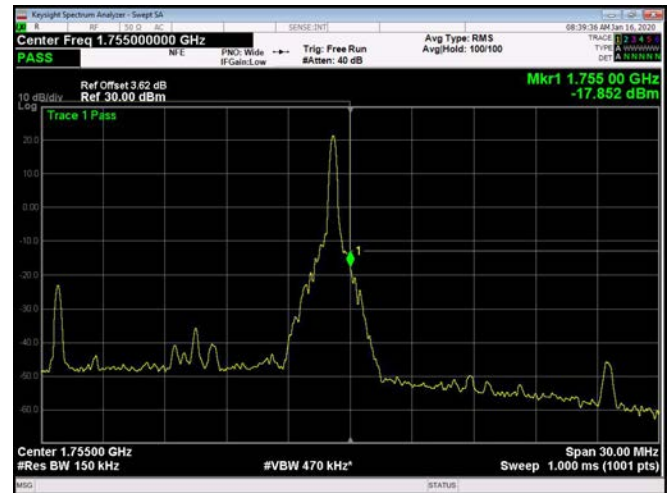


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15MHz / QPSK / Low Channel / 1RB



15MHz / QPSK / High Channel / 1 RB



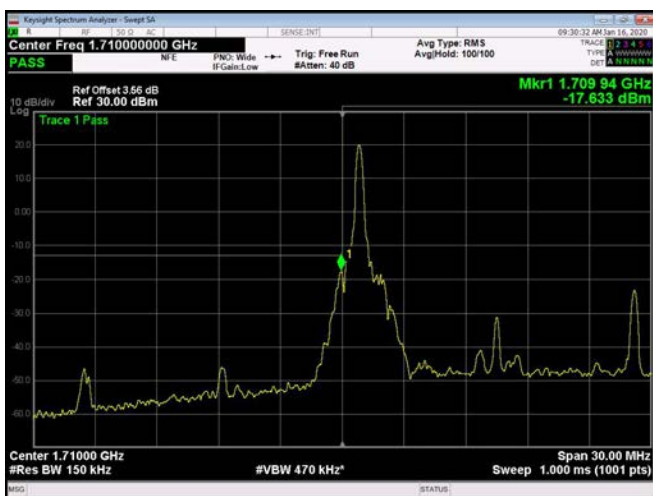
15MHz / QPSK / Low Channel / Full RB



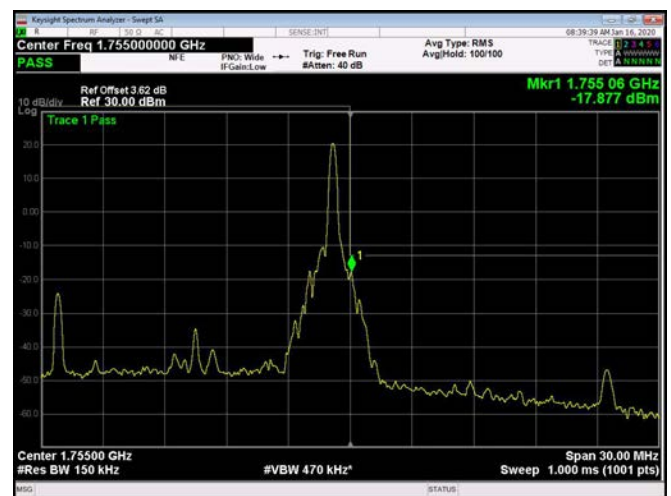
15MHz / QPSK / High Channel / Full RB



15MHz / 16QAM / Low Channel / 1RB



15MHz / 16QAM / High Channel / 1 RB





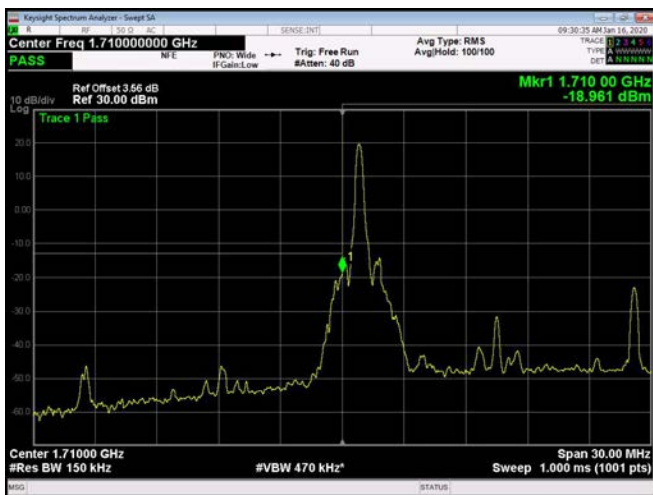
15MHz / 16QAM / Low Channel / Full RB



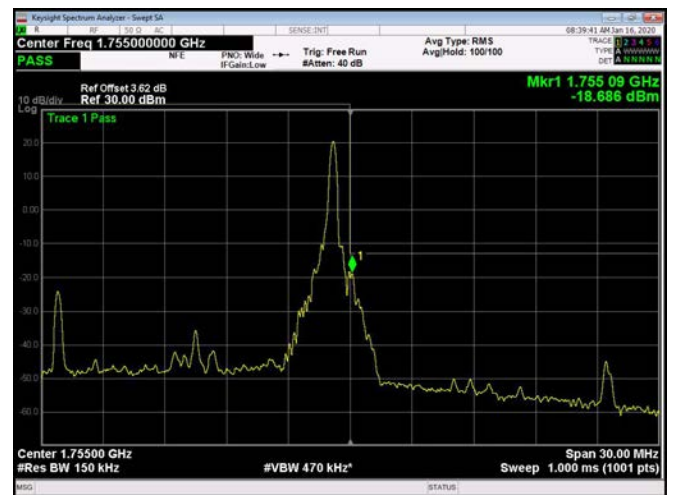
15MHz / 16QAM / High Channel / Full RB



15MHz / 64QAM / Low Channel / 1RB



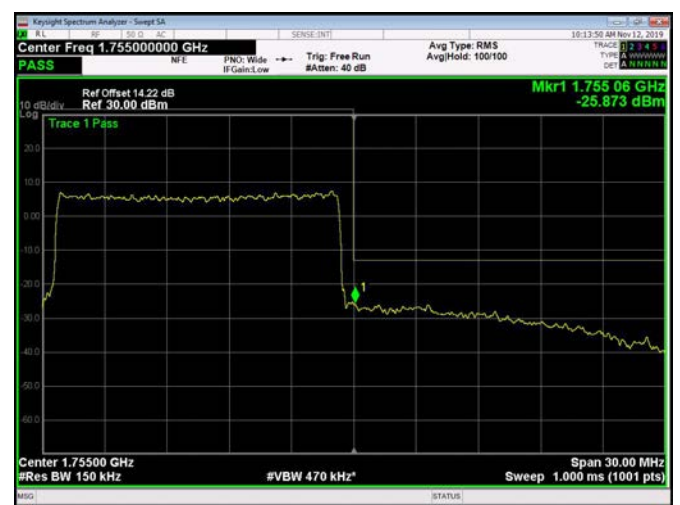
15MHz / 64QAM / High Channel / 1 RB



15MHz / 64QAM / Low Channel / Full RB



15MHz / 64QAM / High Channel / Full RB



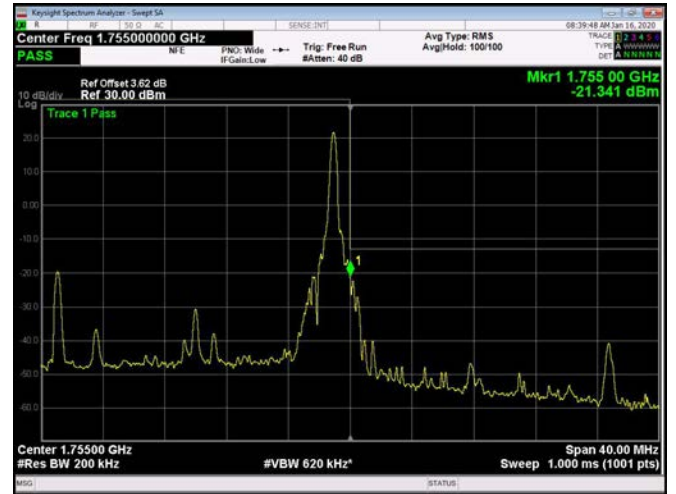


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20MHz / QPSK / Low Channel / 1RB



20MHz / QPSK / High Channel / 1 RB



20MHz / QPSK / Low Channel / Full RB



20MHz / QPSK / High Channel / Full RB



20MHz / 16QAM / Low Channel / 1RB



20MHz / 16QAM / High Channel / 1 RB





20MHz / 16QAM / Low Channel / Full RB



20MHz / 16QAM / High Channel / Full RB



20MHz / 64QAM / Low Channel / 1RB



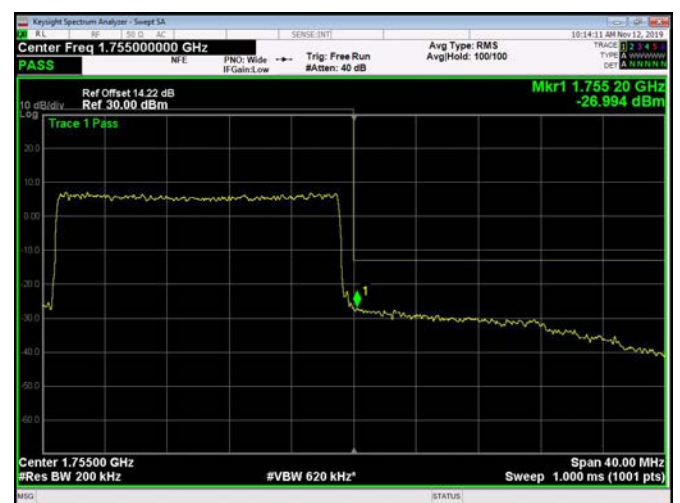
20MHz / 64QAM / High Channel / 1 RB



20MHz / 64QAM / Low Channel / Full RB



20MHz / 64QAM / High Channel / Full RB

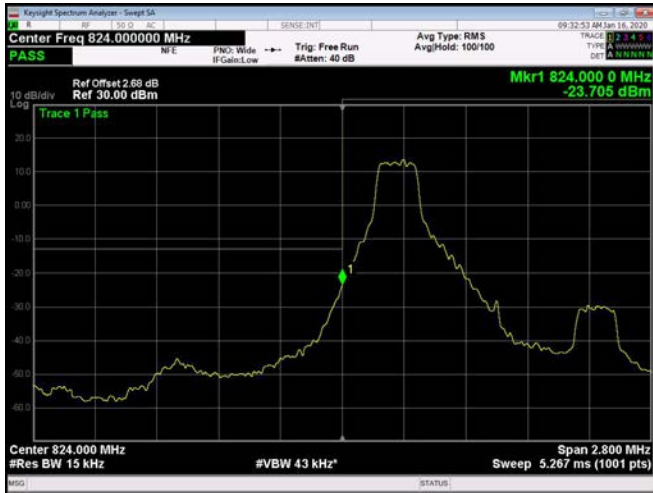




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LTE Band 5

1.4MHz / QPSK / Low Channel / 1RB



1.4MHz / QPSK / High Channel / 1 RB



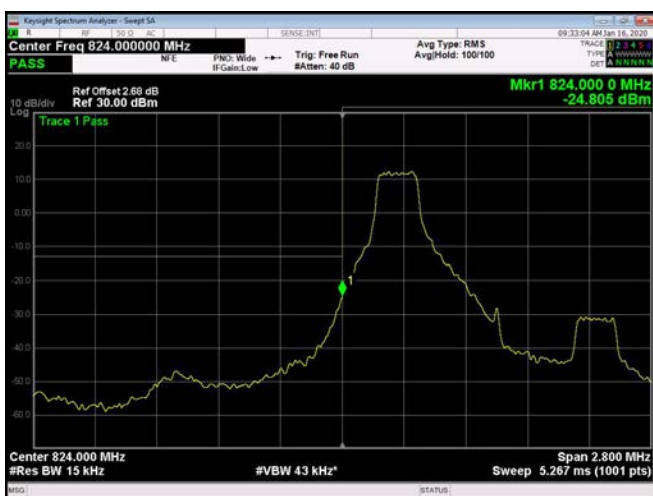
1.4MHz / QPSK / Low Channel / Full RB



1.4MHz / QPSK / High Channel / Full RB



1.4MHz / 16QAM / Low Channel / 1RB



1.4MHz / 16QAM / High Channel / 1 RB





REPORT No. : XM19080032W05

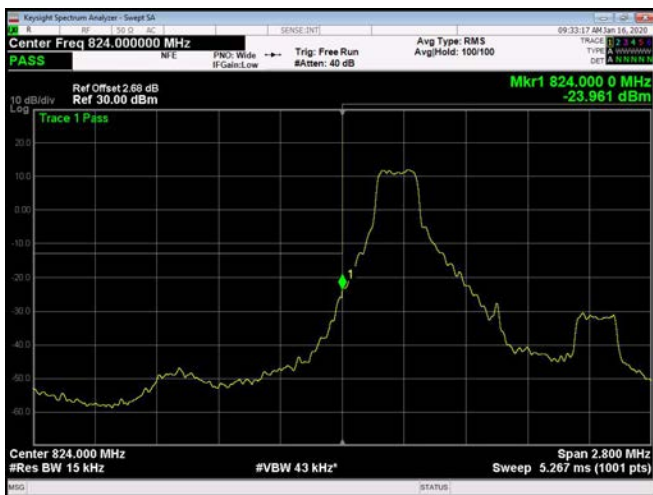
1.4MHz / 16QAM / Low Channel / Full RB



1.4MHz / 16QAM / High Channel / Full RB



1.4MHz / 64QAM / Low Channel / 1RB



1.4MHz / 64QAM / High Channel / 1 RB



1.4MHz / 64QAM / Low Channel / Full RB



1.4MHz / 64QAM / High Channel / Full RB

