



LTE Band 41 _ Peak-to-Average Ratio

15MHz / QPSK / High Channel



15MHz / 16QAM / High Channel



15MHz / 64QAM / High Channel



20MHz / QPSK / Low Channel



20MHz / 16QAM / Low Channel



20MHz / 64QAM / Low Channel





LTE Band 41 _ Peak-to-Average Ratio

20MHz / QPSK / Middle Channel



20MHz / 16QAM / Middle Channel



20MHz / 64QAM / Middle Channel



20MHz / QPSK / High Channel



20MHz / 16QAM / High Channel



20MHz / 64QAM / High Channel





LTE Band 66 _ Peak-to-Average Ratio

1.4MHz / QPSK / Low Channel



1.4MHz / 16QAM / Low Channel



1.4MHz / 64QAM / Low Channel



1.4MHz / QPSK / Middle Channel



1.4MHz / 16QAM / Middle Channel



1.4MHz / 64QAM / Middle Channel





LTE Band 66 _ Peak-to-Average Ratio

1.4MHz / QPSK / High Channel



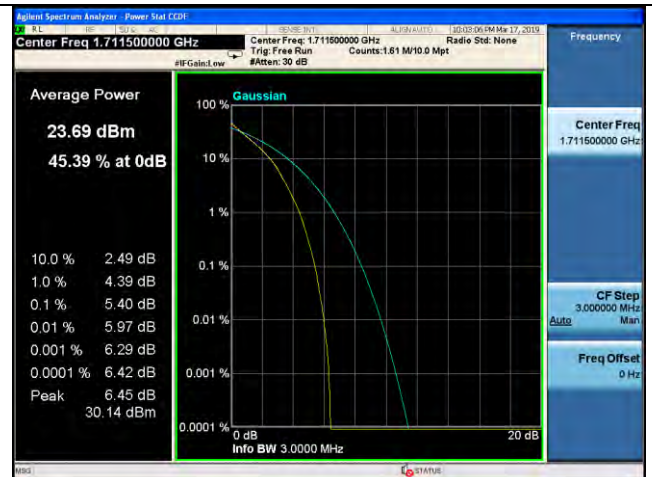
1.4MHz / 16QAM / High Channel



1.4MHz / 64QAM / High Channel



3MHz / QPSK / Low Channel



3MHz / 16QAM / Low Channel



3MHz / 64QAM / Low Channel





LTE Band 66 _ Peak-to-Average Ratio

3MHz / QPSK / Middle Channel



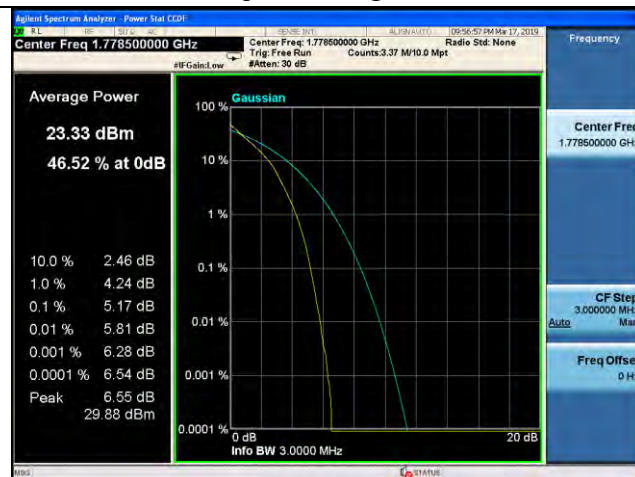
3MHz / 16QAM / Middle Channel



3MHz / 64QAM / Middle Channel



3MHz / QPSK / High Channel



3MHz / 16QAM / High Channel



3MHz / 64QAM / High Channel





LTE Band 66 _ Peak-to-Average Ratio

5MHz / QPSK / Low Channel



5MHz / 16QAM / Low Channel



5MHz / 64QAM / Low Channel



5MHz / QPSK / Middle Channel



5MHz / 16QAM / Middle Channel



5MHz / 64QAM / Middle Channel





LTE Band 66 _ Peak-to-Average Ratio

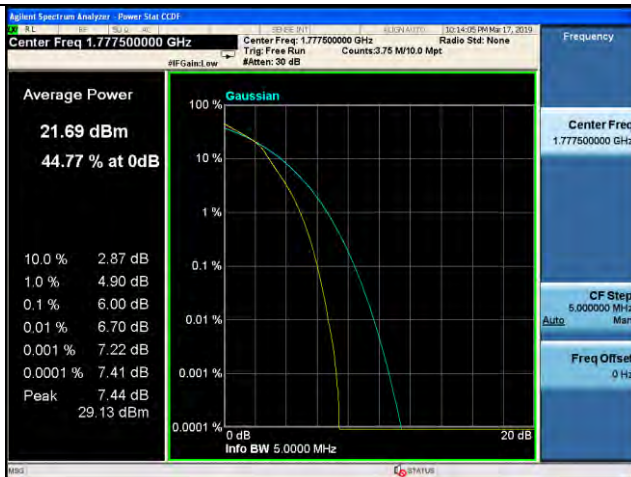
5MHz / QPSK / High Channel



5MHz / 16QAM / High Channel



5MHz / 64QAM / High Channel



10MHz / QPSK / Low Channel



10MHz / 16QAM / Low Channel



10MHz / 64QAM / Low Channel





LTE Band 66 _ Peak-to-Average Radio

10MHz / QPSK / Middle Channel



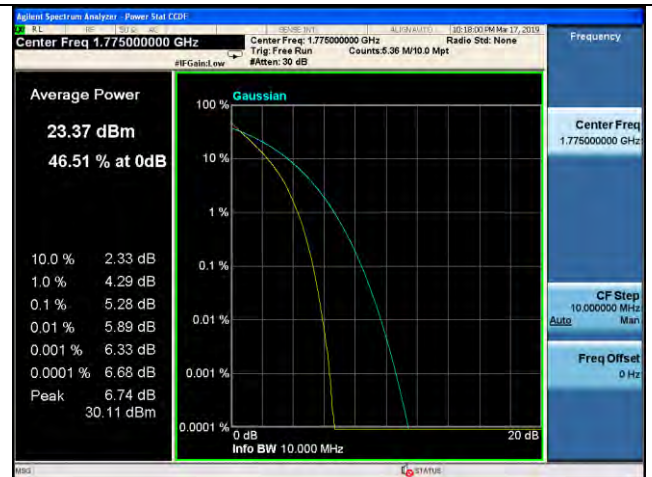
10MHz / 16QAM / Middle Channel



10MHz / 64QAM / Middle Channel



10MHz / QPSK / High Channel



10MHz / 16QAM / High Channel



10MHz / 64QAM / High Channel





LTE Band 66 _ Peak-to-Average Ratio

15MHz / QPSK / Low Channel



15MHz / 16QAM / Low Channel



15MHz / 64QAM / Low Channel



15MHz / QPSK / Middle Channel



15MHz / 16QAM / Middle Channel



15MHz / 64QAM / Middle Channel





LTE Band 66 _ Peak-to-Average Radio

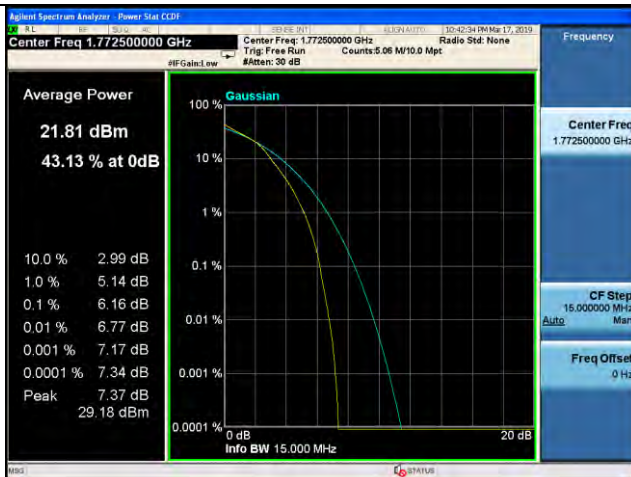
15MHz / QPSK / High Channel



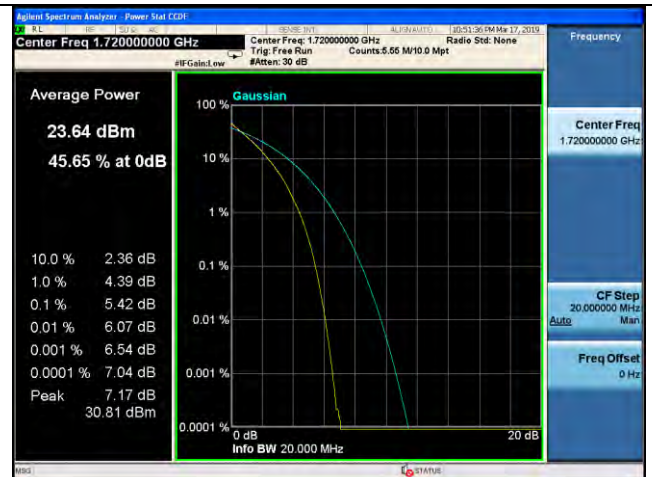
15MHz / 16QAM / High Channel



15MHz / 64QAM / High Channel



20MHz / QPSK / Low Channel



20MHz / 16QAM / Low Channel



20MHz / 64QAM / Low Channel





LTE Band 66 _ Peak-to-Average Ratio

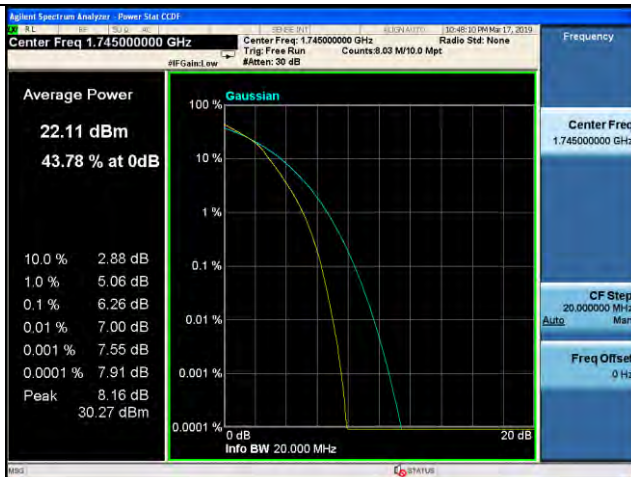
20MHz / QPSK / Middle Channel



20MHz / 16QAM / Middle Channel



20MHz / 64QAM / Middle Channel



20MHz / QPSK / High Channel



20MHz / 16QAM / High Channel



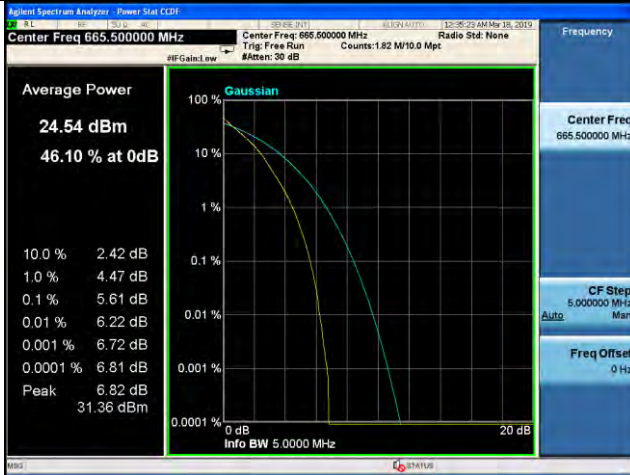
20MHz / 64QAM / High Channel





LTE Band 71 _ Peak-to-Average Ratio

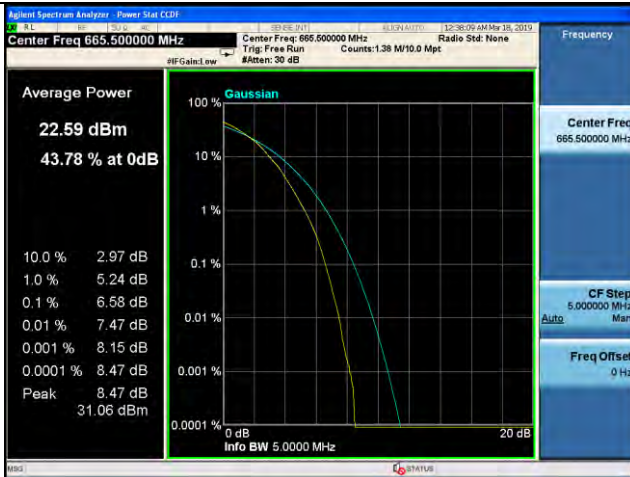
5MHz / QPSK / Low Channel



5MHz / 16QAM / Low Channel



5MHz / 64QAM / Low Channel



5MHz / QPSK / Middle Channel



5MHz / 16QAM / Middle Channel



5MHz / 64QAM / Middle Channel





LTE Band 71 _ Peak-to-Average Ratio

5MHz / QPSK / High Channel



5MHz / 16QAM / High Channel



5MHz / 64QAM / High Channel



10MHz / QPSK / Low Channel



10MHz / 16QAM / Low Channel



10MHz / 64QAM / Low Channel





LTE Band 71 _ Peak-to-Average Ratio

10MHz / QPSK / Middle Channel



10MHz / 16QAM / Middle Channel



10MHz / 64QAM / Middle Channel



10MHz / QPSK / High Channel



10MHz / 16QAM / High Channel



10MHz / 64QAM / High Channel





LTE Band 71 _ Peak-to-Average Ratio

15MHz / QPSK / Low Channel



15MHz / 16QAM / Low Channel



15MHz / 64QAM / Low Channel



15MHz / QPSK / Middle Channel



15MHz / 16QAM / Middle Channel



15MHz / 64QAM / Middle Channel



LTE Band 71 _ Peak-to-Average Ratio

15MHz / QPSK / High Channel



15MHz / 16QAM / High Channel



15MHz / 64QAM / High Channel



20MHz / QPSK / Low Channel



20MHz / 16QAM / Low Channel



20MHz / 64QAM / Low Channel





LTE Band 71 _ Peak-to-Average Ratio

20MHz / QPSK / Middle Channel



20MHz / 16QAM / Middle Channel



20MHz / 64QAM / Middle Channel



20MHz / QPSK / High Channel



20MHz / 16QAM / High Channel



20MHz / 64QAM / High Channel





2.5. Conducted Spurious Emissions

2.5.1. 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.

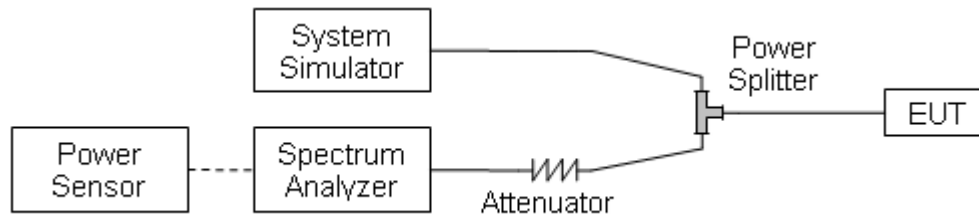
For operating in the 770-788MHz, emissions in the band 1559-1610MHz shall be limited to -70dBW/MHz. The limit of emission is equal to -40dBm

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.

2.5.2. 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.

2.5.3. Test procedure

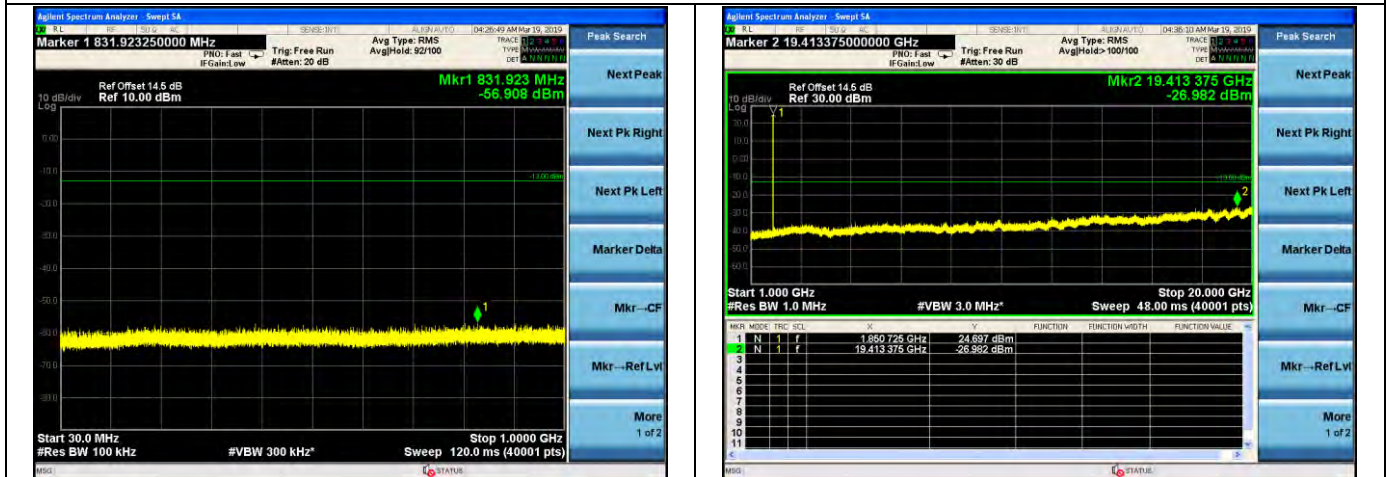
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.



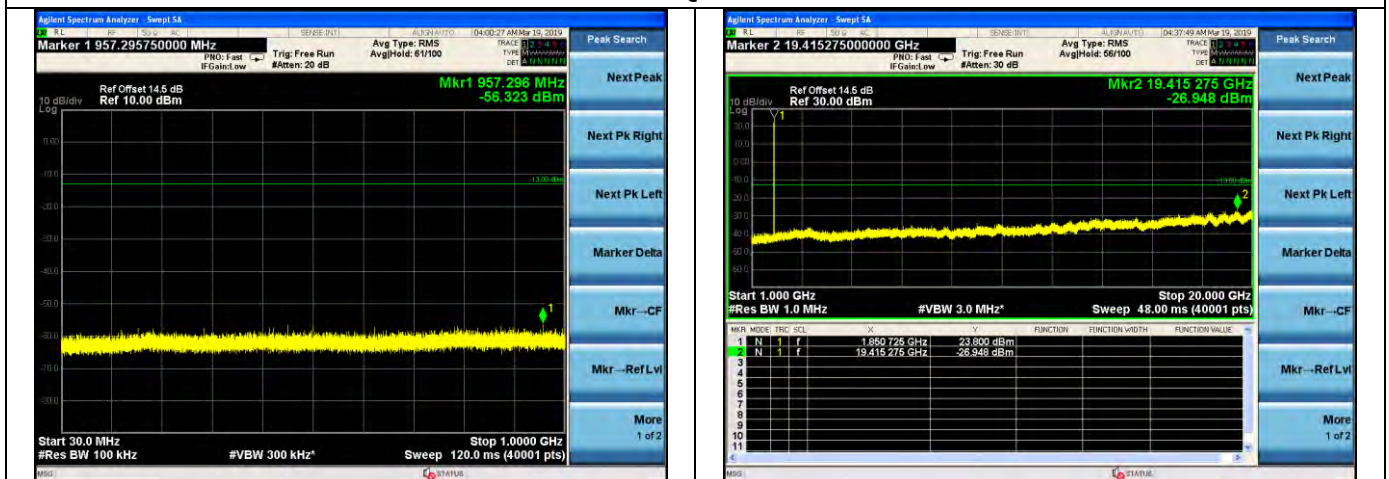
2.5.4. Test Result

LTE Band 2 _ 1.4MHz BW _ Low Channel

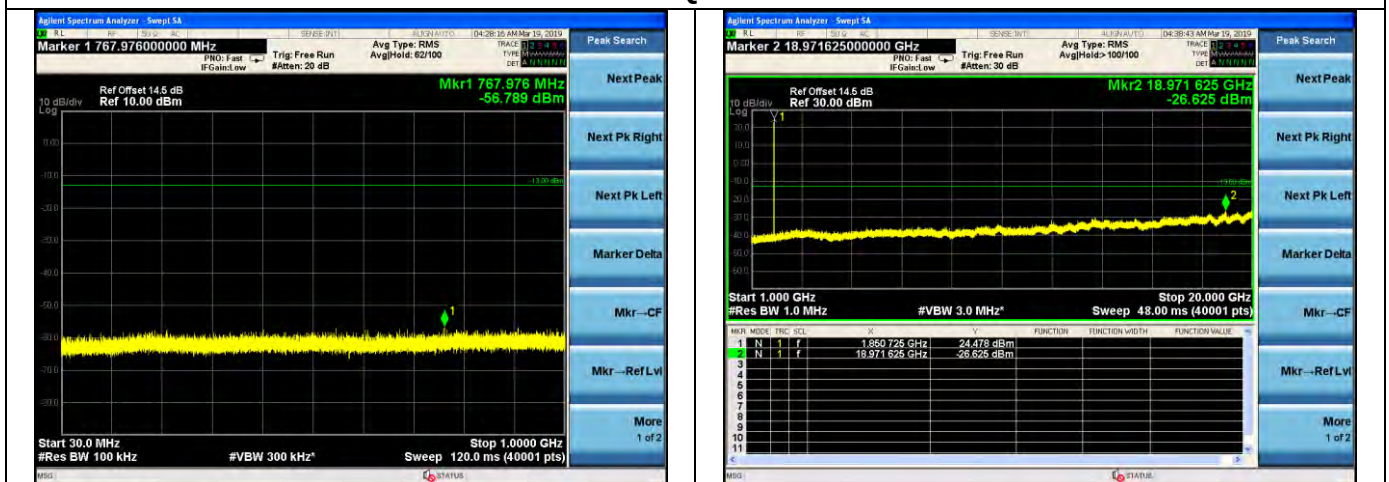
QPSK



16QAM



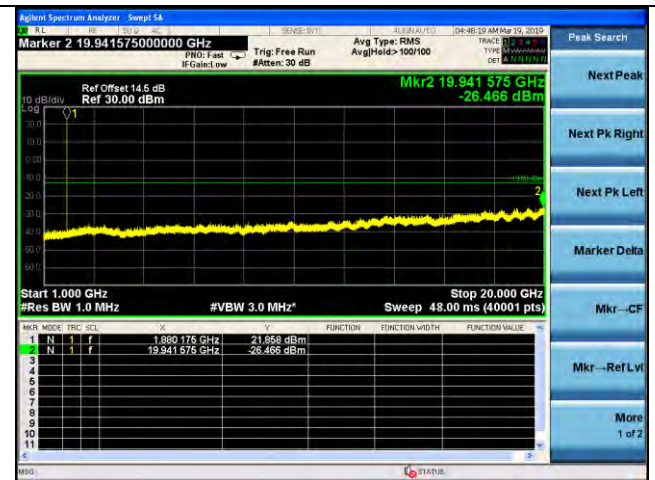
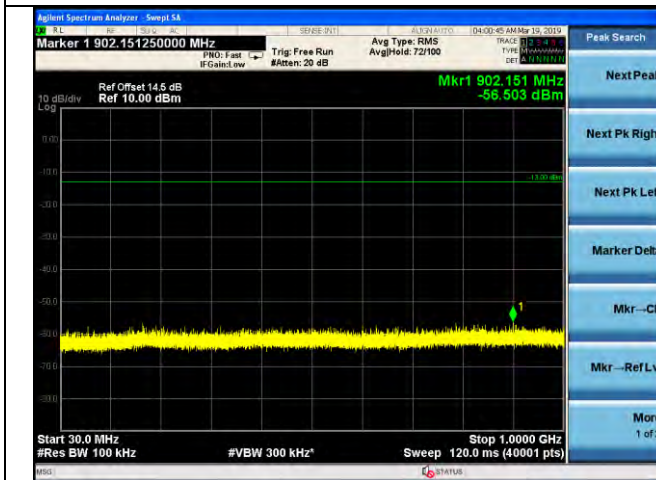
64QAM



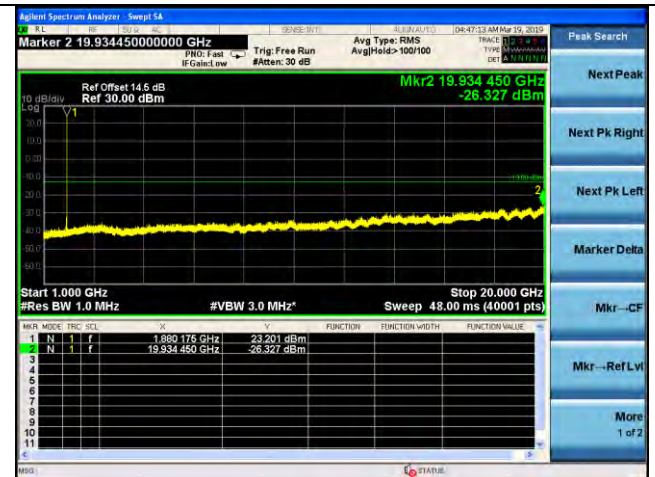
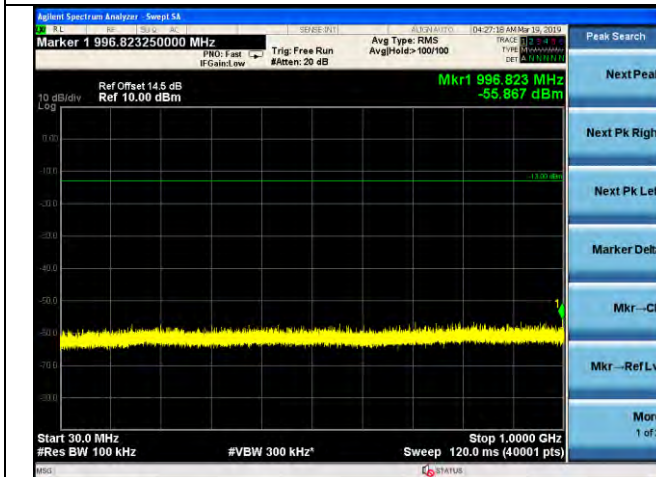


LTE Band 2 _ 1.4MHz BW _ Middle Channel

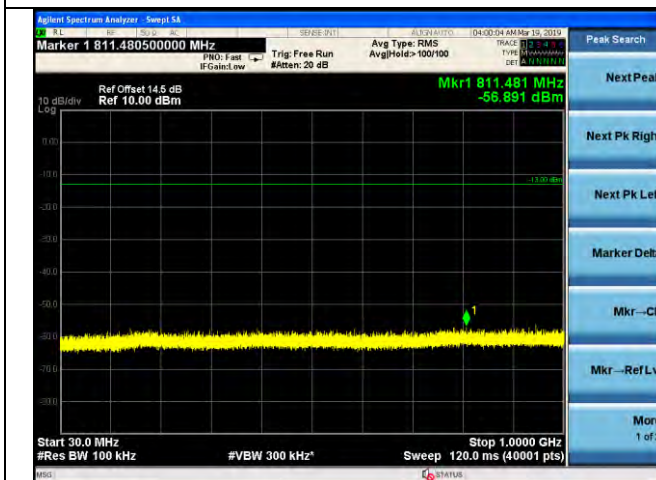
QPSK



16QAM



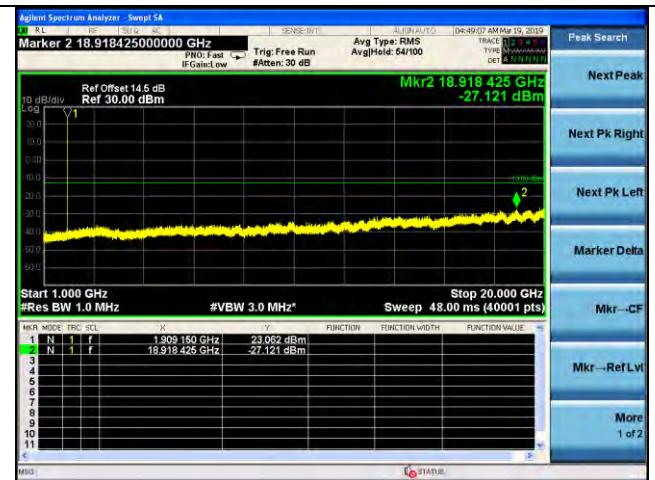
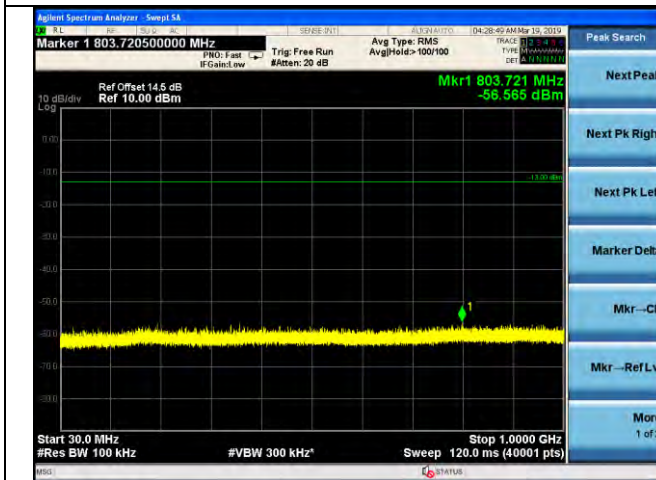
64QAM



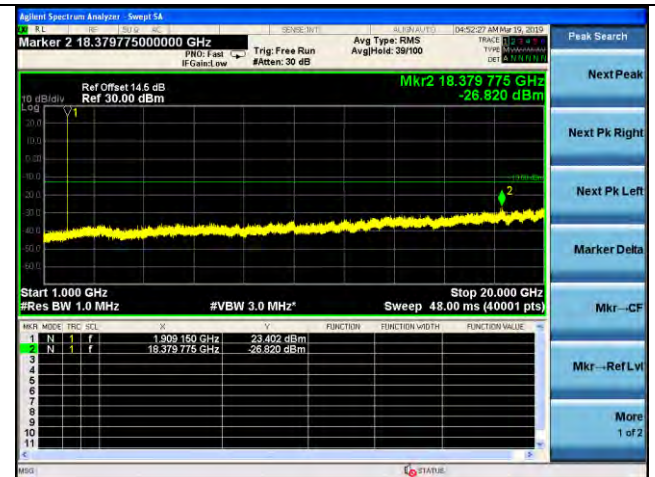
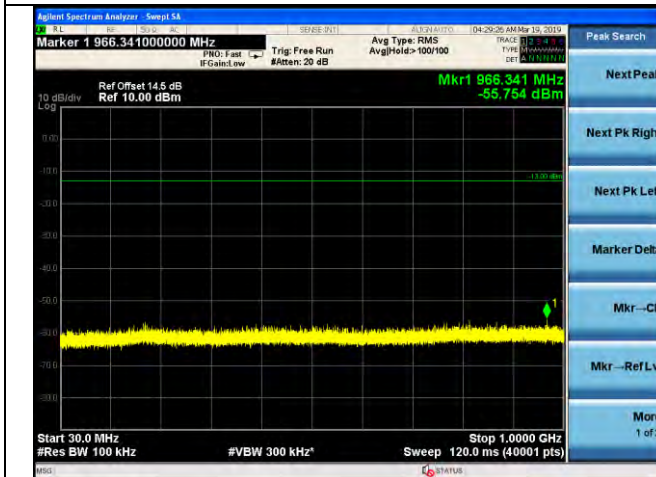


LTE Band 2 _ 1.4MHz BW _ High Channel

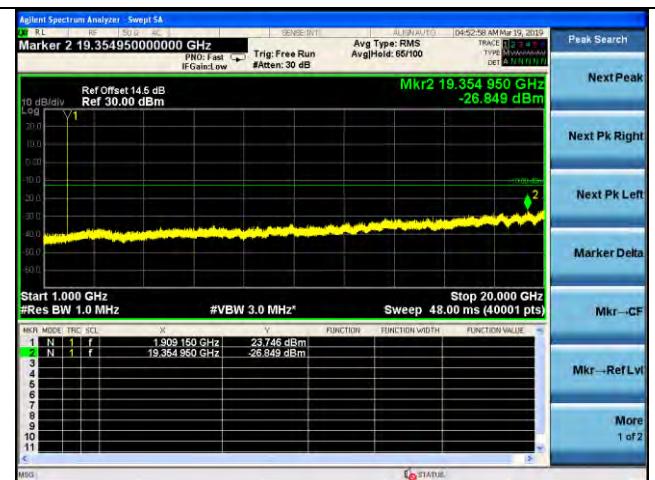
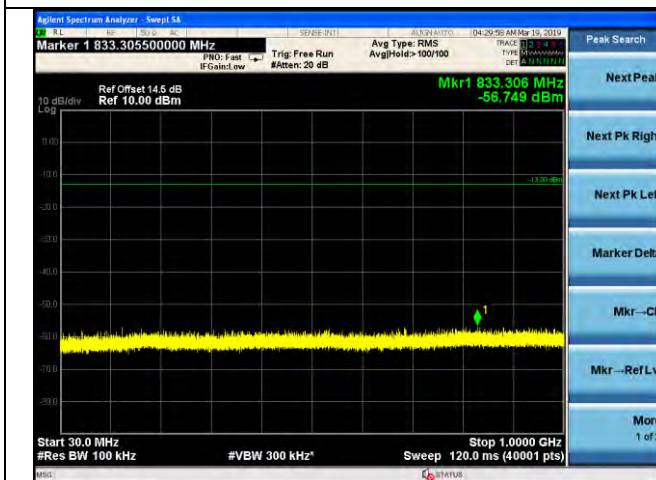
QPSK



16QAM



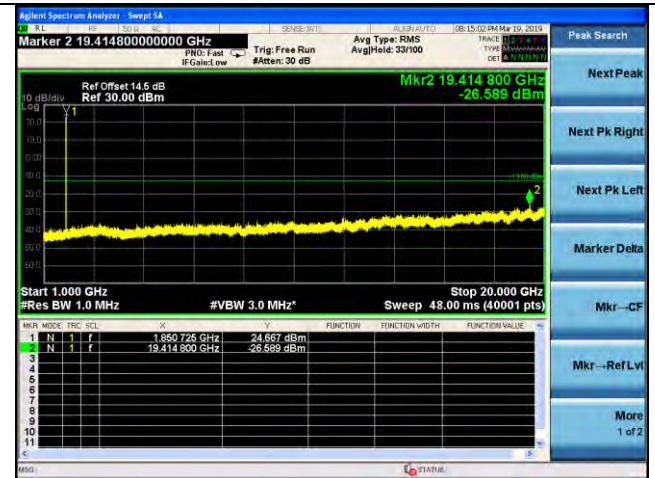
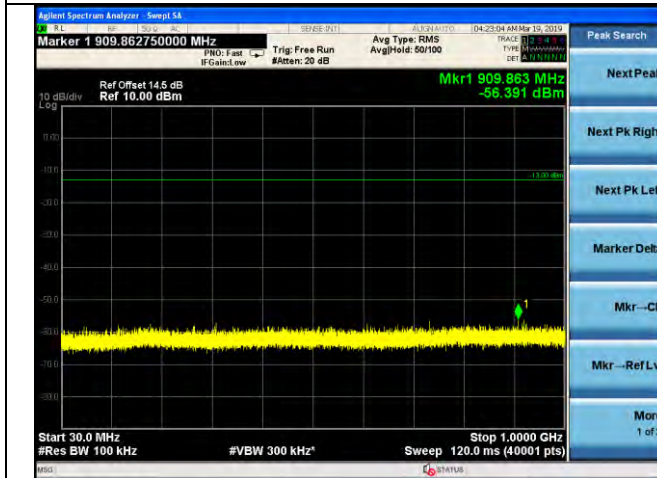
64QAM



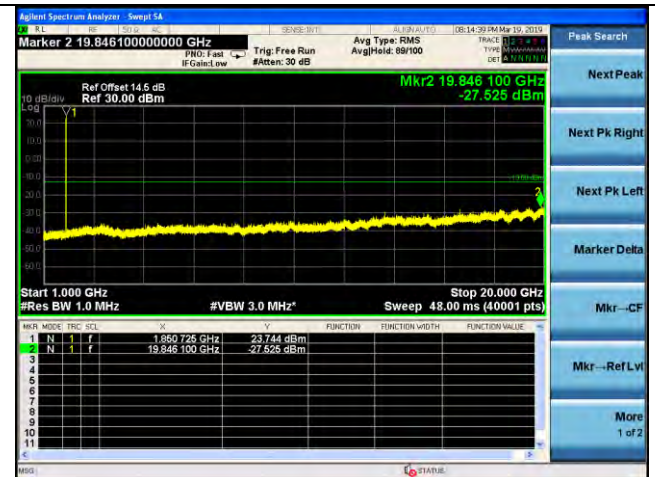
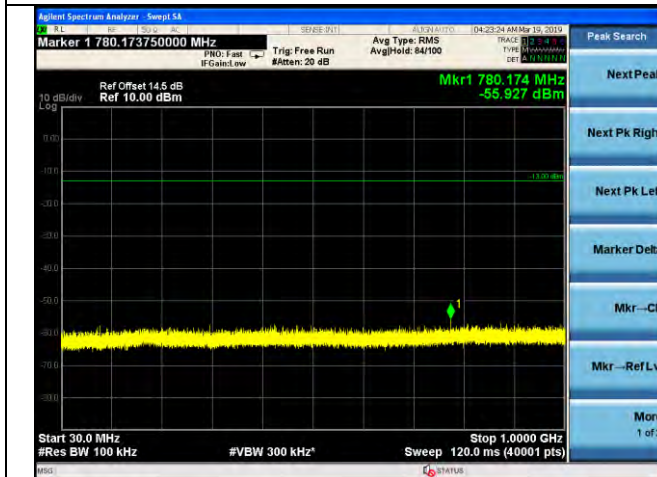


LTE Band 2 _ 3MHz BW _ Low Channel

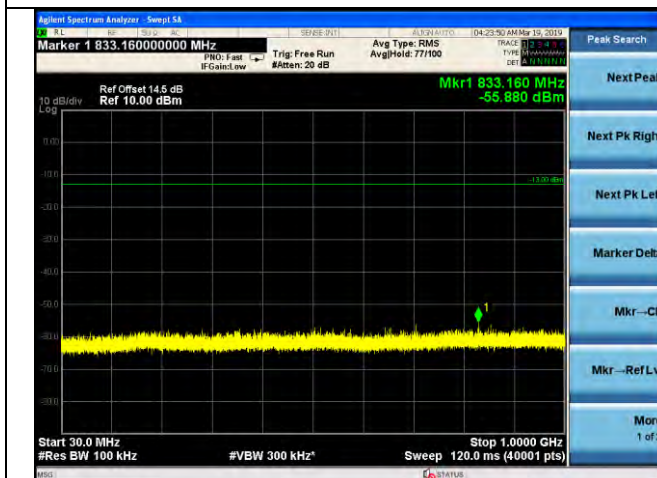
QPSK



16QAM



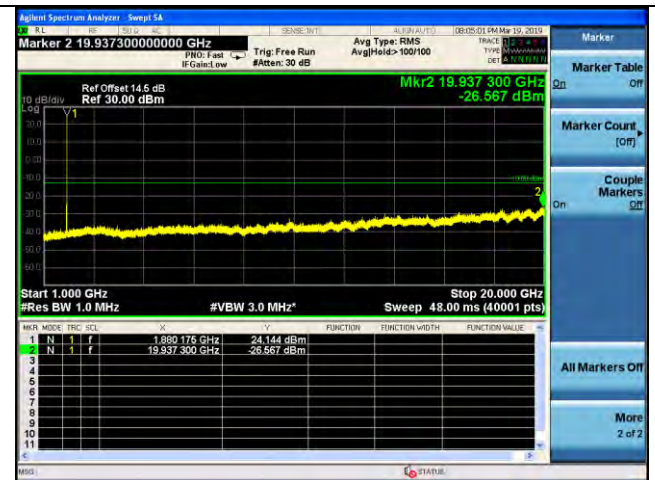
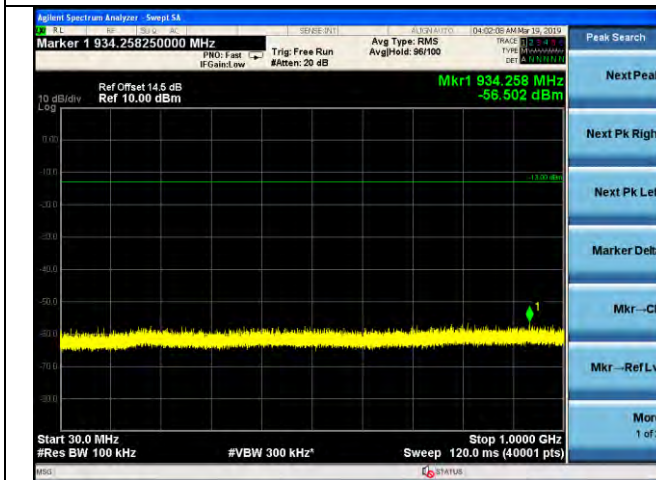
64QAM



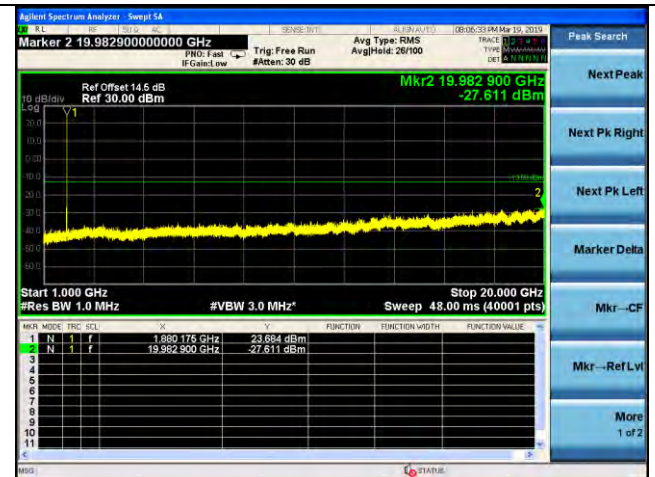
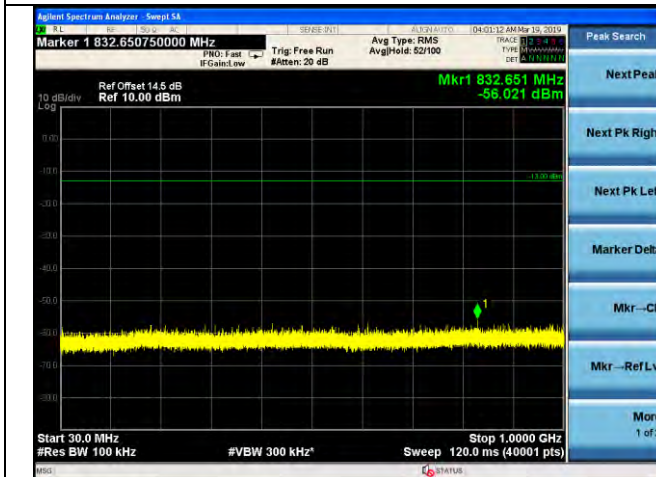


LTE Band 2 _ 3MHz BW _ Middle Channel

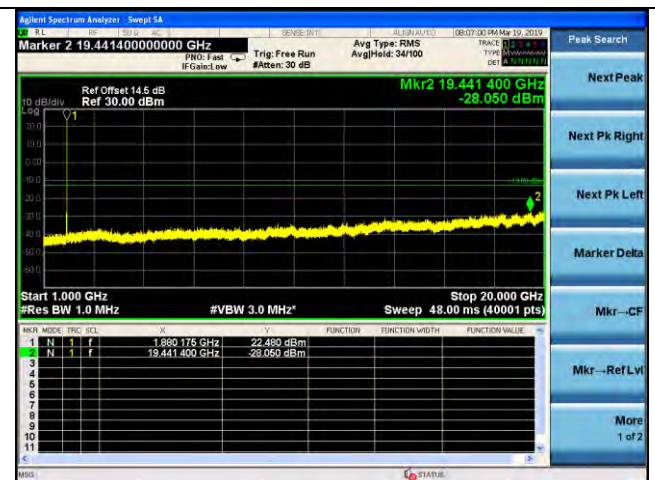
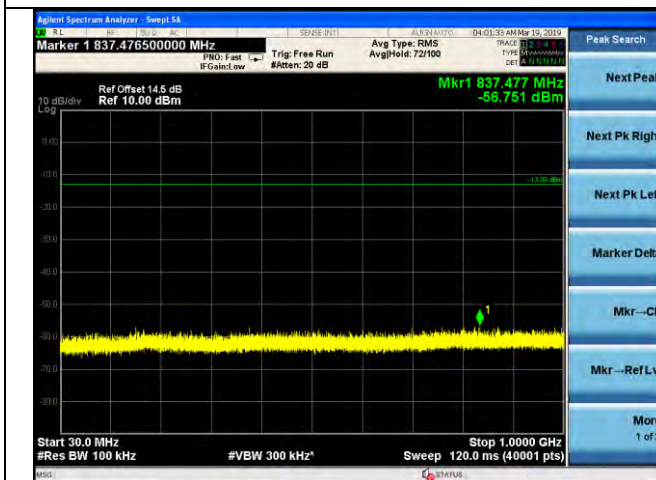
QPSK



16QAM



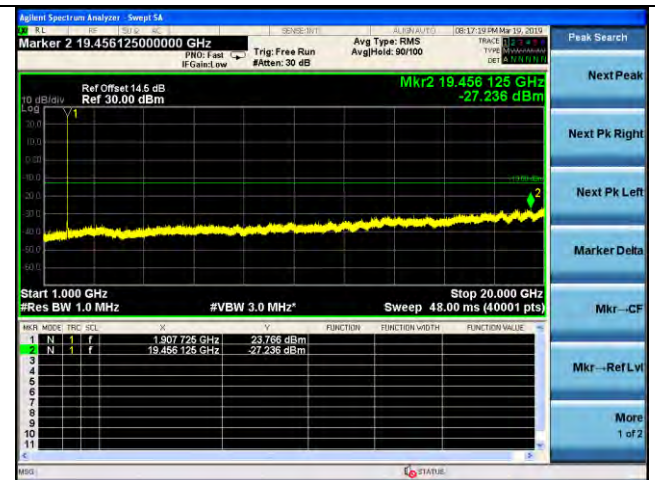
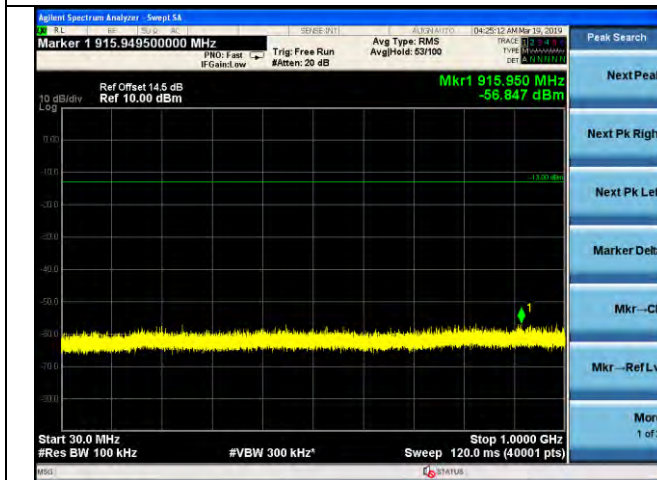
64QAM



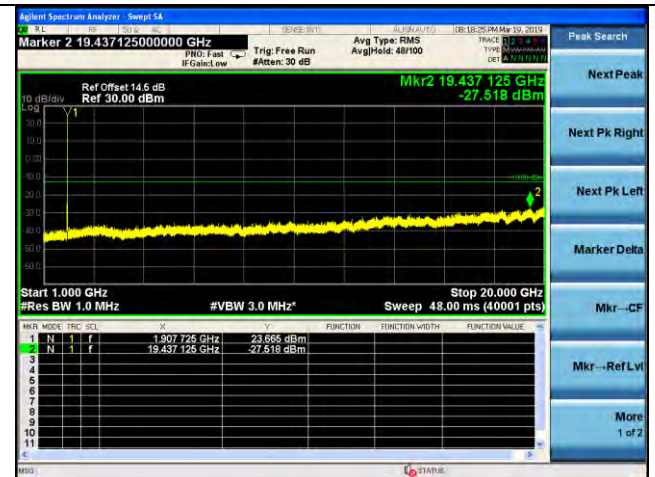
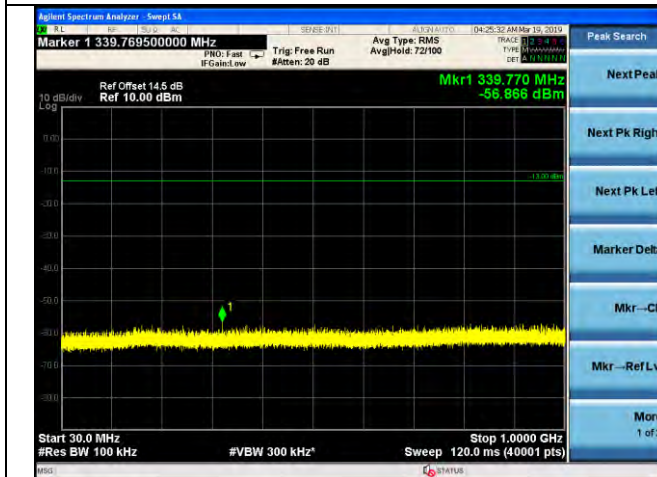


LTE Band 2 _ 3MHz BW _ High Channel

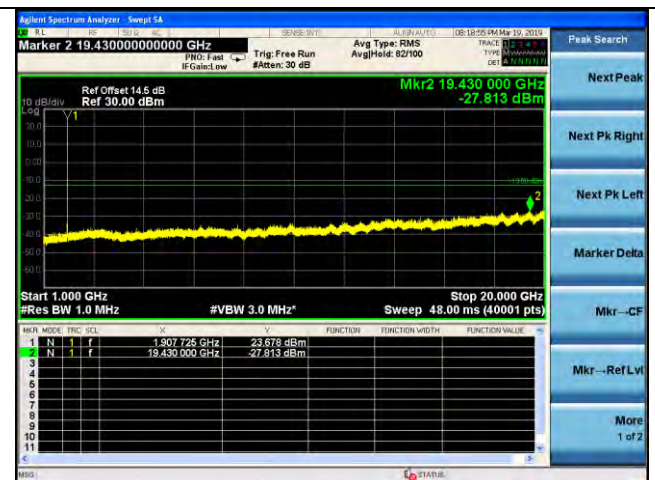
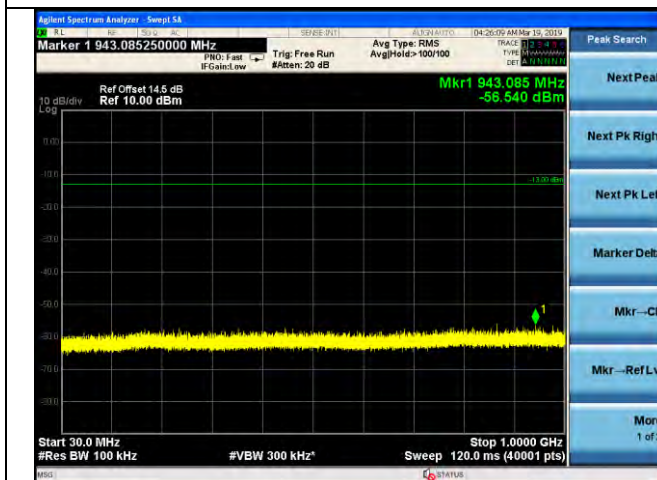
QPSK



16QAM



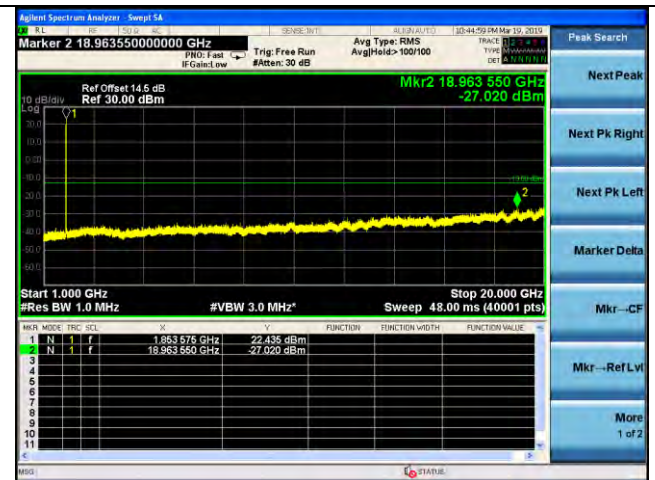
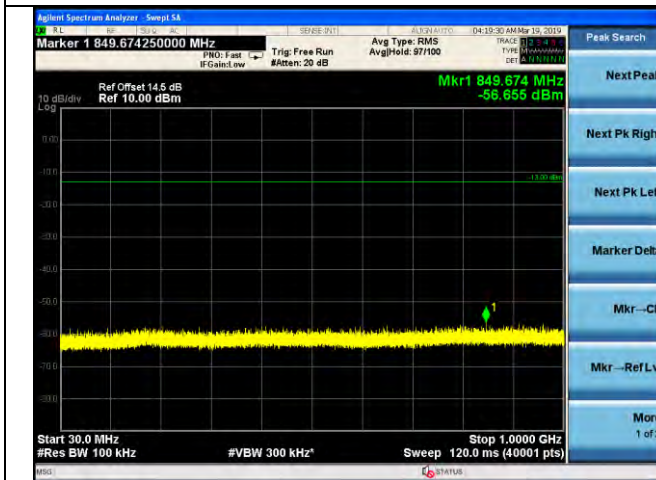
64QAM



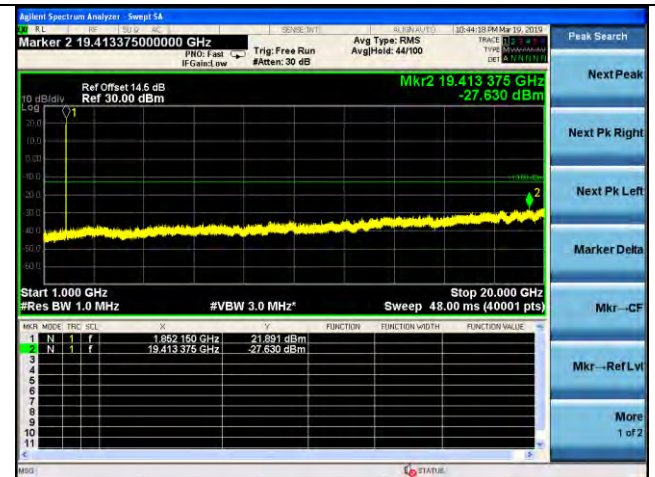
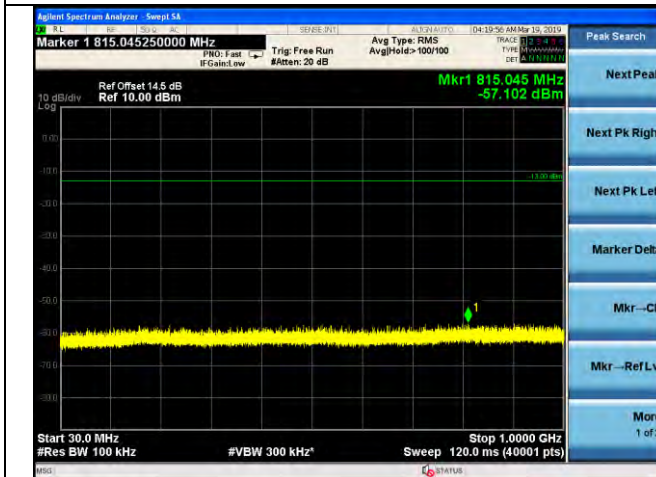


LTE Band 2 _ 5MHz BW _ Low Channel

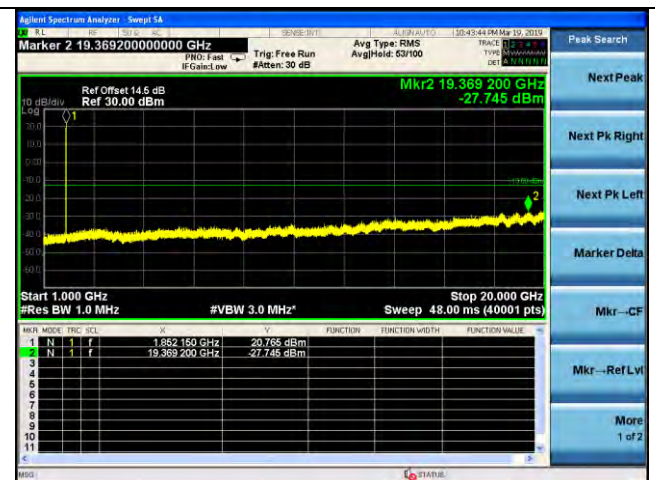
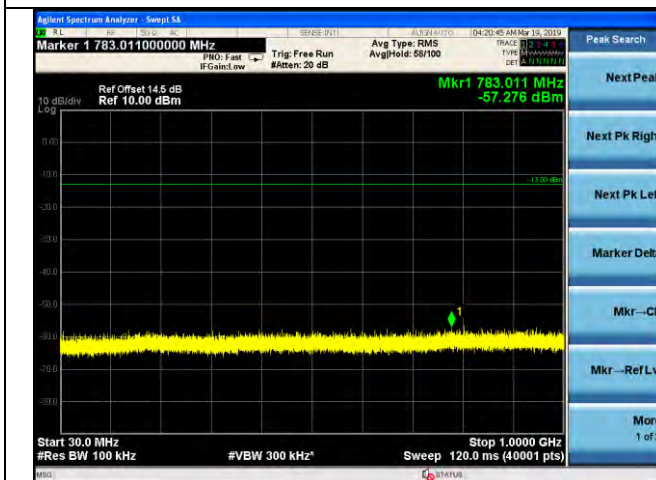
QPSK



16QAM



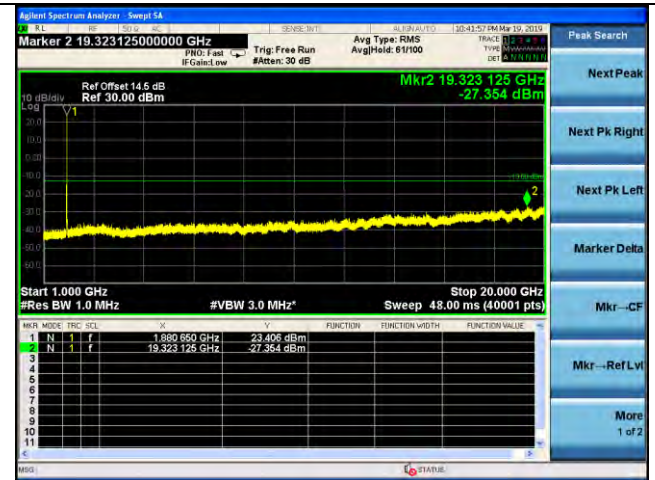
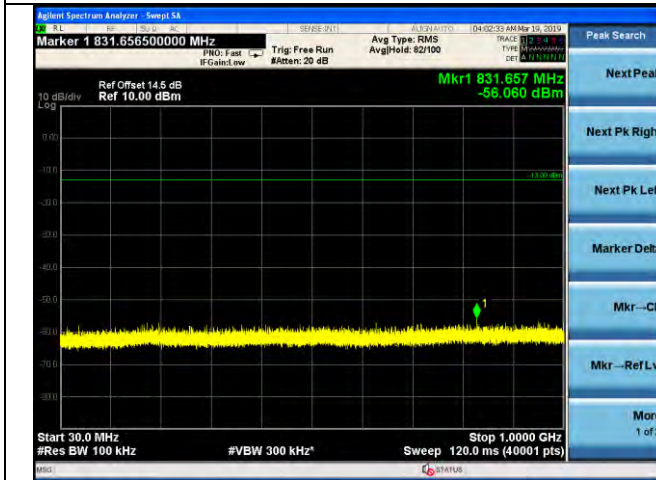
64QAM



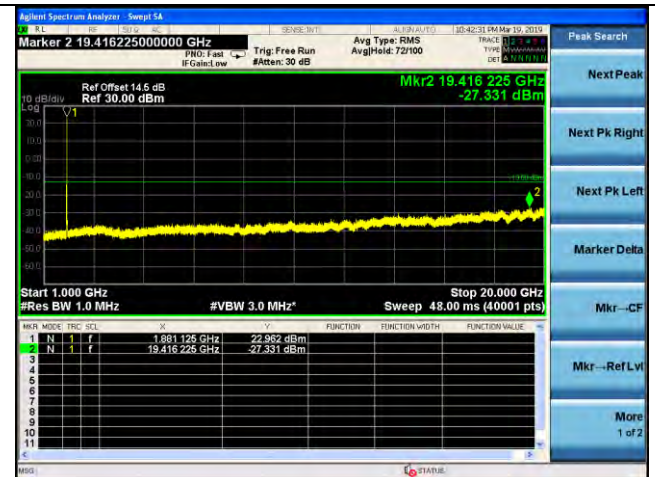
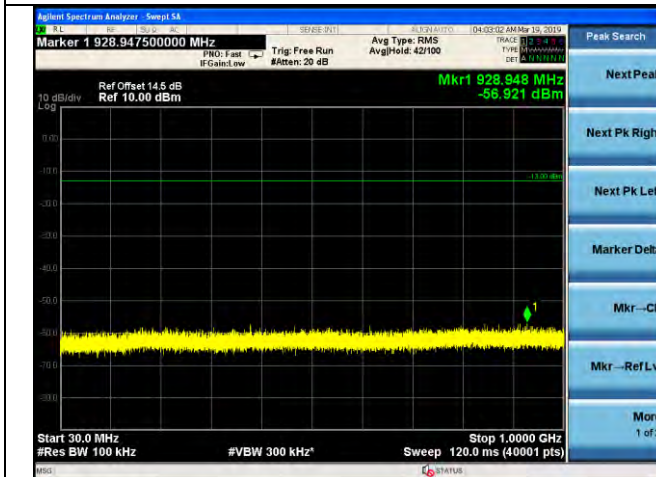


LTE Band 2 _ 5MHz BW _ Middle Channel

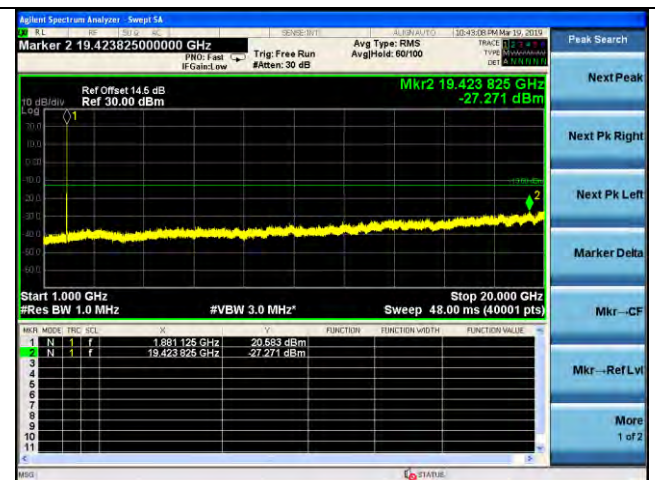
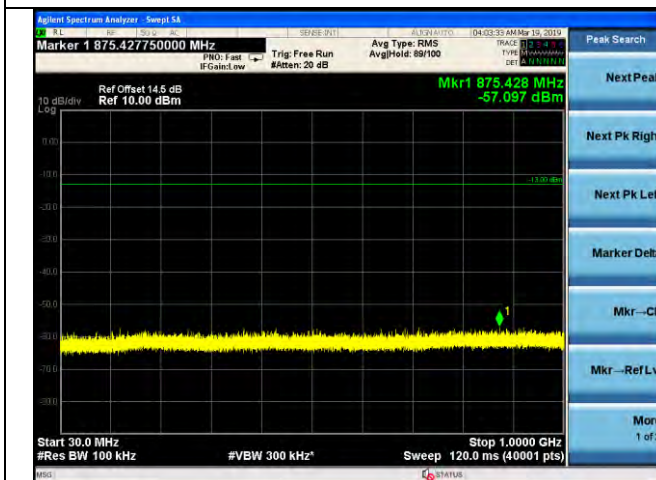
QPSK



16QAM



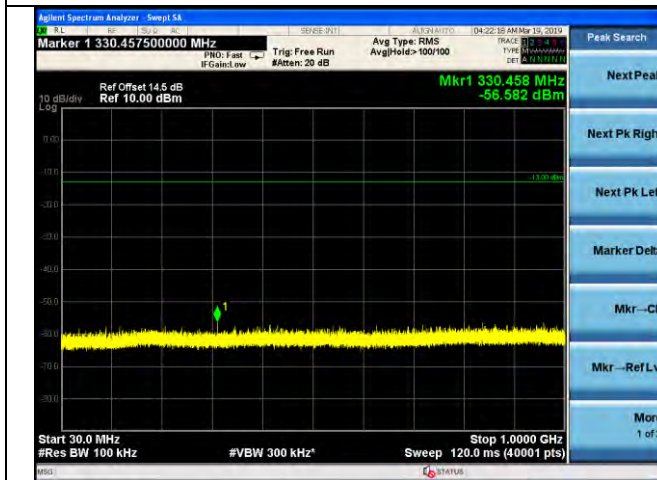
64QAM



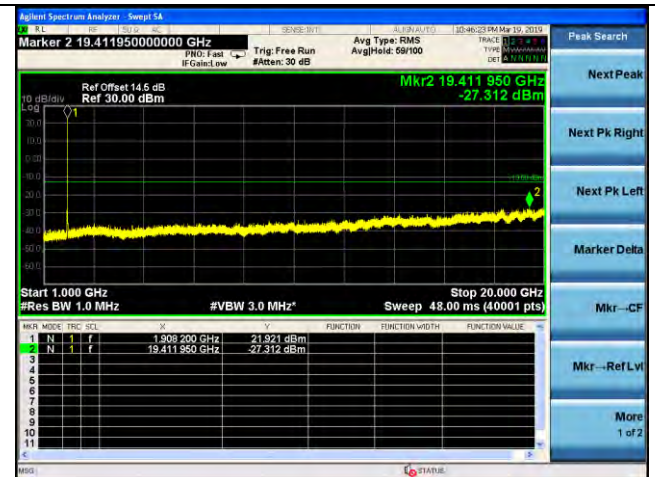
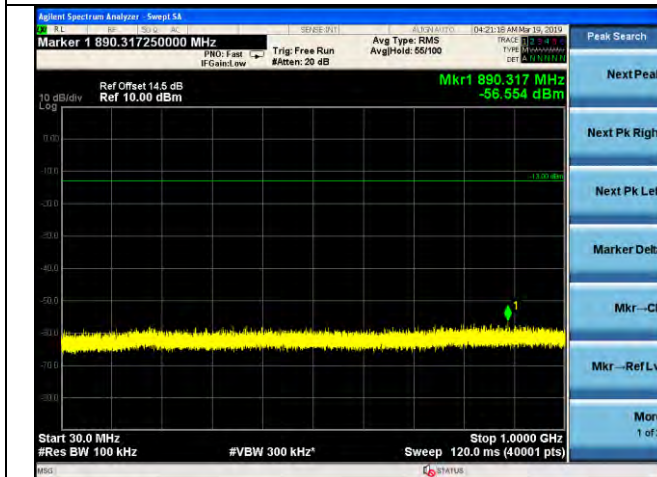


LTE Band 2 _ 5MHz BW _ High Channel

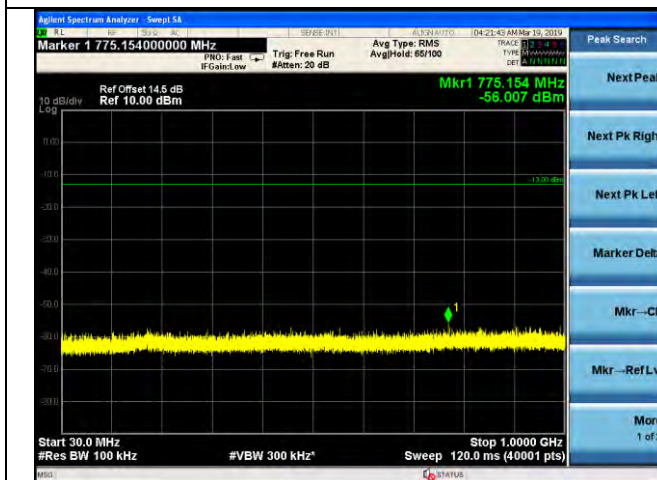
QPSK



16QAM



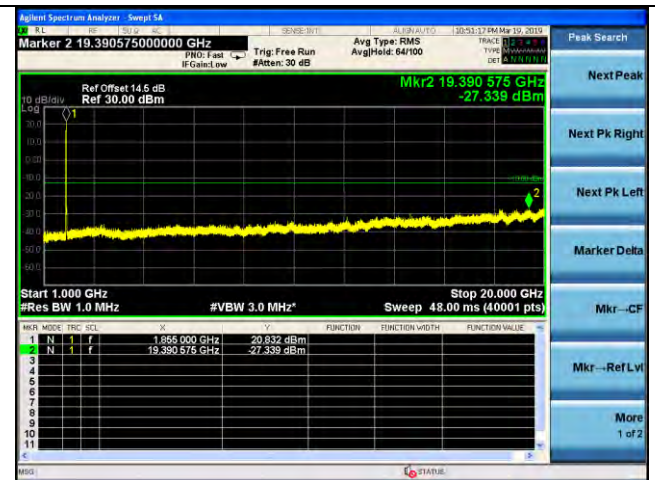
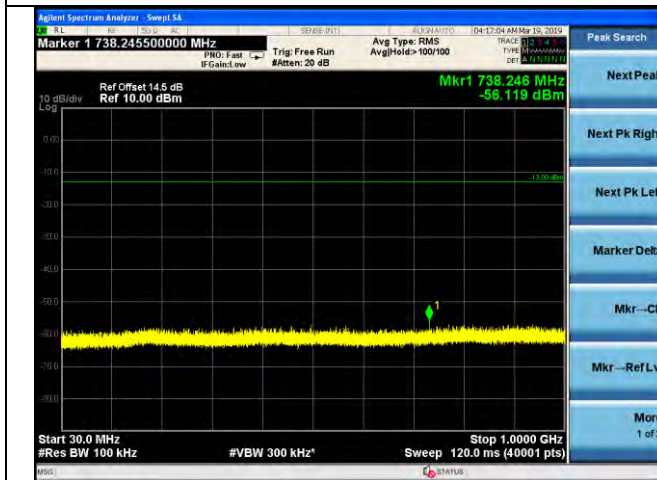
64QAM



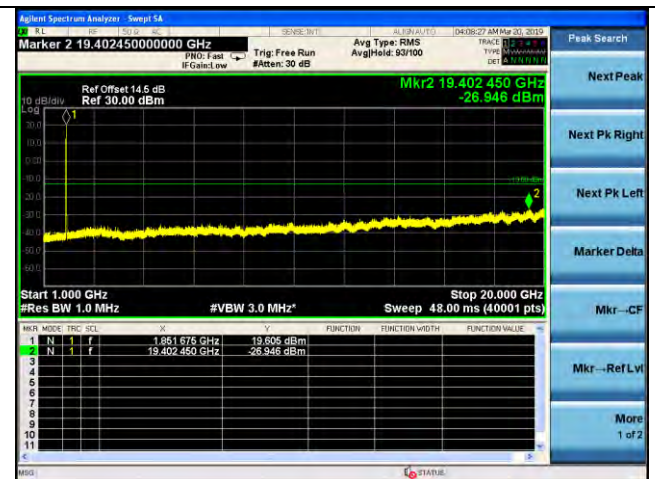
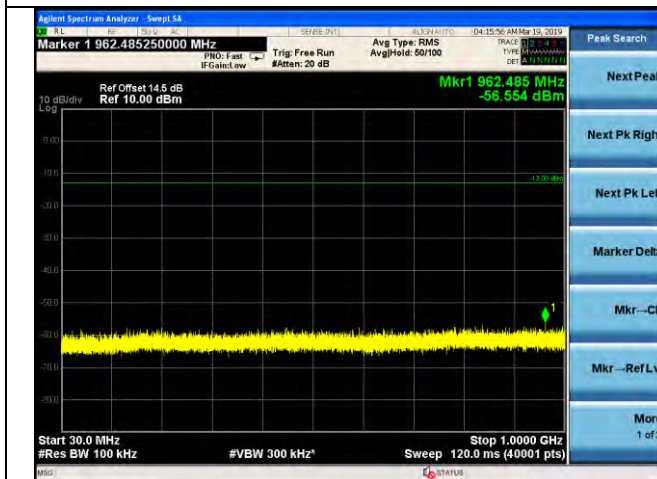


LTE Band 2 _ 10MHz BW _ Low Channel

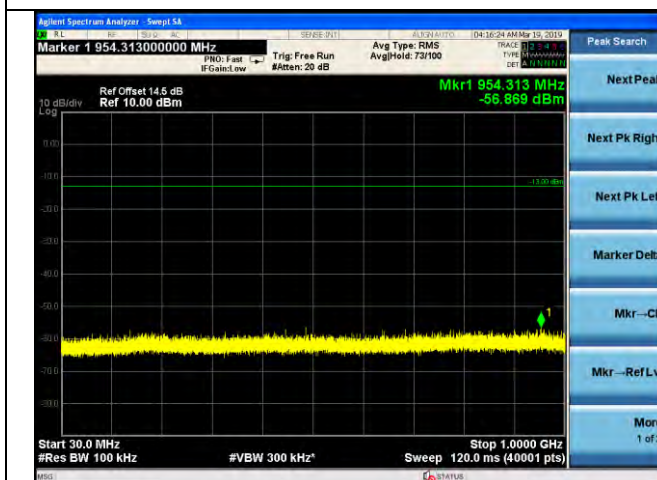
QPSK



16QAM



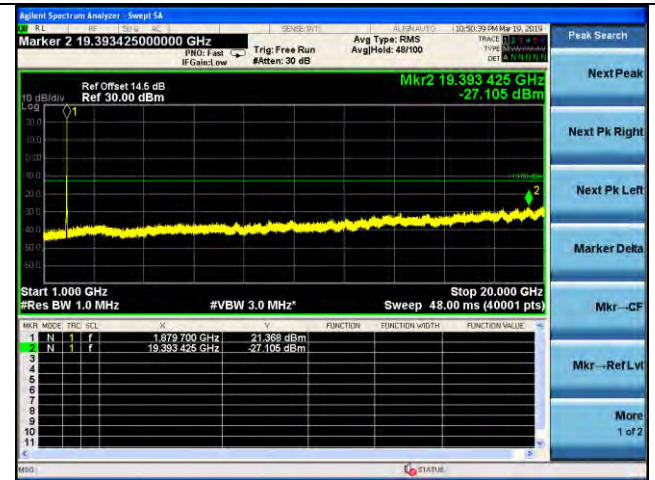
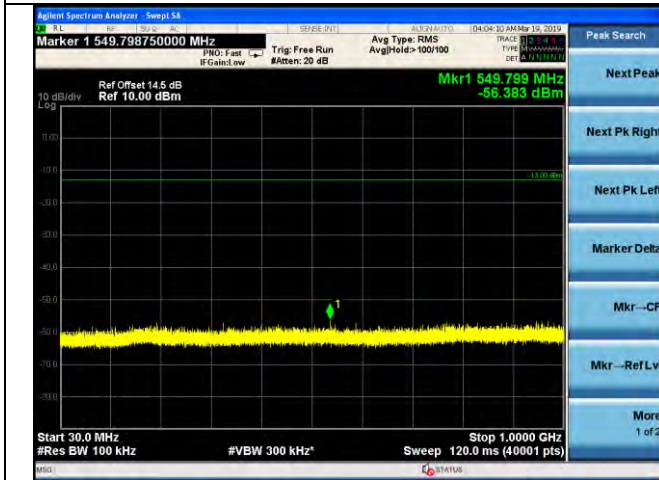
64QAM



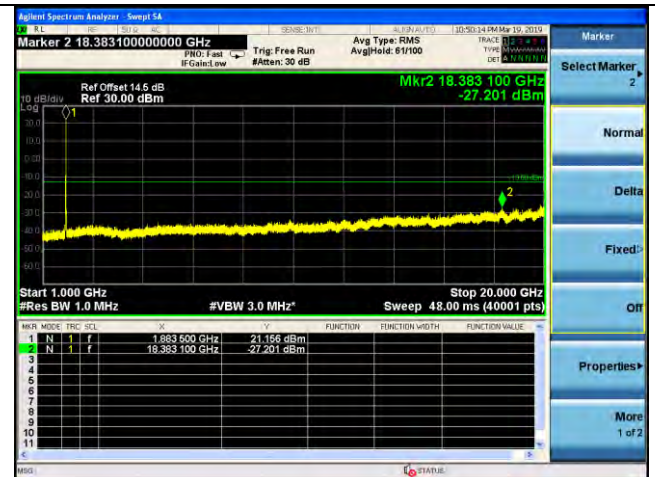
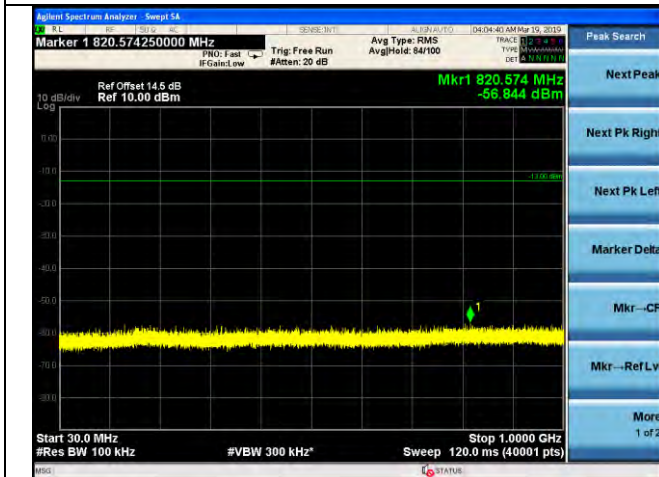


LTE Band 2 _ 10MHz BW _ Middle Channel

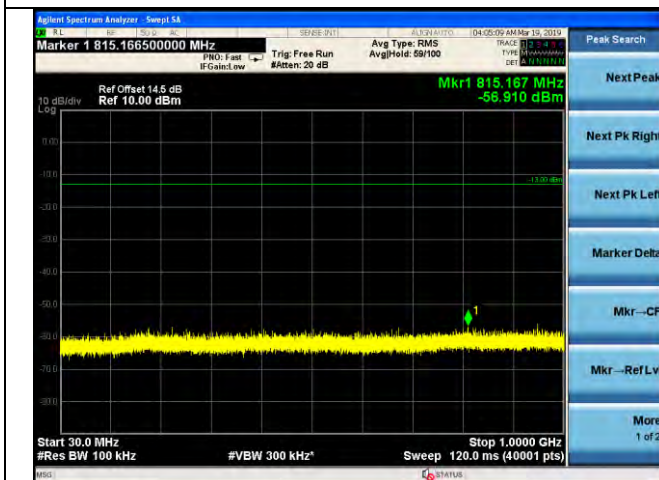
QPSK



16QAM



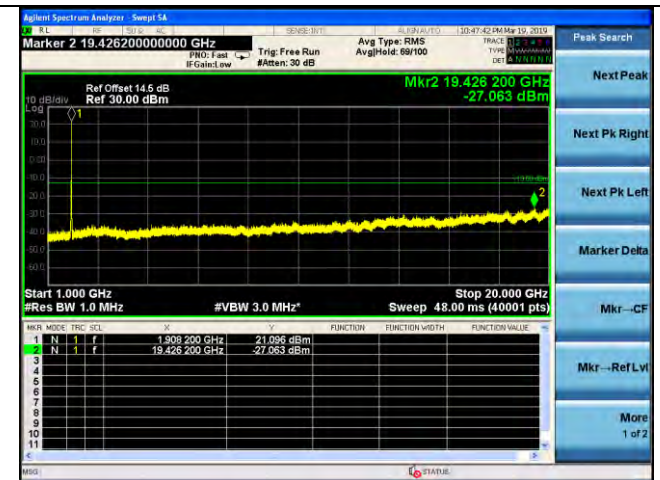
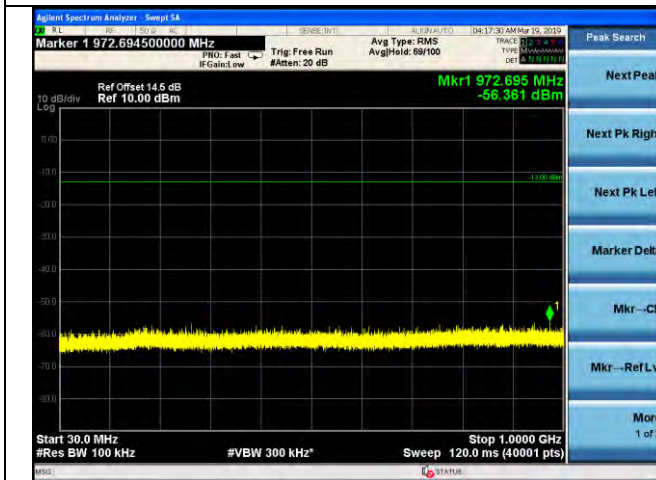
64QAM



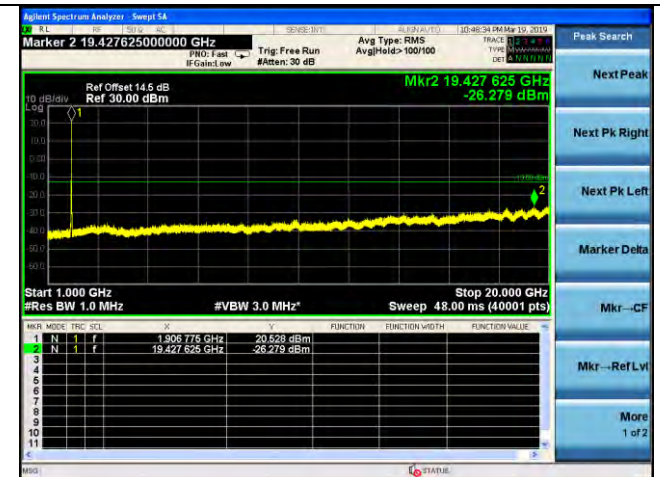
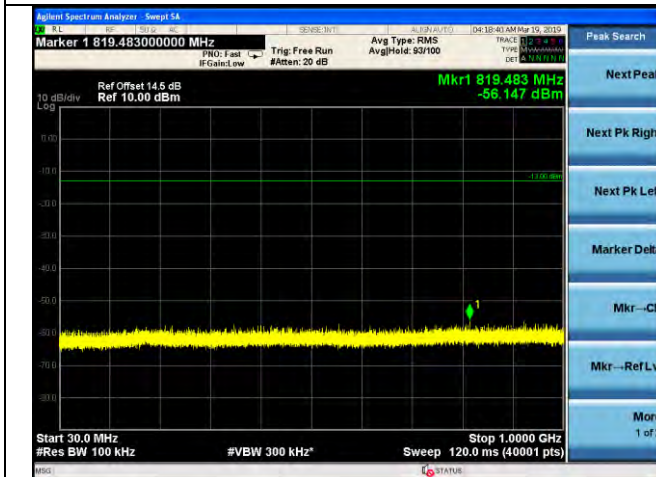


LTE Band 2 _ 10MHz BW _ High Channel

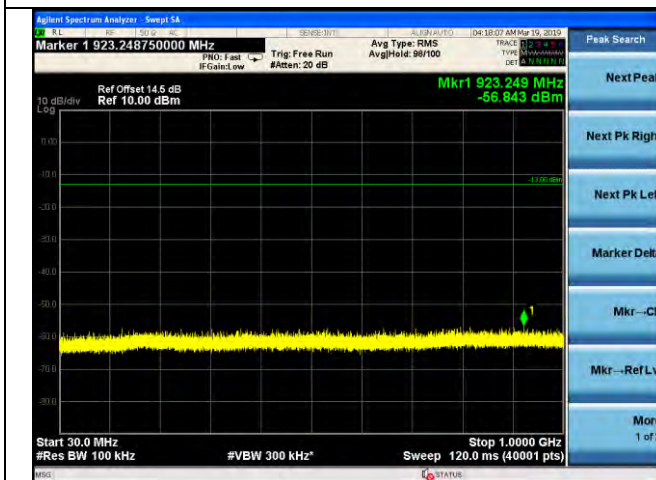
QPSK



16QAM



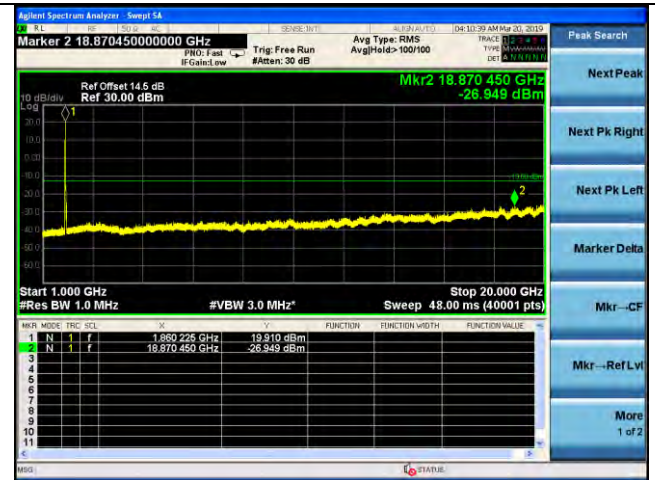
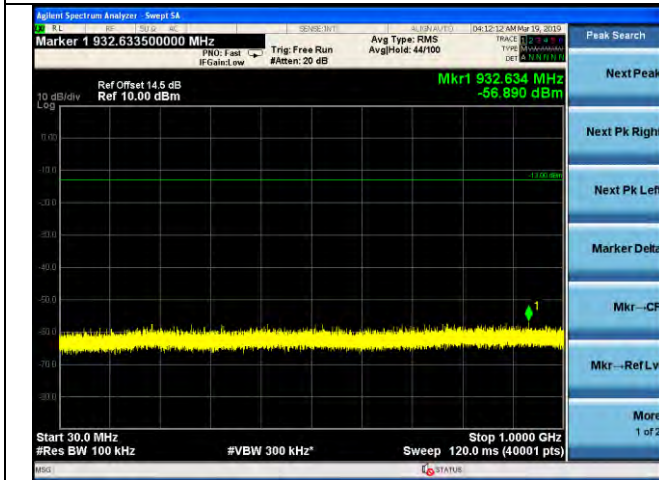
64QAM



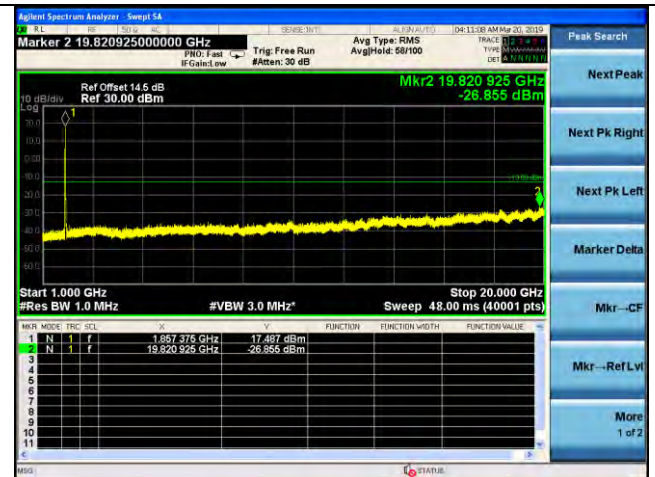
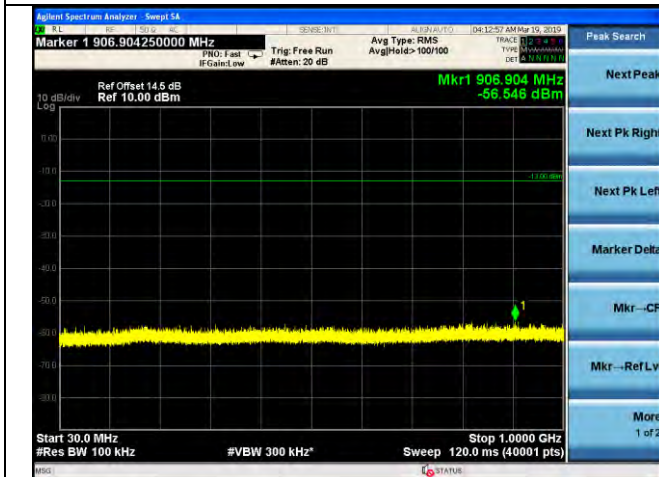


LTE Band 2 _ 15MHz BW _ Low Channel

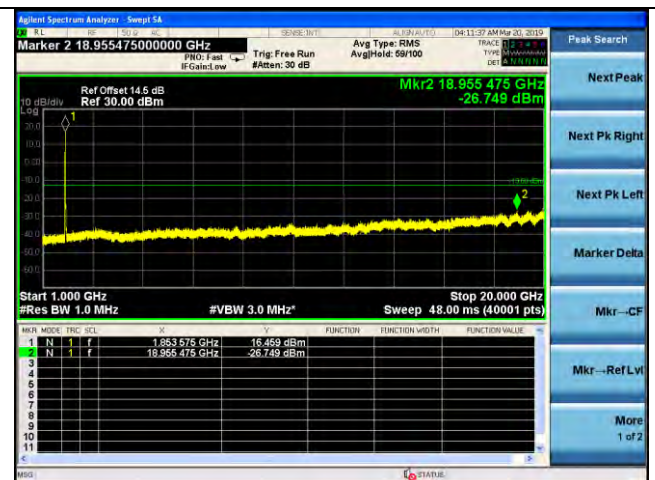
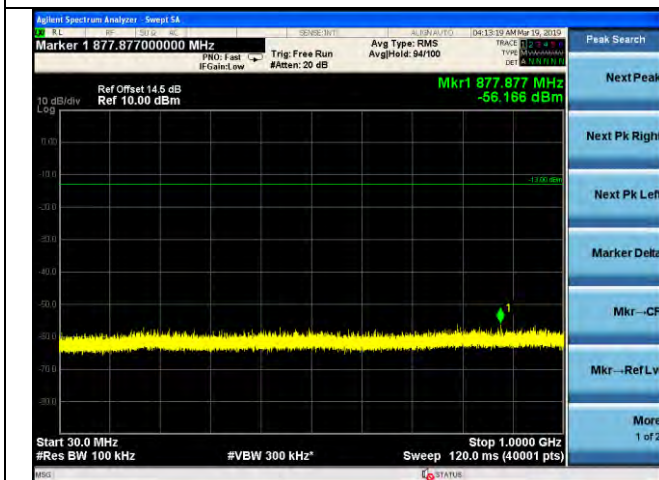
QPSK



16QAM



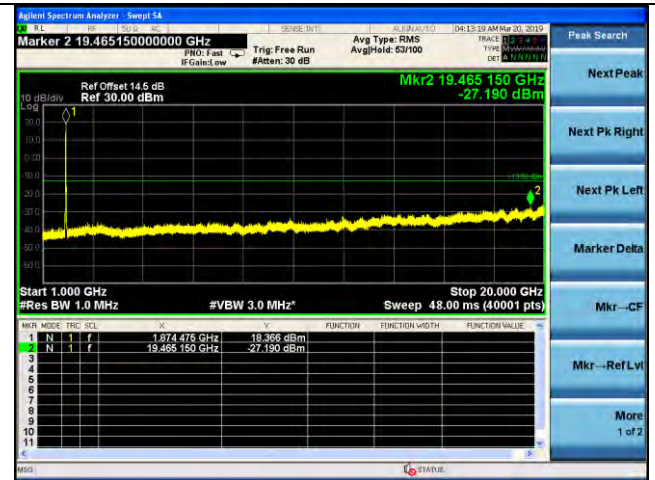
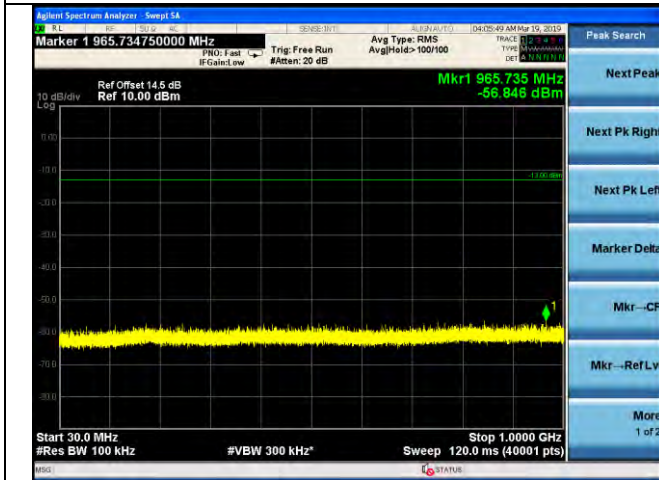
64QAM



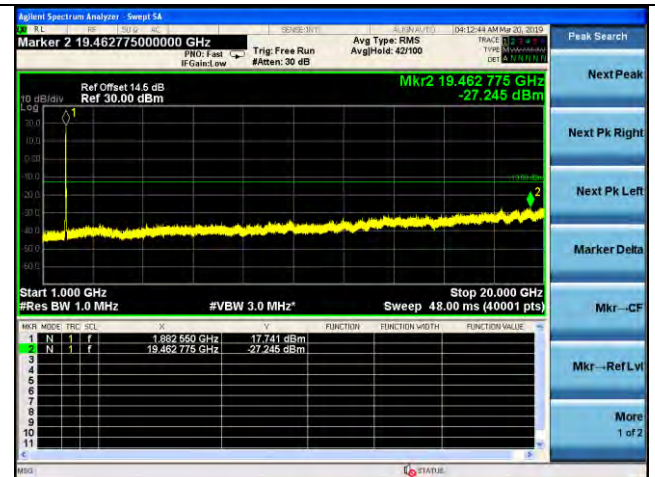
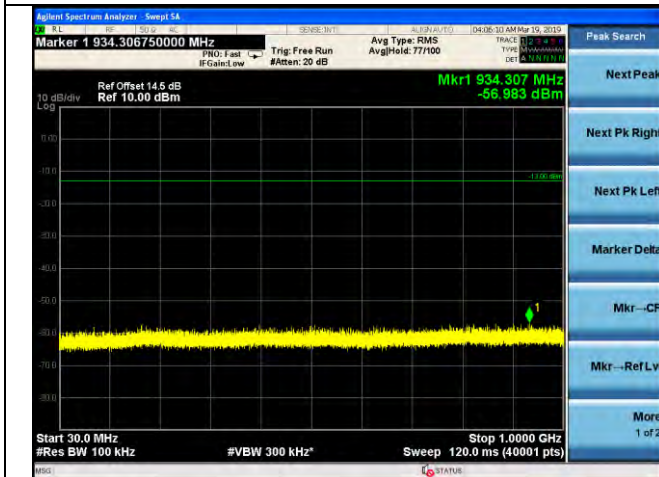


LTE Band 2 _ 15MHz BW _ Middle Channel

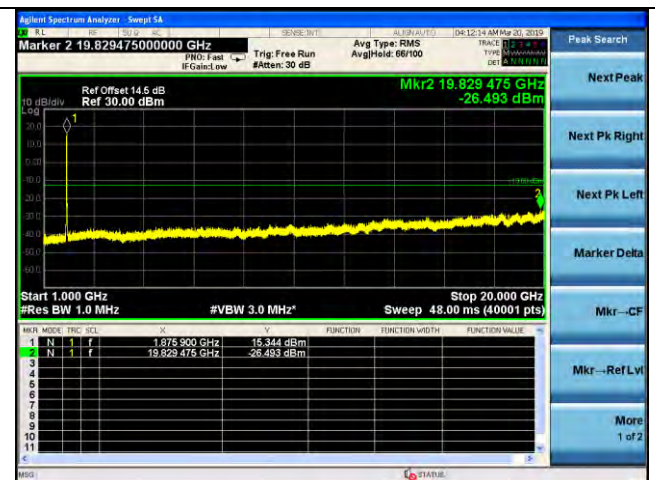
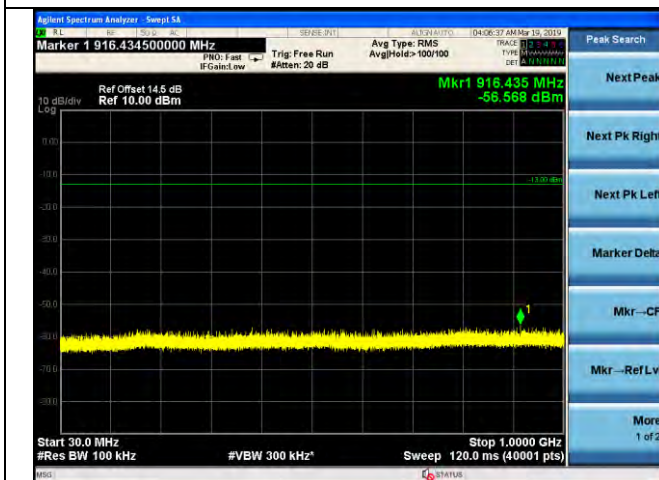
QPSK



16QAM



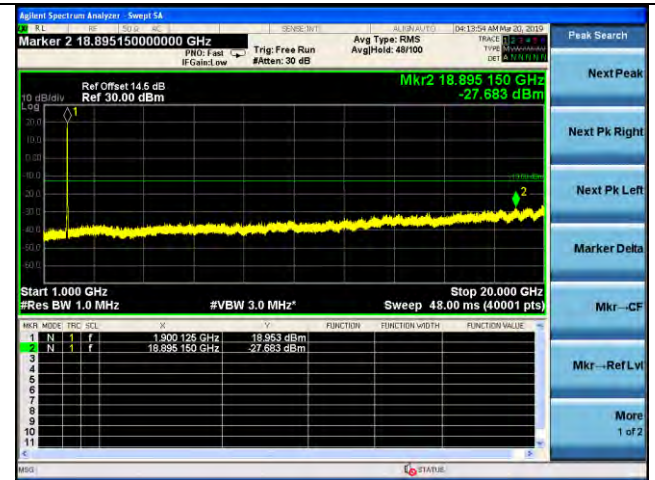
64QAM



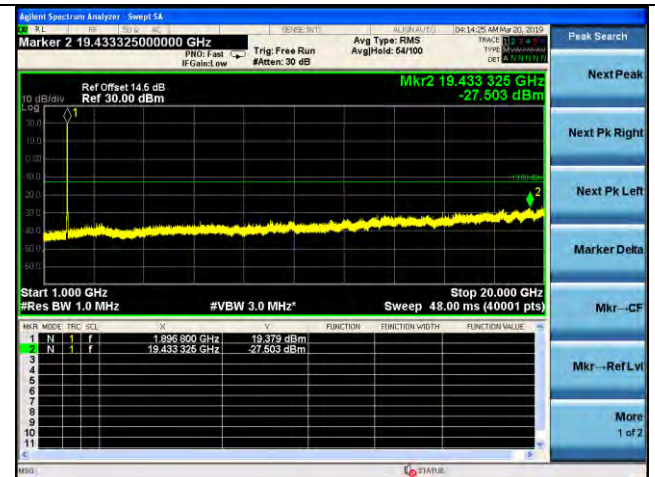
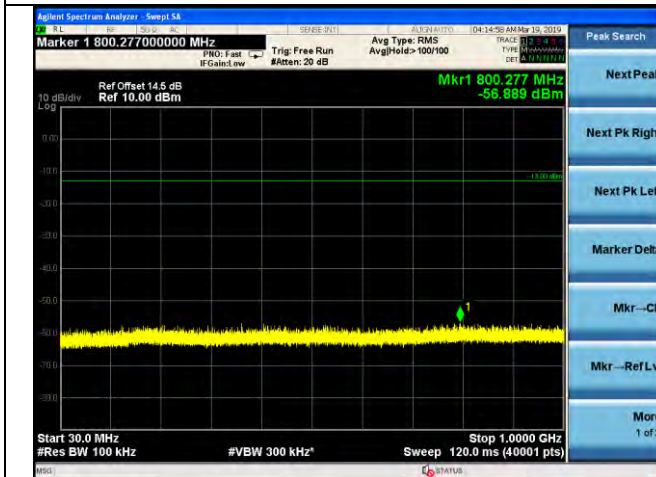


LTE Band 2 _ 15MHz BW _ High Channel

QPSK



16QAM



64QAM

