



LTE Band 4 10MHz BW Low Channel

QPSK



16QAM





LTE Band 4 10MHz BW Mid Channel

QPSK



16QAM





LTE Band 4 10MHz BW High Channel

QPSK



16QAM



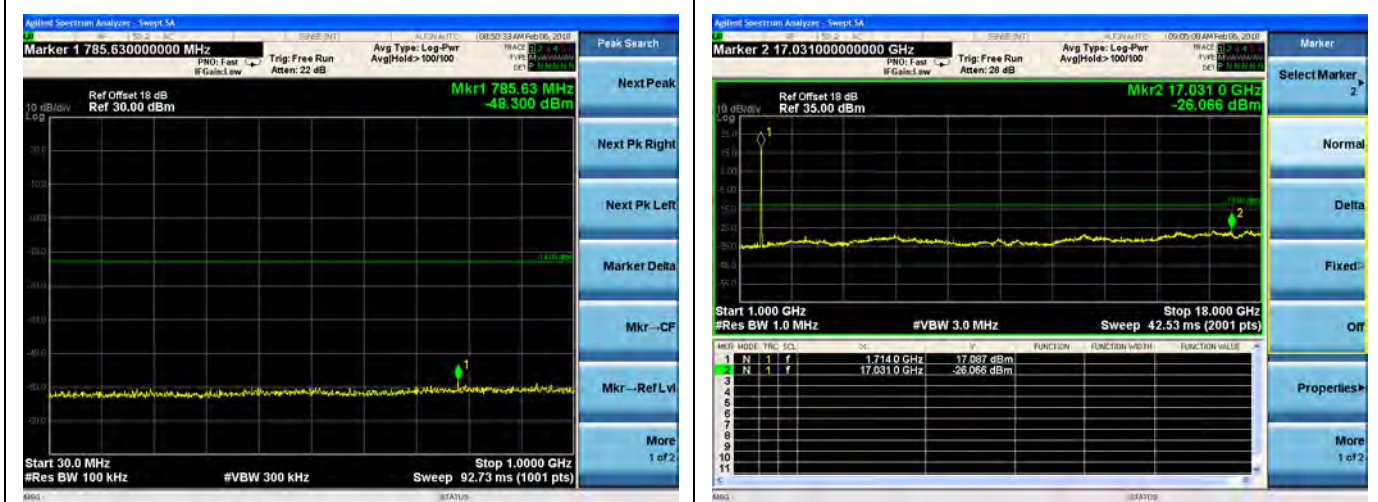


LTE Band 4 15MHz BW Low Channel

QPSK



16QAM



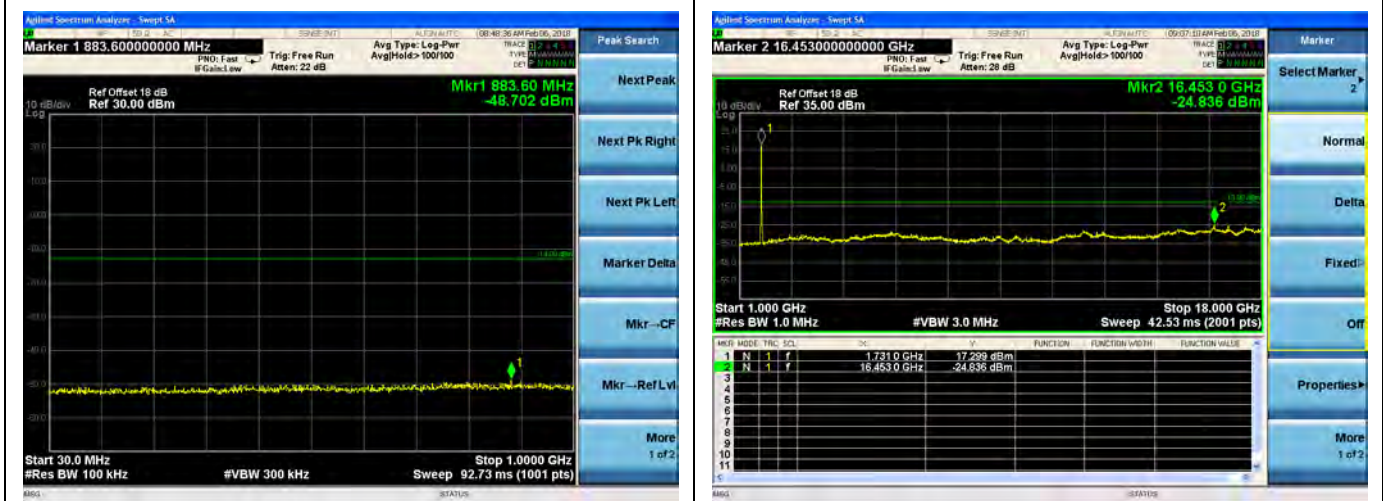


LTE Band 4 15MHz BW Mid Channel

QPSK



16QAM





LTE Band 4 15MHz BW High Channel

QPSK



16QAM





LTE Band 4 20MHz BW Low Channel

QPSK



16QAM





LTE Band 4 20MHz BW Mid Channel

QPSK



16QAM





LTE Band 4 20MHz BW High Channel

QPSK



16QAM





LTE Band 7 5MHz BW Low Channel

QPSK



16QAM



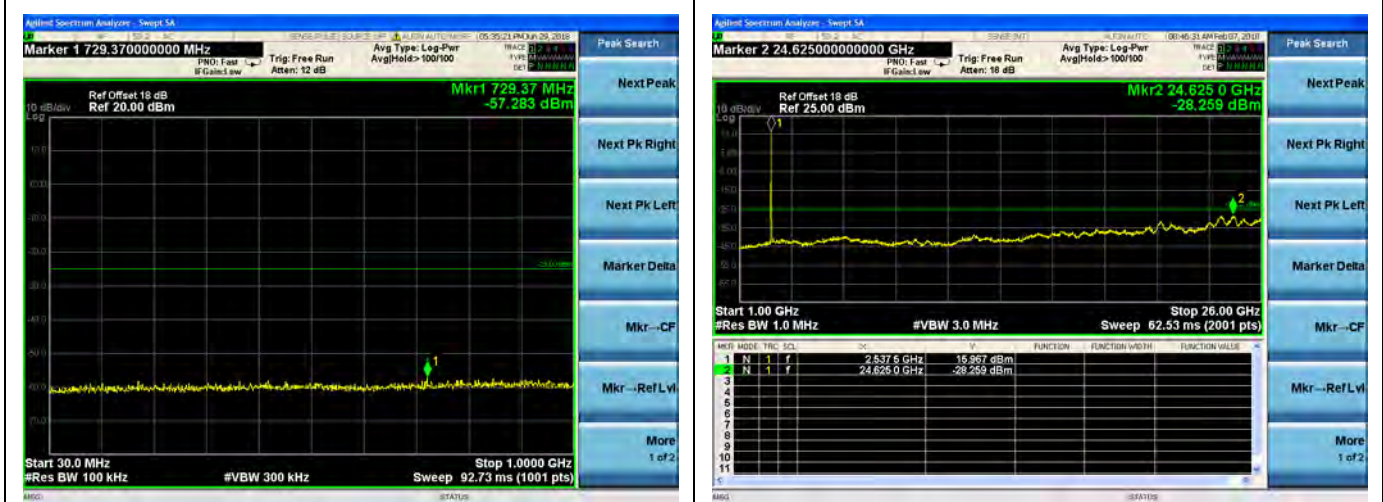


LTE Band 7 5MHz BW Mid Channel

QPSK



16QAM





LTE Band 7 5MHz BW High Channel

QPSK



16QAM



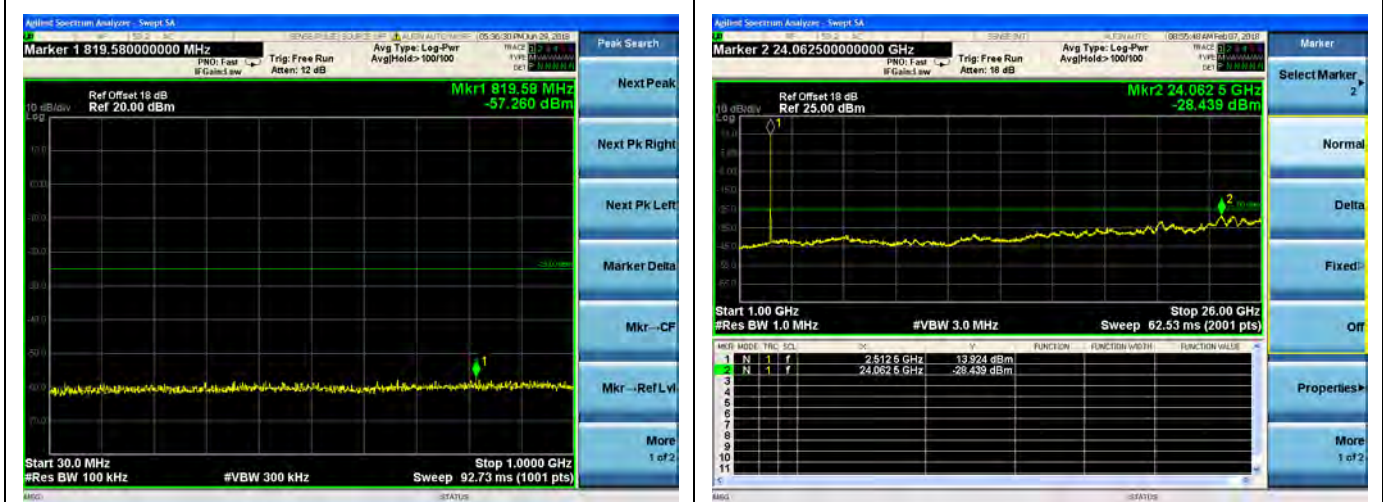


LTE Band 7 10MHz BW Low Channel

QPSK



16QAM





LTE Band 7 10MHz BW Mid Channel

QPSK



16QAM





LTE Band 7 10MHz BW High Channel

QPSK



16QAM





LTE Band 7 15MHz BW Low Channel

QPSK



16QAM



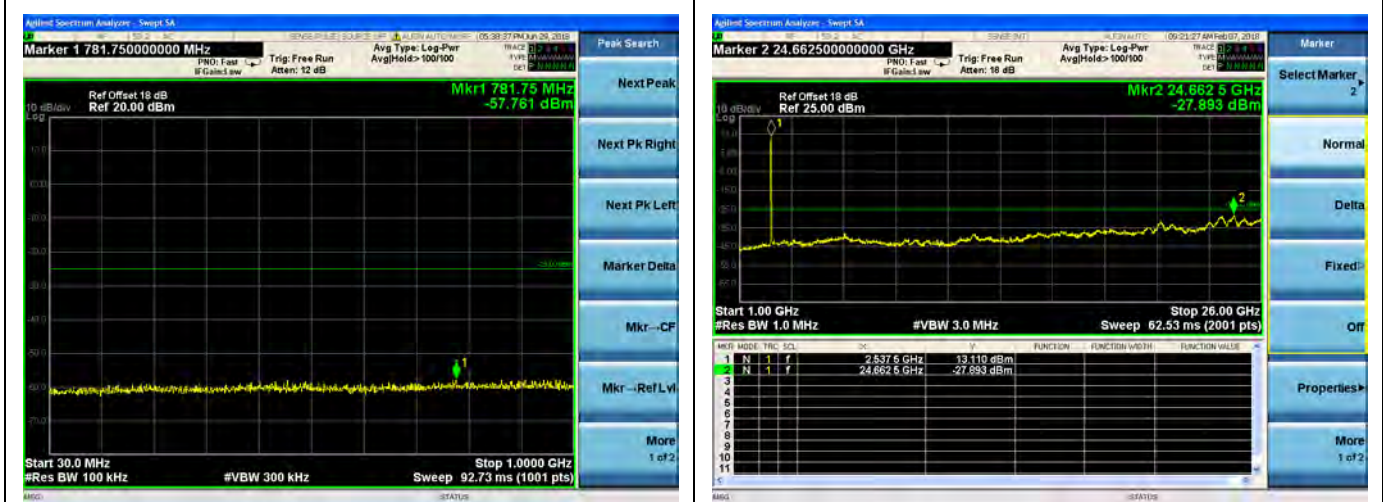


LTE Band 7 15MHz BW Mid Channel

QPSK



16QAM





LTE Band 7 15MHz BW High Channel

QPSK



16QAM





LTE Band 7 20MHz BW Low Channel

QPSK



16QAM





LTE Band 7 20MHz BW Mid Channel

QPSK



16QAM



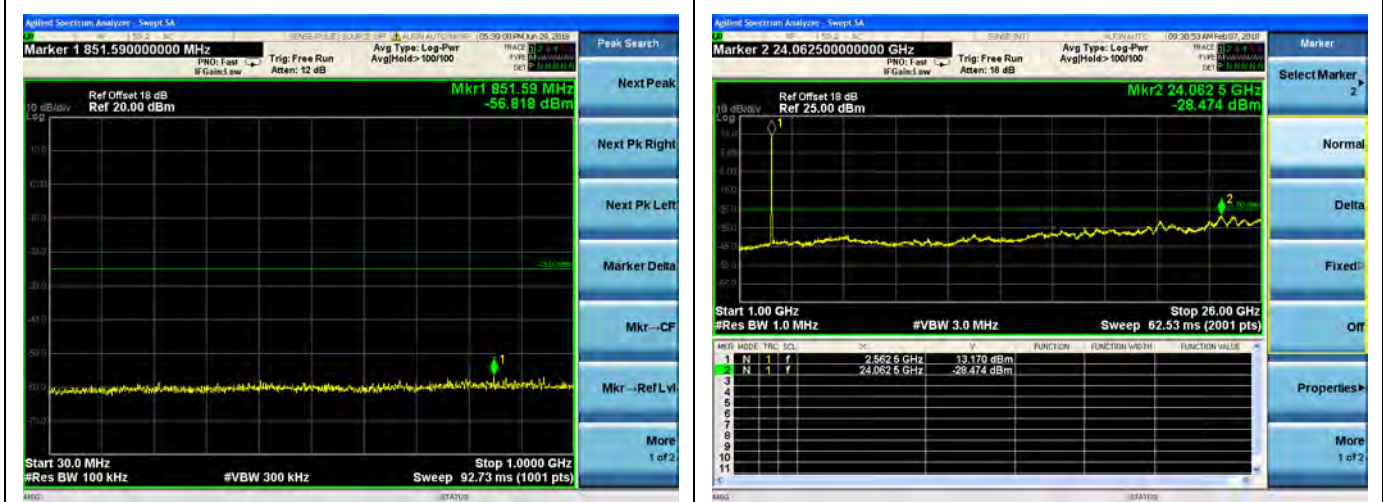


LTE Band 7 20MHz BW High Channel

QPSK



16QAM



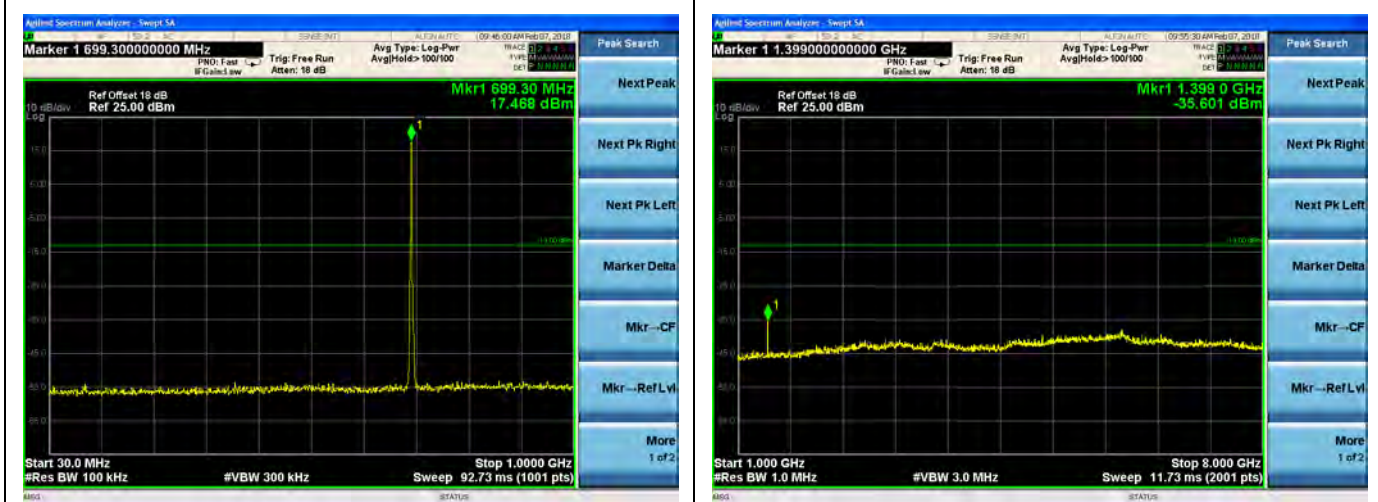


LTE Band 12 1.4MHz BW Low Channel

QPSK



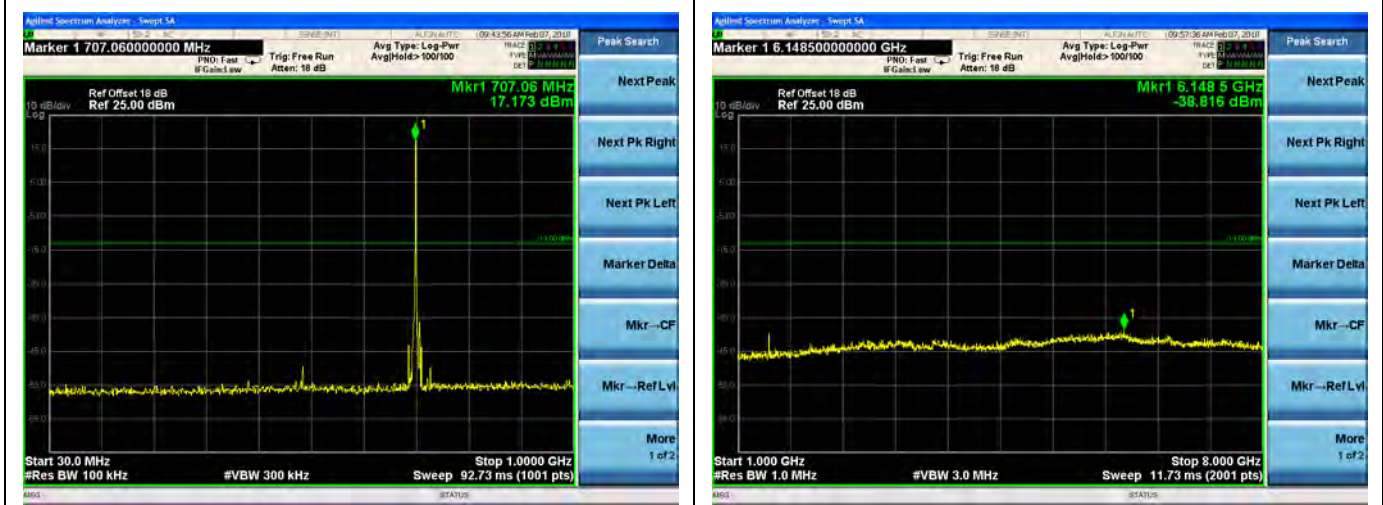
16QAM



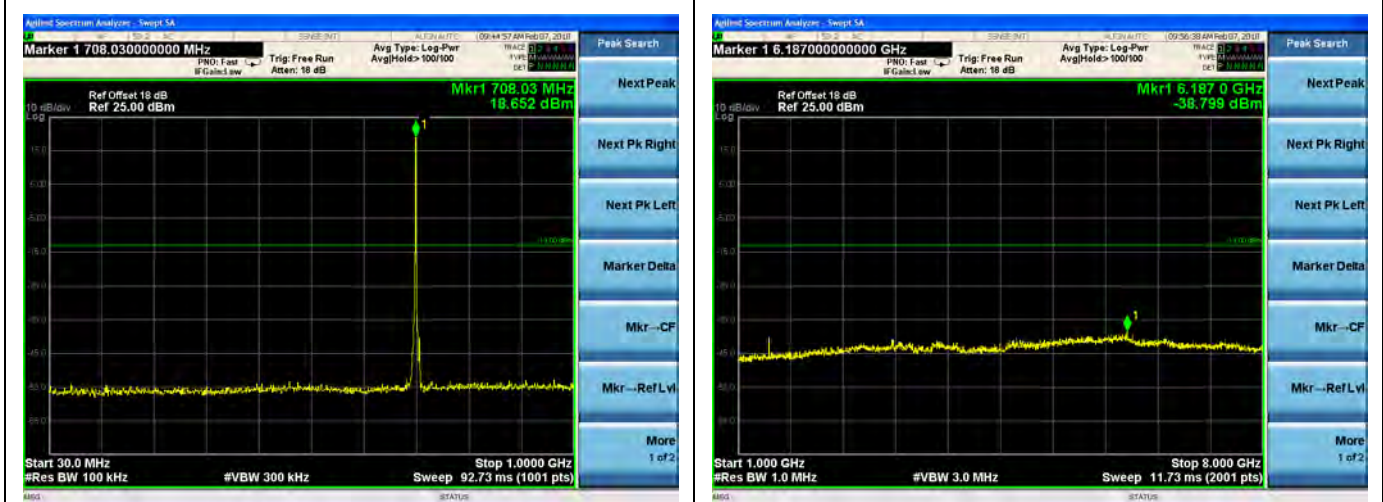


LTE Band 12 1.4MHz BW Mid Channel

QPSK



16QAM

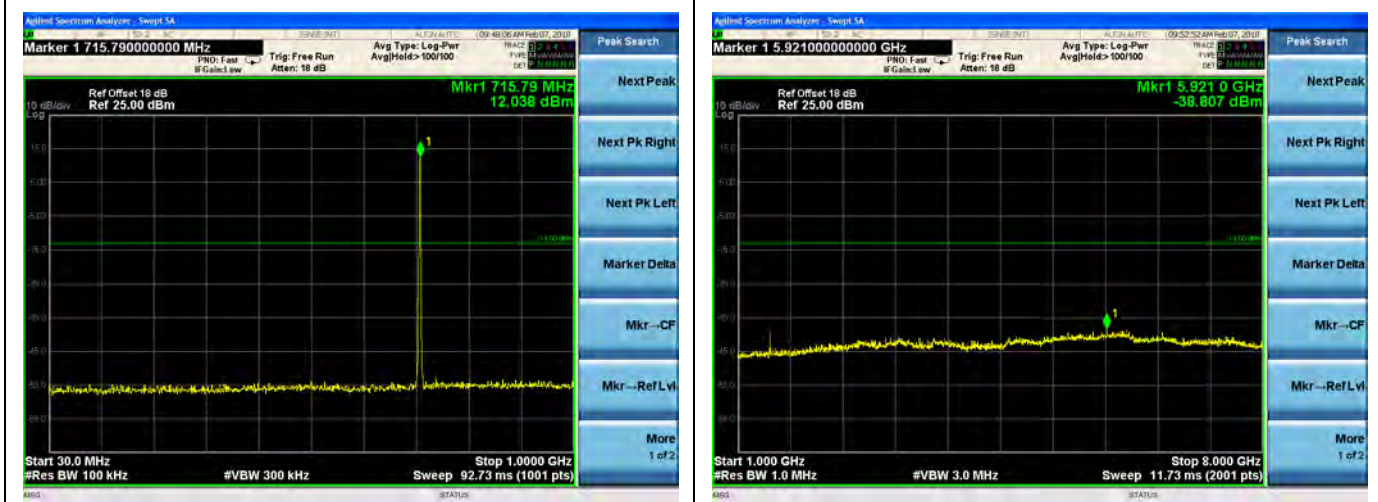




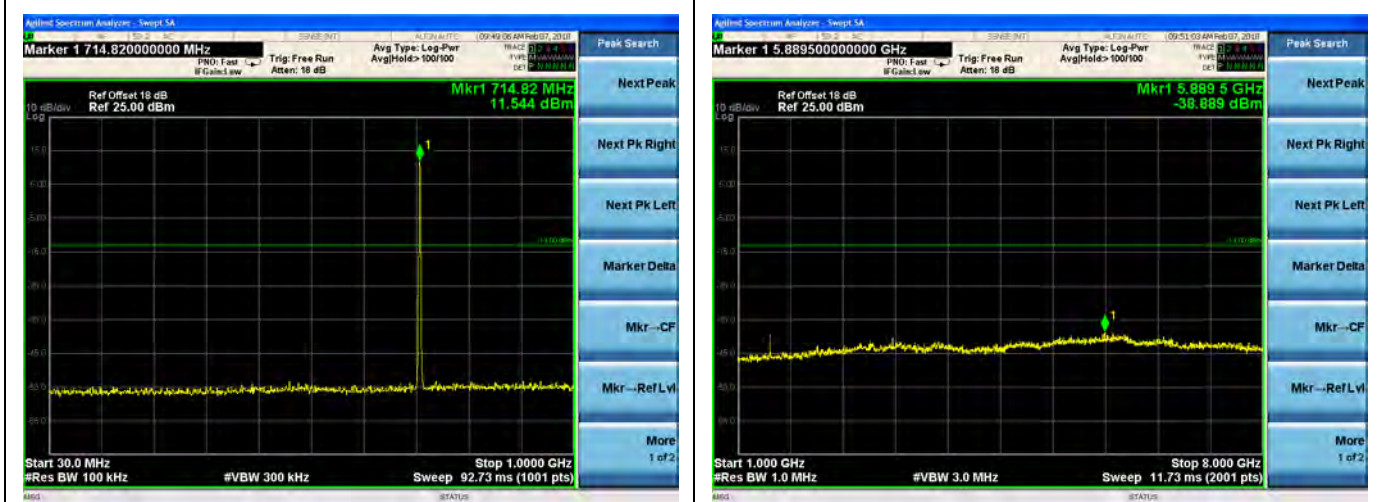
REPORT No.: SZ18050200W08

LTE Band 12 1.4MHz BW High Channel

QPSK



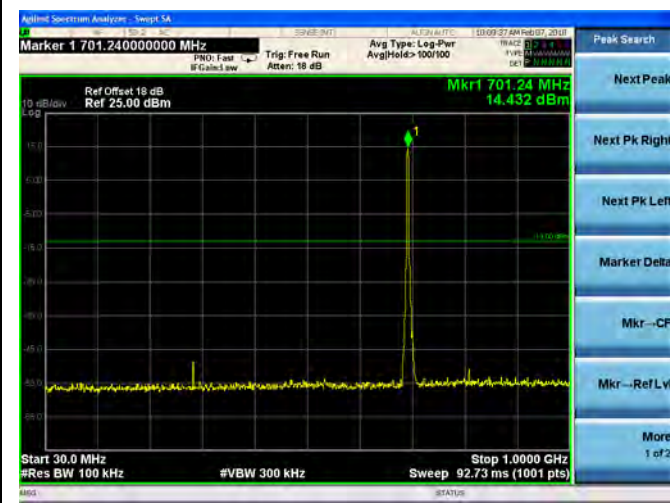
16QAM



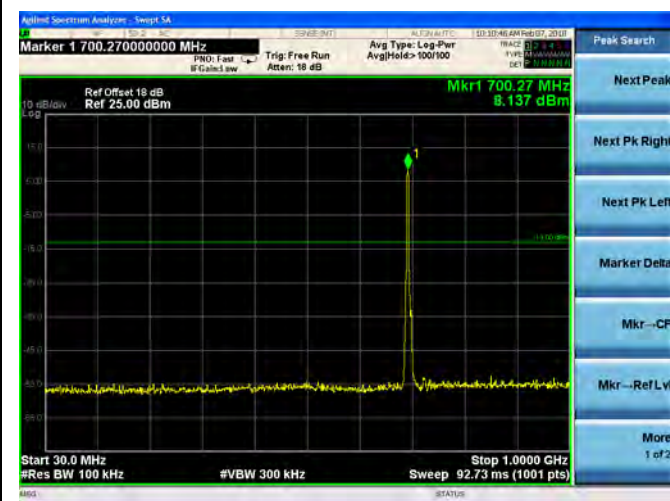


LTE Band 12 3MHz BW Low Channel

QPSK



16QAM

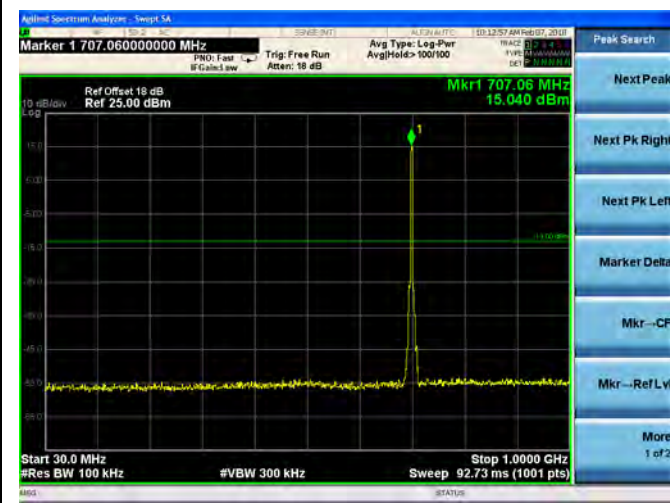




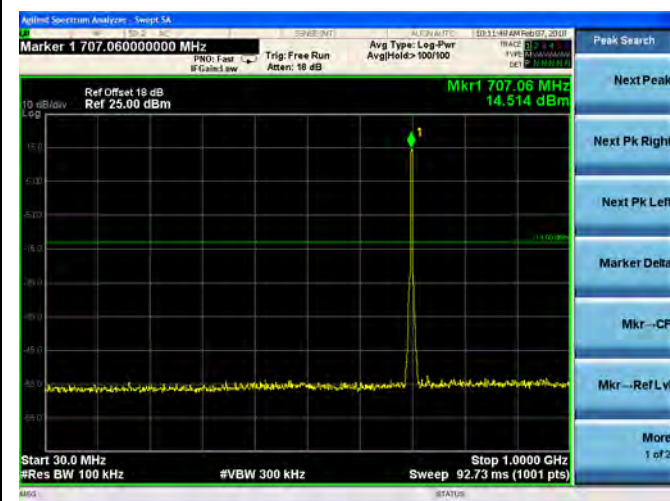
REPORT No.: SZ18050200W08

LTE Band 12 3MHz BW Mid Channel

QPSK



16QAM



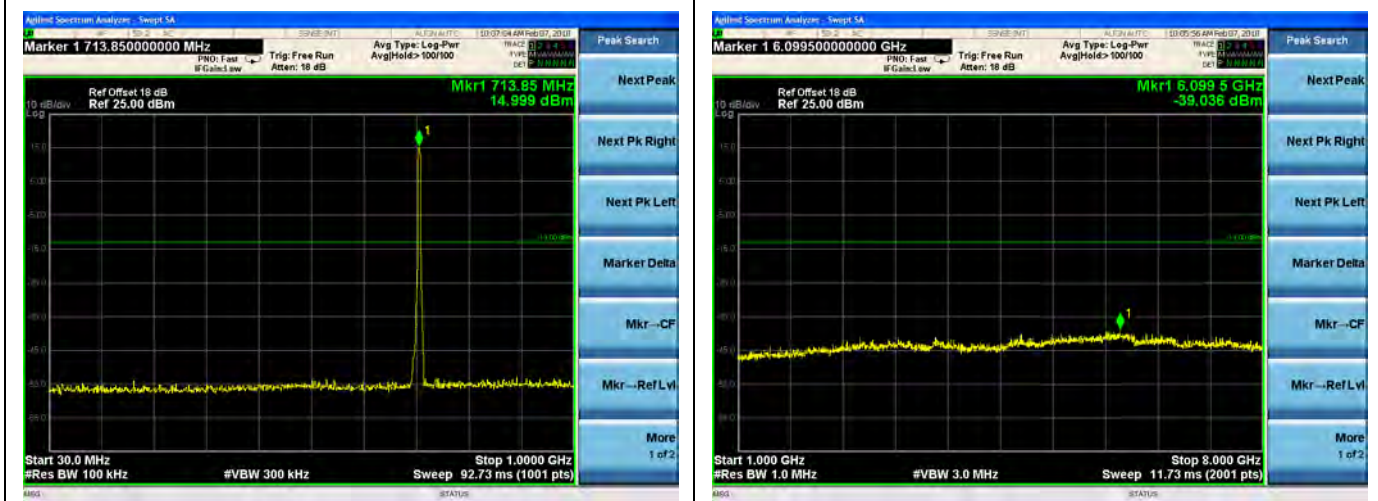


LTE Band 12 3MHz BW High Channel

QPSK



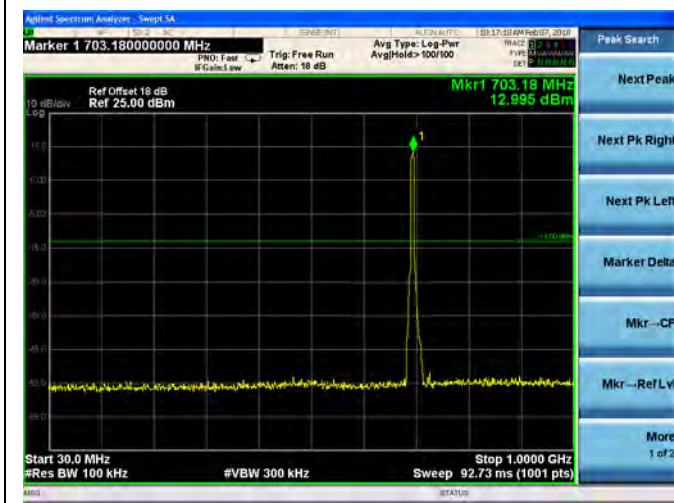
16QAM



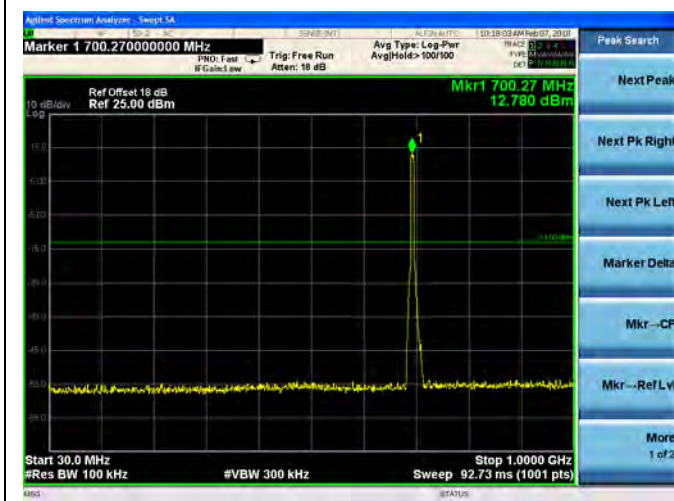


LTE Band 12 5MHz BW Low Channel

QPSK



16QAM



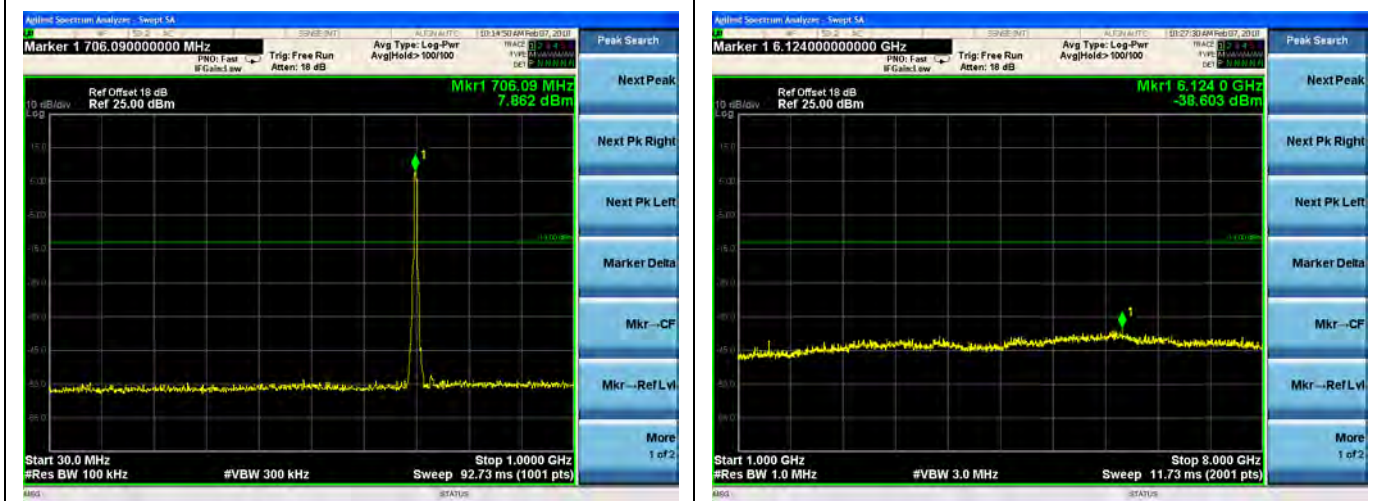


LTE Band 12 5MHz BW Mid Channel

QPSK



16QAM

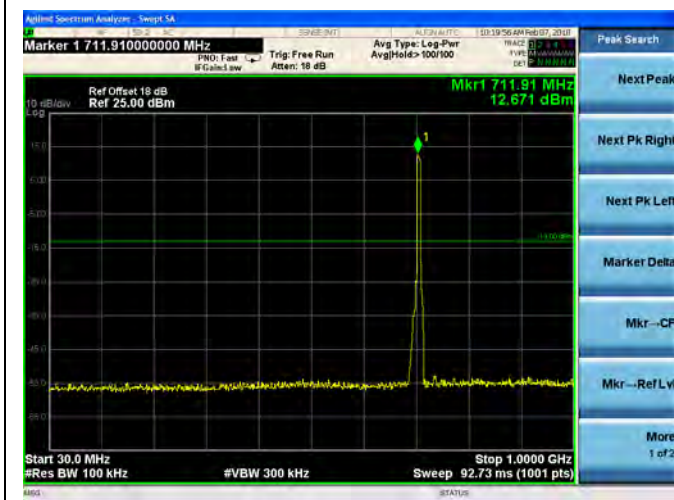




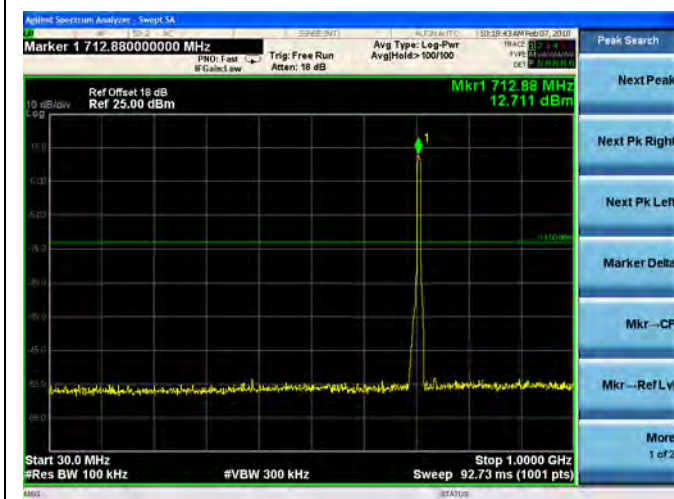
REPORT No.: SZ18050200W08

LTE Band 12 5MHz BW High Channel

QPSK



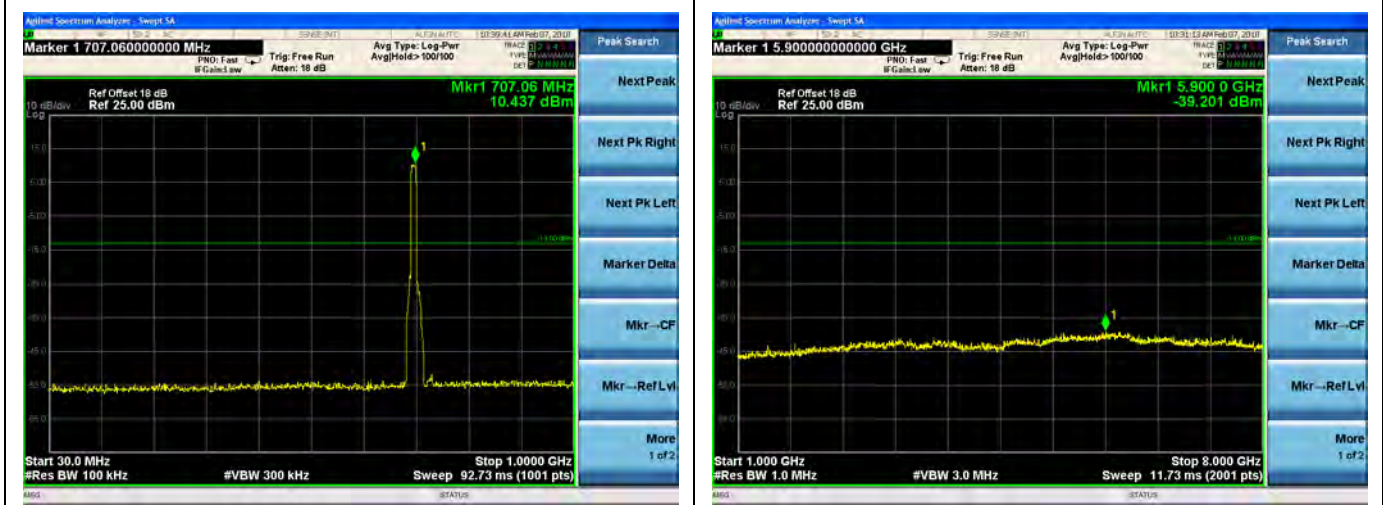
16QAM



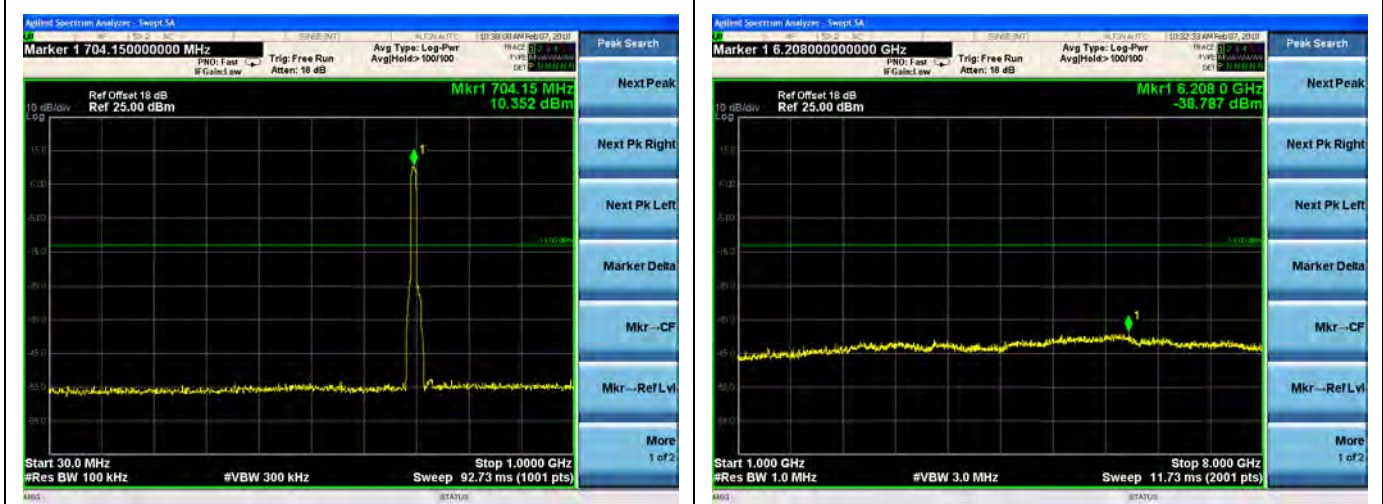


LTE Band 12 10MHz BW Low Channel

QPSK



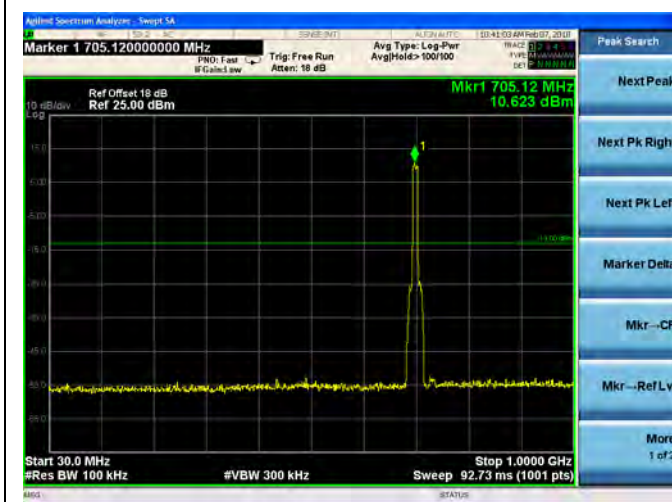
16QAM



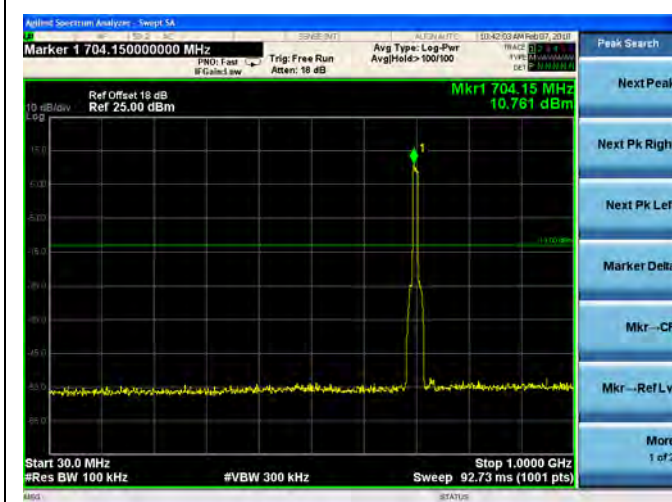


LTE Band 12 10MHz BW Mid Channel

QPSK



16QAM

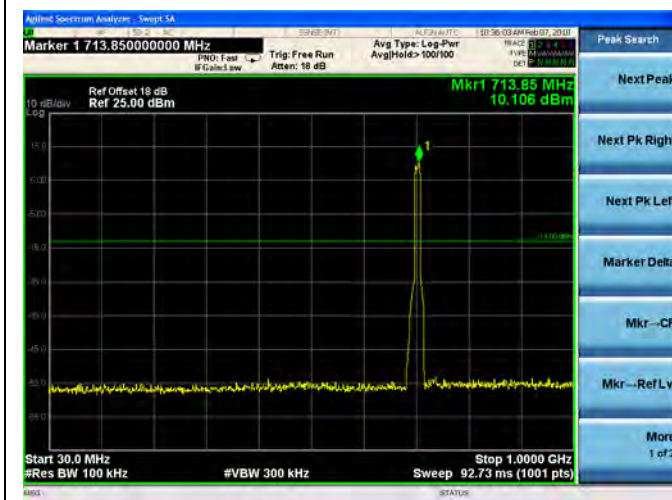




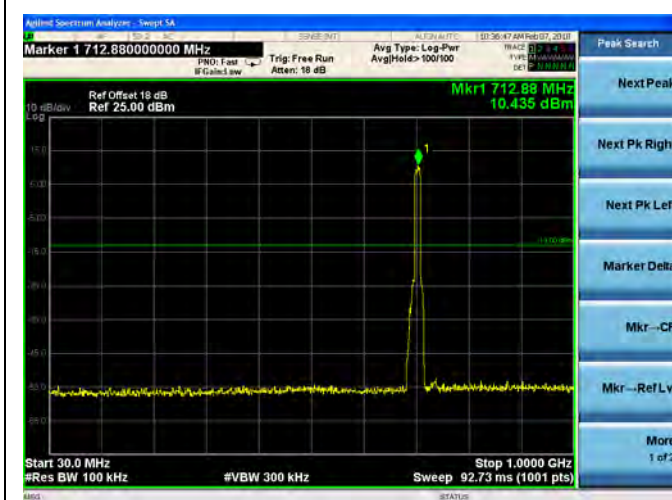
REPORT No.: SZ18050200W08

LTE Band 12 10MHz BW High Channel

QPSK



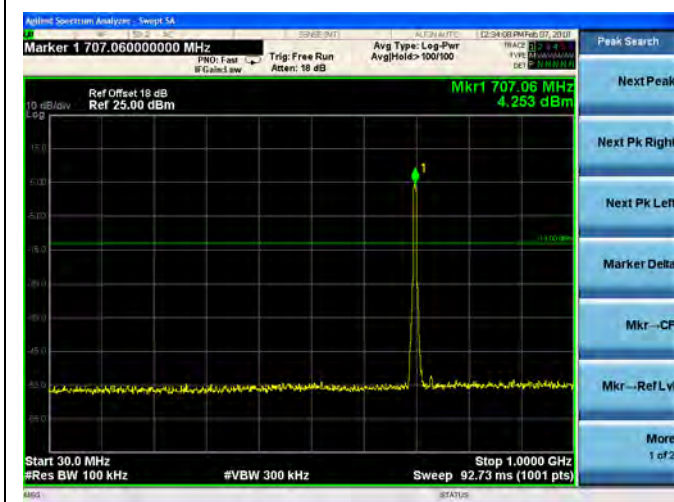
16QAM



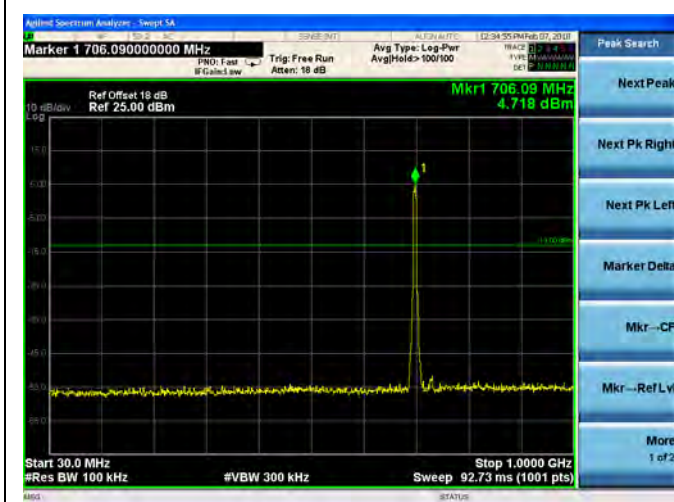


LTE Band 17 5MHz BW Low Channel

QPSK



16QAM

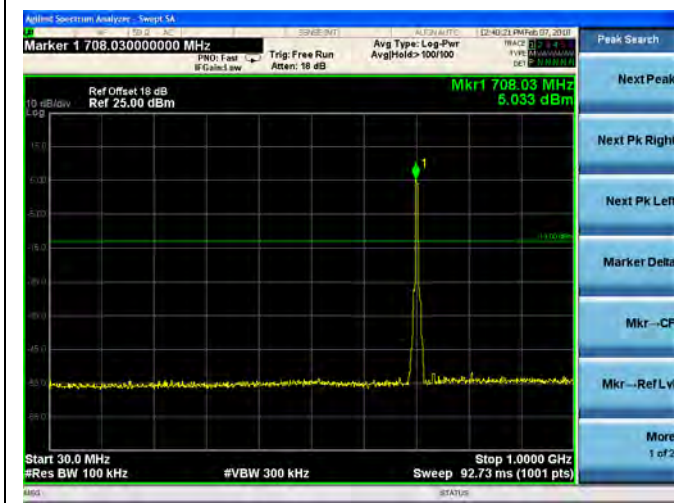




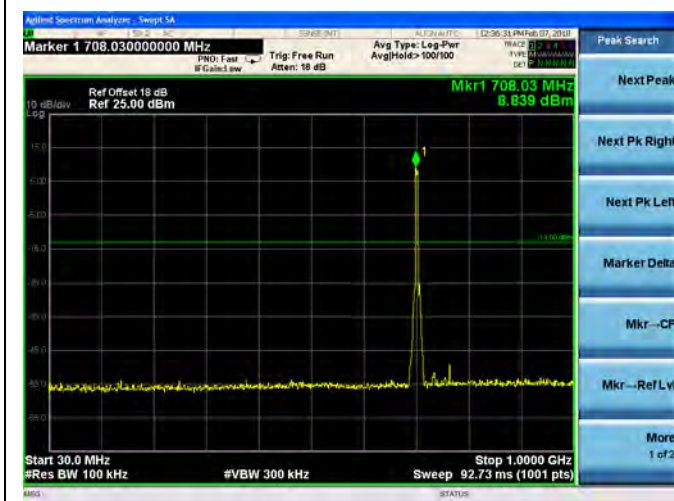
REPORT No.: SZ18050200W08

LTE Band 17 5MHz BW Mid Channel

QPSK



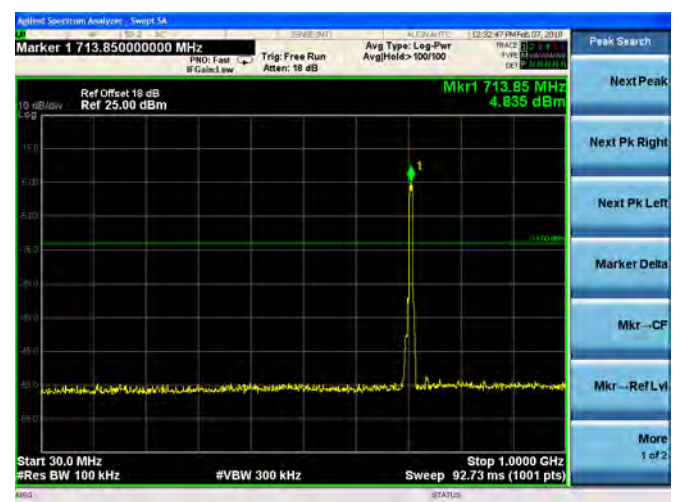
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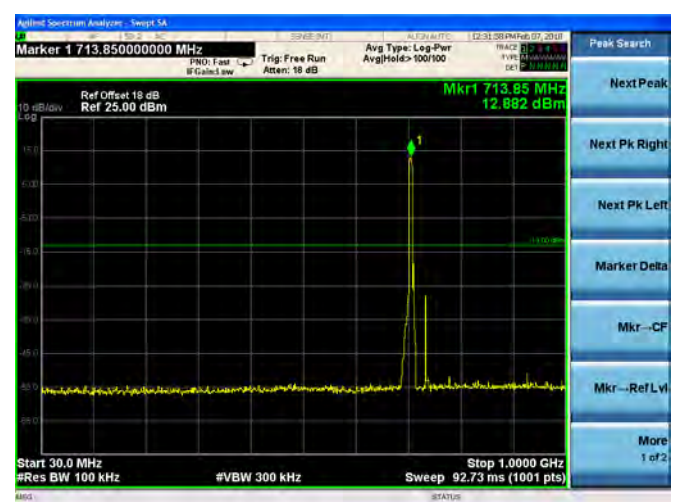


LTE Band 17 5MHz BW High Channel

QPSK



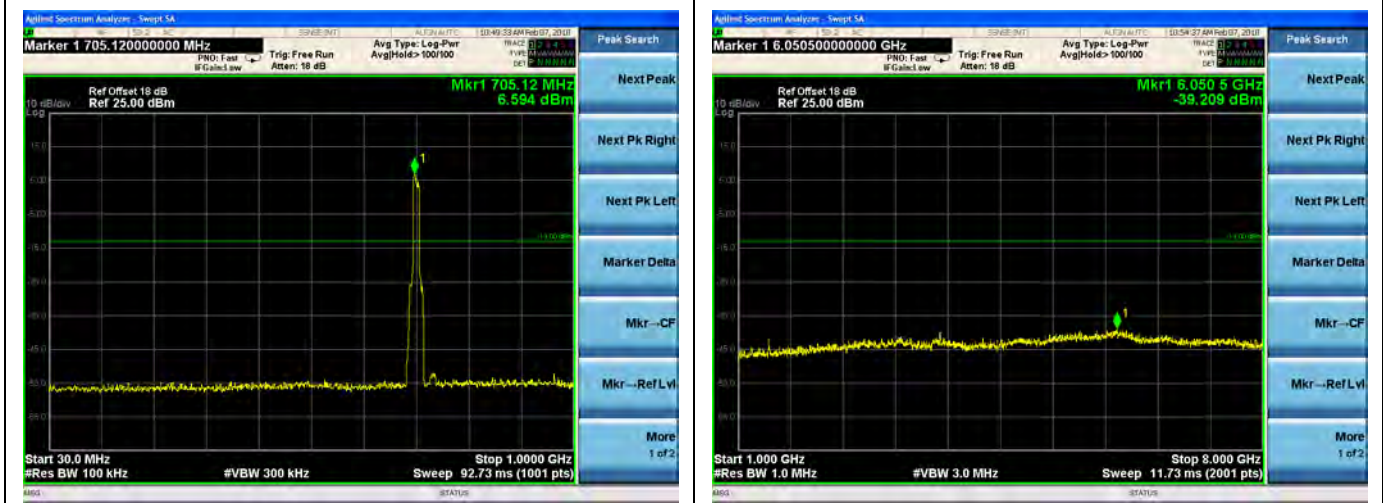
16QAM



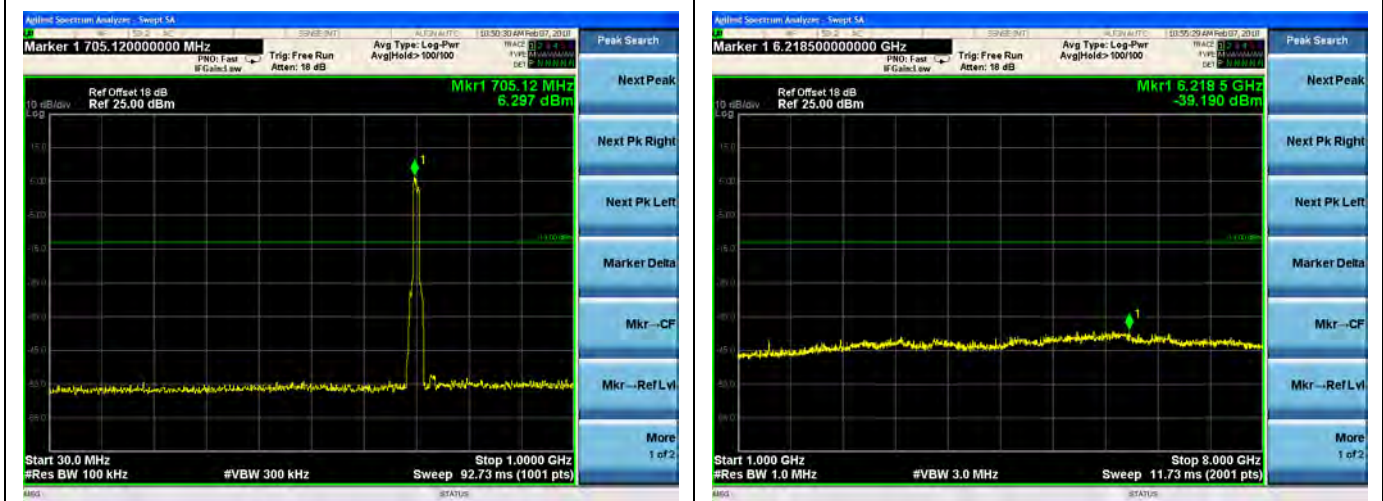


LTE Band 17 10MHz BW Low Channel

QPSK



16QAM

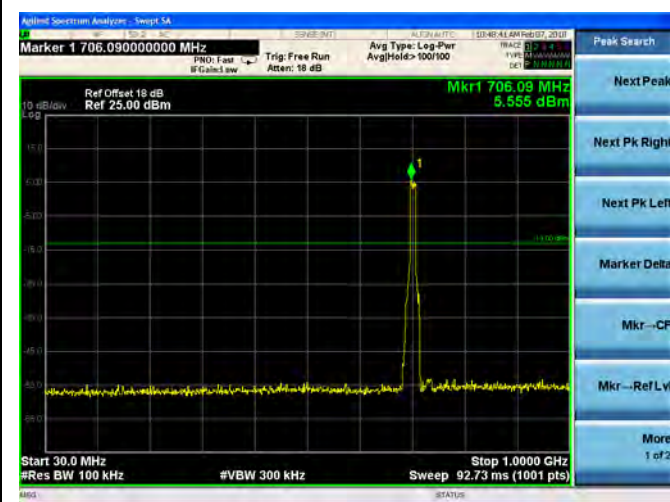




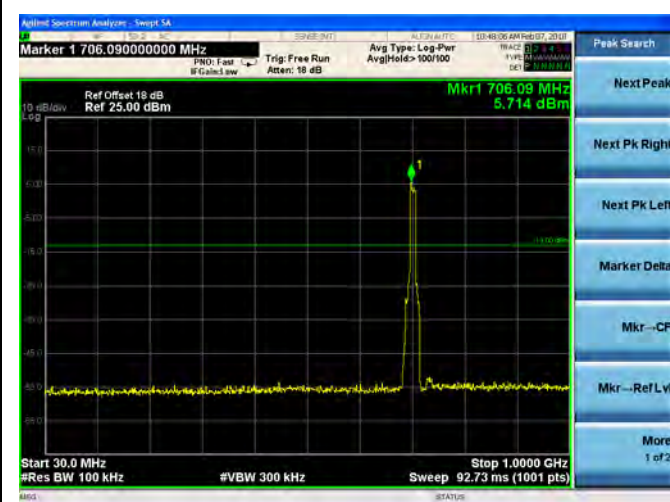
REPORT No.: SZ18050200W08

LTE Band 17 10MHz BW Mid Channel

QPSK



16QAM





LTE Band 17 10MHz BW High Channel

QPSK



16QAM





2.6. Band Edge

2.6.1. Requirement

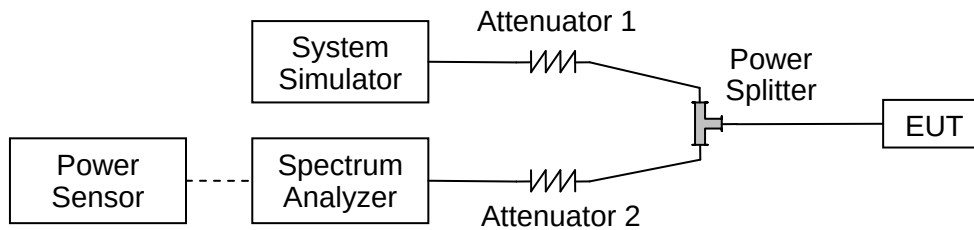
According to FCC section 24.238(a), The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC section 27.53(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 1710–1755 MHz 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), 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.

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

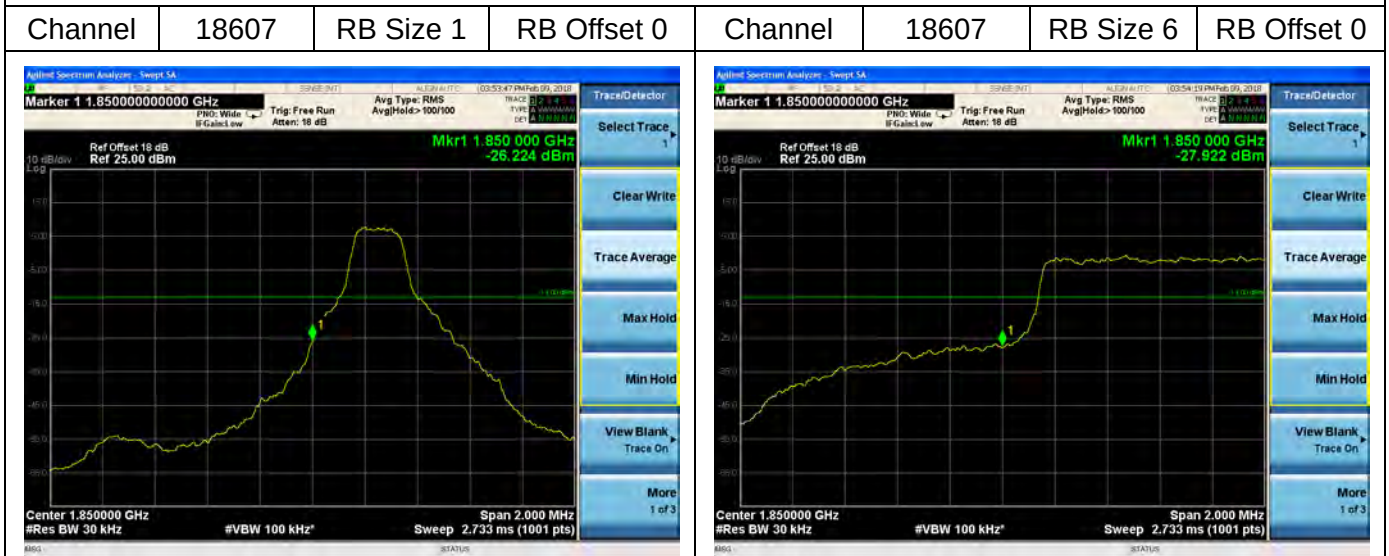
2.6.4. Test Result

The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.

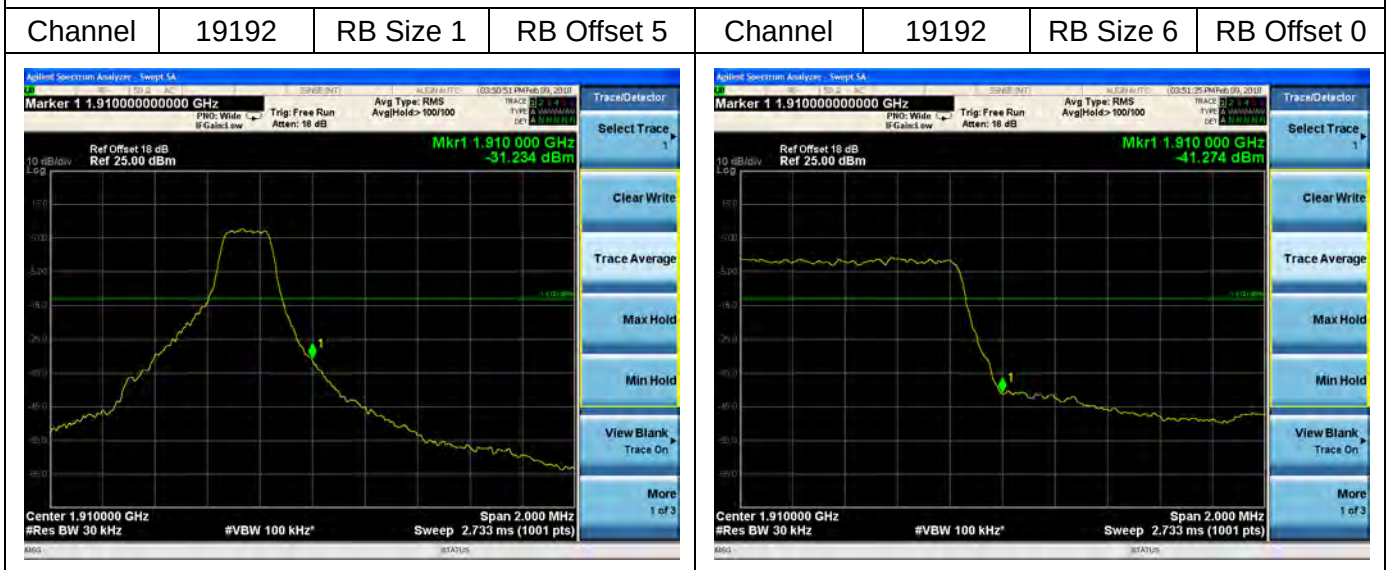


LTE Band 2

Channel Bandwidth: 1.4MHz



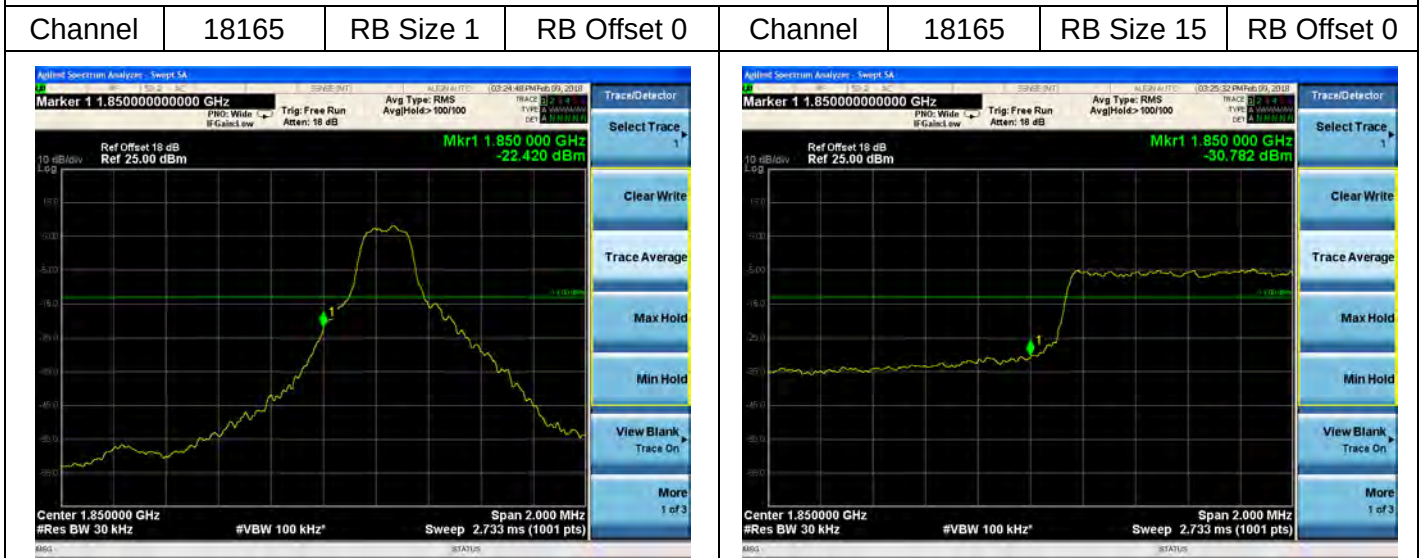
Channel Bandwidth: 1.4MHz



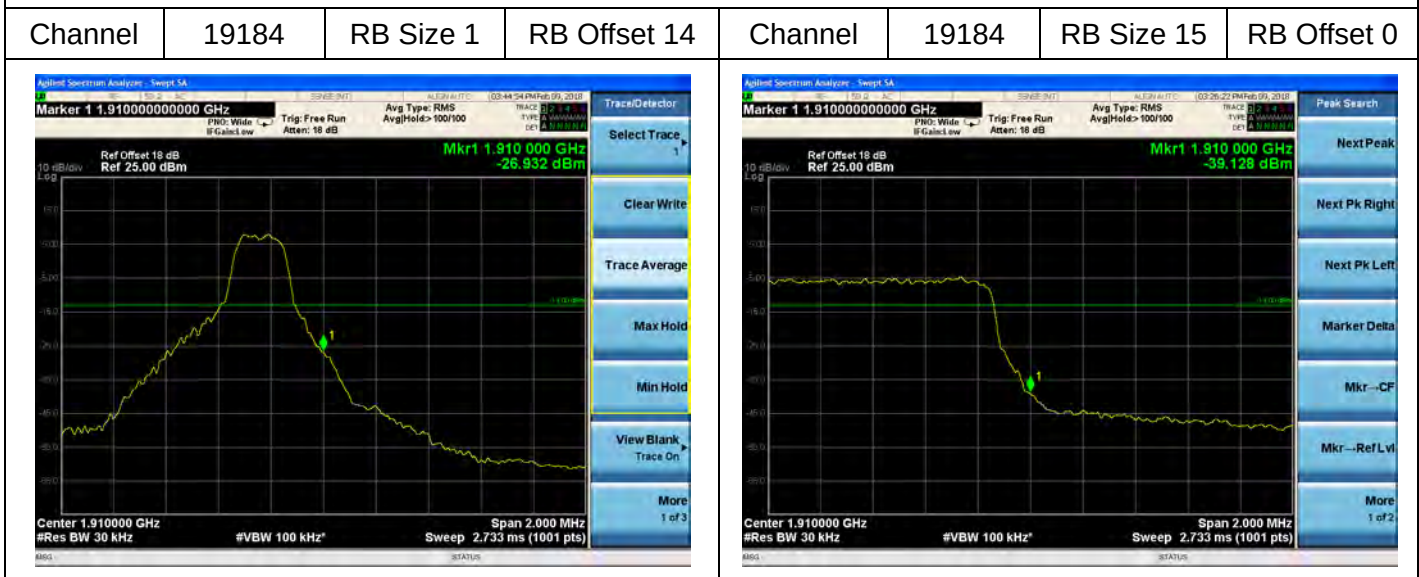


LTE Band 2

Channel Bandwidth: 3MHz



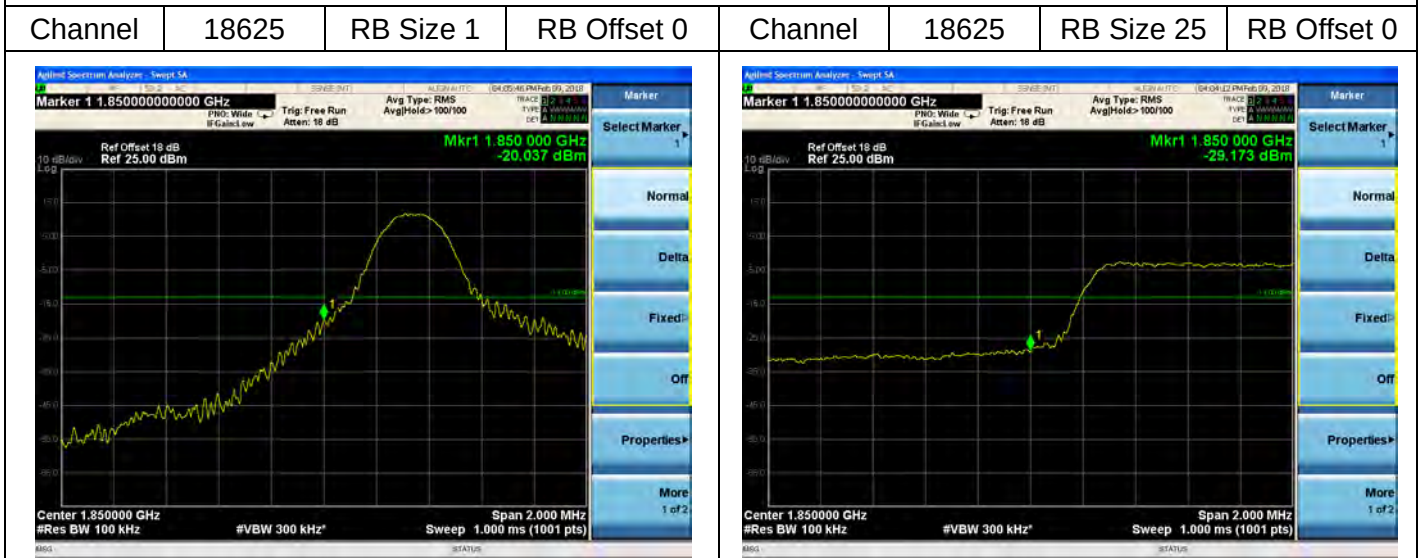
Channel Bandwidth: 3MHz



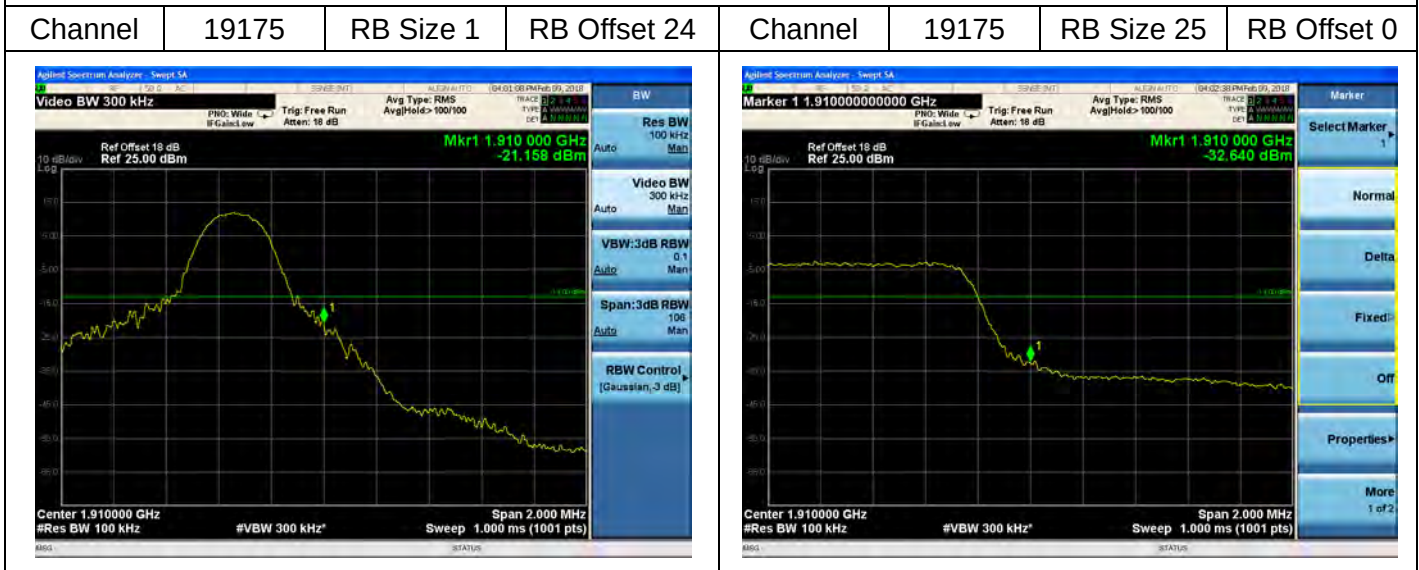


LTE Band 2

Channel Bandwidth: 5MHz



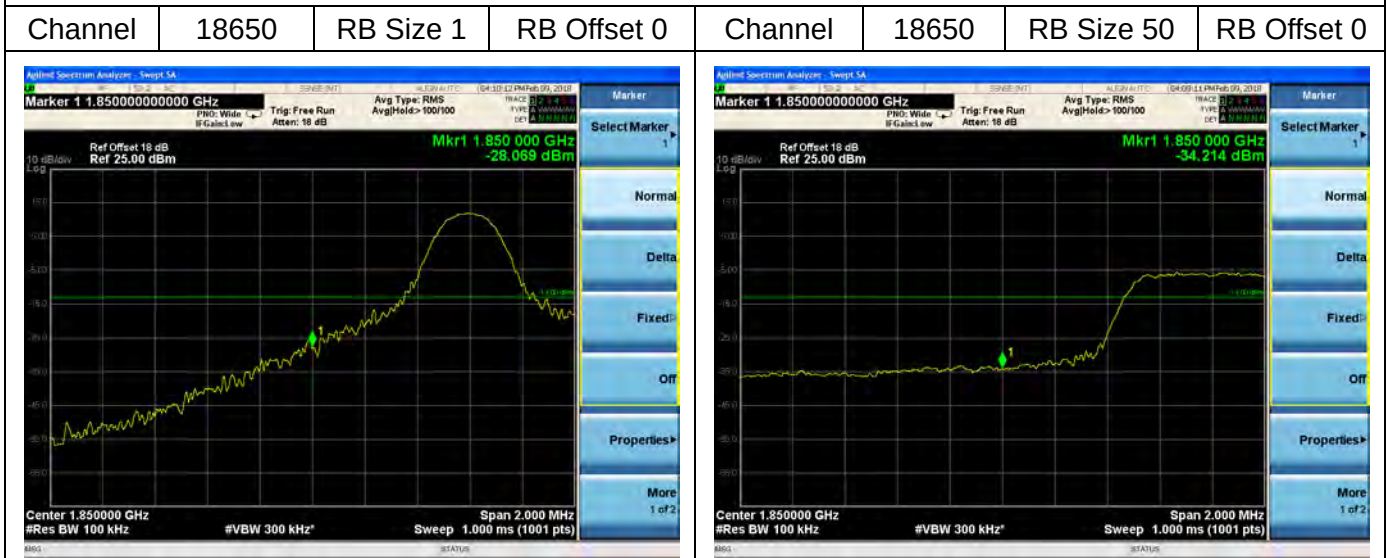
Channel Bandwidth: 5MHz



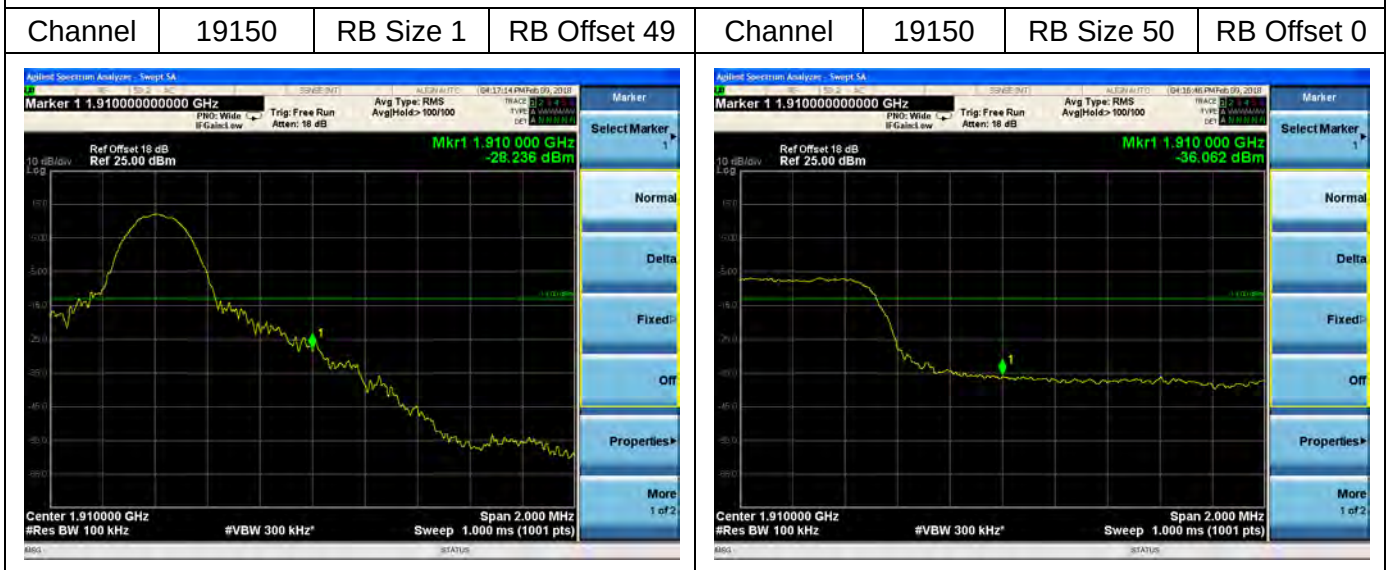


LTE Band 2

Channel Bandwidth: 10MHz



Channel Bandwidth: 10MHz





LTE Band 2

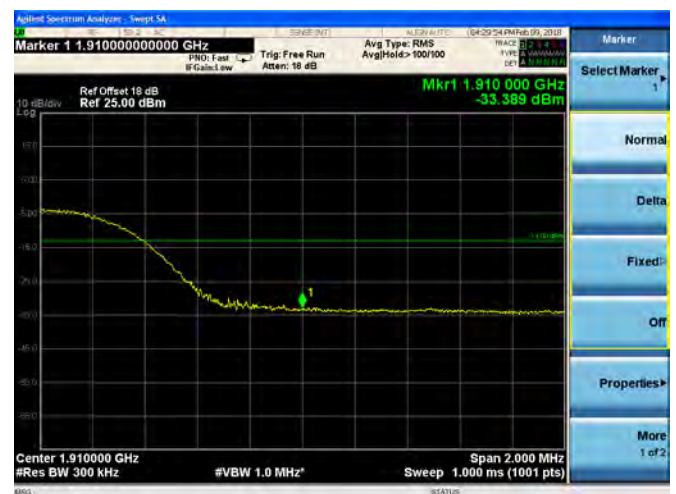
Channel Bandwidth: 15MHz

Channel	18675	RB Size 1	RB Offset 0	Channel	18675	RB Size 75	RB Offset 0
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Channel Bandwidth: 15MHz

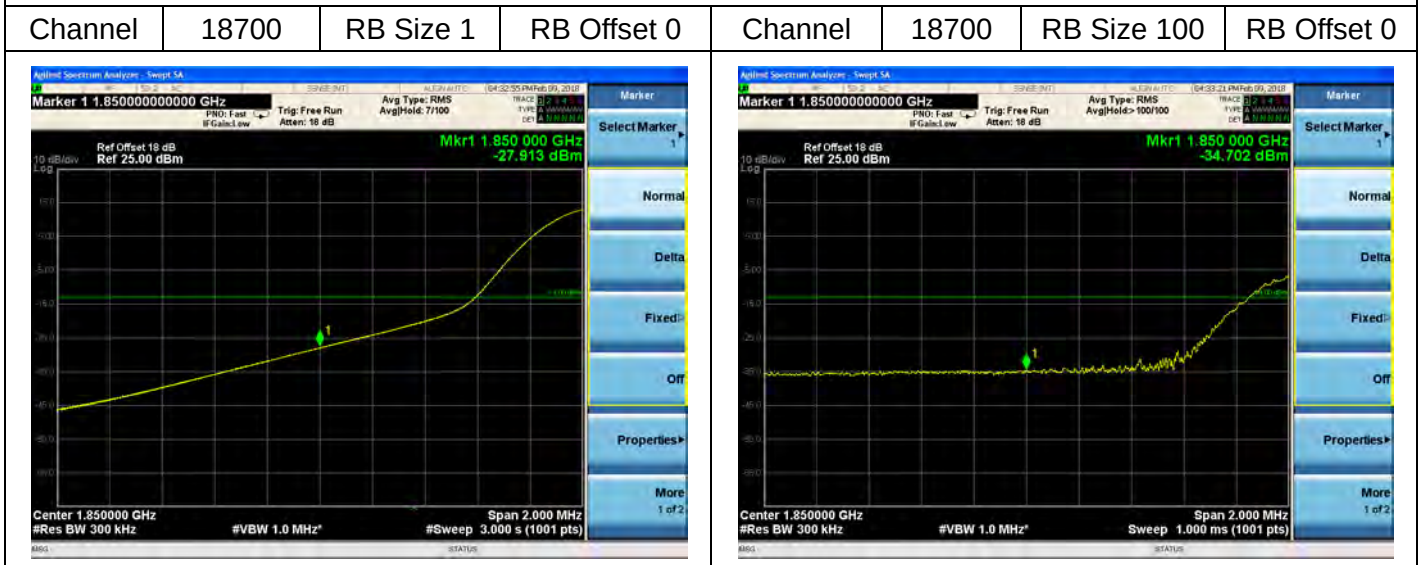
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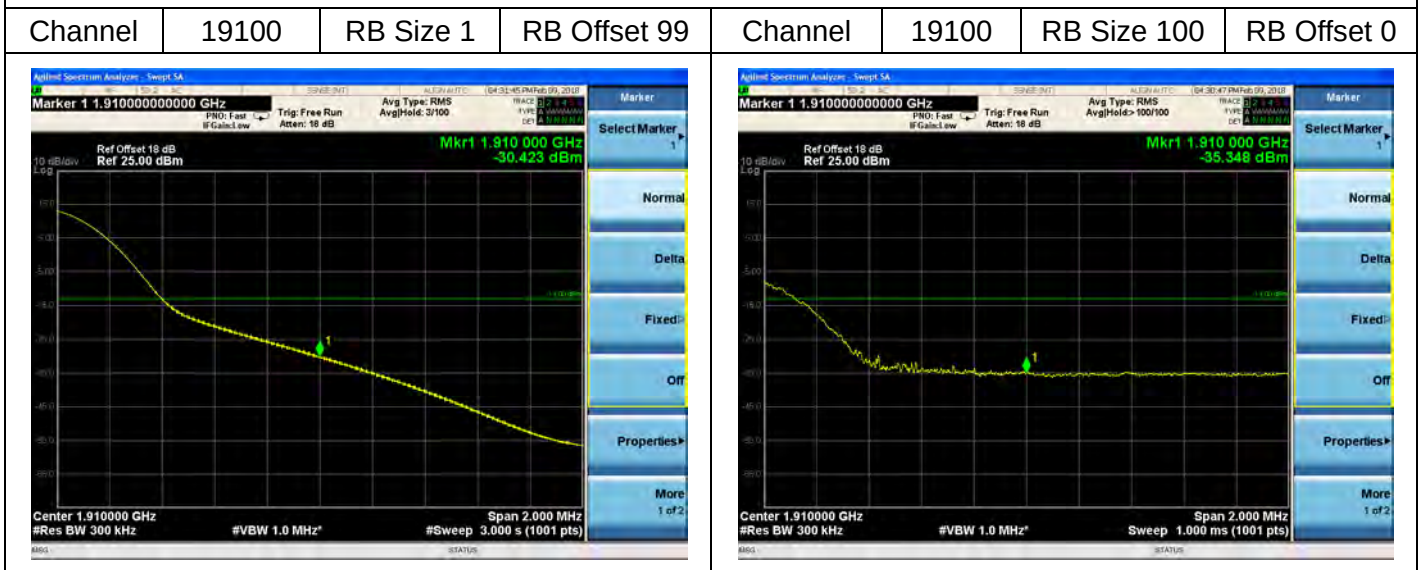


LTE Band 2

Channel Bandwidth: 20MHz



Channel Bandwidth: 20MHz

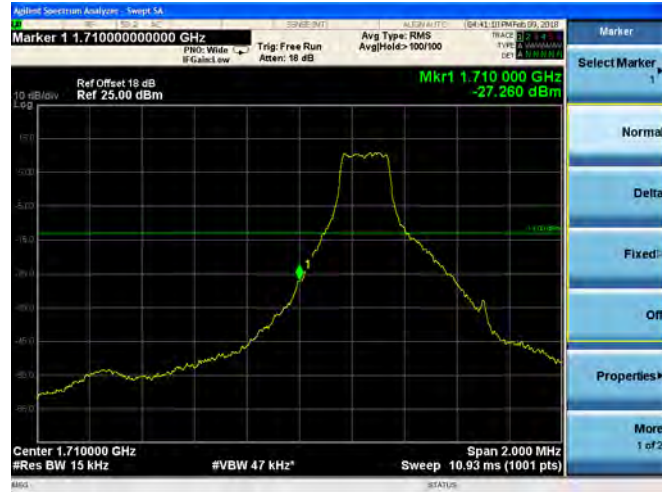




LTE Band 4

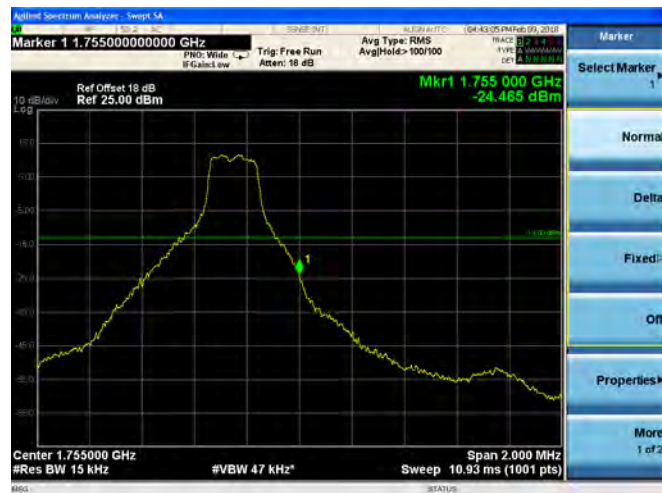
Channel Bandwidth: 1.4MHz

Channel	19957	RB Size 1	RB Offset 0	Channel	20393	RB Size 6	RB Offset 0
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Channel Bandwidth: 1.4MHz

Channel	19957	RB Size 1	RB Offset 5	Channel	20393	RB Size 6	RB Offset 0
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LTE Band 4

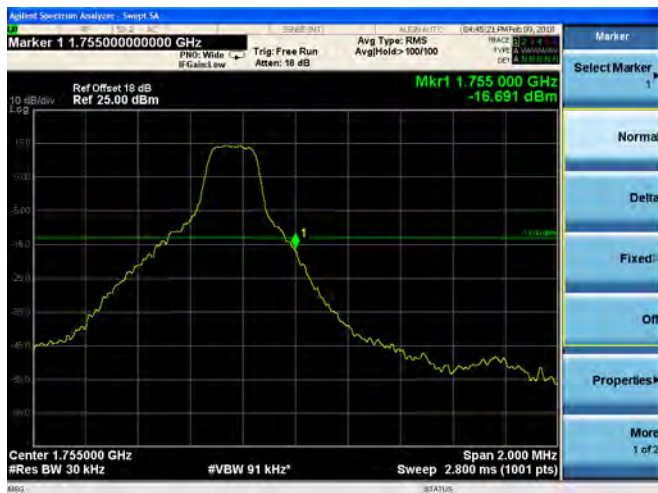
Channel Bandwidth: 3MHz

Channel	19965	RB Size 1	RB Offset 0	Channel	20385	RB Size 15	RB Offset 0
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Channel Bandwidth: 3MHz

Channel	19965	RB Size 1	RB Offset 14	Channel	20385	RB Size 15	RB Offset 0
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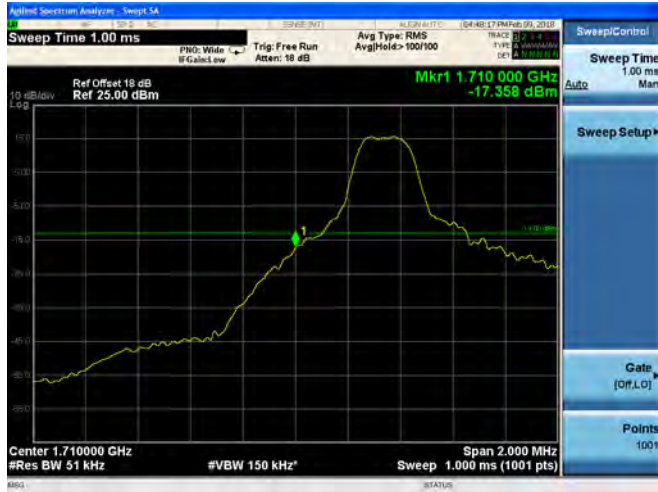




LTE Band 4

Channel Bandwidth: 5MHz

Channel	19975	RB Size 1	RB Offset 0	Channel	20375	RB Size 25	RB Offset 0
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Channel Bandwidth: 5MHz

Channel	19975	RB Size 1	RB Offset 24	Channel	20375	RB Size 25	RB Offset 0
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LTE Band 4

Channel Bandwidth: 10MHz

Channel	20000	RB Size 1	RB Offset 0	Channel	20350	RB Size 50	RB Offset 0
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Channel Bandwidth: 10MHz

Channel	20000	RB Size 1	RB Offset 49	Channel	20350	RB Size 50	RB Offset 0
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LTE Band 4

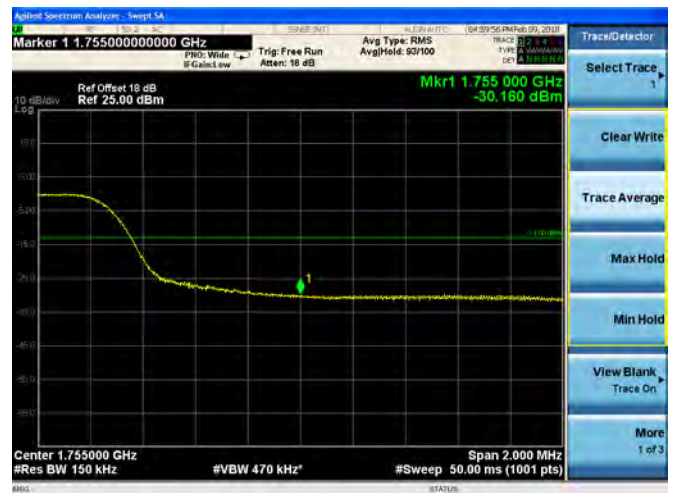
Channel Bandwidth: 15MHz

Channel	20025	RB Size 1	RB Offset 0	Channel	20325	RB Size 75	RB Offset 0
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Channel Bandwidth: 15MHz

Channel	20025	RB Size 1	RB Offset 74	Channel	20325	RB Size 75	RB Offset 0
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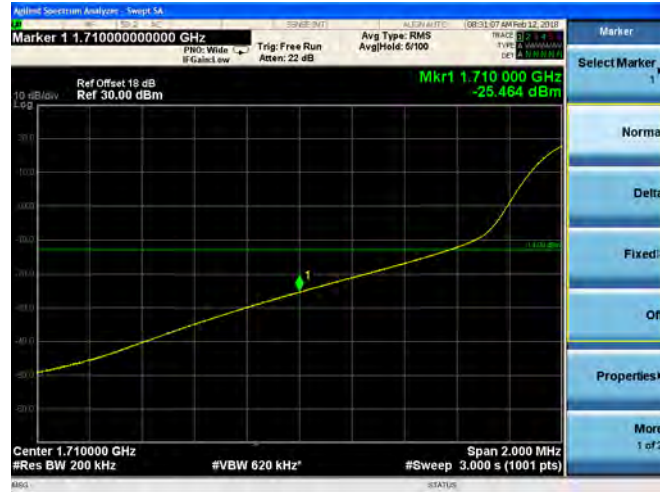




LTE Band 4

Channel Bandwidth: 20MHz

Channel	20050	RB Size 1	RB Offset 0	Channel	20300	RB Size 100	RB Offset 0
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Channel Bandwidth: 20MHz

Channel	20050	RB Size 1	RB Offset 99	Channel	20300	RB Size 100	RB Offset 0
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