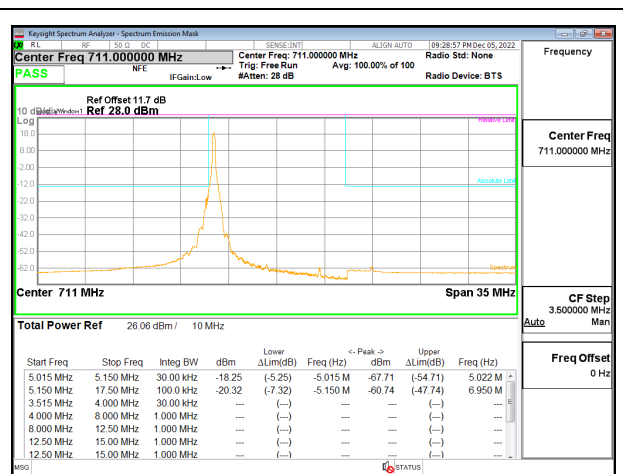
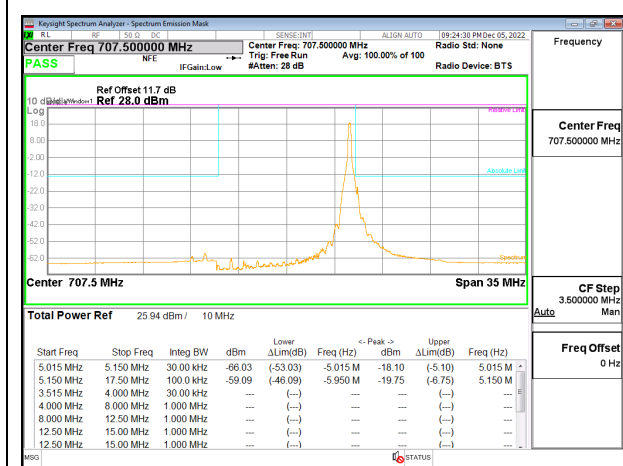


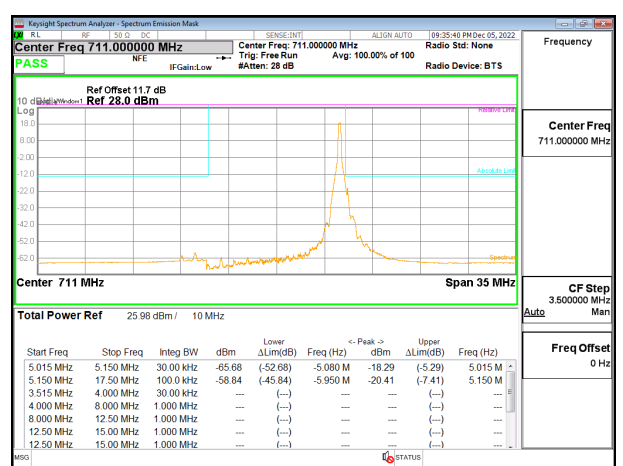
5G NR n12 10MHz BPSK Middle Channel RB1-0, ID:19146



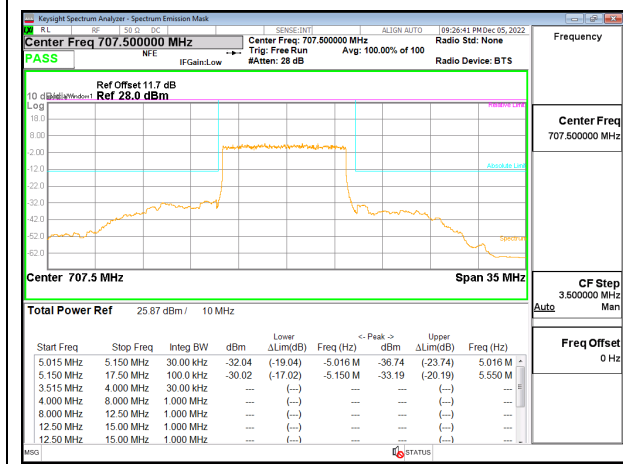
5G NR n12 10MHz BPSK High Channel RB1-0, ID:19146



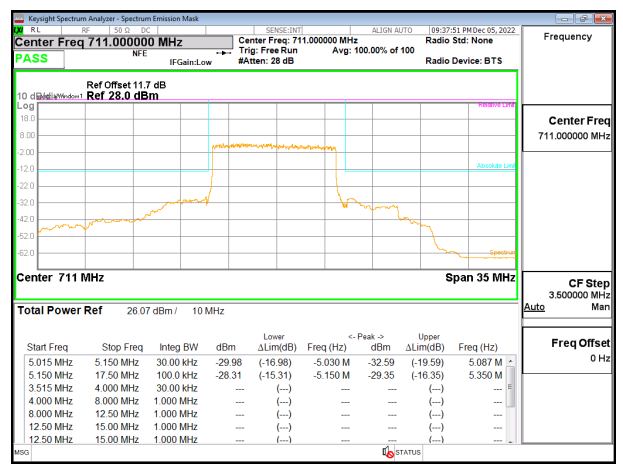
5G NR n12 10MHz BPSK Middle Channel RB1-51, ID:19146



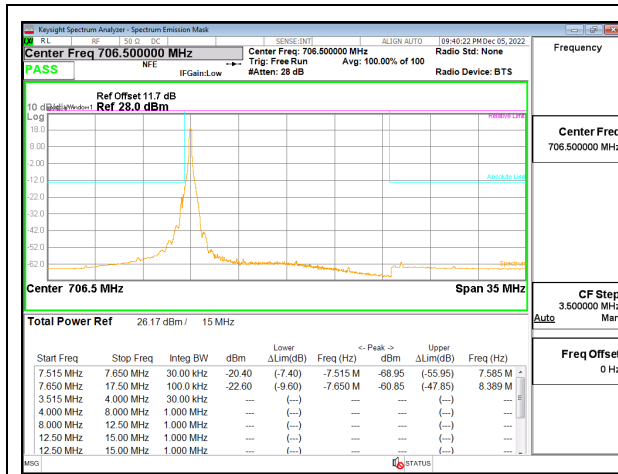
5G NR n12 10MHz BPSK High Channel RB1-51, ID:19146



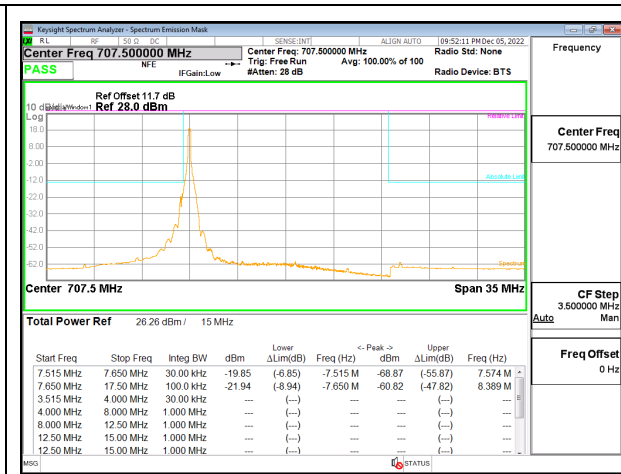
5G NR n12 10MHz BPSK Middle Channel RB50-0, ID:19146



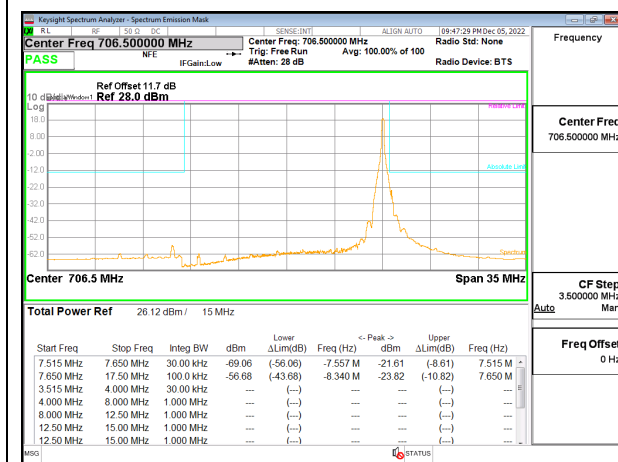
5G NR n12 10MHz BPSK High Channel RB50-0, ID:19146



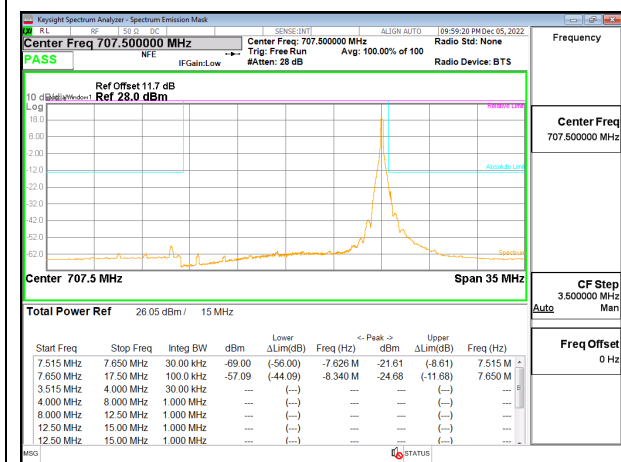
5G NR n12 15MHz BPSK Low Channel RB1-0, ID:19146



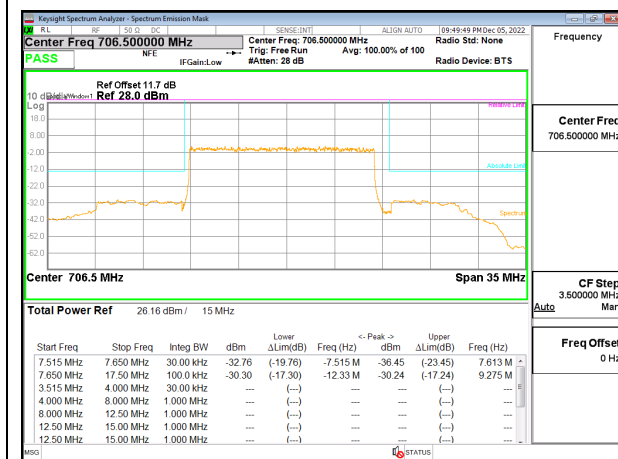
5G NR n12 15MHz BPSK Middle Channel RB1-0, ID:19146



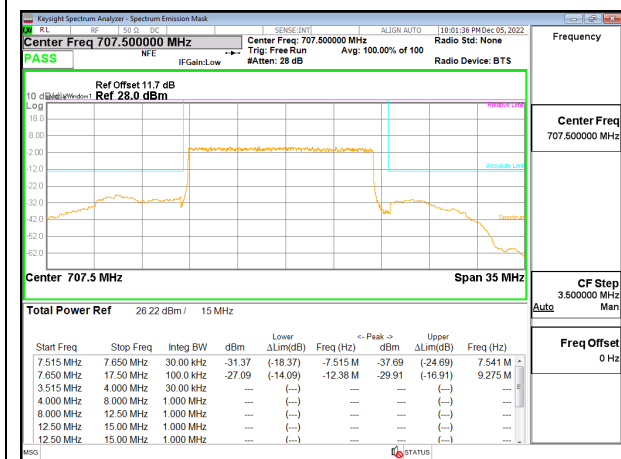
5G NR n12 15MHz BPSK Low Channel RB1-78, ID:19146



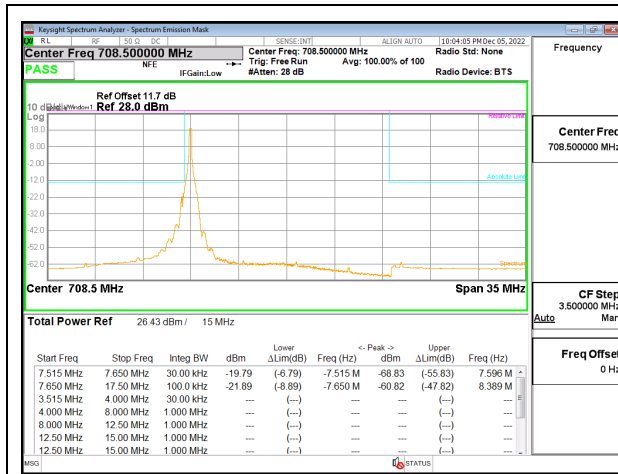
5G NR n12 15MHz BPSK Middle Channel RB1-78, ID:19146



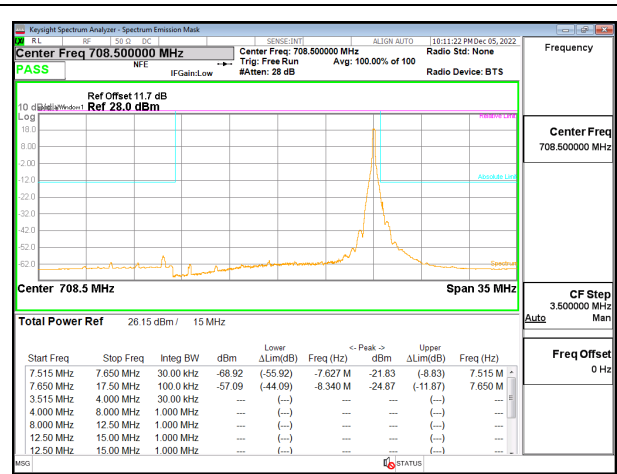
5G NR n12 15MHz BPSK Low Channel RB75-0, ID:19146



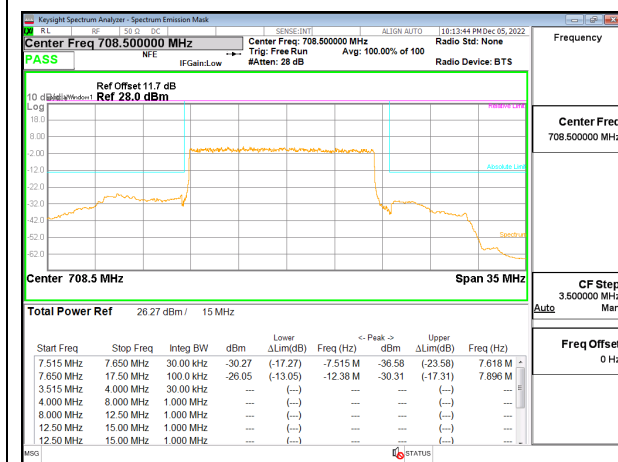
5G NR n12 15MHz BPSK Middle Channel RB75-0, ID:19146



5G NR n12 15MHz BPSK High Channel RB1-0, ID:19146



5G NR n12 15MHz BPSK High Channel RB1-78, ID:19146



5G NR n12 15MHz BPSK High Channel RB75-0, ID:19146

Intentionally Blank

9.2.3. LTE BAND 13

LIMITS

FCC: §27.53

(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:

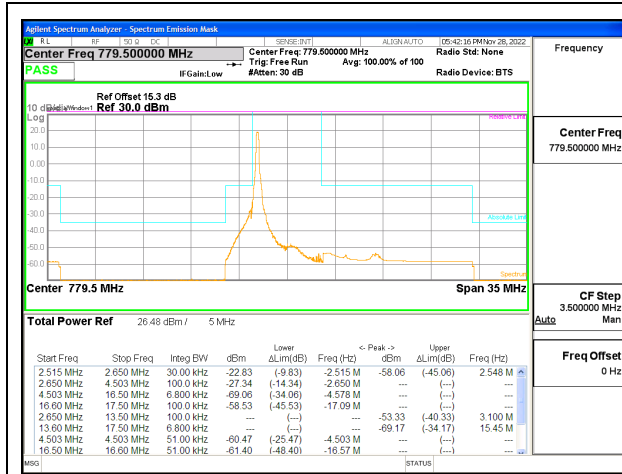
(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(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;

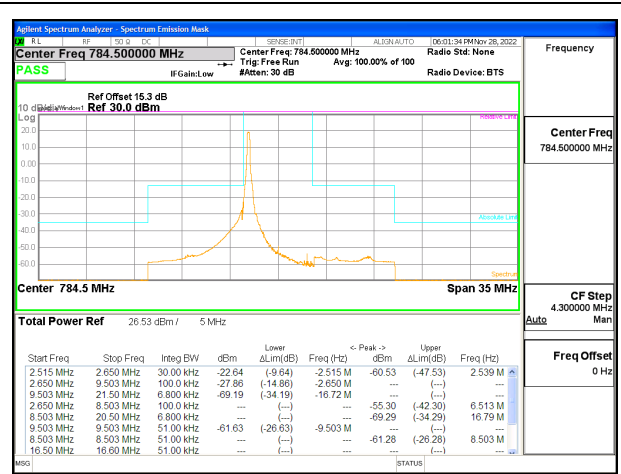
(5) Compliance with the provisions of paragraphs (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

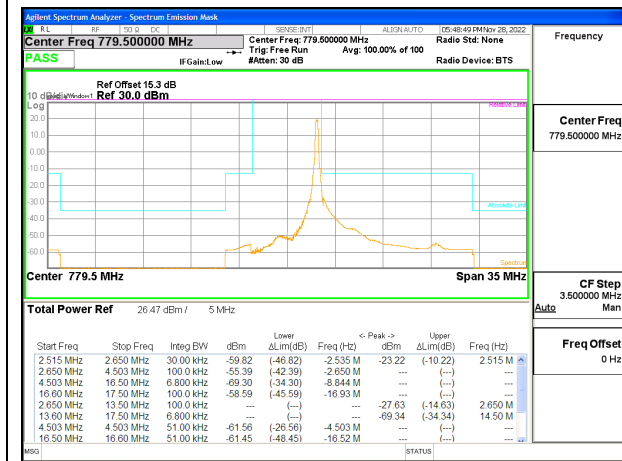
(f) Emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40 dBm/MHz).



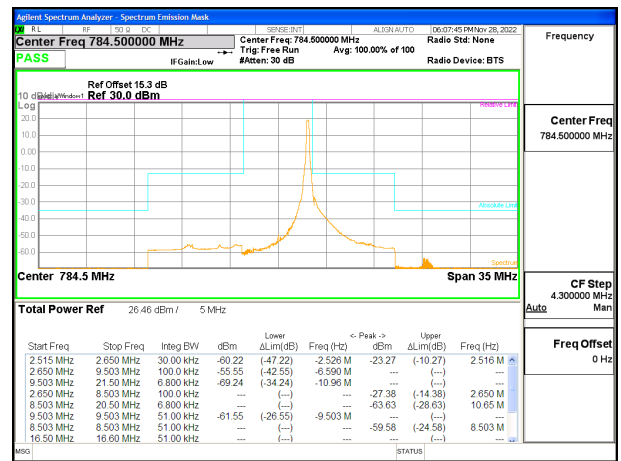
LTE B13 5MHz QPSK Low Channel RB1-0, ID:25780



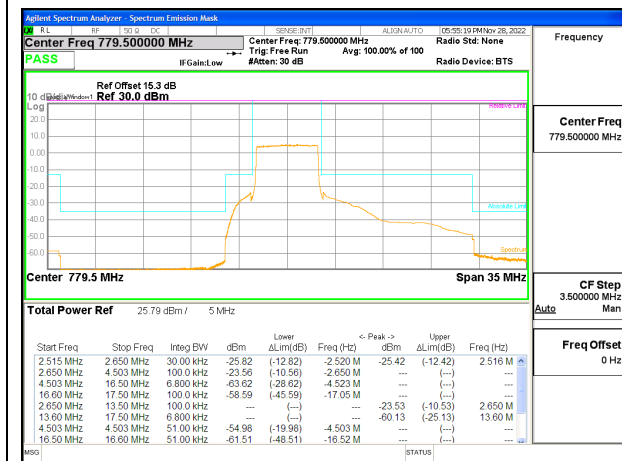
LTE B13 5MHz QPSK High Channel RB1-0, ID:25780



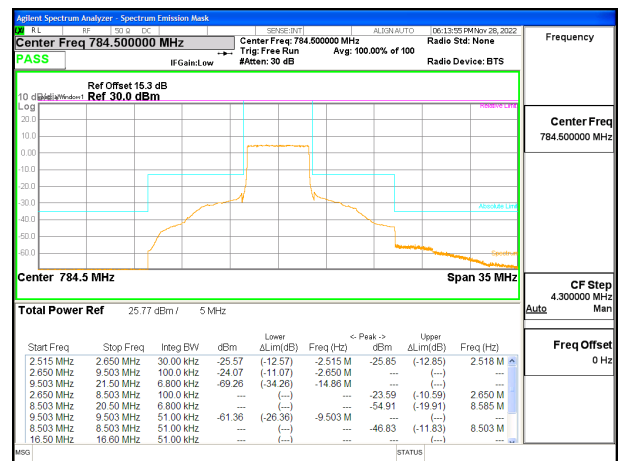
LTE B13 5MHz QPSK Low Channel RB1-24, ID:25780



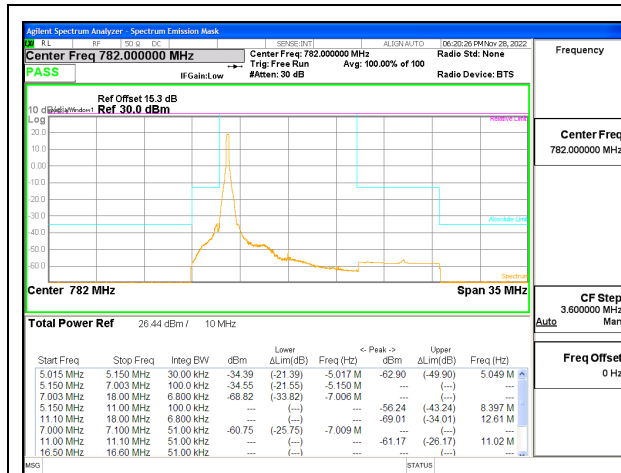
LTE B13 5MHz QPSK High Channel RB1-24, ID:25780



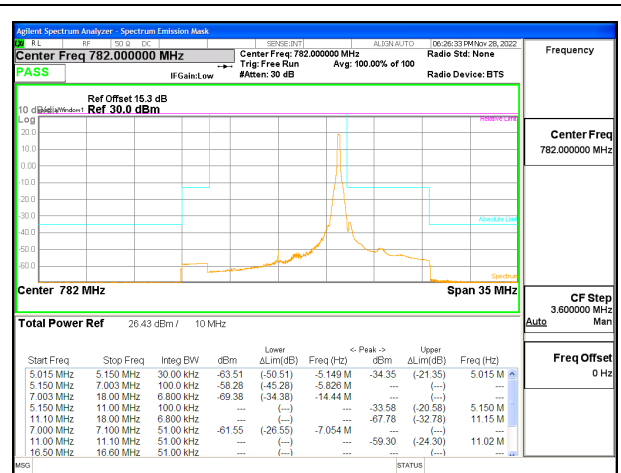
LTE B13 5MHz QPSK Low Channel RB25-0, ID:25780



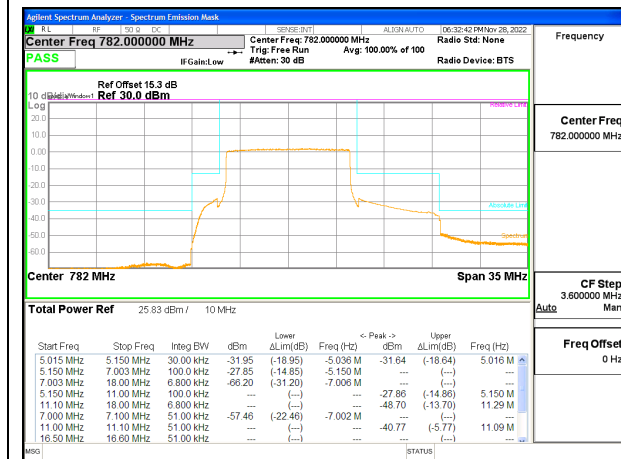
LTE B13 5MHz QPSK High Channel RB25-0, ID:25780



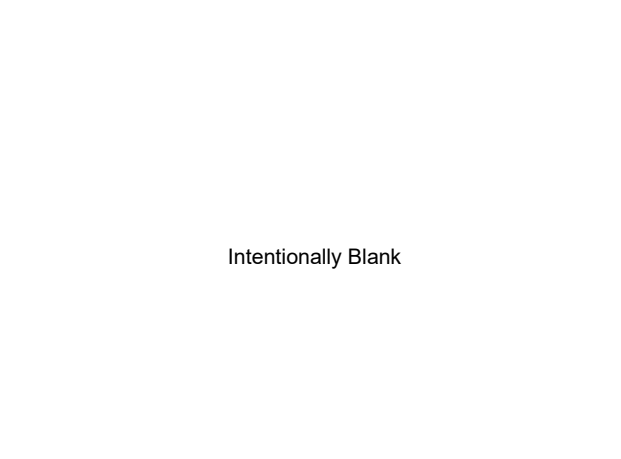
LTE B13 10MHz QPSK Middle Channel RB1-0, ID:25780



LTE B13 10MHz QPSK Middle Channel RB1-49, ID:25780



LTE B13 10MHz QPSK Middle Channel RB50-0, ID:25780



9.2.4. LTE BAND 14 AND 5G NR n14

LIMITS

FCC: §90.543 Emission Limitations.

(e) For operations in the 758-768 MHz and the 788-798 MHz bands, 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 all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

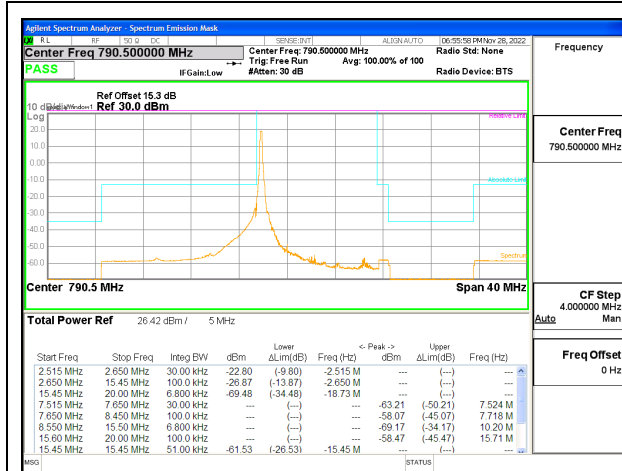
(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

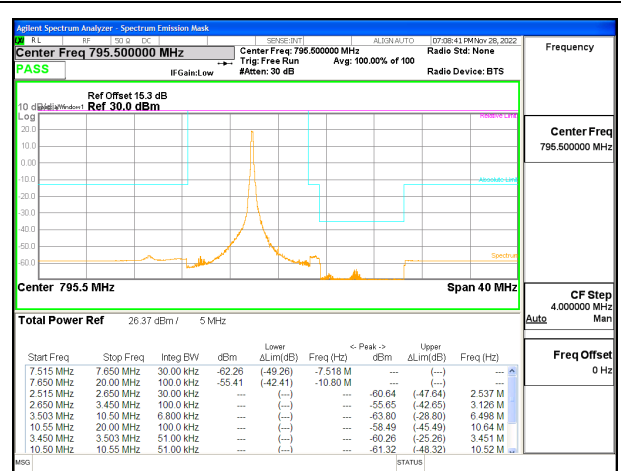
(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

(f) For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics 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.

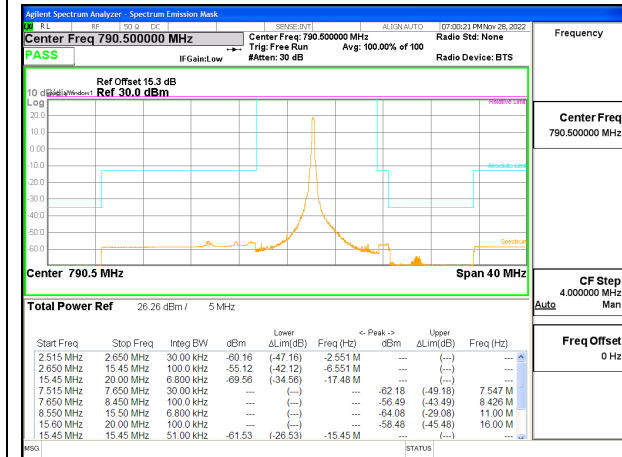
LTE BAND 14 EMISSION MASK



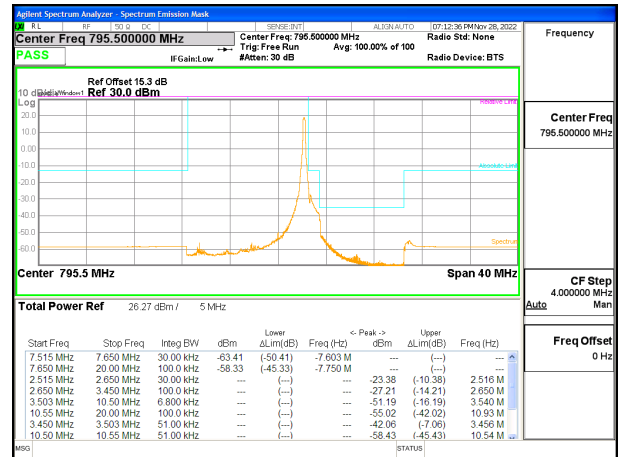
LTE B14 5MHz QPSK Low Channel RB1-0, ID:25780



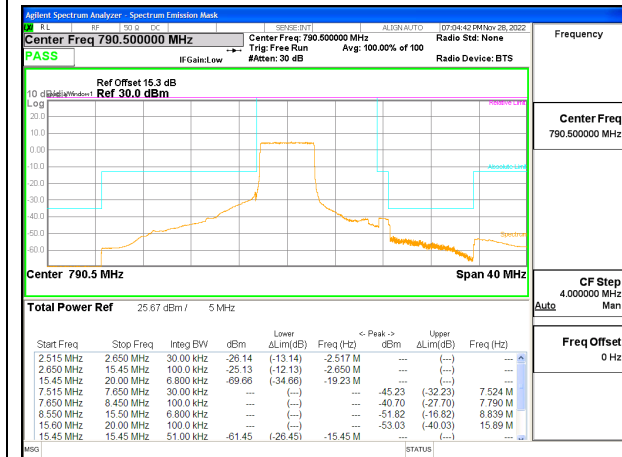
LTE B14 5MHz QPSK High Channel RB1-0, ID:25780



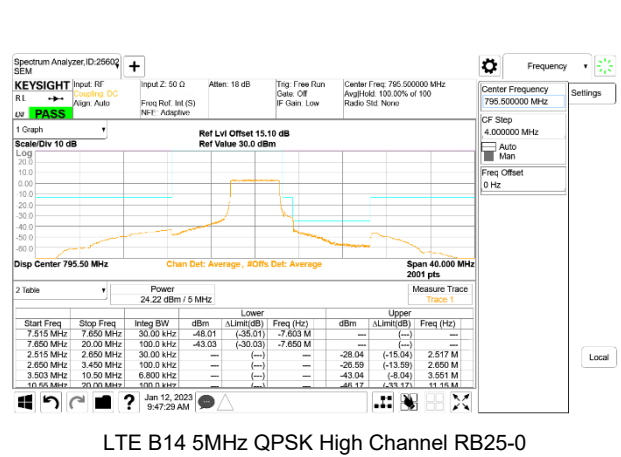
LTE B14 5MHz QPSK Low Channel RB1-24, ID:25780



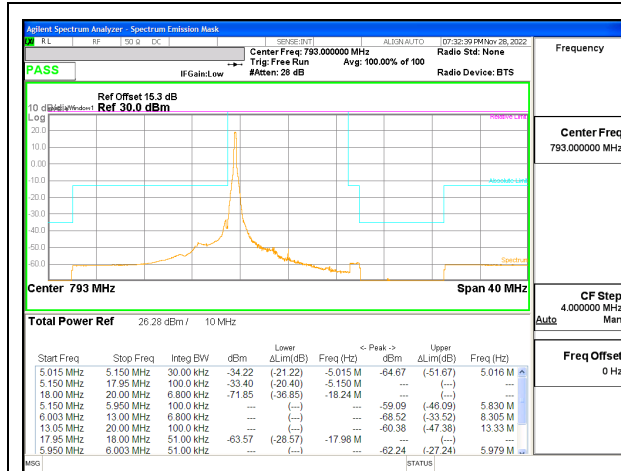
LTE B14 5MHz QPSK High Channel RB1-24, ID:25780



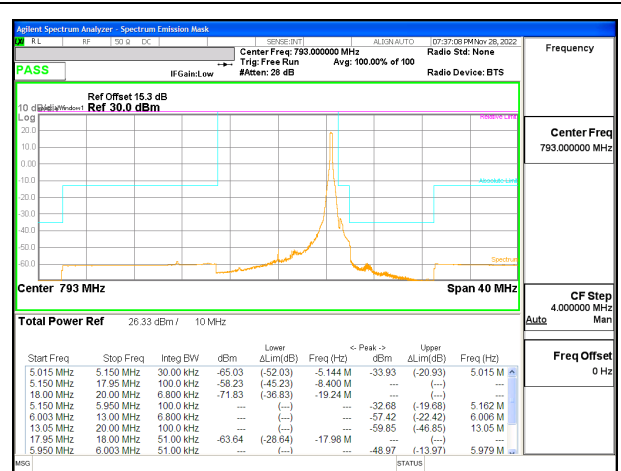
LTE B14 5MHz QPSK Low Channel RB25-0, ID:25780



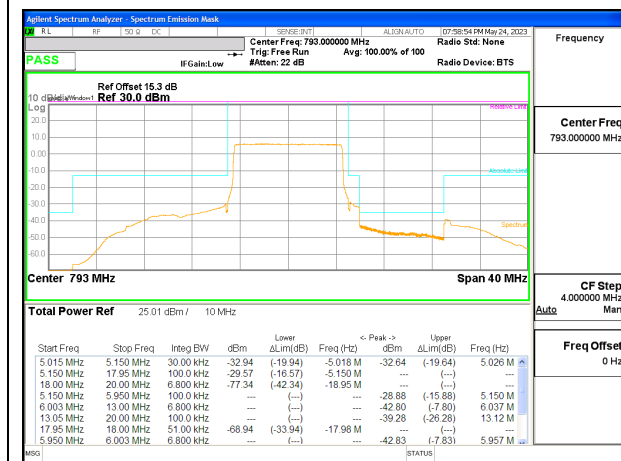
LTE B14 5MHz QPSK High Channel RB25-0, ID:25780



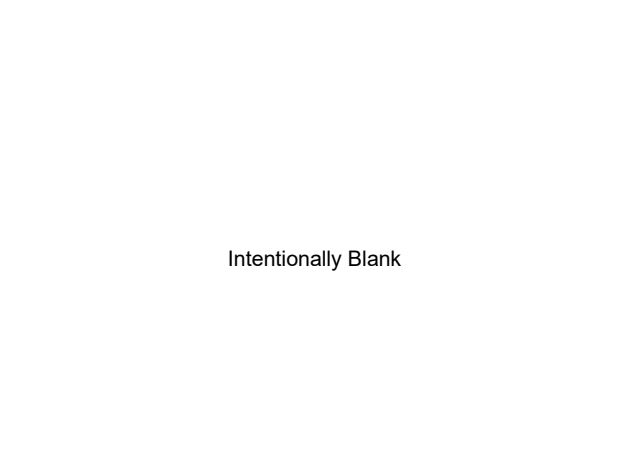
LTE B14 10MHz QPSK Middle Channel RB1-0, ID:25780



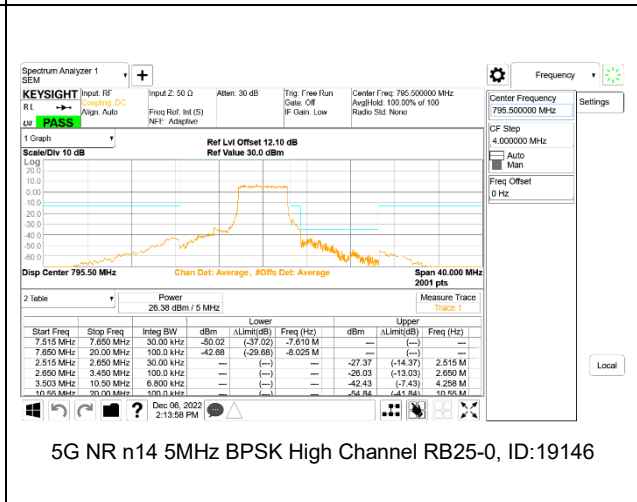
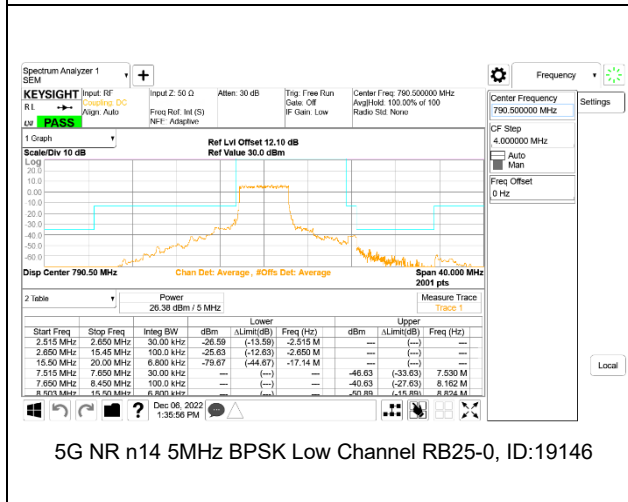
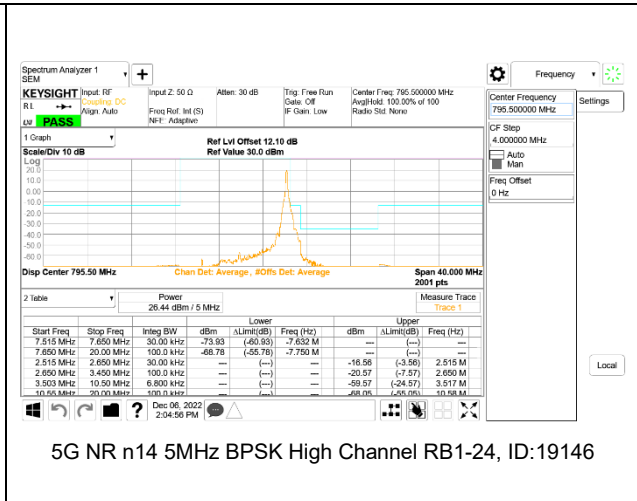
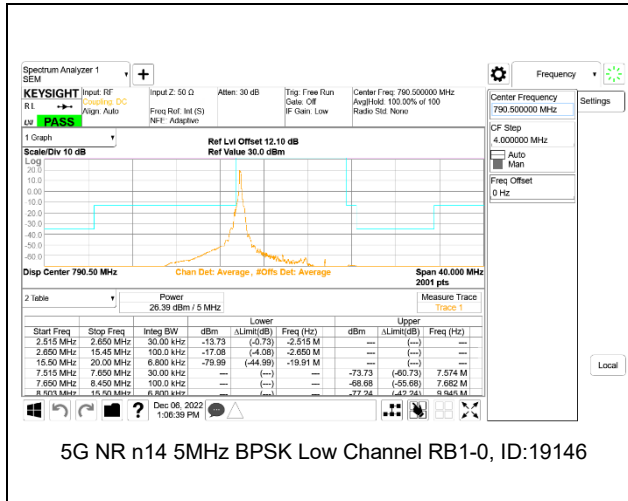
LTE B14 10MHz QPSK Middle Channel RB1-49, ID:25780

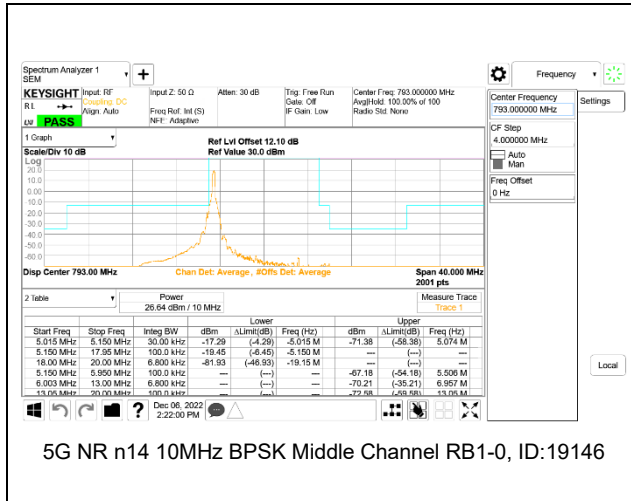


LTE B14 10MHz QPSK Middle Channel RB50-0, ID:25780

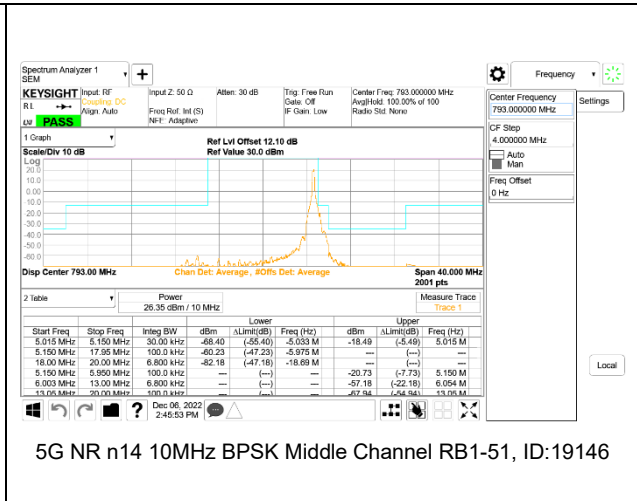


5G NR n14 EMISSION MASK

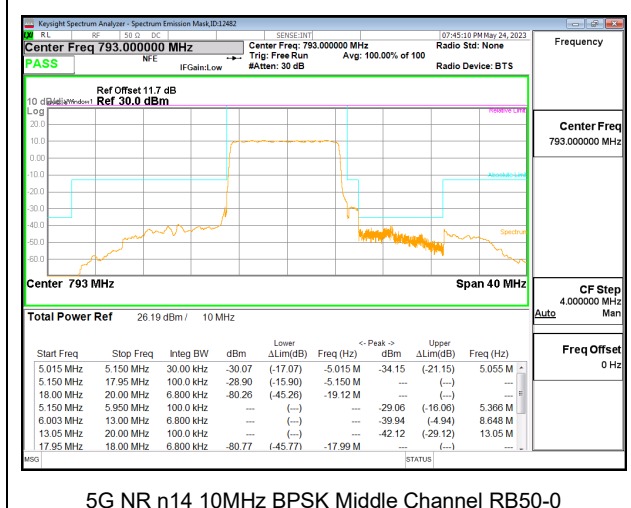




5G NR n14 10MHz BPSK Middle Channel RB1-0, ID:19146



5G NR n14 10MHz BPSK Middle Channel RB1-51, ID:19146



5G NR n14 10MHz BPSK Middle Channel RB50-0

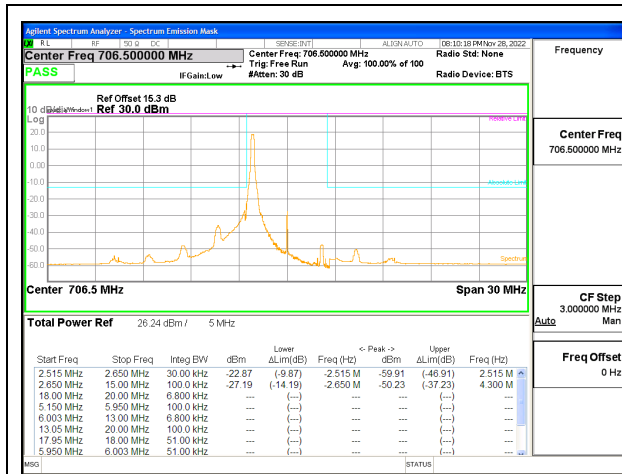


9.2.5. LTE BAND 17

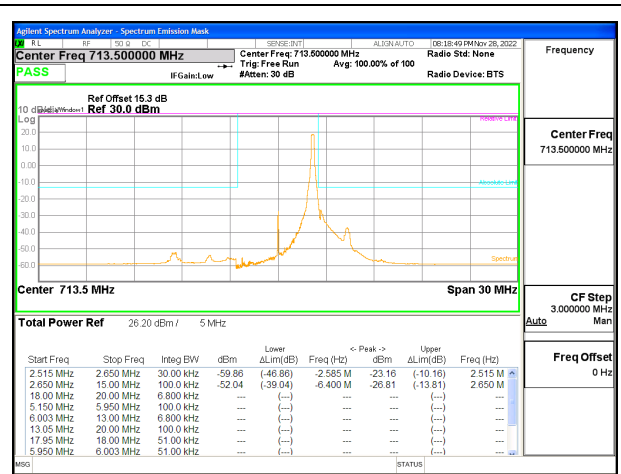
LIMITS

FCC: §27.53

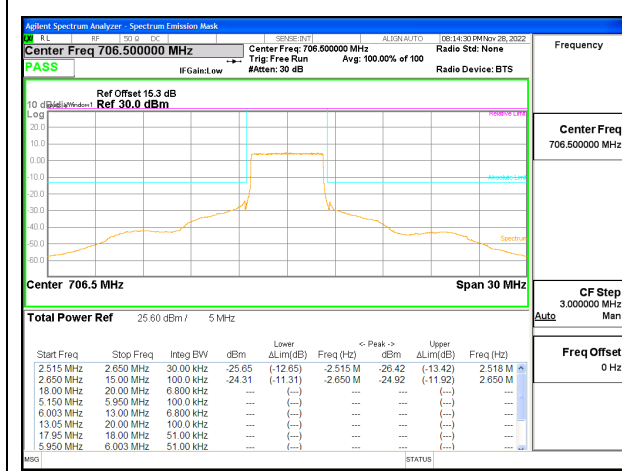
(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance 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.



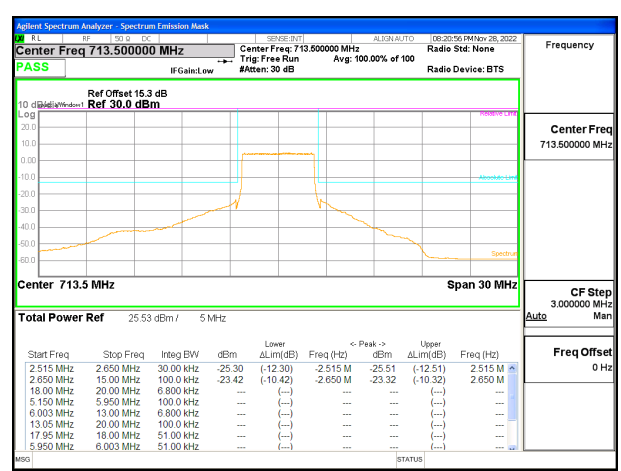
LTE B17 5MHz QPSK Low Channel RB1-0, ID:25780



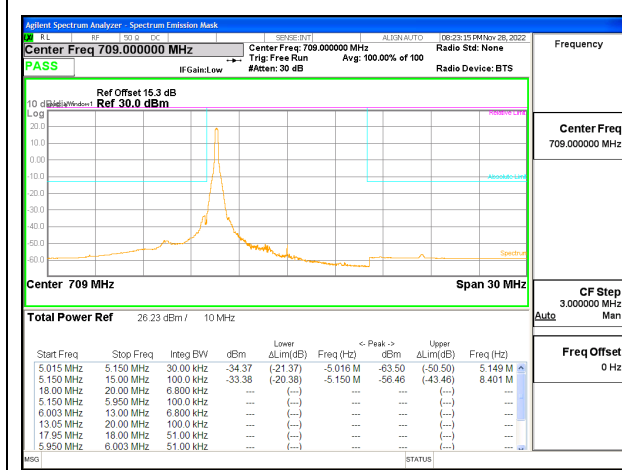
LTE B17 5MHz QPSK High Channel RB1-24, ID:25780



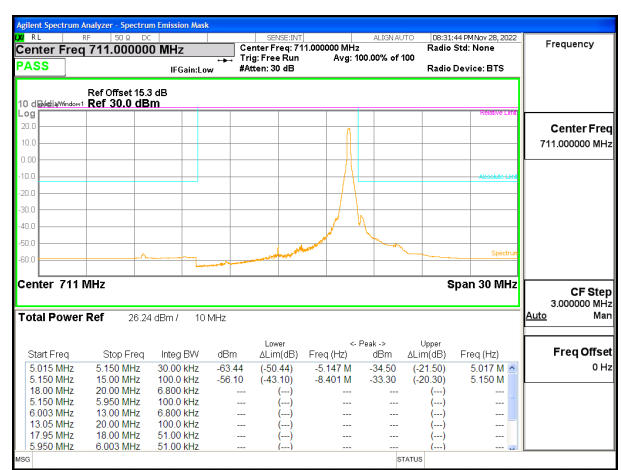
LTE B17 5MHz QPSK Low Channel RB25-0, ID:25780



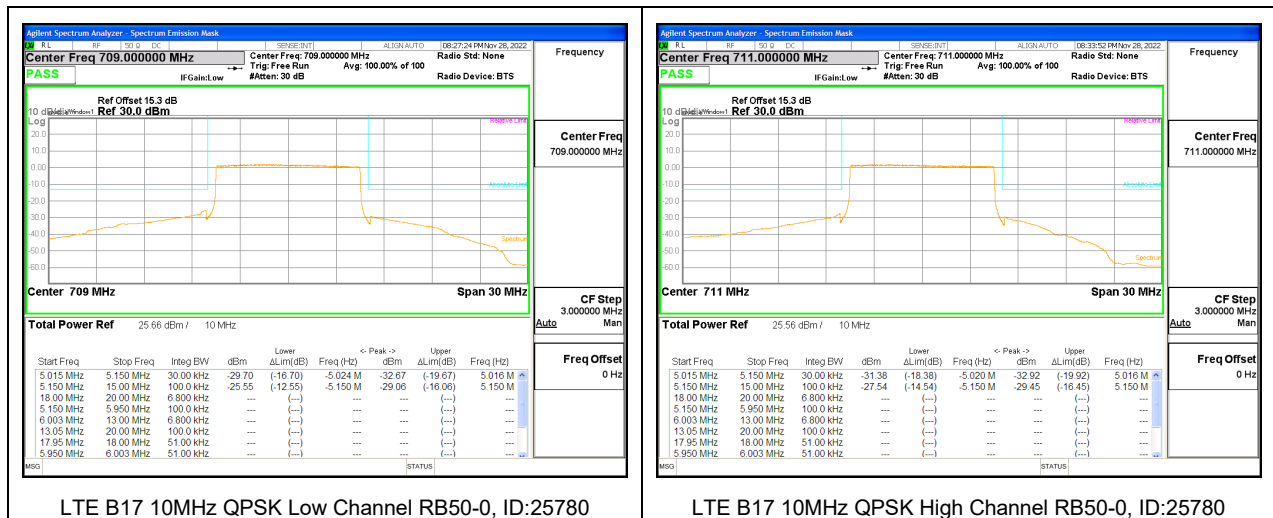
LTE B17 5MHz QPSK High Channel RB25-0, ID:25780



LTE B17 10MHz QPSK Low Channel RB1-0, ID:25780



LTE B17 10MHz QPSK High Channel RB1-49, ID:25780



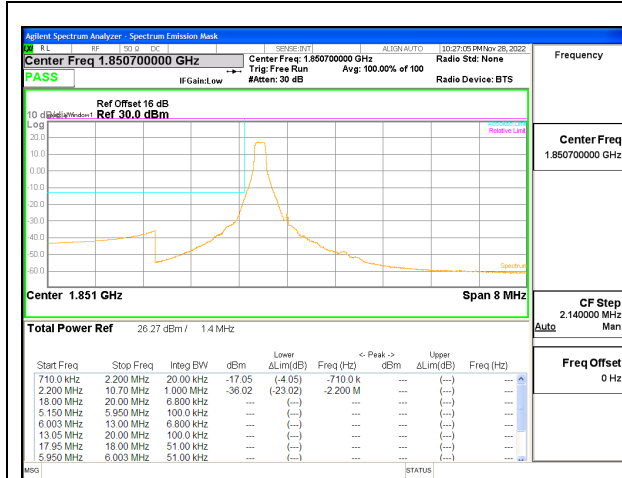
9.2.6. LTE BAND 25 AND 5G NR n25

LIMITS

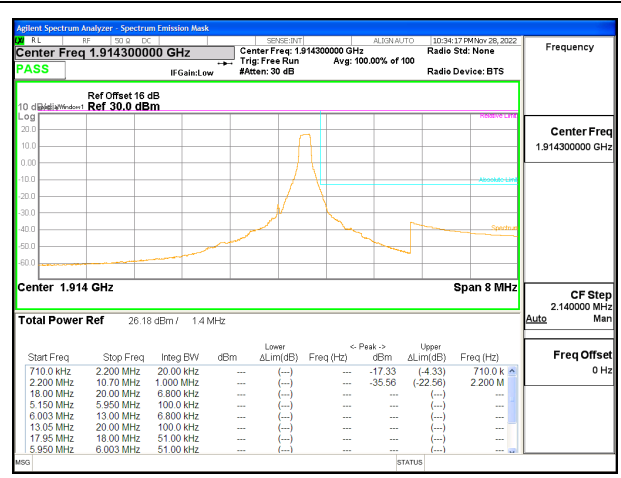
FCC: §24.238 (a)

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.

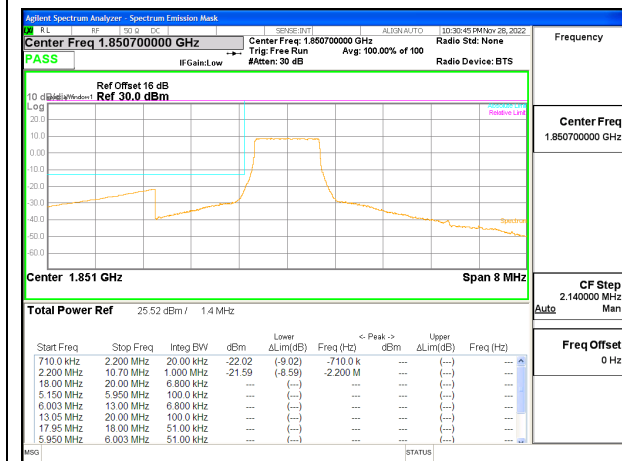
LTE BAND 25 BANDEDGE



LTE B25 1.4MHz QPSK Low Channel RB1-0, ID:25780



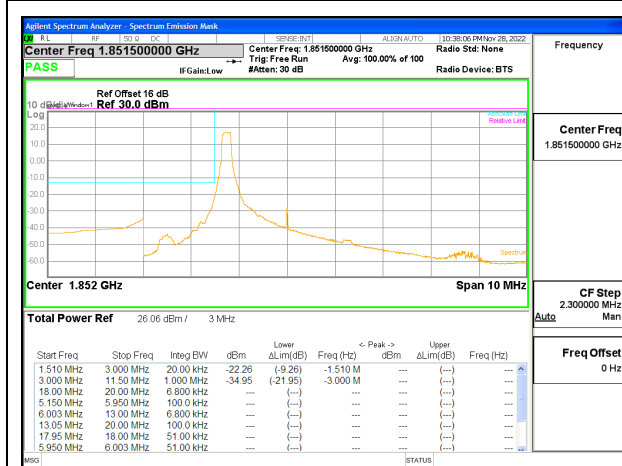
LTE B25 1.4MHz QPSK High Channel RB1-5, ID:25780



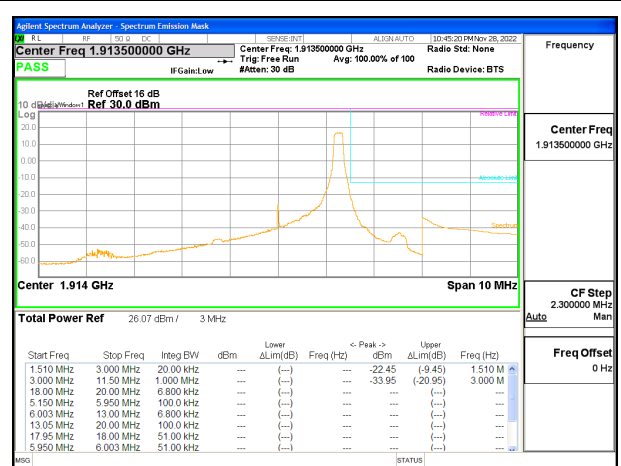
LTE B25 1.4MHz QPSK Low Channel RB6-0, ID:25780



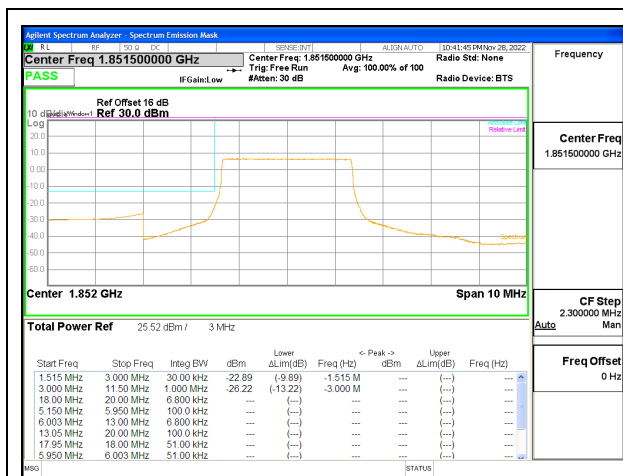
LTE B25 1.4MHz QPSK High Channel RB6-0, ID:25780



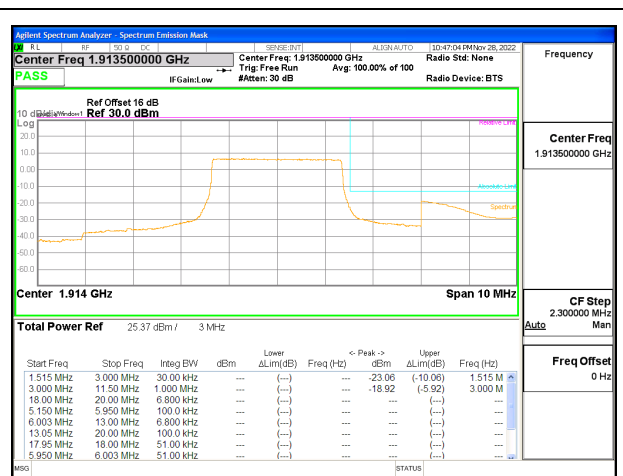
LTE B25 3MHz QPSK Low Channel RB1-0, ID:25780



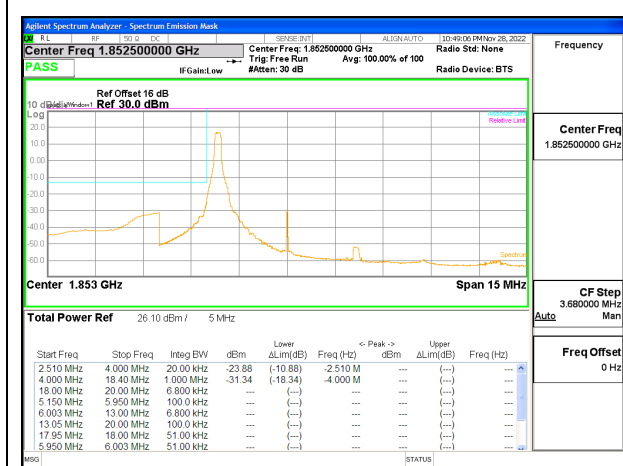
LTE B25 3MHz QPSK High Channel RB1-14, ID:25780



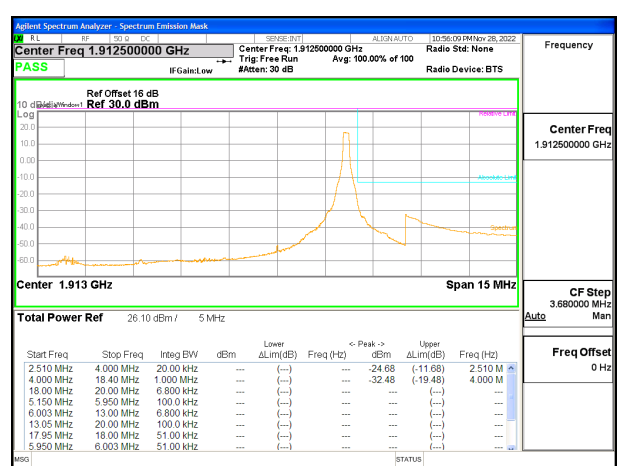
LTE B25 3MHz QPSK Low Channel RB15-0, ID:25780



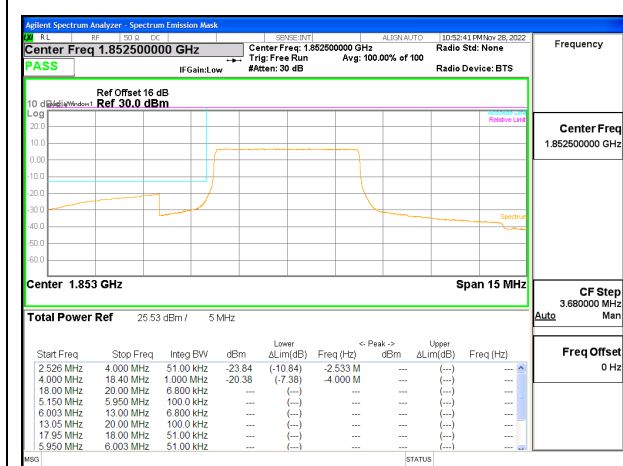
LTE B25 3MHz QPSK High Channel RB15-0, ID:25780



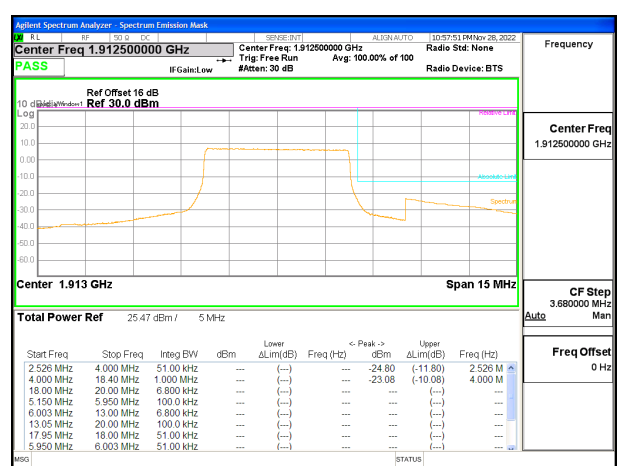
LTE B25 5MHz QPSK Low Channel RB1-0, ID:25780



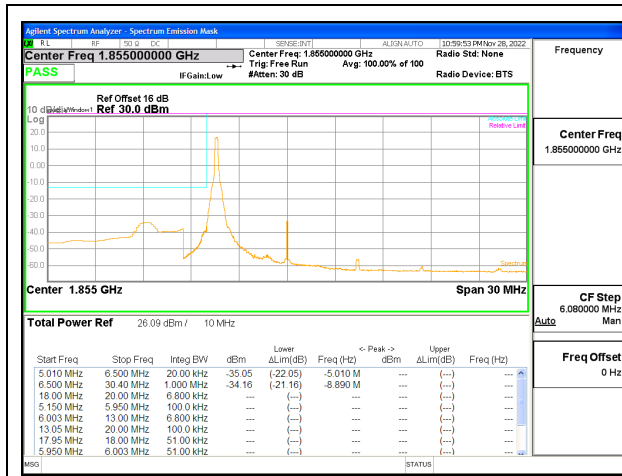
LTE B25 5MHz QPSK High Channel RB1-24, ID:25780



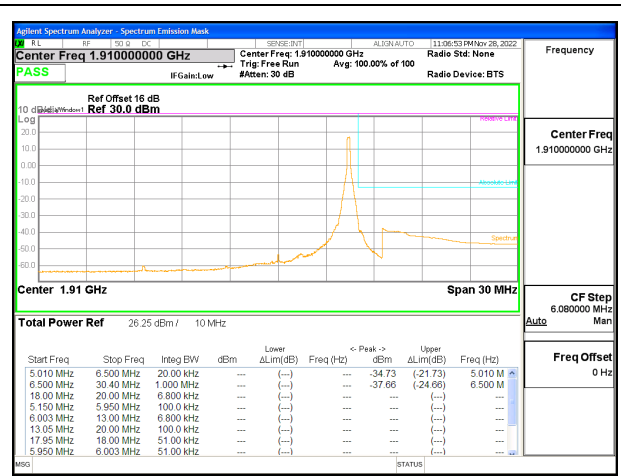
LTE B25 5MHz QPSK Low Channel RB25-0, ID:25780



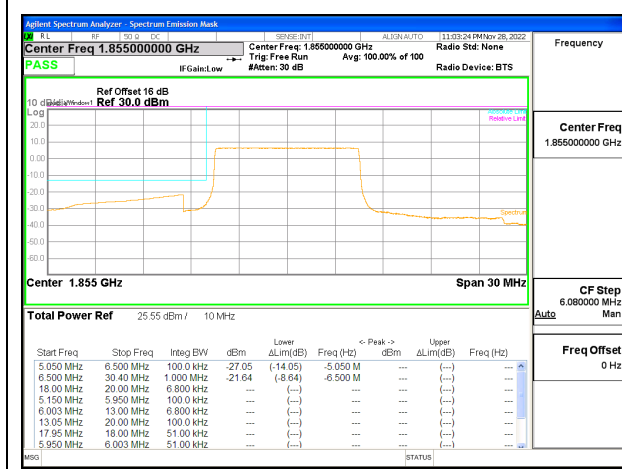
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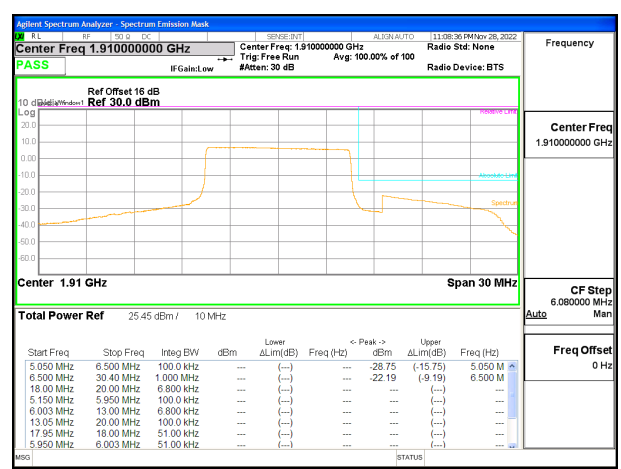
LTE B25 10MHz QPSK Low Channel RB1-0, ID:25780



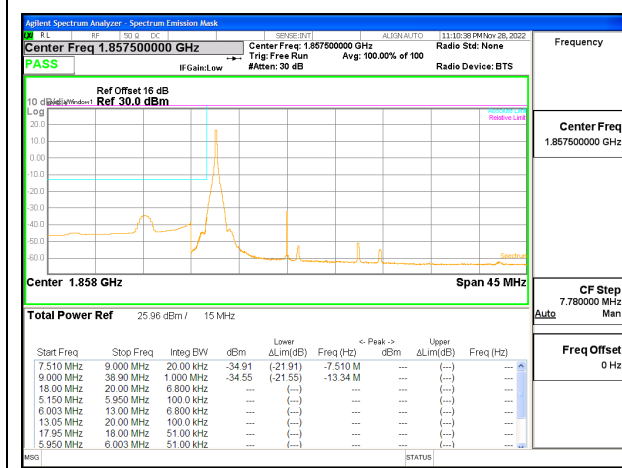
LTE B25 10MHz QPSK High Channel RB1-49, ID:25780



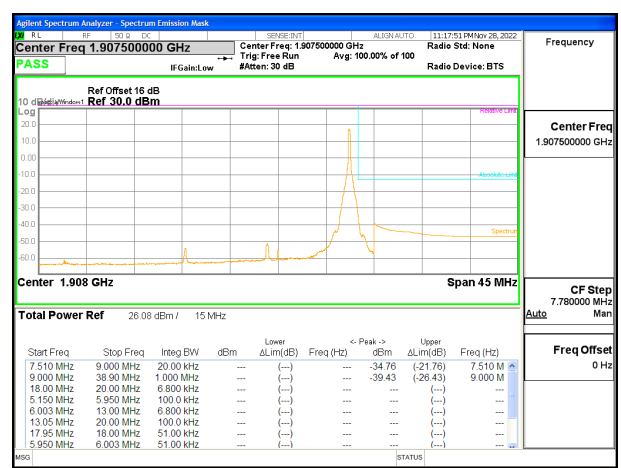
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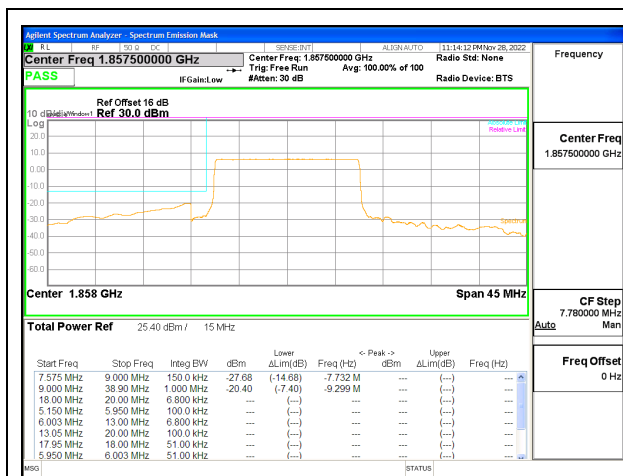
LTE B25 10MHz QPSK High Channel RB50-0, ID:25780



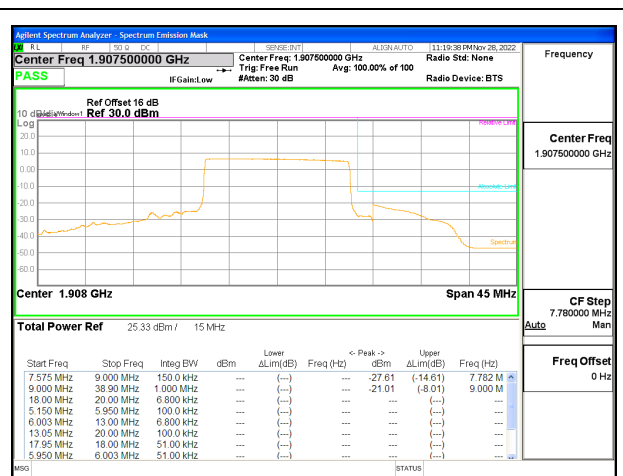
LTE B25 15MHz QPSK Low Channel RB1-0, ID:25780



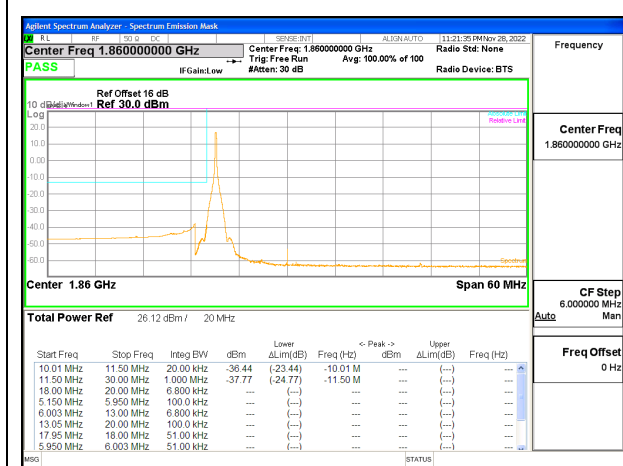
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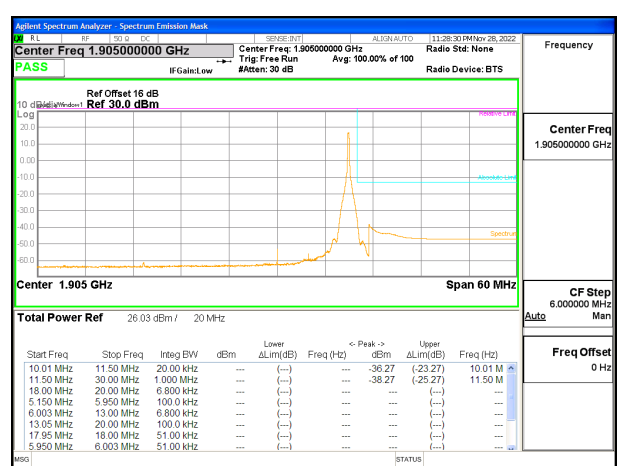
LTE B25 15MHz QPSK Low Channel RB75-0, ID:25780



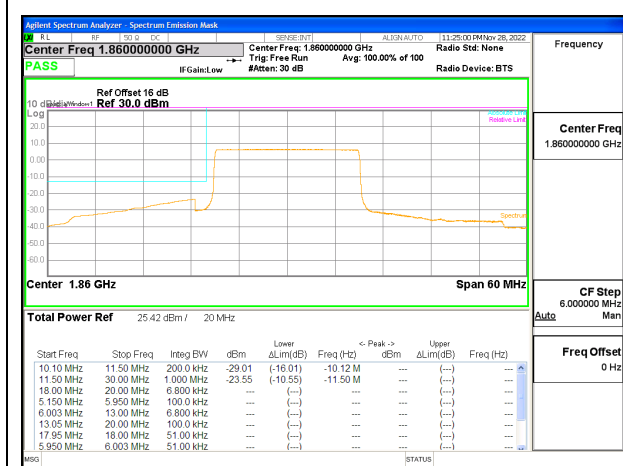
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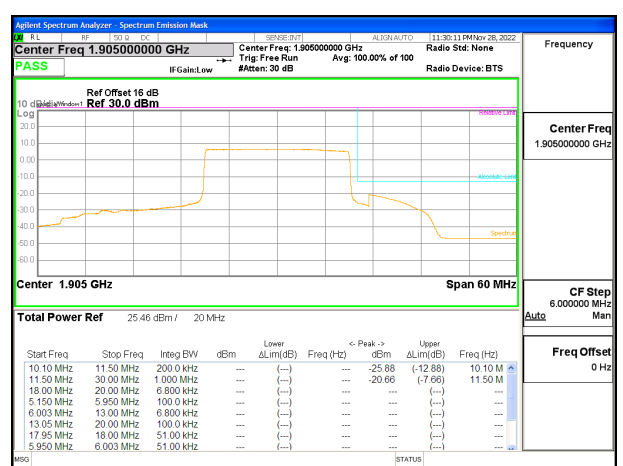
LTE B25 20MHz QPSK Low Channel RB1-0, ID:25780



LTE B25 20MHz QPSK High Channel RB1-99, ID:25780

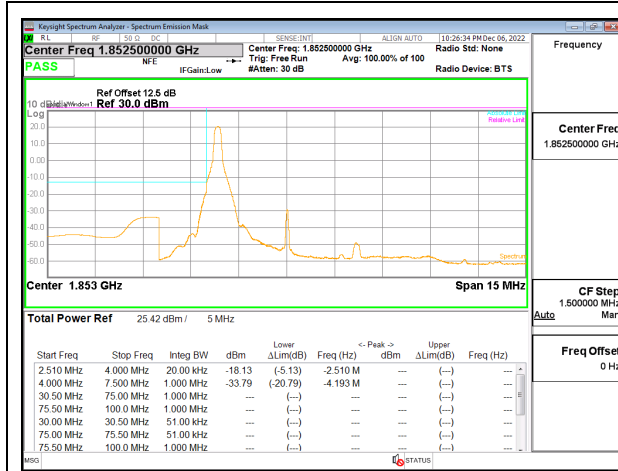


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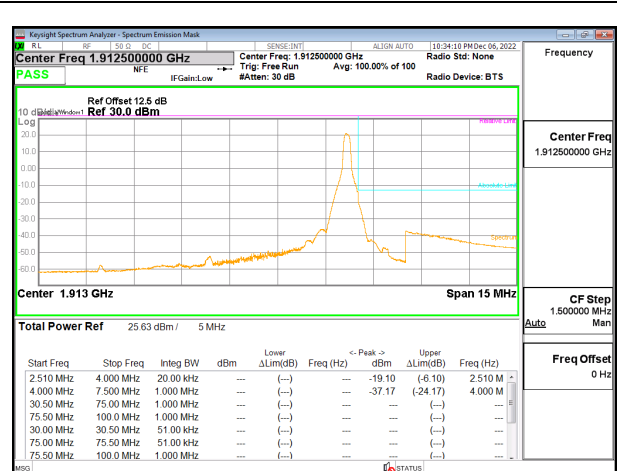


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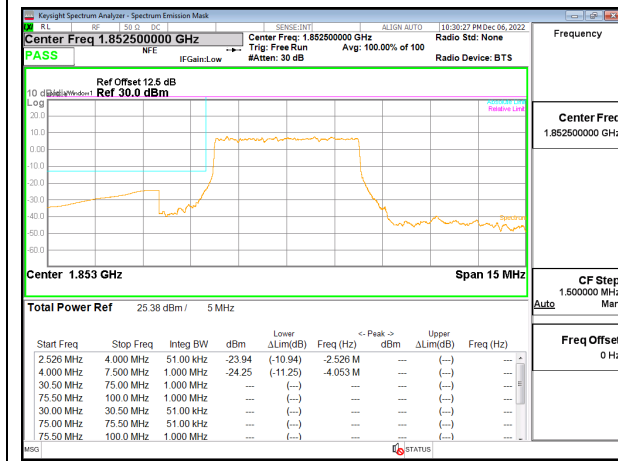
5G NR n25 BANDEGE



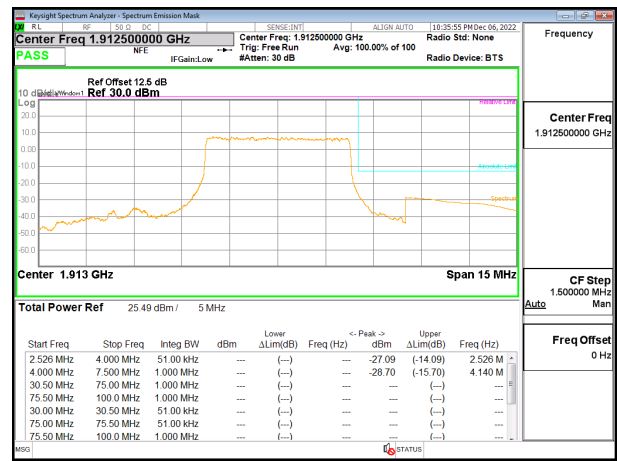
5G NR n25 5MHz BPSK Low Channel RB1-0, ID:19146



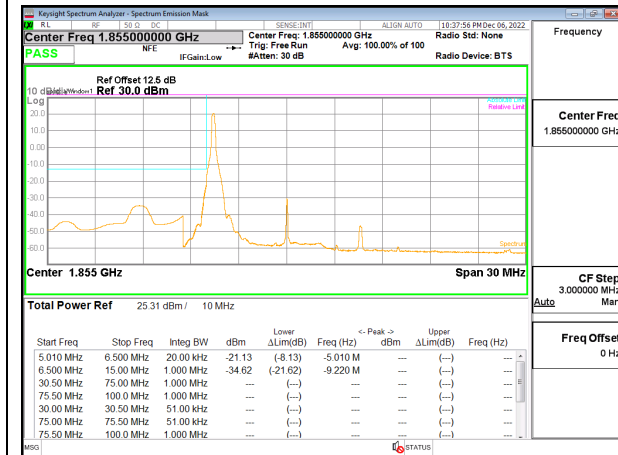
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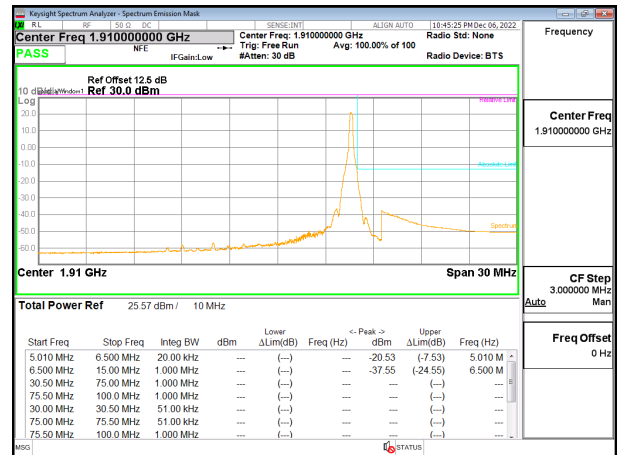
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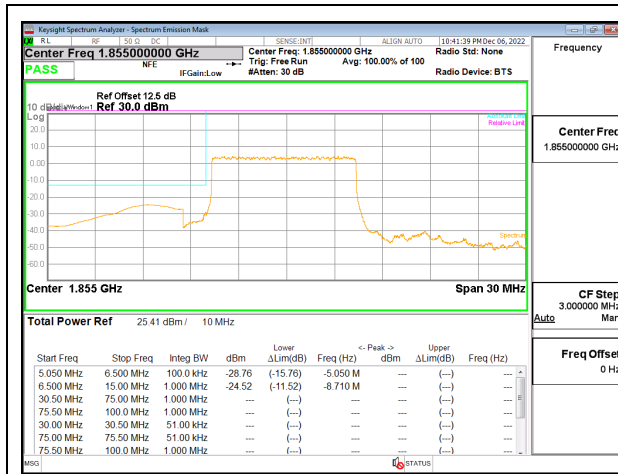
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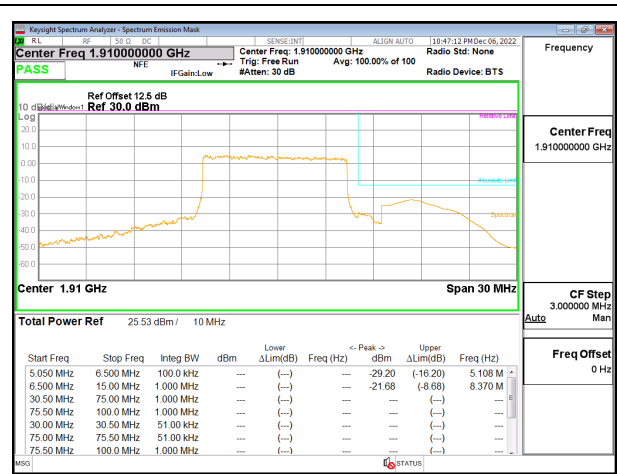
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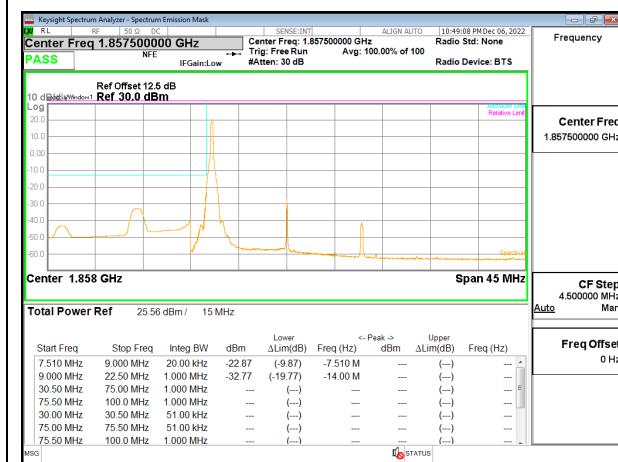
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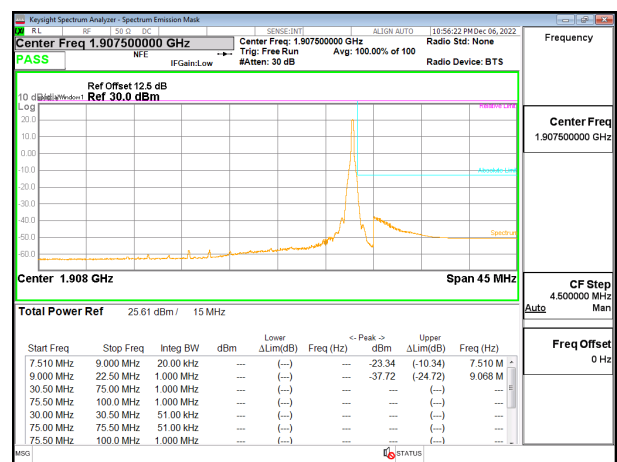
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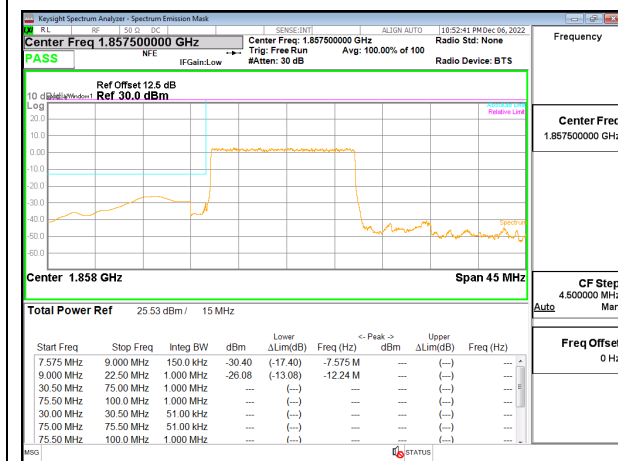
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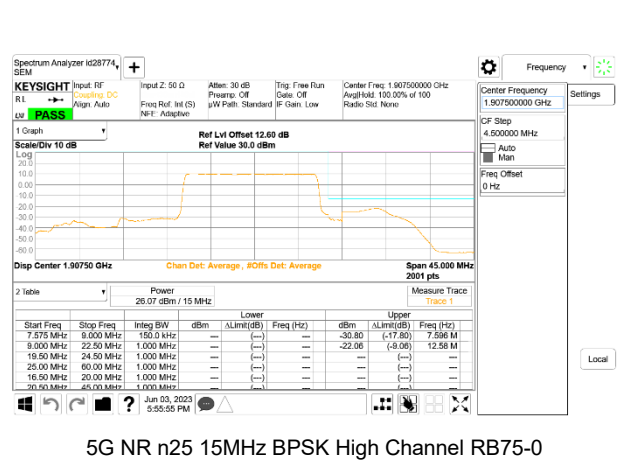
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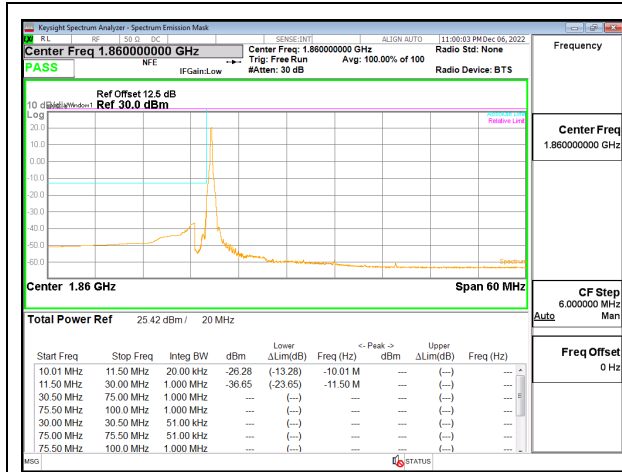
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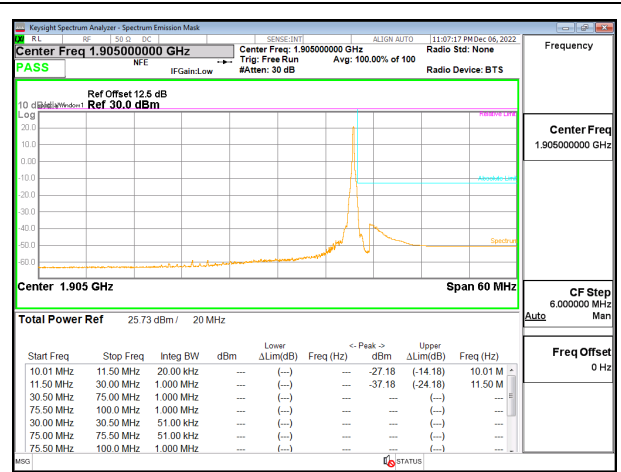
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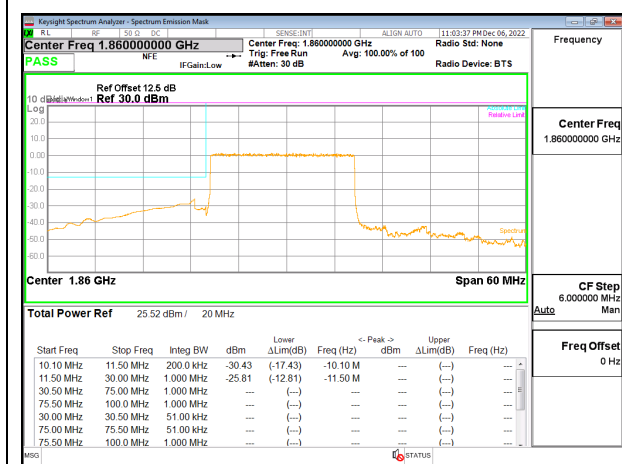
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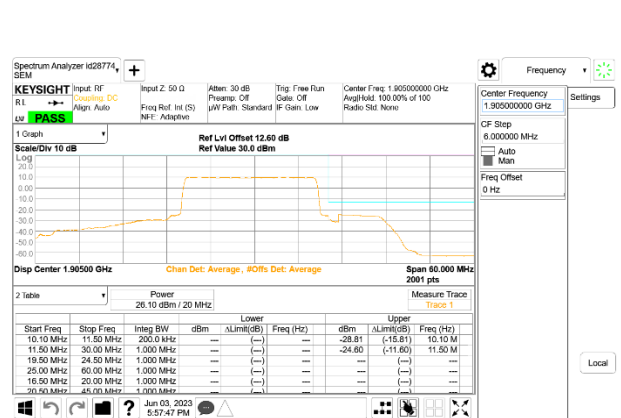
5G NR n25 20MHz BPSK Low Channel RB1-0, ID:19146



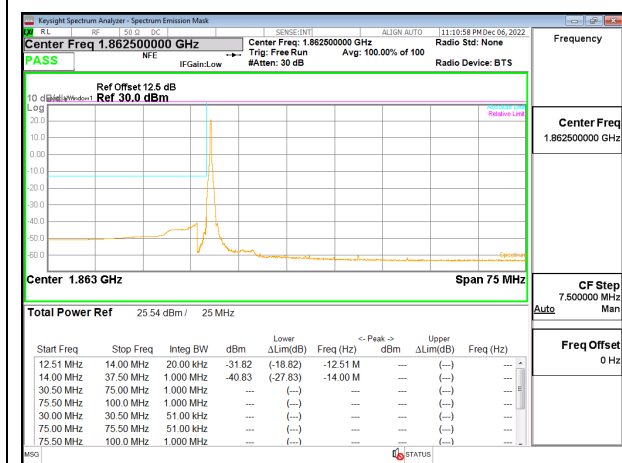
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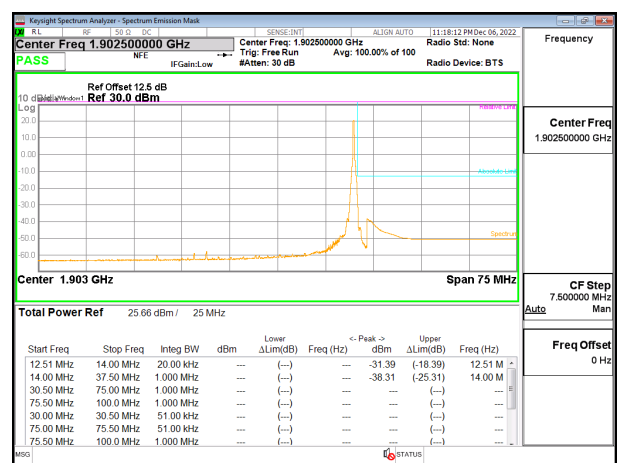
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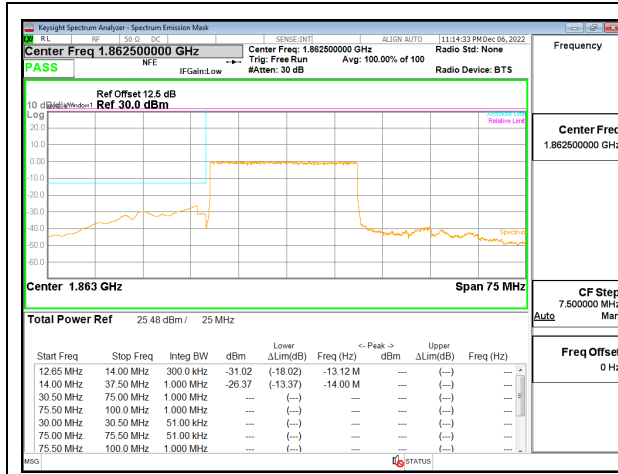
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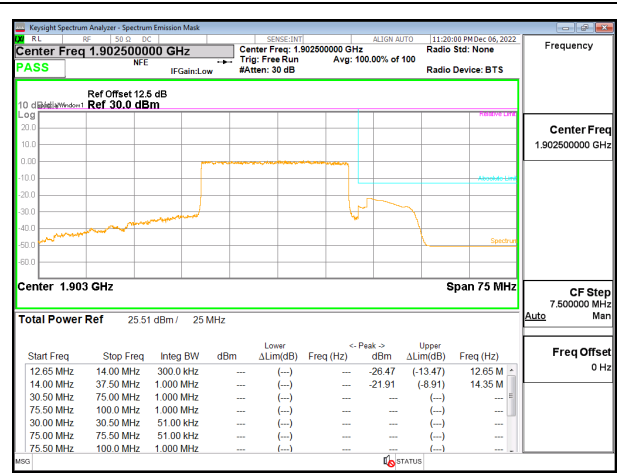
5G NR n25 25MHz BPSK Low Channel RB1-0, ID:19146



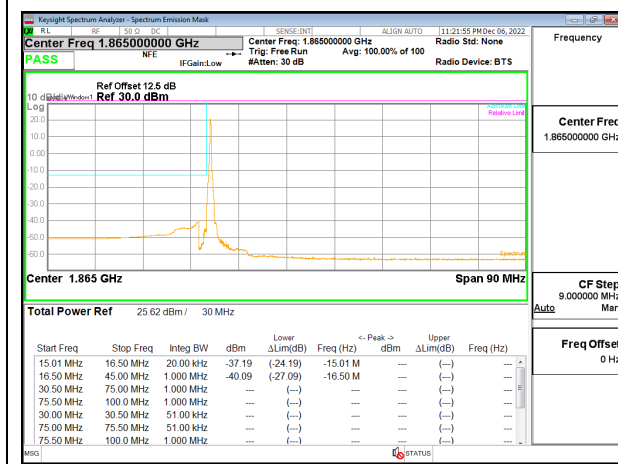
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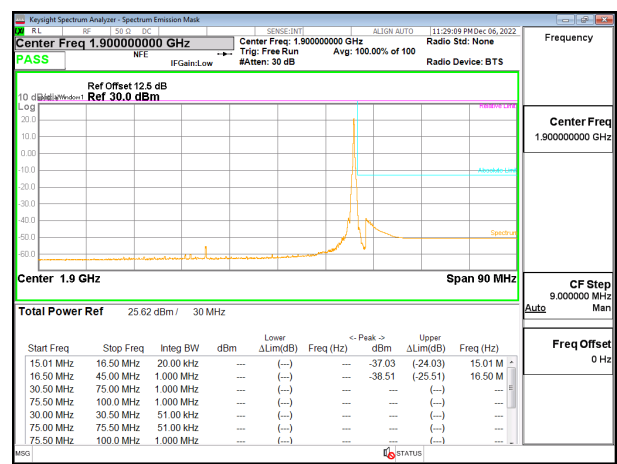
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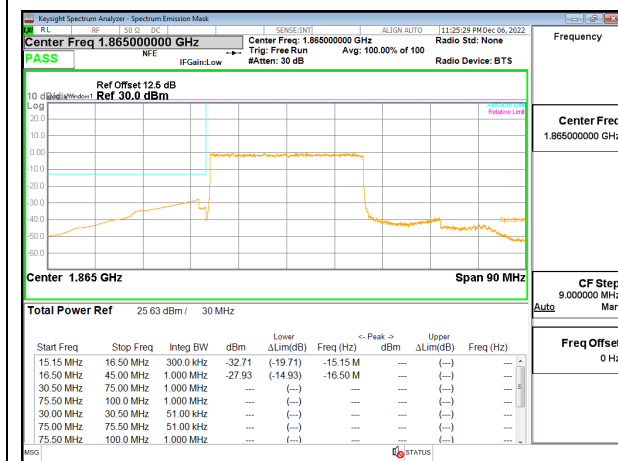
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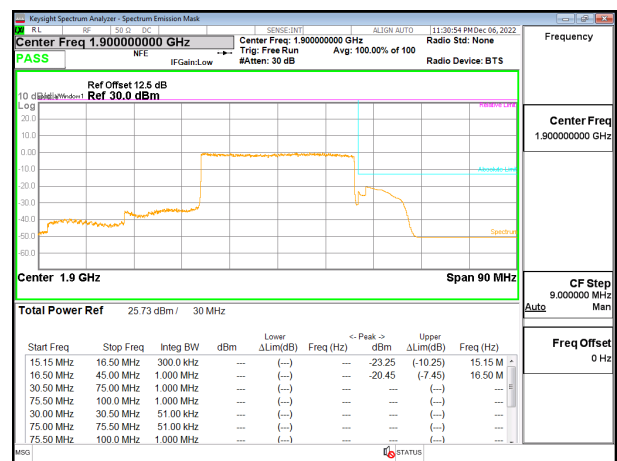
5G NR n25 30MHz BPSK Low Channel RB1-0, ID:19146



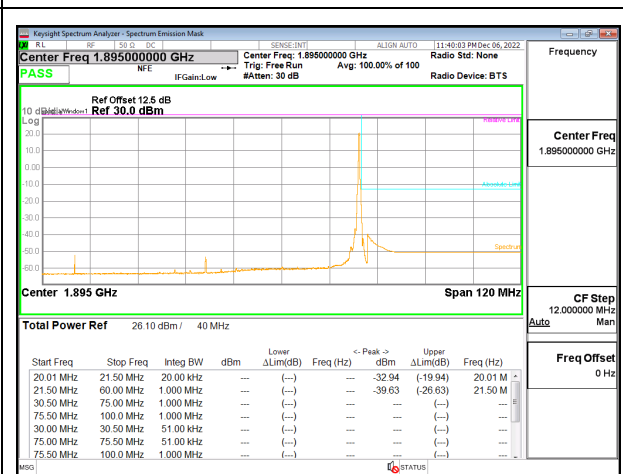
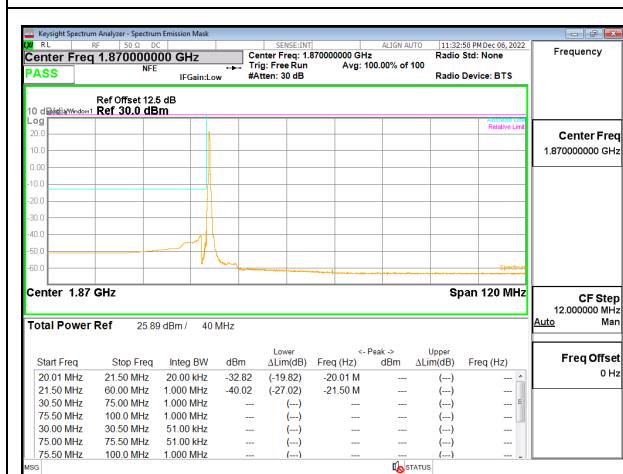
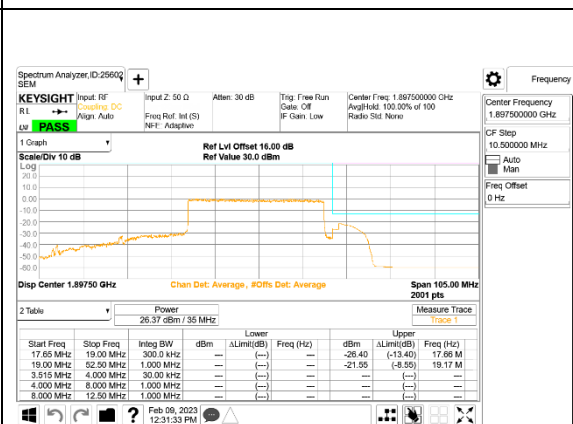
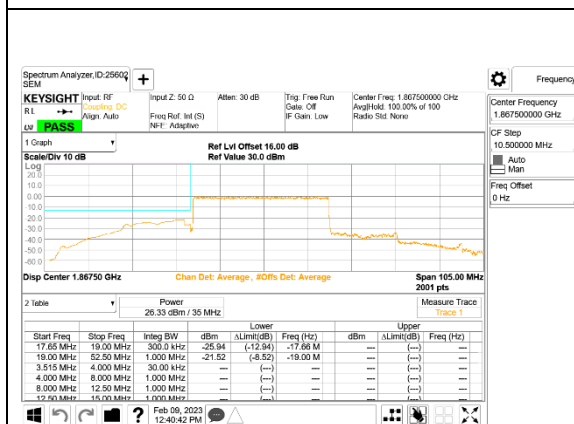
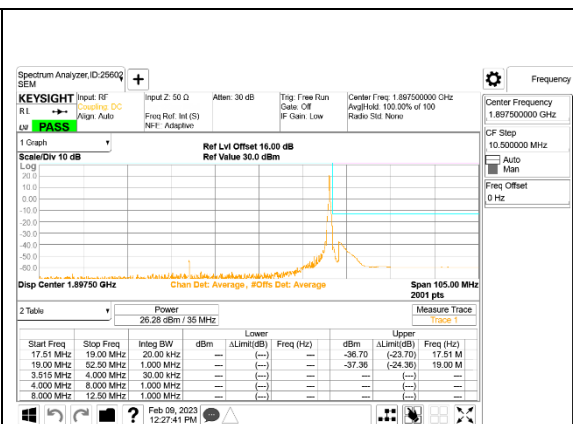
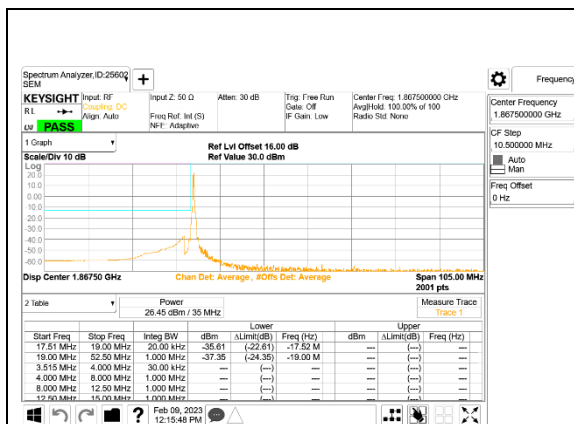
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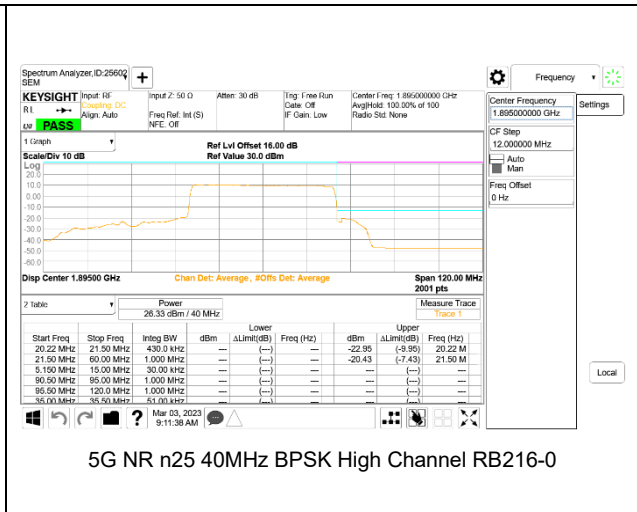
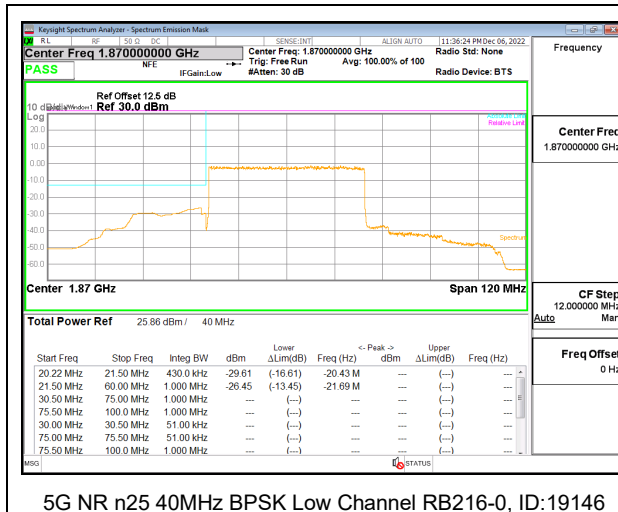


5G NR n25 30MHz BPSK Low Channel RB160-0, ID:19146



5G NR n25 30MHz BPSK High Channel RB160-0, ID:19146





9.2.7. LTE BAND 26 AND 5G NR n26 (PART 90S)

LIMITS

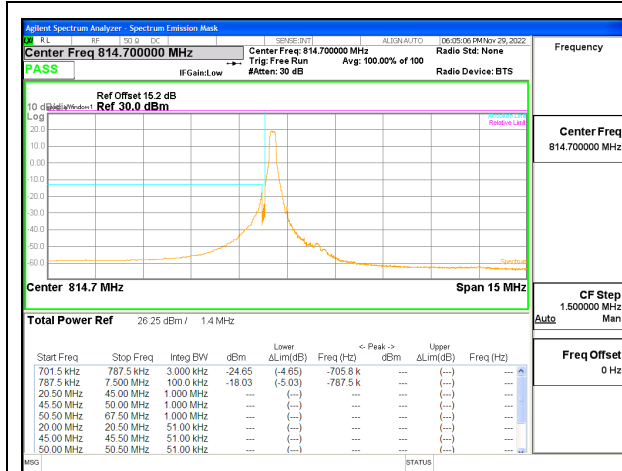
FCC: §90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

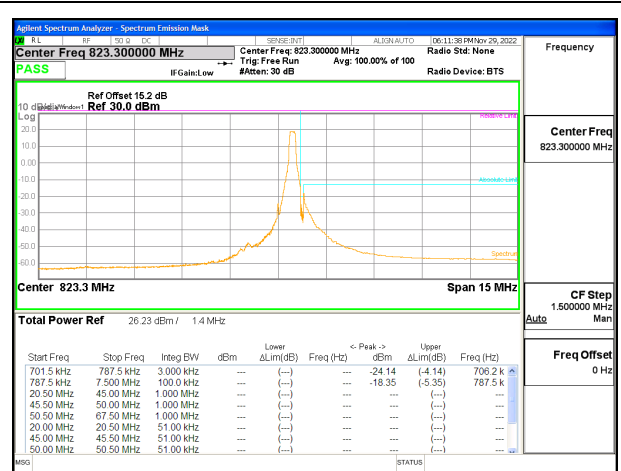
(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \text{ Log}_{10}(f/6.1)$ decibels or $50 + 10 \text{ Log}_{10}(P)$ decibels or 80 decibels, whichever 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 $43 + 10 \text{ Log}_{10}(P)$ 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.

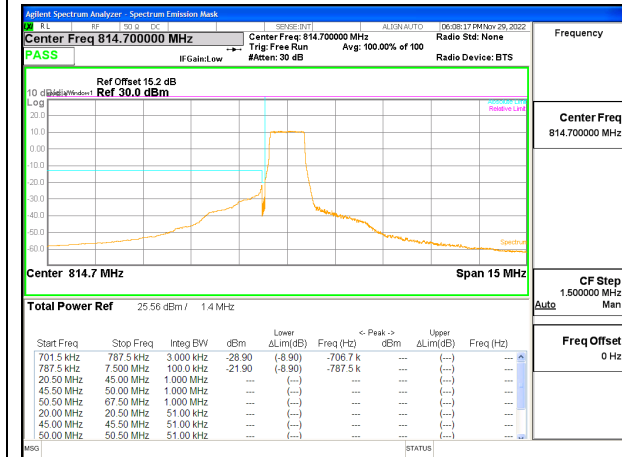
LTE BAND 26 EMISSION MASK



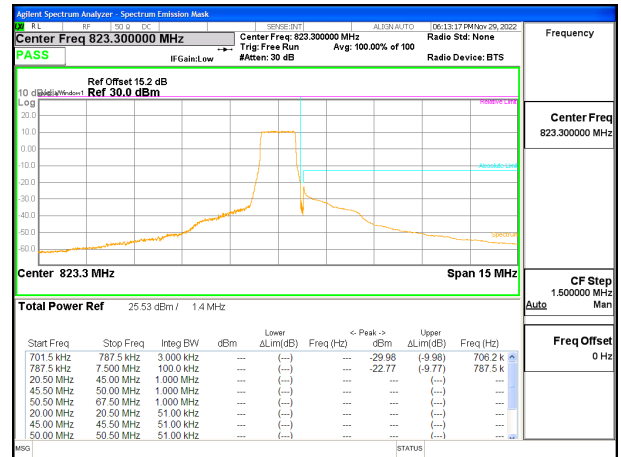
LTE B26 1.4MHz QPSK Low Channel RB1-0, ID:25780



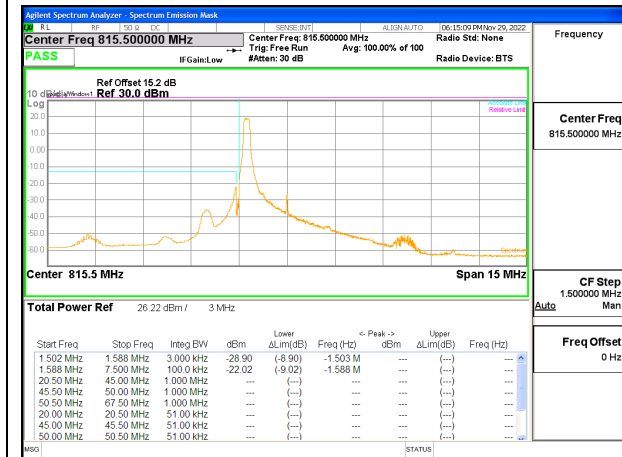
LTE B26 1.4MHz QPSK High Channel RB1-5, ID:25780



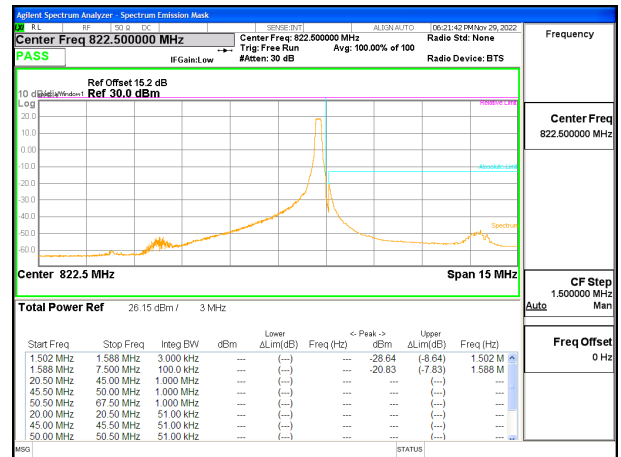
LTE B26 1.4MHz QPSK Low Channel RB6-0, ID:25780



LTE B26 1.4MHz QPSK High Channel RB6-0, ID:25780



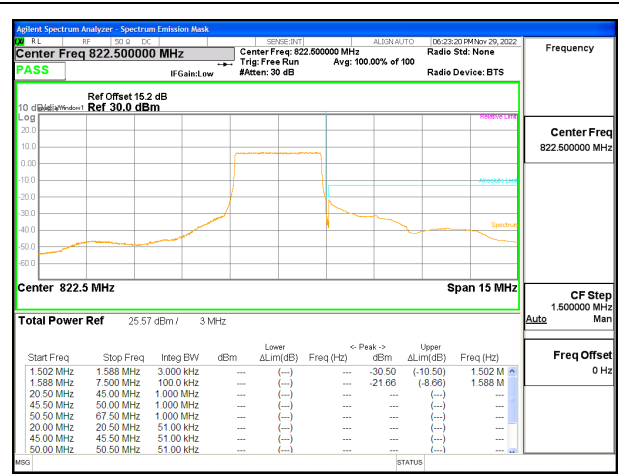
LTE B26 3MHz QPSK Low Channel RB1-0, ID:25780



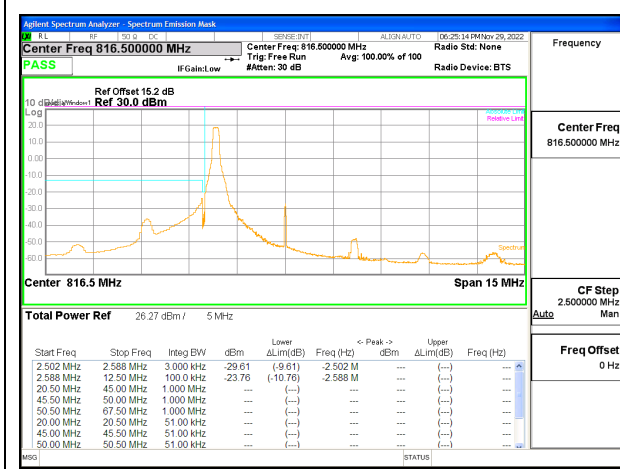
LTE B26 3MHz QPSK High Channel RB1-14, ID:25780



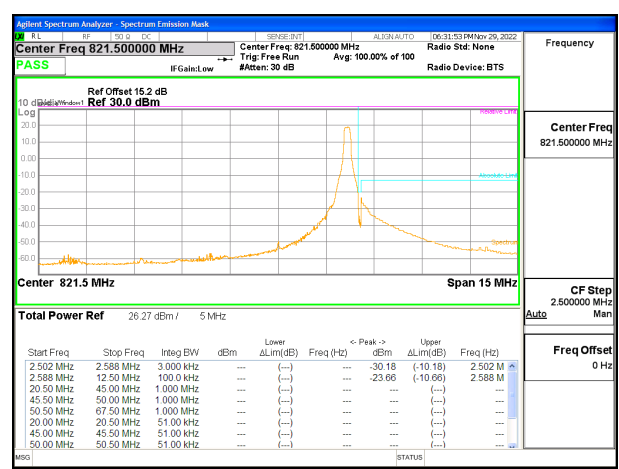
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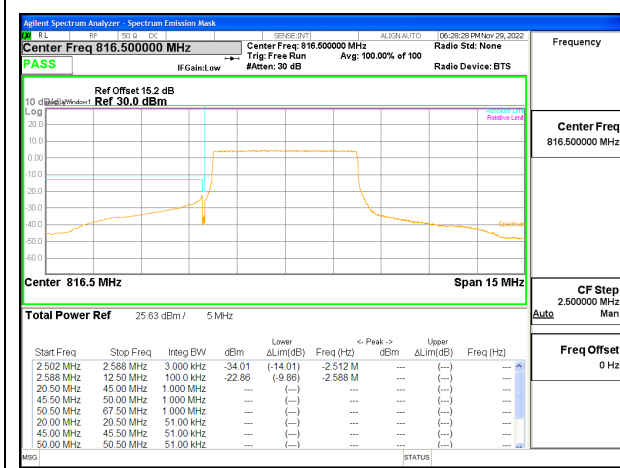
LTE B26 3MHz QPSK High Channel RB15-0, ID:25780



LTE B26 5MHz QPSK Low Channel RB1-0, ID:25780



LTE B26 5MHz QPSK High Channel RB1-24, ID:25780



LTE B26 5MHz QPSK Low Channel RB25-0, ID:25780



LTE B26 5MHz QPSK High Channel RB25-0, ID:25780