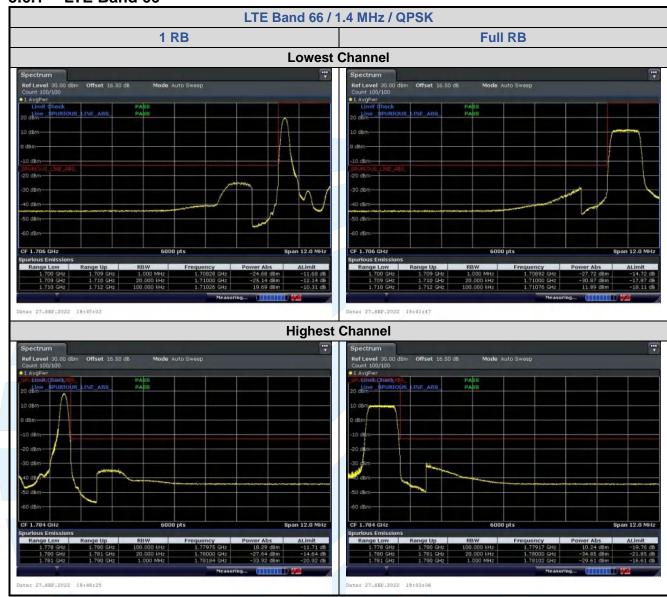
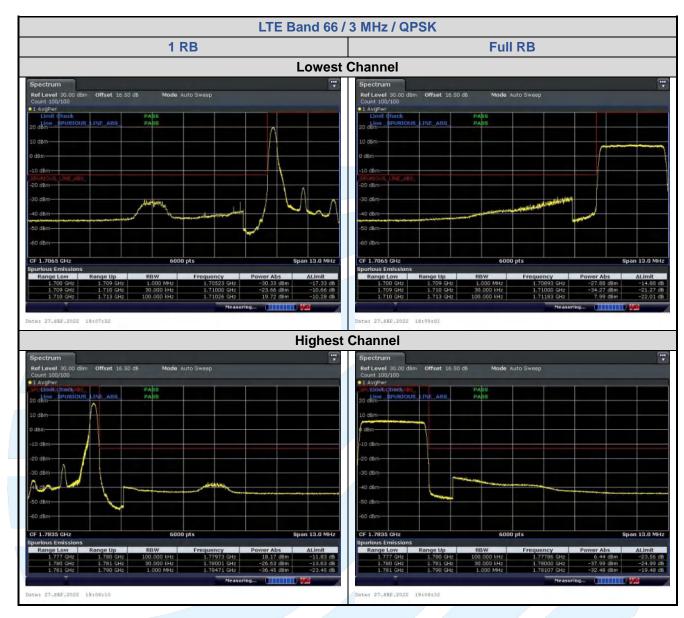




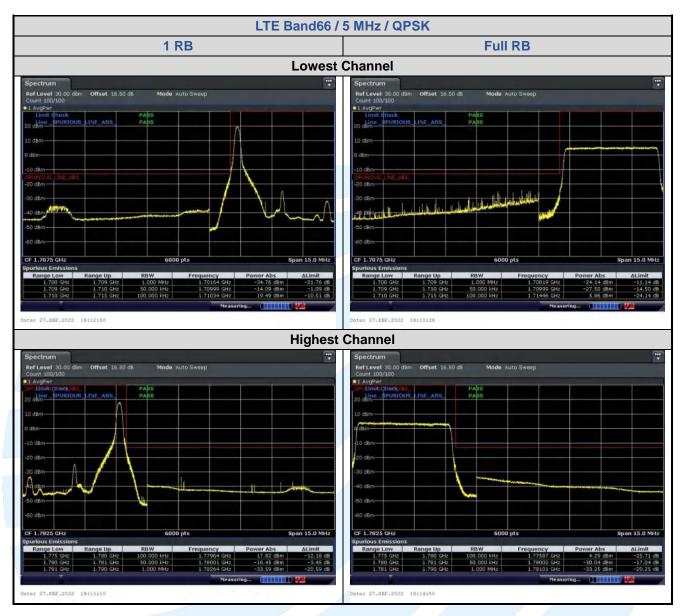
5.6.1 LTE Band 66



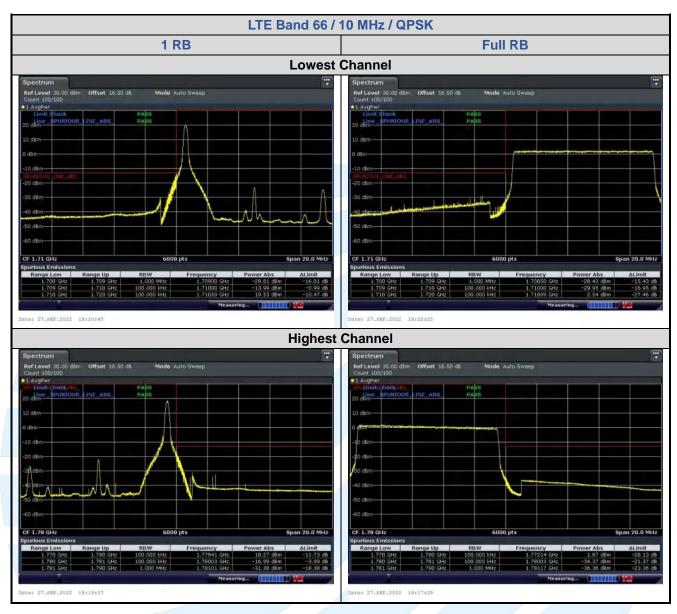




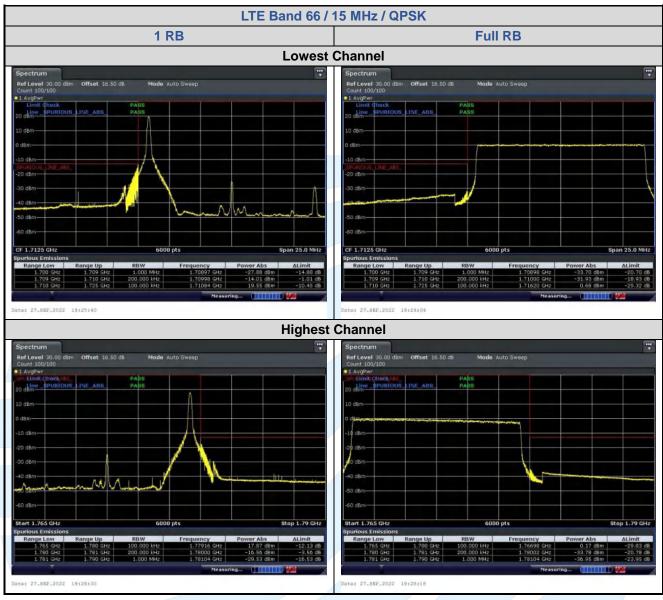




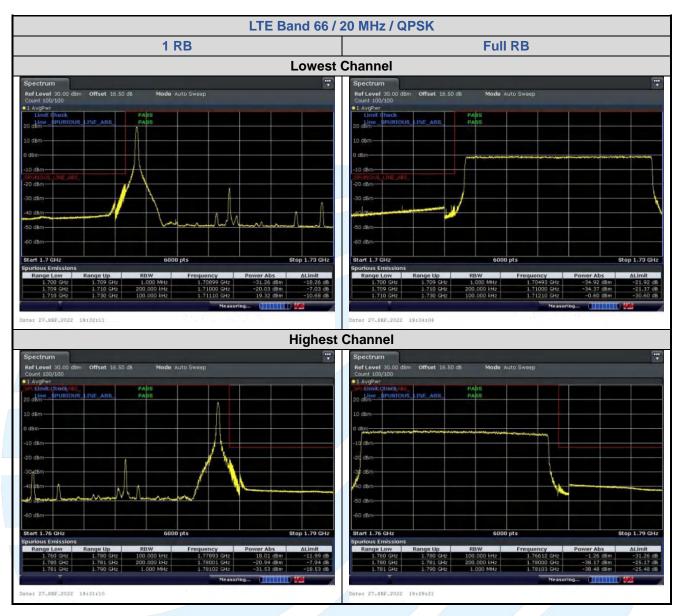




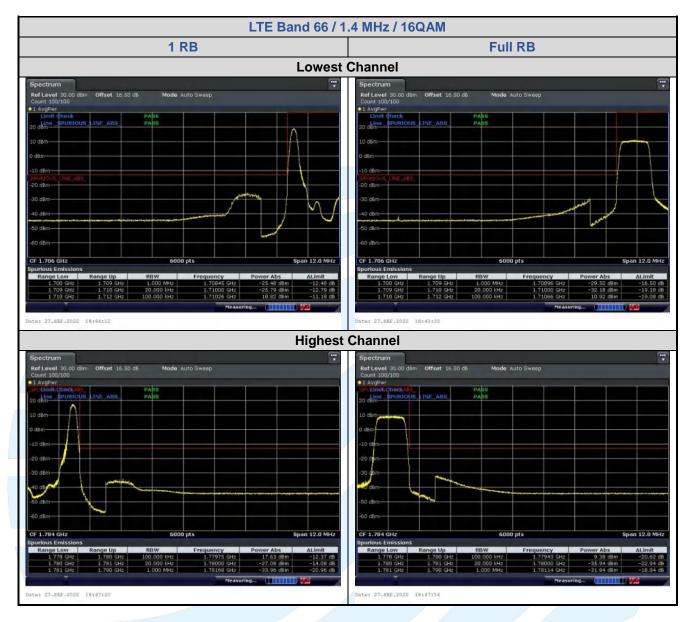




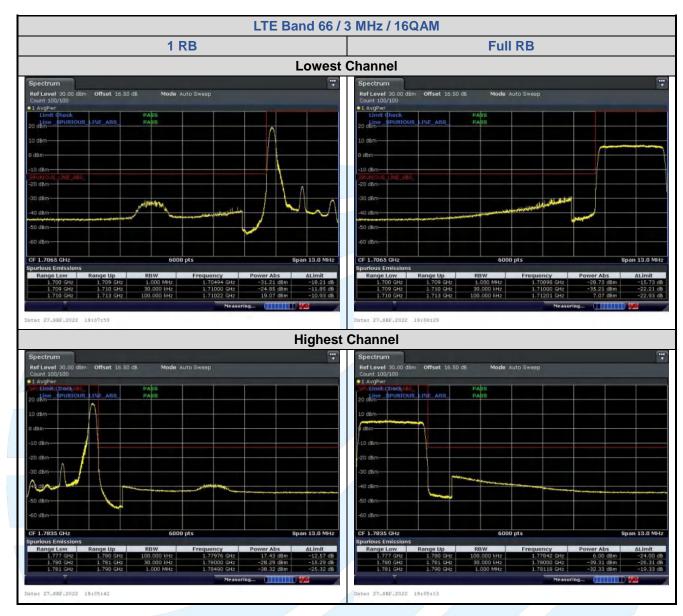




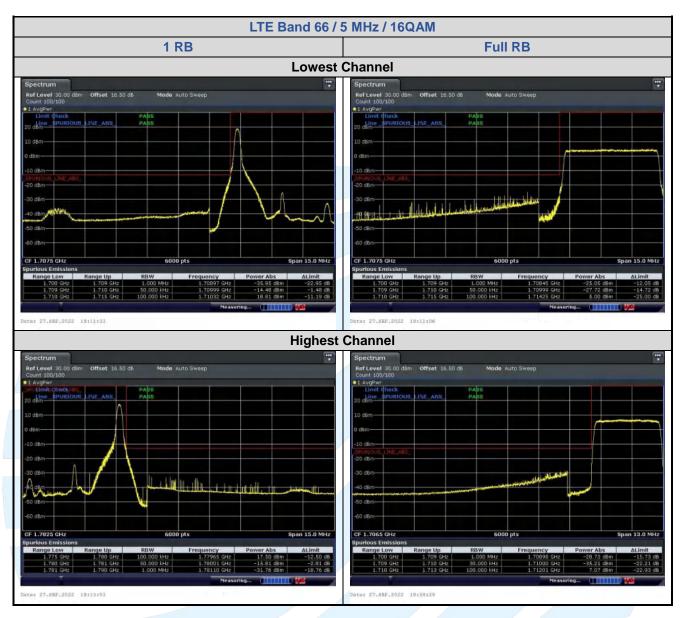




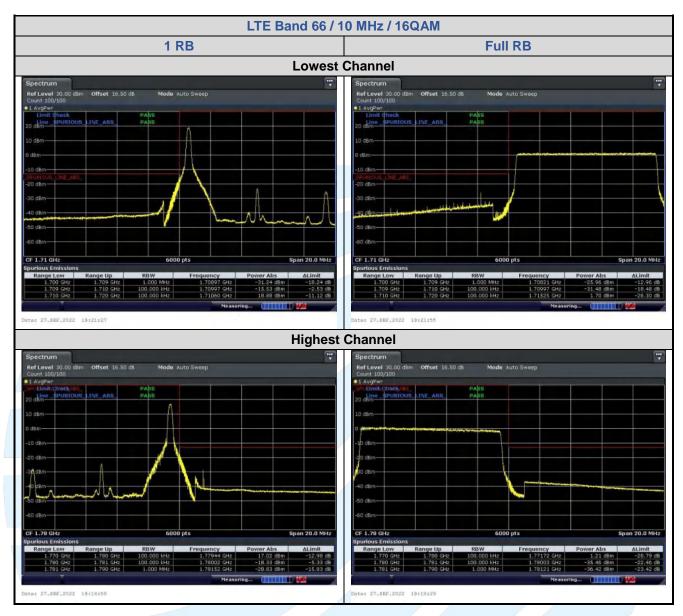




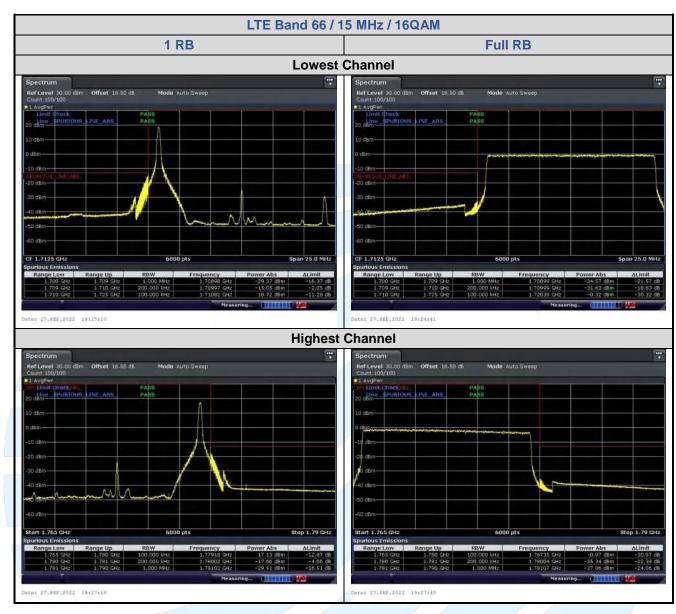




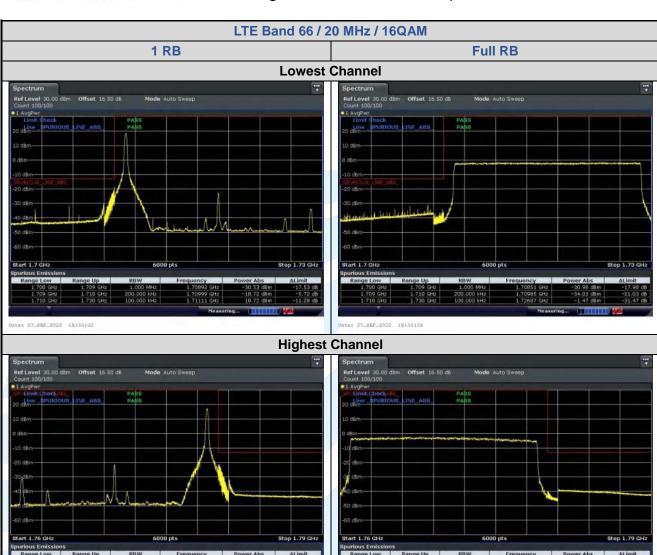




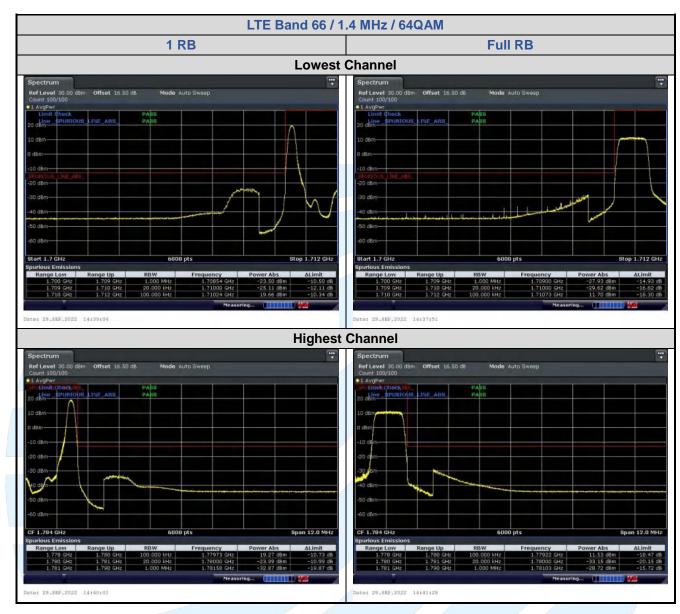




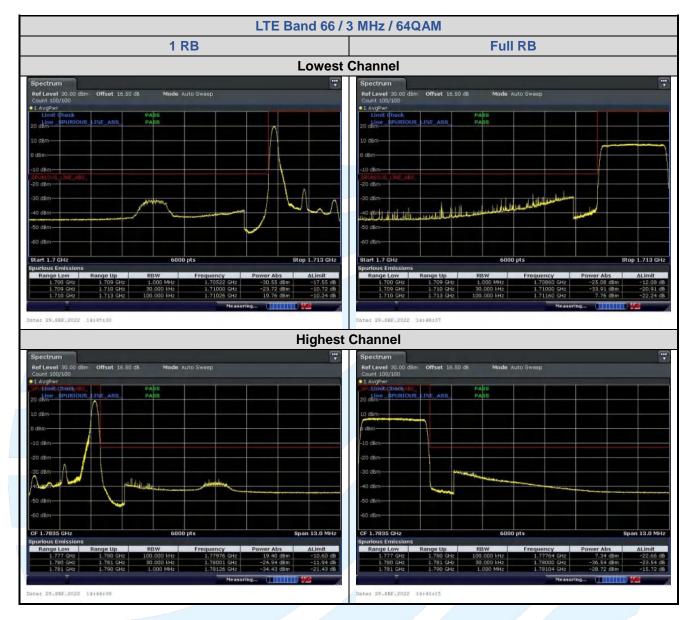








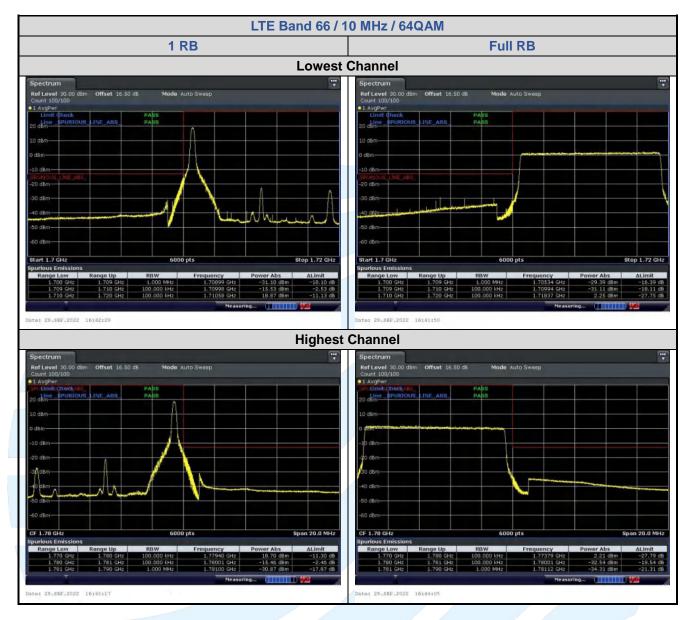




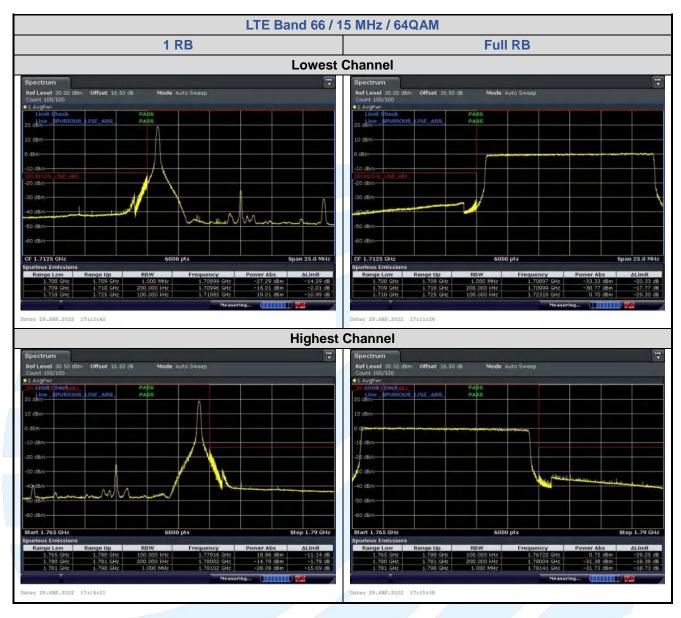




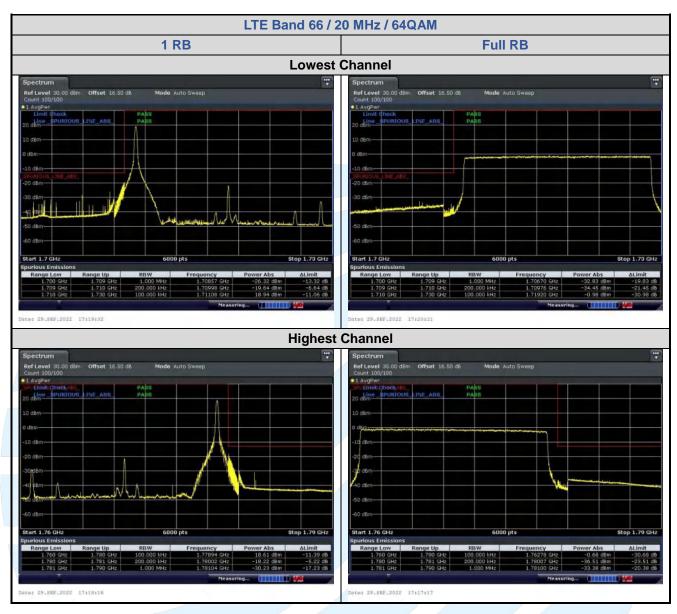












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5.7 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Requirement: LTE Band 2: FCC 47 CFR Part 24.238(a)

LTE Band 4 & LTE Band 66: FCC 47 CFR Part 27.53(h)

LTE Band 5: FCC 47 CFR Part 22.917(a)

LTE Band 12 & Band 17: FCC 47 CFR Part 27.53(g)

LTE Band 30: FCC 47 CFR Part 27.53(a)(4) ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

Test Method:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a), 27.53(g):

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. The emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53(a)(4): For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

- (i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2328 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;
- (ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;
- (iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

Test Procedure:

The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range. b. Measuring frequency range is from 30 MHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

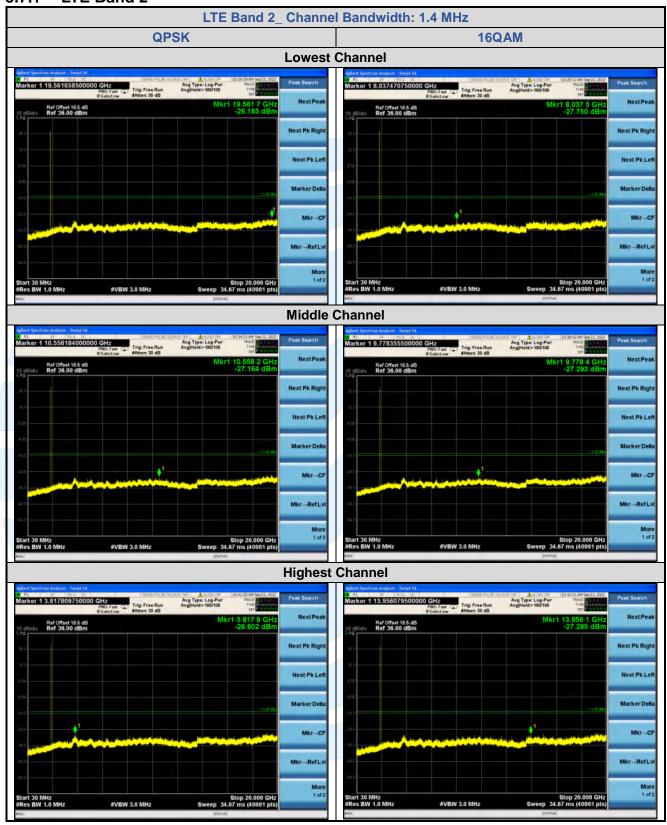
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details. **Instruments Used:** Refer to section 3 for details

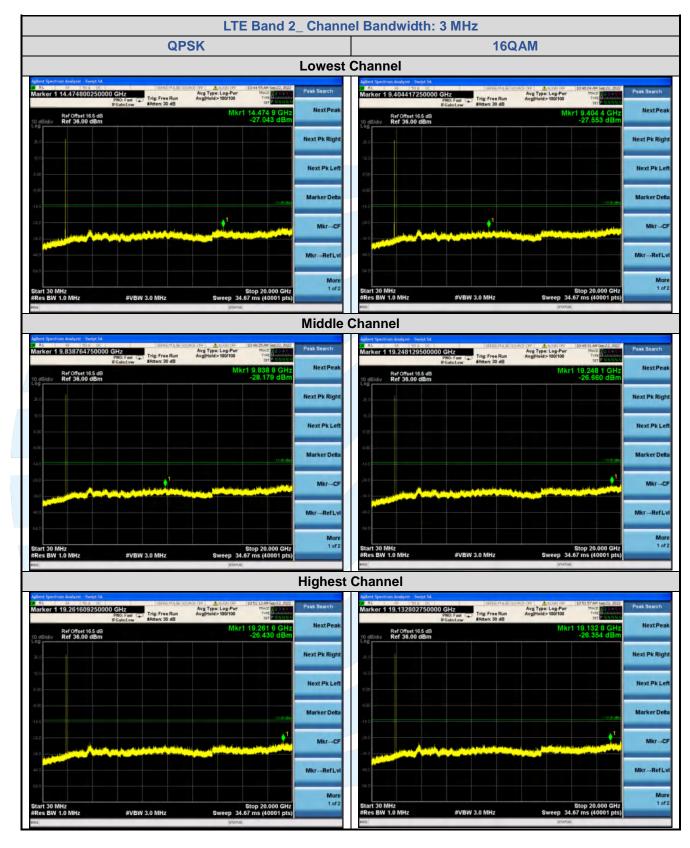
Test Mode: Link mode
Test Results: Pass



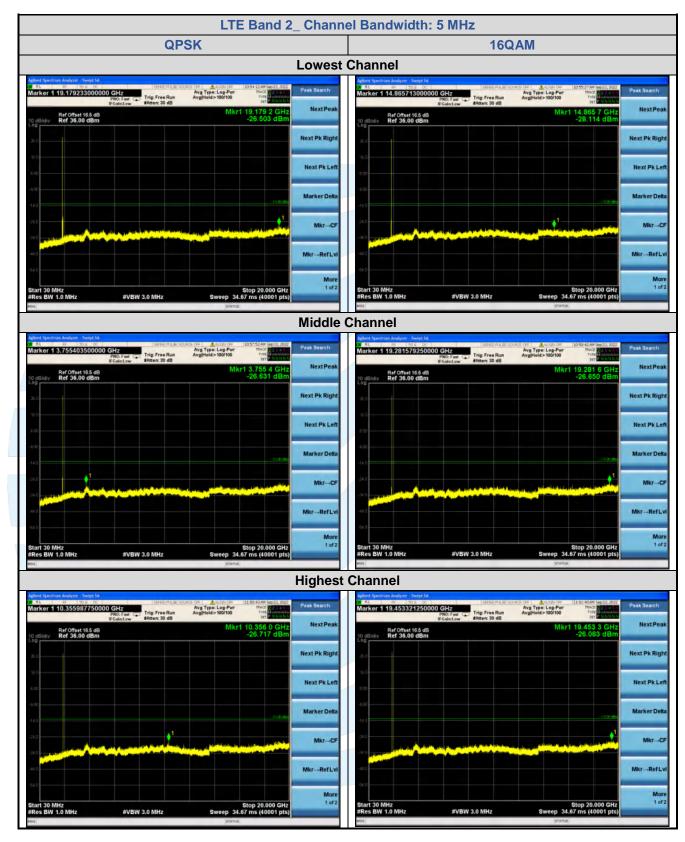
5.7.1 LTE Band 2







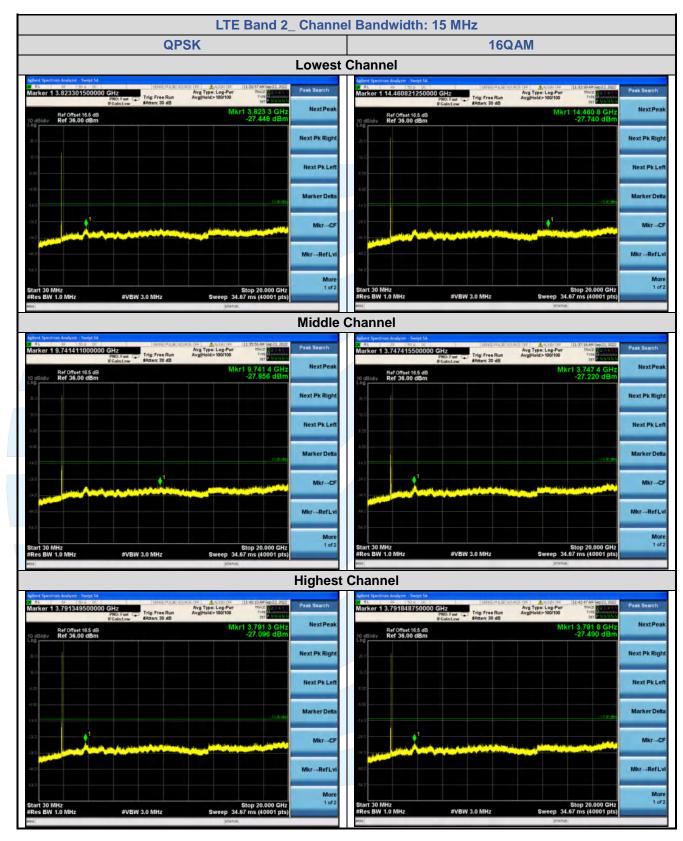






Page 194 of 249 Report No.: 2209171673RFM-1 LTE Band 2_ Channel Bandwidth: 10 MHz **QPSK 16QAM Lowest Channel** ker 1 19.180231500000 GHz Avg Type: Log-Pw AvgiHold:>100/100 Ref Offset 16.5 dB Ref 36.00 dBm Ref Offset 16.5 dB Ref 36.00 dBm Next Pk Righ **Middle Channel** Ref Offset 16.5 dB Ref 36.00 dBm Ref Offset 16.5 dB Ref 36.00 dBm Marker Delt Mkr→CF #VBW 3.0 MHz **Highest Channel** Ref Offset 16.5 dB Ref 36.00 dBm Ref Offset 16.5 dB Ref 36.00 dBm Marker Del Marker Delt

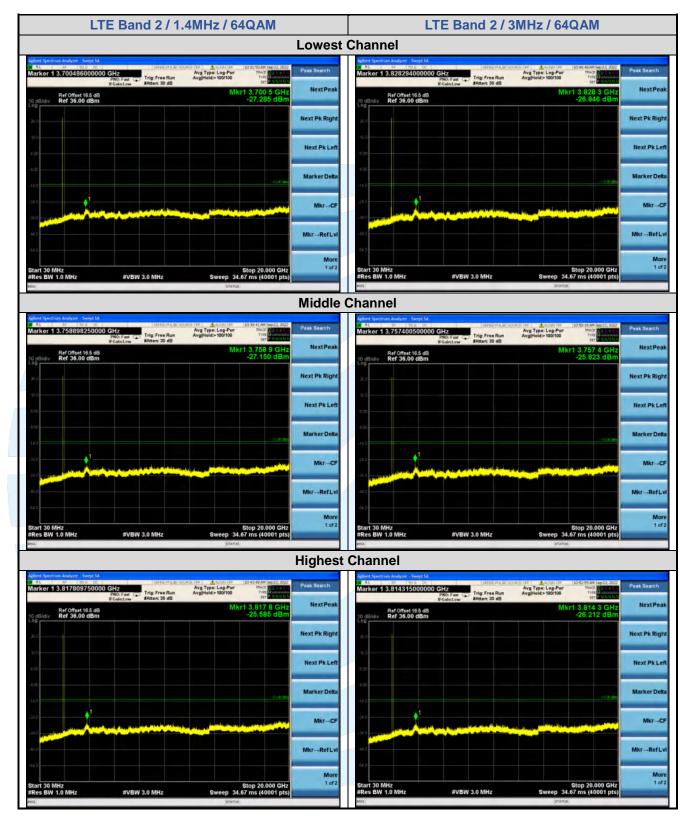




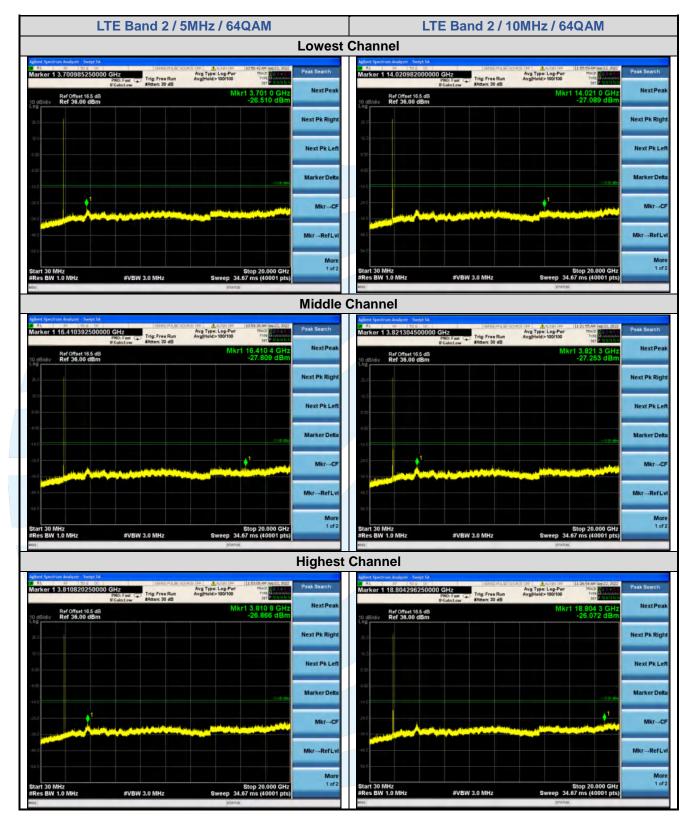


Report No.: 2209171673RFM-1 LTE Band 2_ Channel Bandwidth: 20 MHz **QPSK 16QAM Lowest Channel** ker 1 3.701983750000 GHz Avg Type: Log-Pw Avg(Hold:>100/100 Ref Offset 16.5 dB Ref 36.00 dBm Ref Offset 16.5 dB Ref 36.00 dBm Next Pk Righ **Middle Channel** Ref Offset 16.5 dB Ref 36.00 dBm Marker Delt Mkr→CF #VBW 3.0 MHz **Highest Channel** larker 1 19.185723250000 GHz Ref Offset 16.5 dB Ref 36.00 dBm Ref Offset 16.5 dB Ref 36.00 dBm Marker Delt





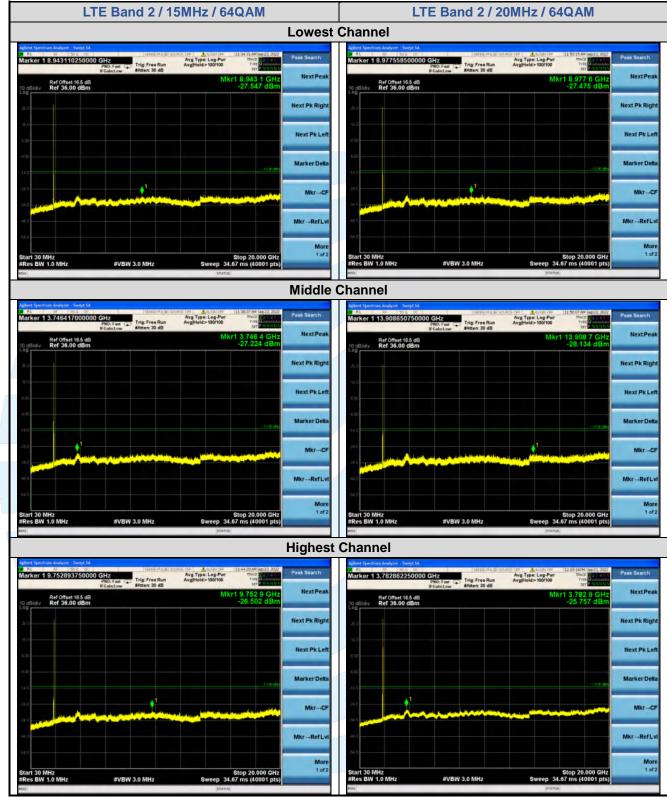






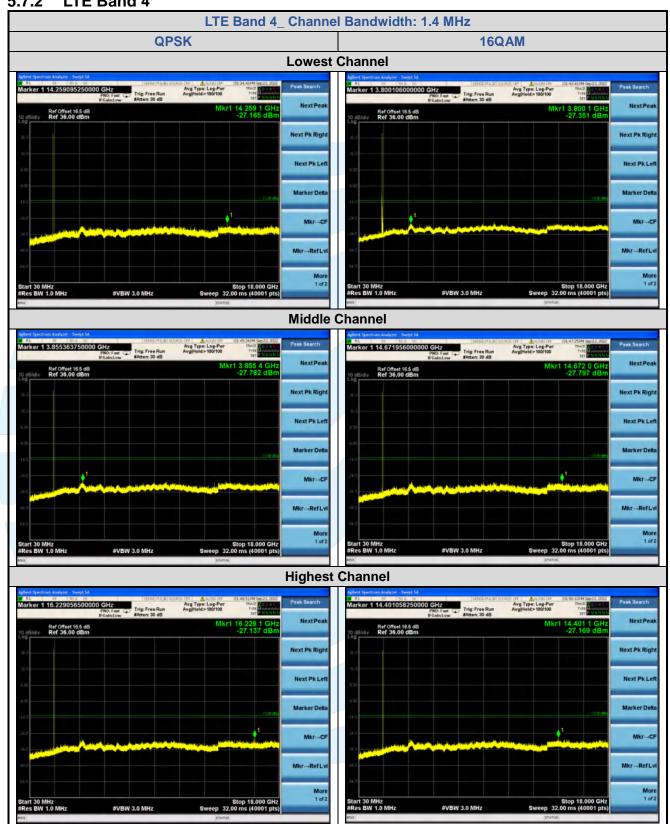
Report No.: 2209171673RFM-1

Band 2 / 20MHz / 64QAM



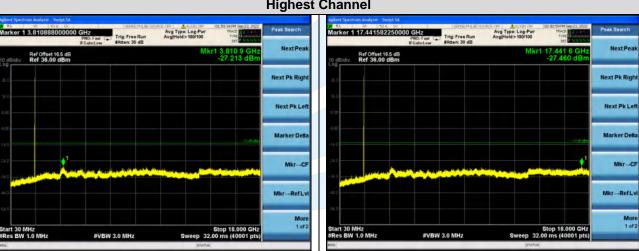


5.7.2 LTE Band 4





Page 201 of 249 Report No.: 2209171673RFM-1 LTE Band 4 Channel Bandwidth: 3 MHz **QPSK 16QAM Lowest Channel** ker 1 10.291319250000 GHz Avg Type: Log-Pw AvgiHold:>100/100 Ref Offset 16.5 dB Ref 36.00 dBm Ref Offset 16.5 dB Ref 36.00 dBm Next Pk Righ **Middle Channel** Ref Offset 16.5 dB Ref 36.00 dBm Ref Offset 16.5 dB Ref 36.00 dBm Marker Delt Mkr→CF #VBW 3.0 MHz **Highest Channel** Ref Offset 16.5 dB Ref 36.00 dBm Ref Offset 16.5 dB Ref 36.00 dBm





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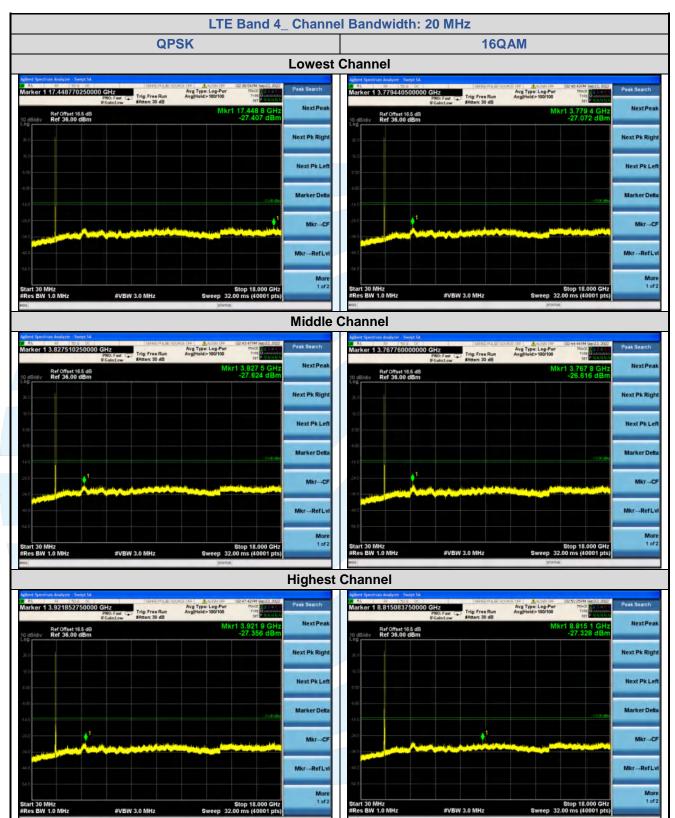


LTE Band 4 Channel Bandwidth: 10 MHz **QPSK 16QAM Lowest Channel** Avg Type: Log-Pw AvgiHold:>100/100 Ref Offset 16.5 dB Ref 36.00 dBm Ref Offset 16.5 dB Ref 36.00 dBm Next Pk Righ **Middle Channel** Ref Offset 16.5 dB Ref 36.00 dBm Ref Offset 16.5 dB Ref 36.00 dBm Marker Delt Mkr→CF #VBW 3.0 MHz **Highest Channel** Ref Offset 16.5 dB Ref 36.00 dBm Ref Offset 16.5 dB Ref 36.00 dBm Marker Del Marker Delt

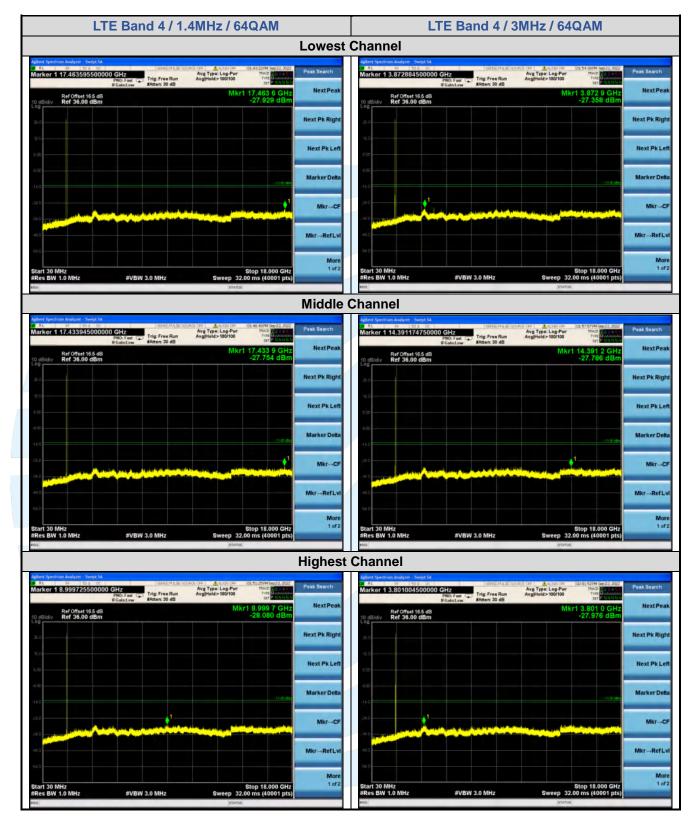


LTE Band 4 Channel Bandwidth: 15 MHz **QPSK 16QAM Lowest Channel** ker 1 9.843417000000 GHz Avg Type: Log-Pw Avg(Hold:>100/100 Ref Offset 16.5 dB Ref 36.00 dBm Next Pk Righ **Middle Channel** Ref Offset 16.5 dB Ref 36.00 dBm Ref Offset 16.5 dB Ref 36.00 dBm Marker Delt Mkr→CF #VBW 3.0 MHz **Highest Channel** Ref Offset 16.5 dB Ref 36.00 dBm Ref Offset 16.5 dB Ref 36.00 dBm Marker Del Marker Delt

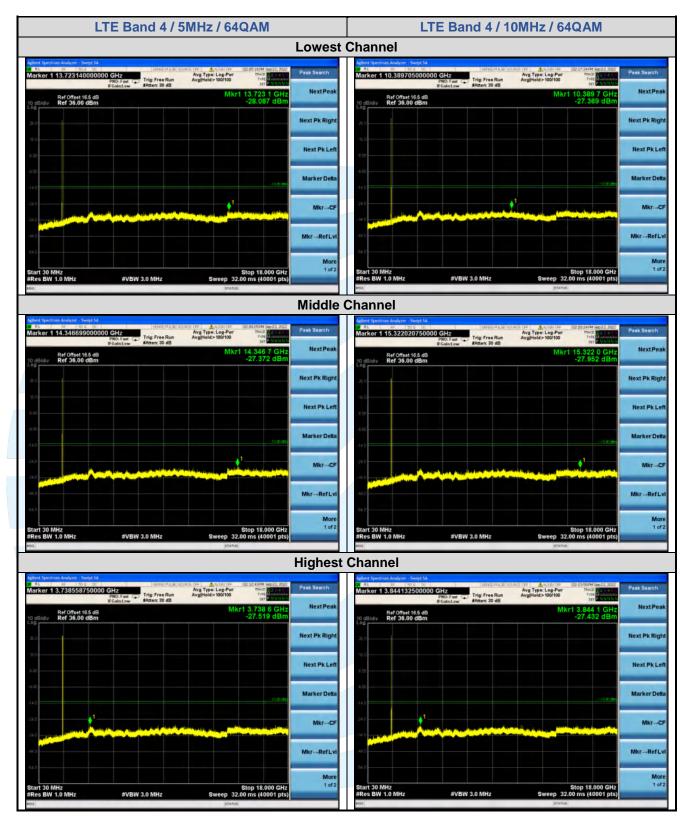




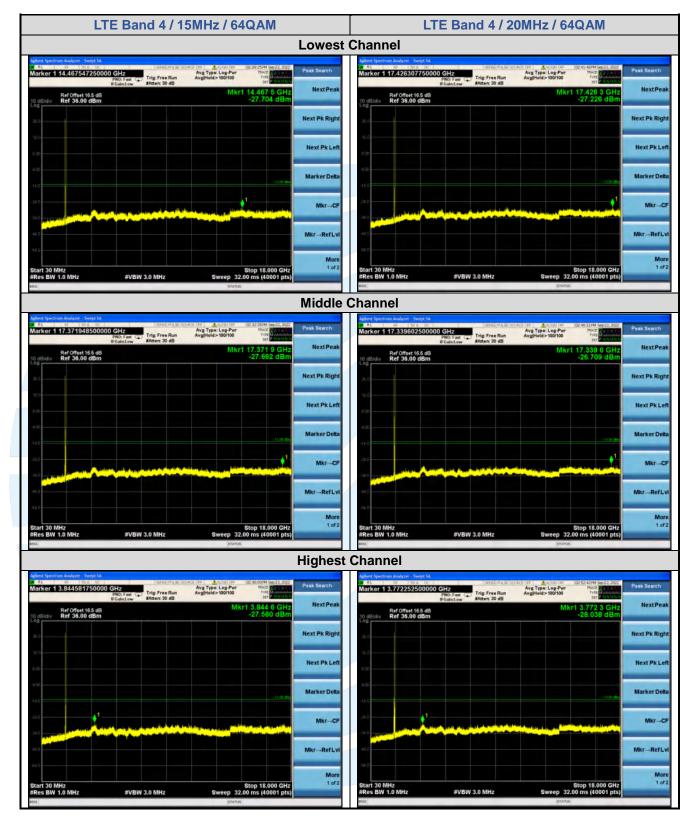








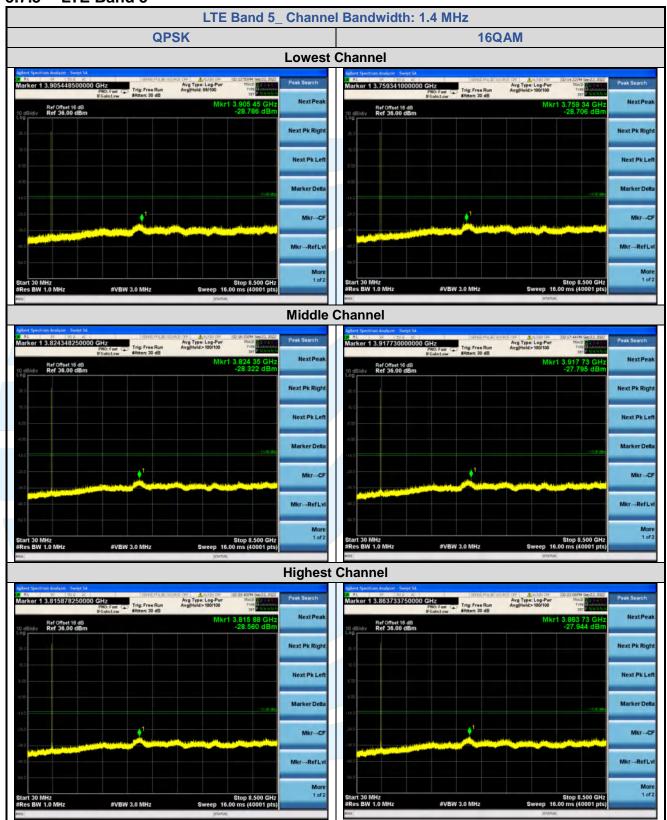






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5.7.3 LTE Band 5





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