

5.7 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Requirement: **LTE Band 2:** FCC 47 CFR Part 24.238(a), RSS-133 Issue 6, Section 6.5
LTE Band 4 & LTE Band 66: FCC 47 CFR Part 27.53(h), RSS-139 Issue 3, Section 6.6
LTE Band 5 & LTE Band 26: FCC 47 CFR Part 22.917(a), RSS-132 Issue 3, Section 5.5
LTE Band 7 & Band 38 & Band 41: FCC 47 CFR Part 27.53(m)(4), RSS-199 Issue 3, Section 4.5
LTE Band 12: FCC 47 CFR Part 27.53(g), RSS-130 Issue 2, Section 4.7
LTE Band 13: FCC 47 CFR Part 27.53, RSS-130 Issue 2, Section 4.7
LTE Band 26: FCC 47 CFR Part 90.691

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a), 27.53(g), 27.53(c)(2), 90.691:

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(m)(4):

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 $55 + 10 \log(P)$ dB. The emission limit equal to -25 dBm.

RSS-132 Issue 3, Section 5.5, RSS-133 Issue 6, Section 6.6, RSS-139 Issue 3, Section 6.5, RSS-130 Issue 2, Section 4.7:

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.

RSS-199 Issue 3, Section 4.5:

The minimum permissible attenuation level of any spurious emissions is $55 + 10 \log(P)$ dB where transmitting power (P) in Watts. The emission limit equal to -25 dBm.

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.

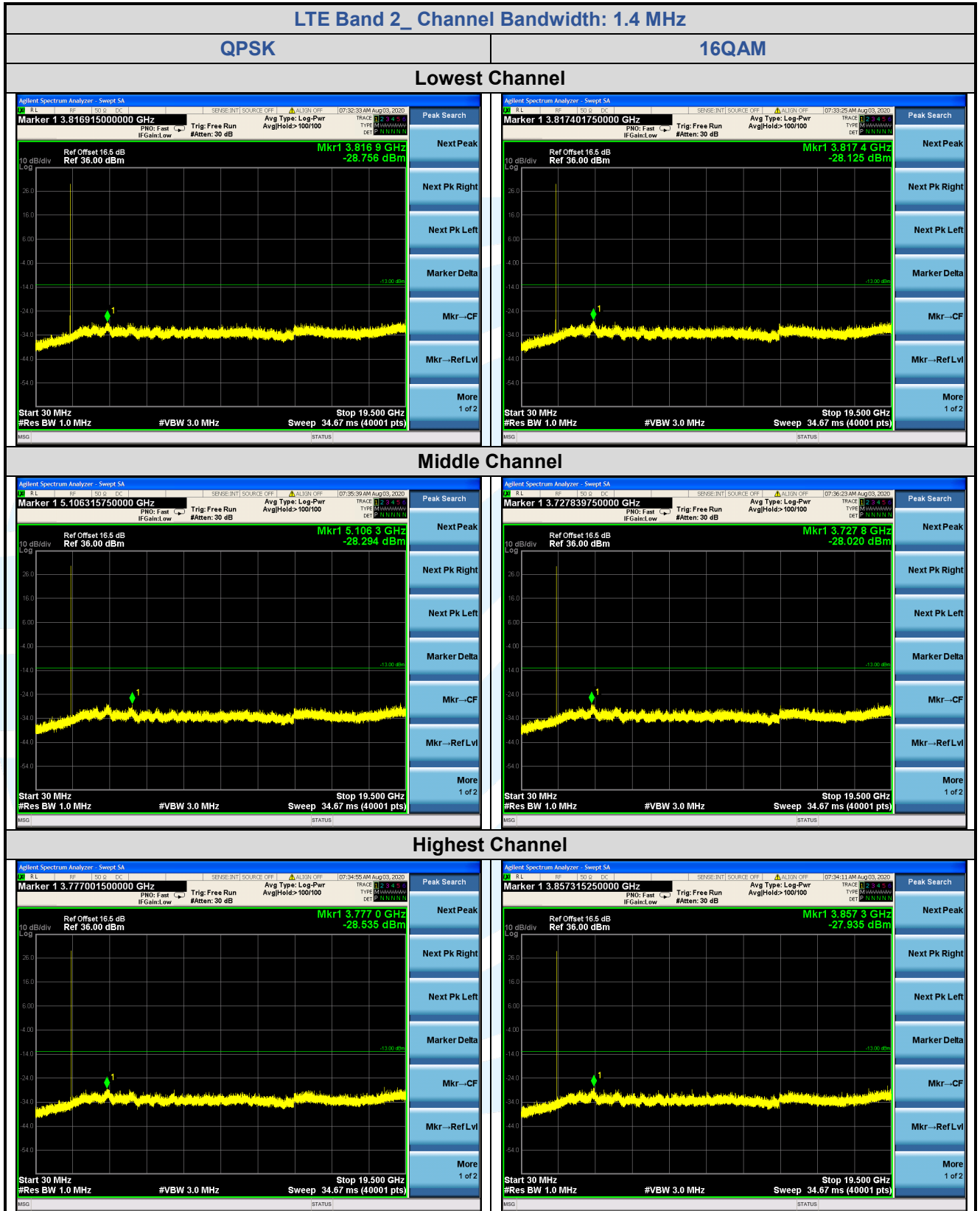
Test Setup: Refer to section 4.2.2 for details.

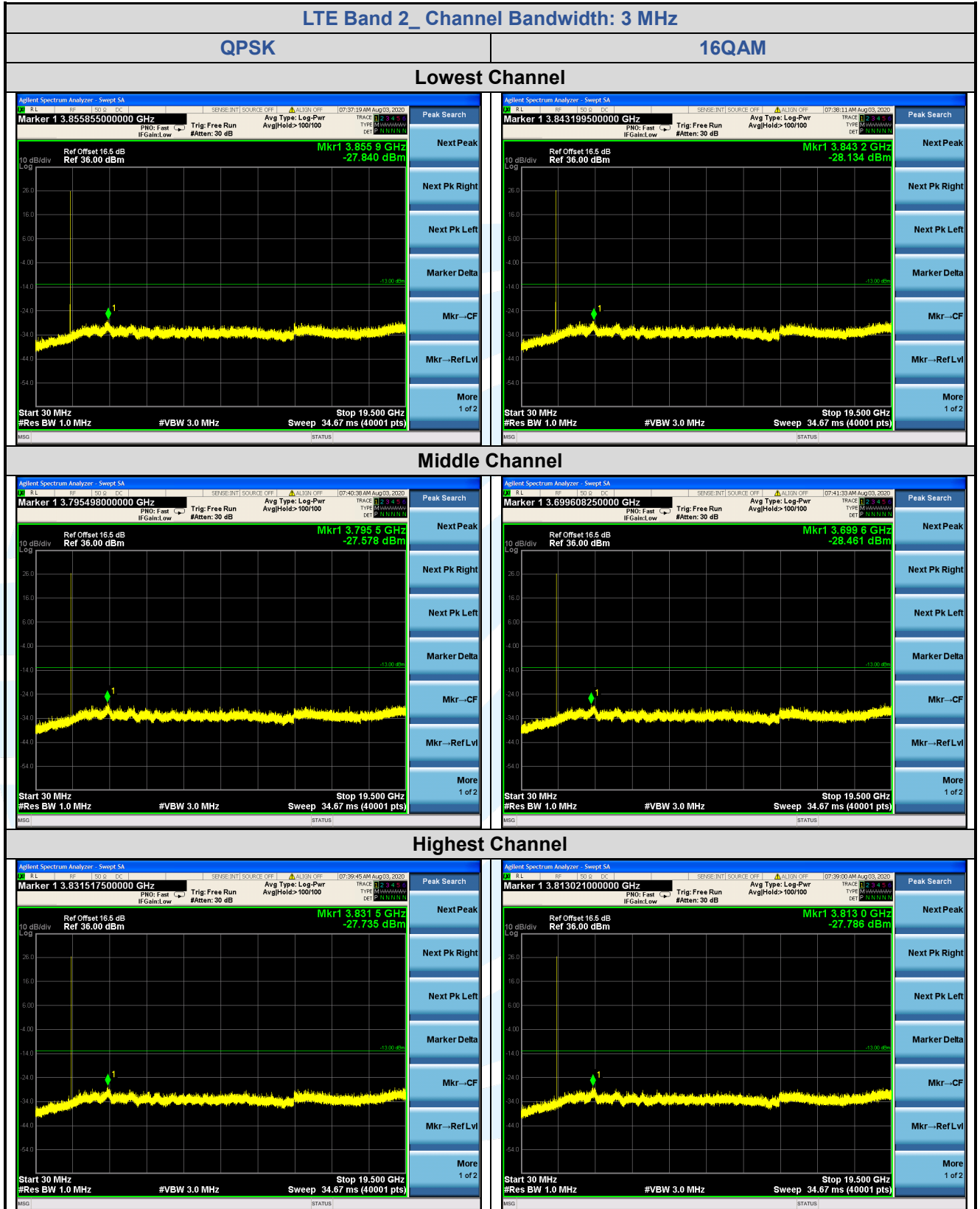
Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

5.7.1 LTE Band 2





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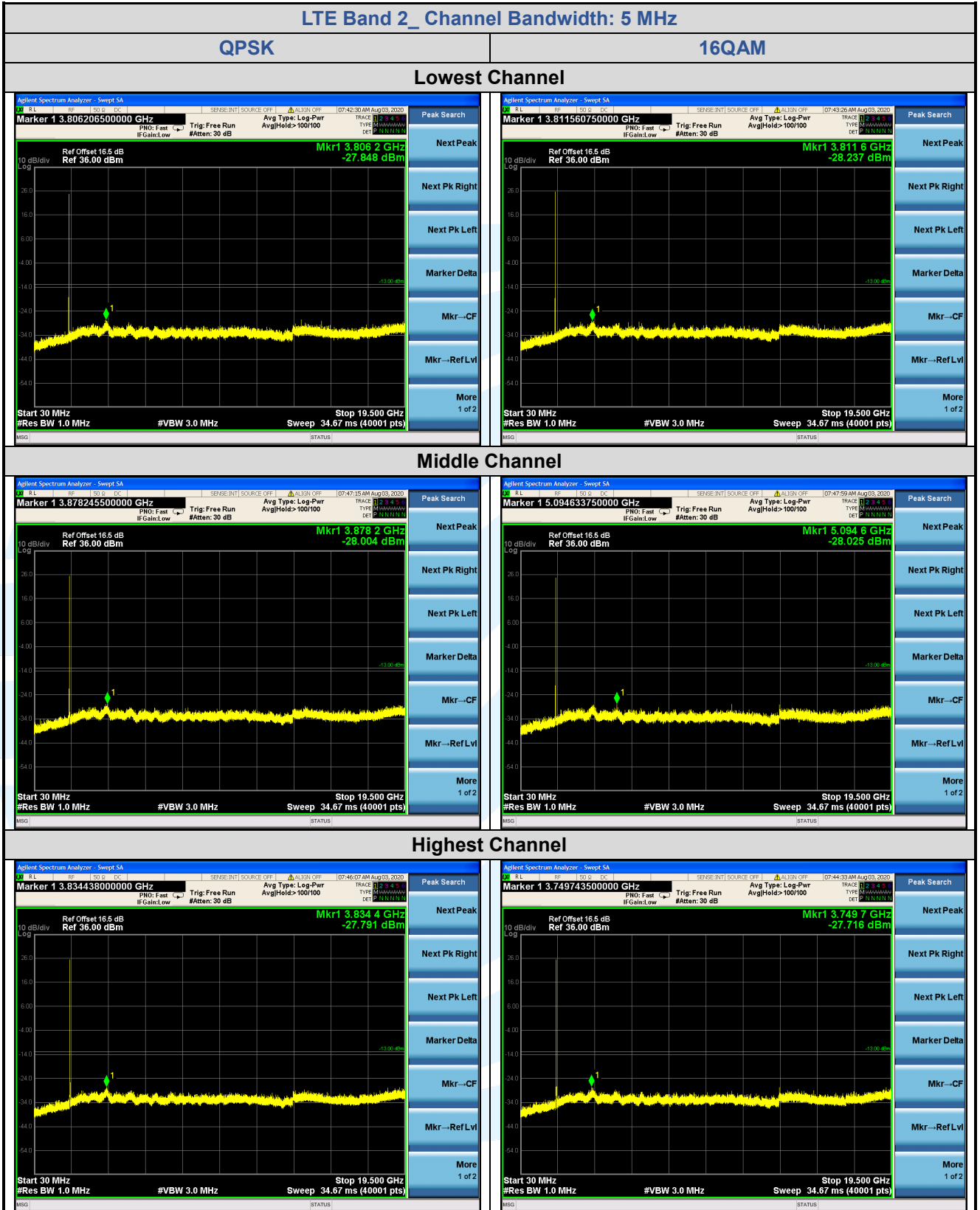
Tel: +86-755-28230888

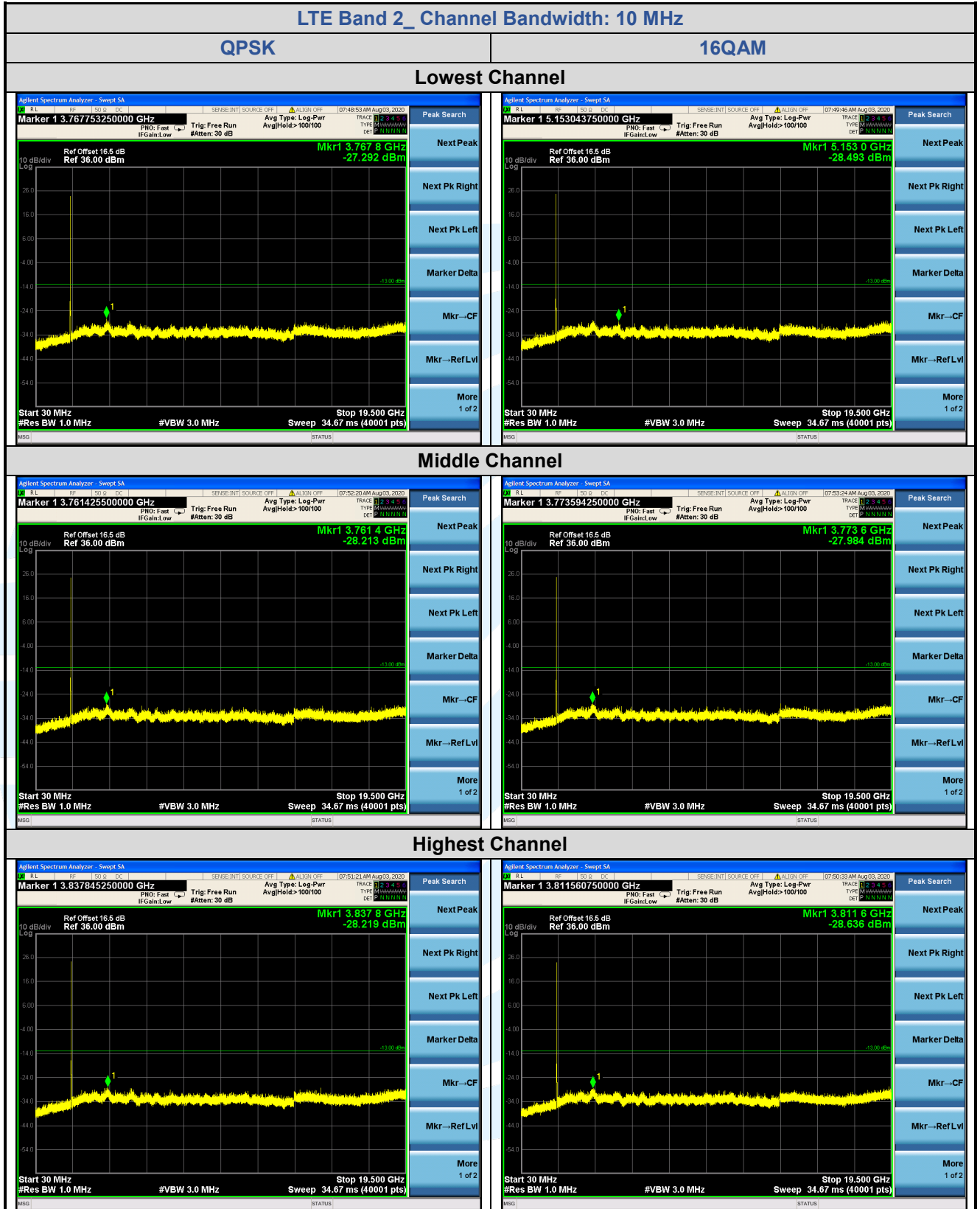
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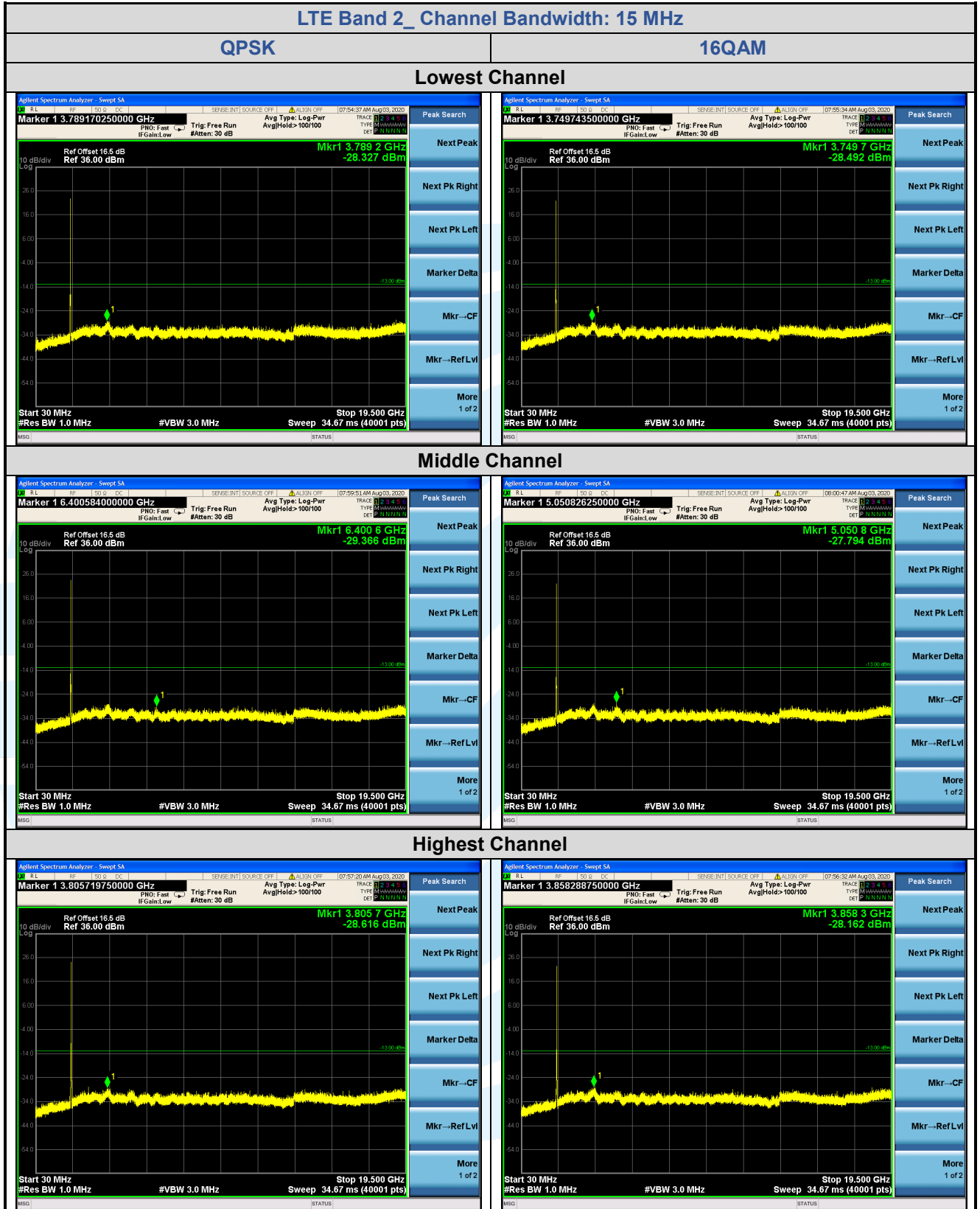
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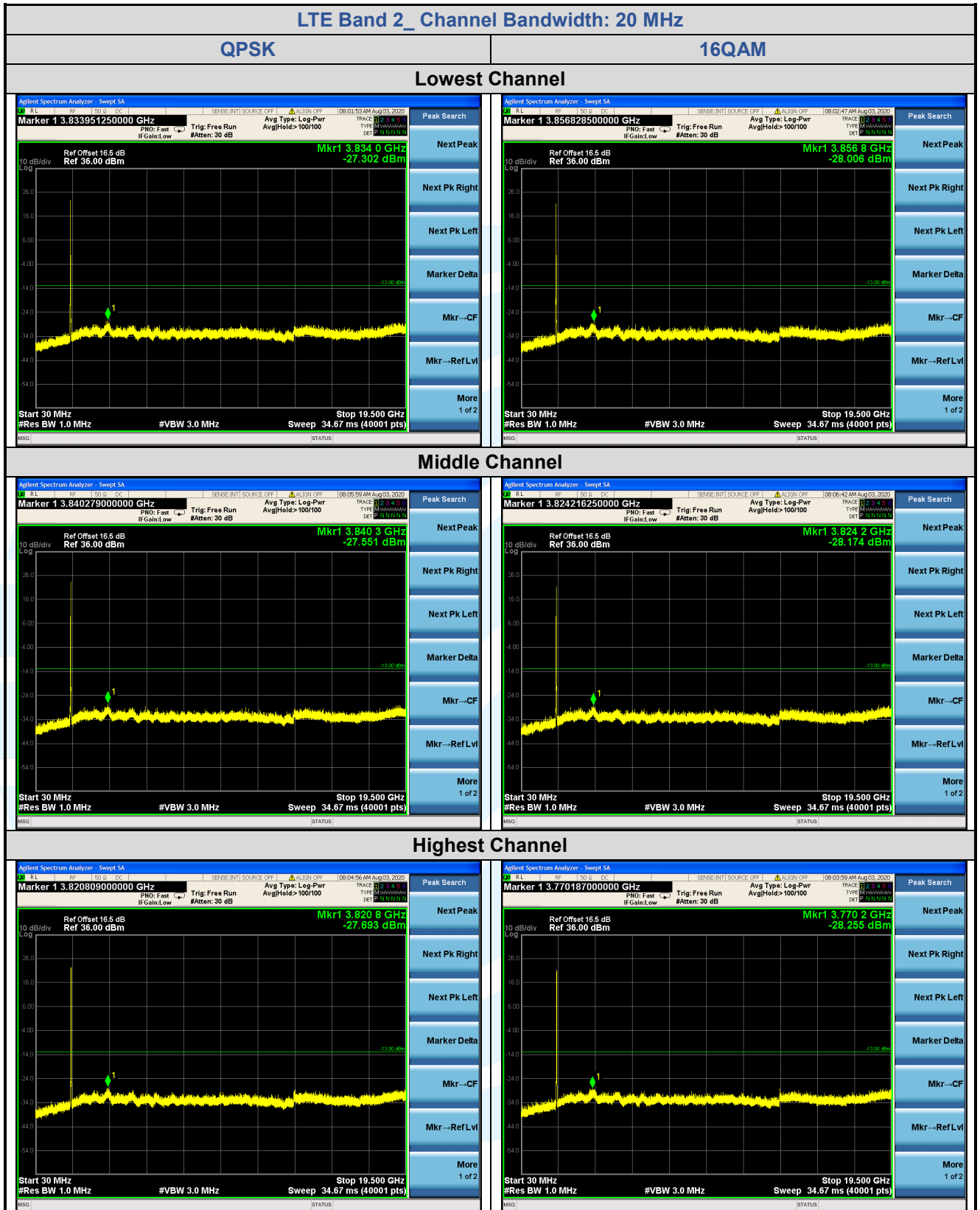
Fax: +86-755-28230886

E-mail: info@uttlab.com

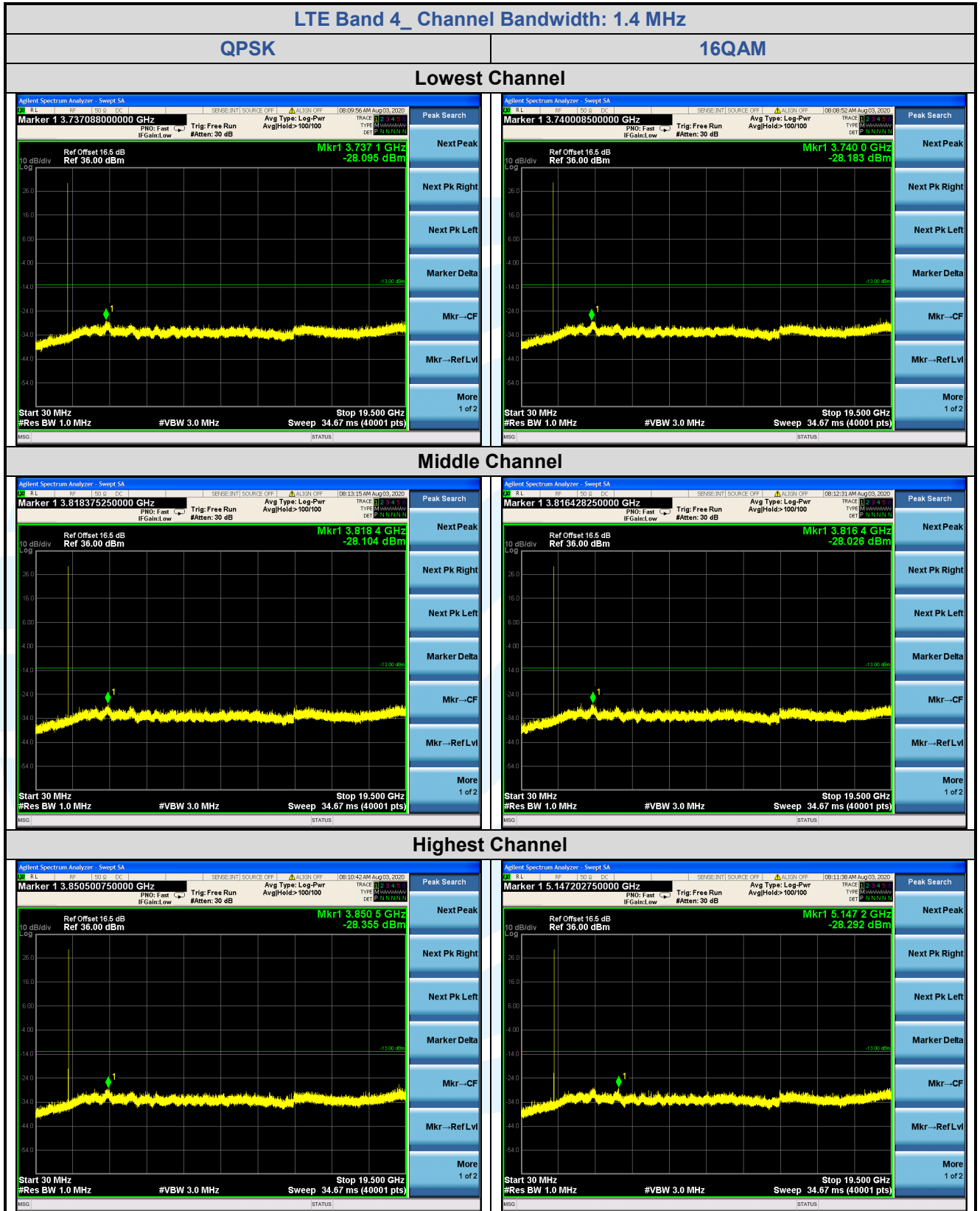
<http://www.uttlab.com>

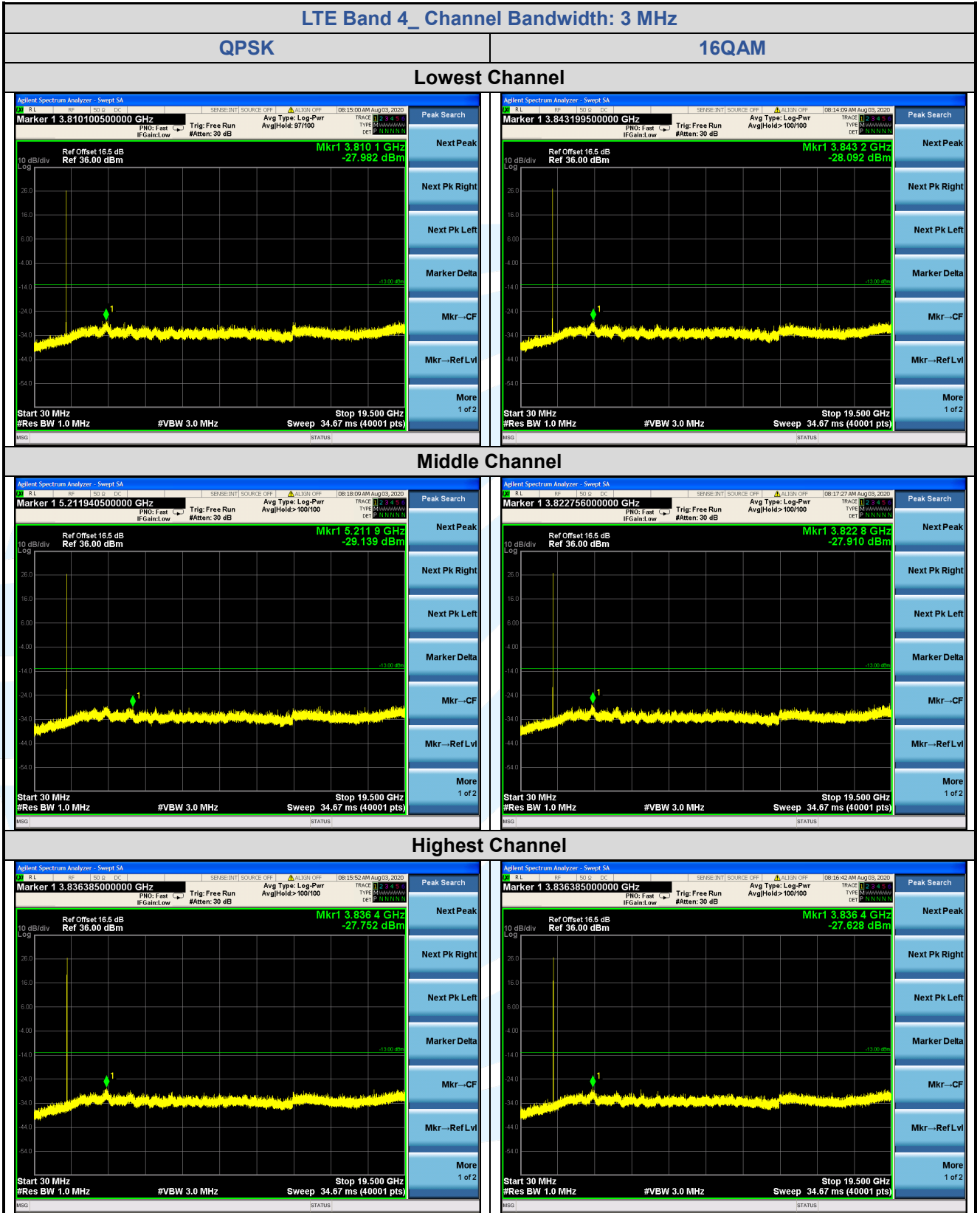
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5.7.2 LTE Band 4





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