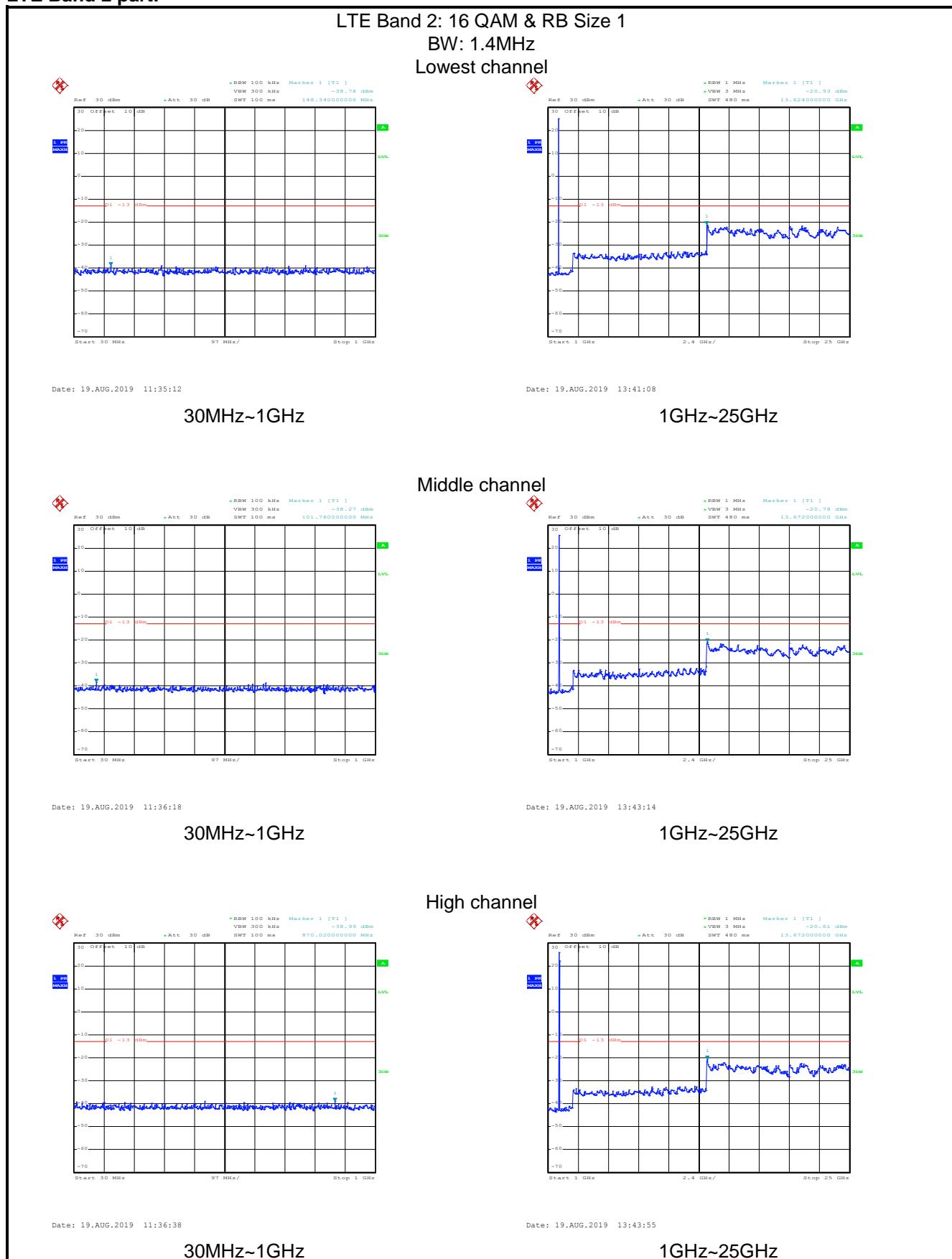
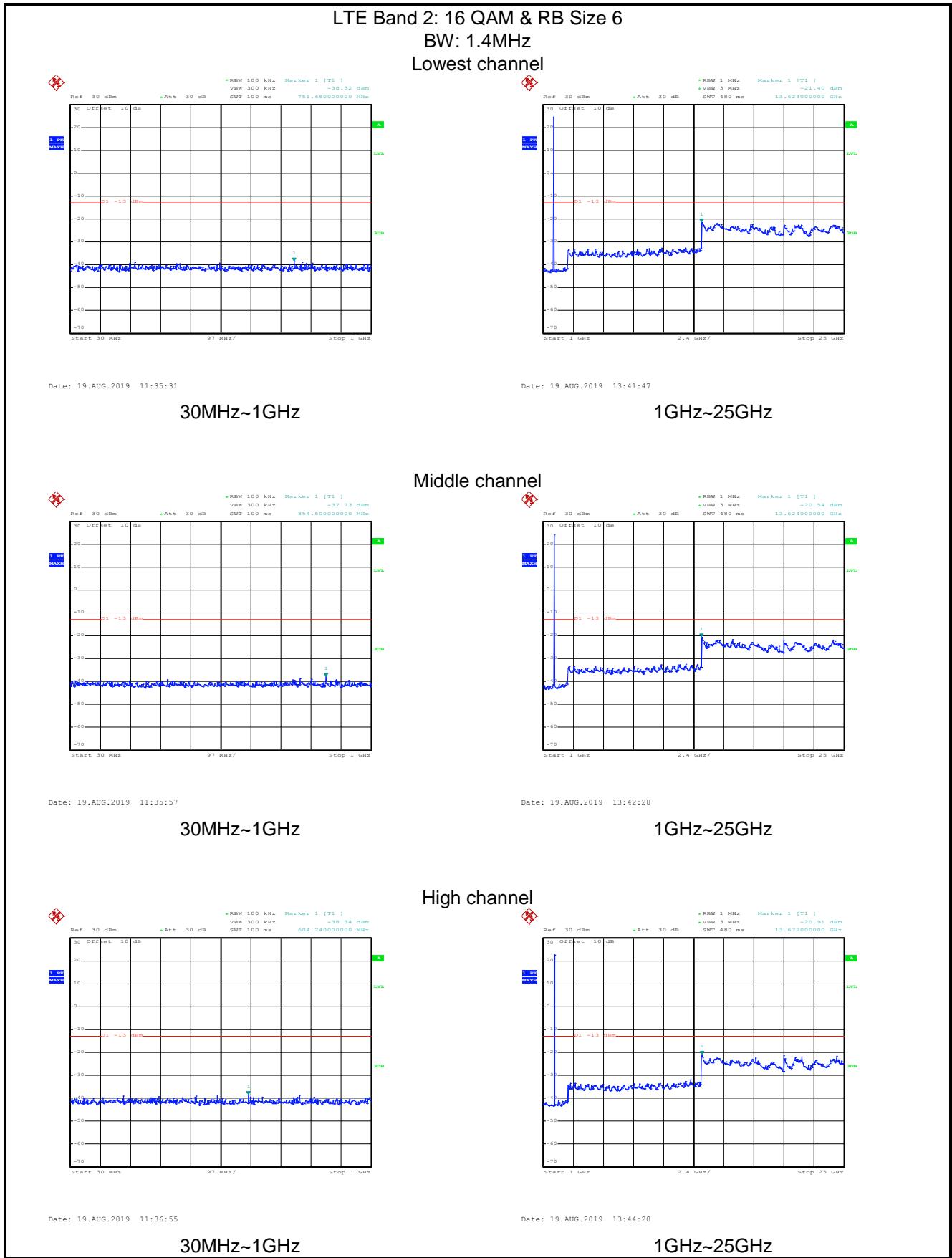


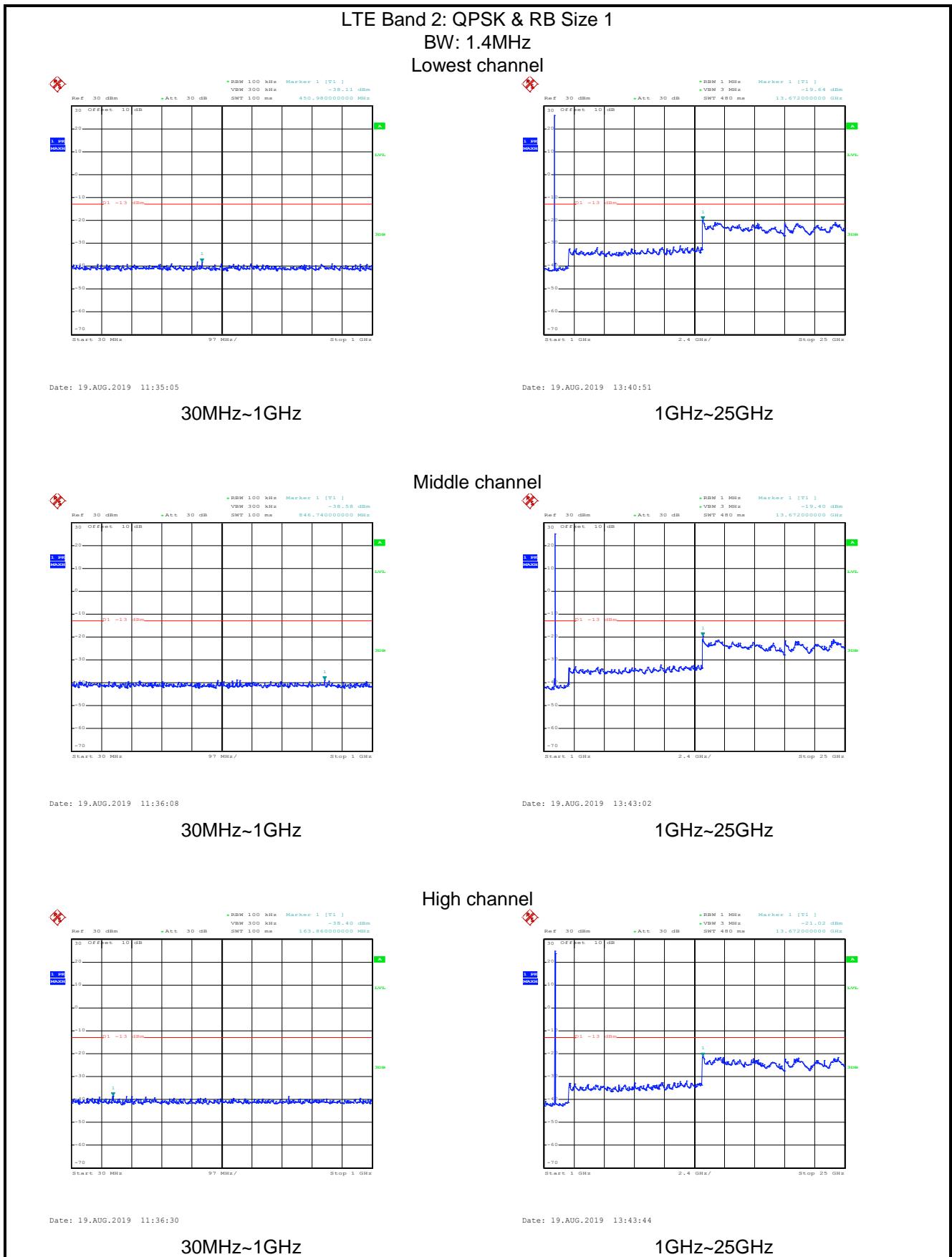
6.4 Out of band emission at antenna terminals

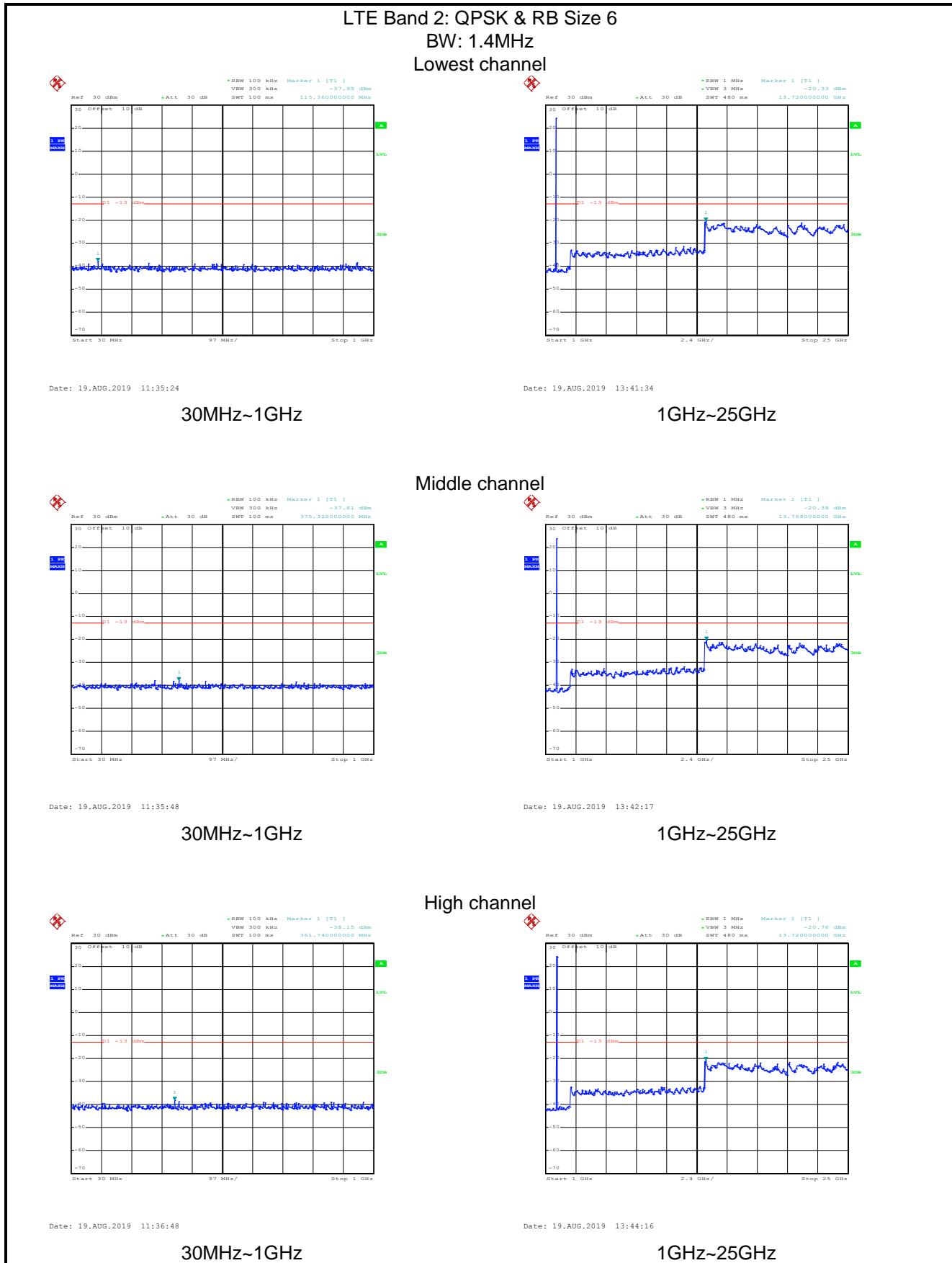
Test Requirement:	Part 22.917(b), Part 24.238 (a), part 27.53(h), Part 27.53(m)
Limit:	<p>LTE Band 2 & 4 & 5: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB (-13 dBm).</p> <p>LTE Band 7: 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.</p>
Test Setup:	<p>System simulator</p> <p>Spectrum Analyzer</p> <p>Splitter</p> <p>ATT</p> <p>EUT</p>
Test Procedure:	<ol style="list-style-type: none"> The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz when below 1GHz, 1MHz when above 1 GHz; sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic. For the out of band: Set the RBW=100 kHz, VBW=300 kHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic. Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	Pre-scan all RB Size and offset, and found the RB Size and offset of worst case, so the report shows only the worst case test data.

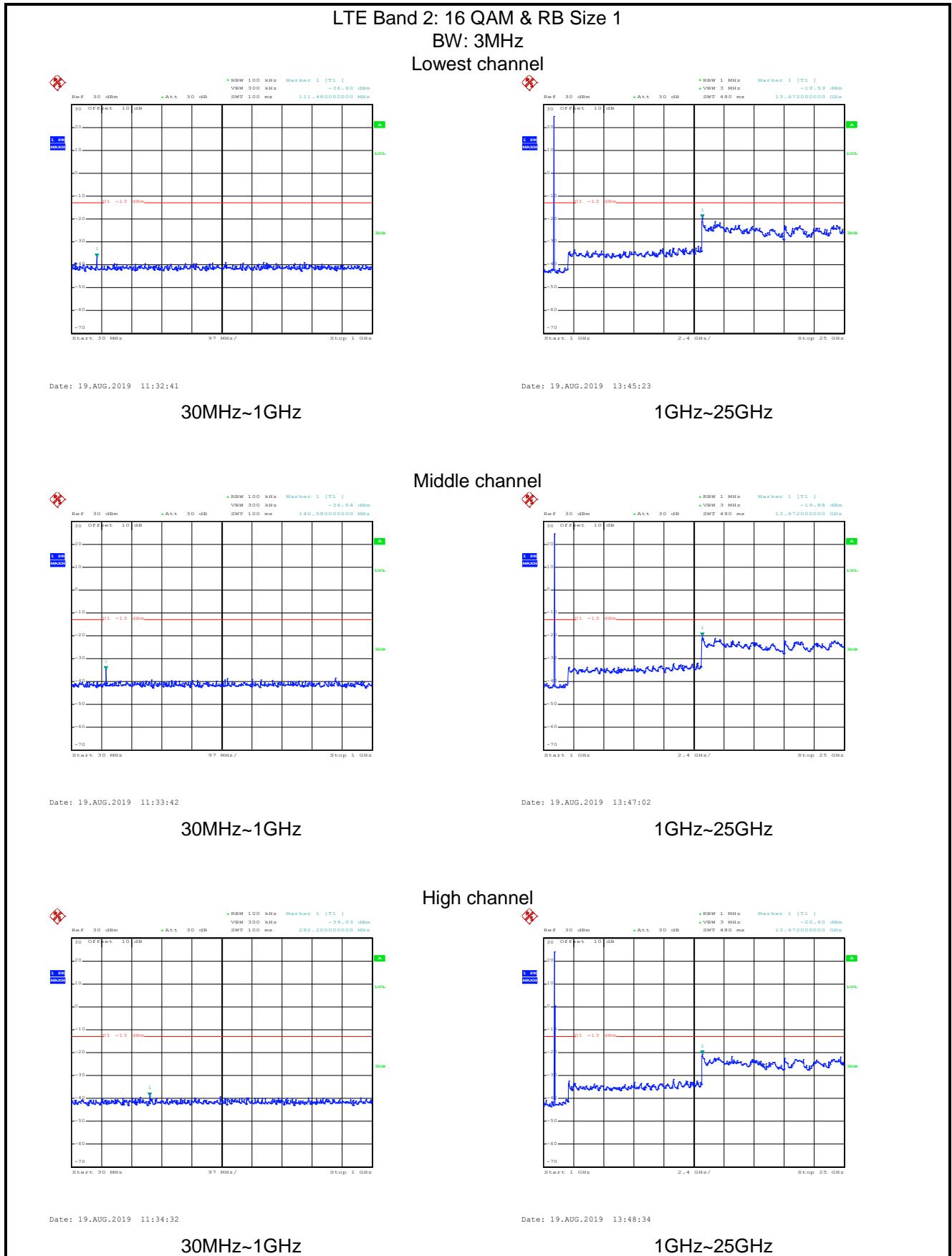
**Test plots as follows (Conducted spurious emission) (worst case):
LTE Band 2 part:**







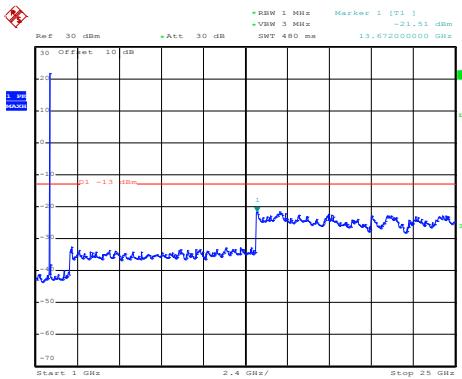
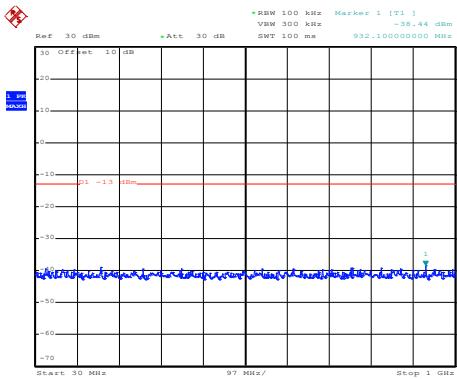




LTE Band 2: 16 QAM & RB Size 15

BW: 3MHz

Lowest channel



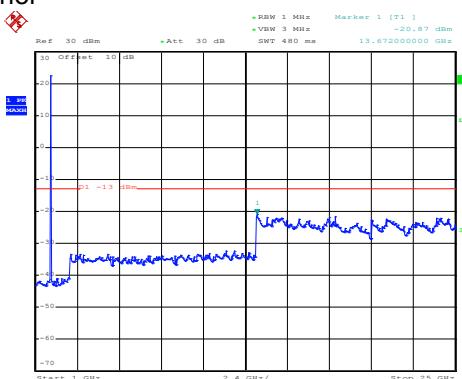
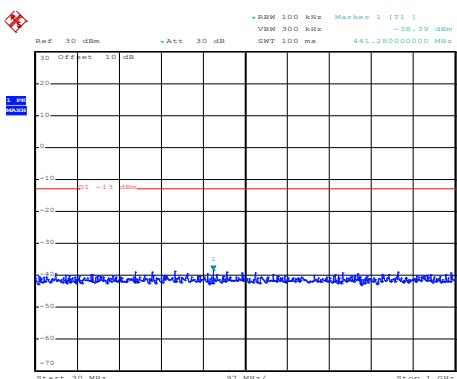
Date: 19.AUG.2019 11:33:02

30MHz~1GHz

Date: 19.AUG.2019 13:45:52

1GHz~25GHz

Middle channel



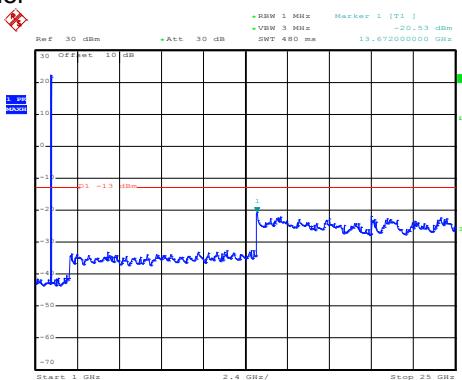
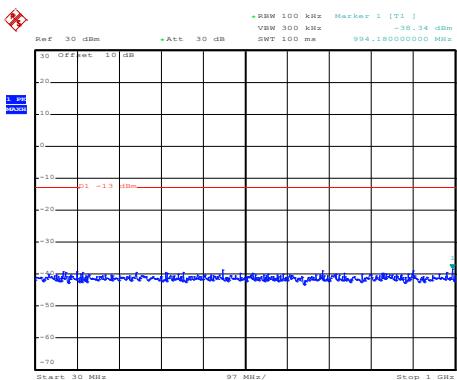
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30MHz~1GHz

Date: 19.AUG.2019 13:46:23

1GHz~25GHz

High channel

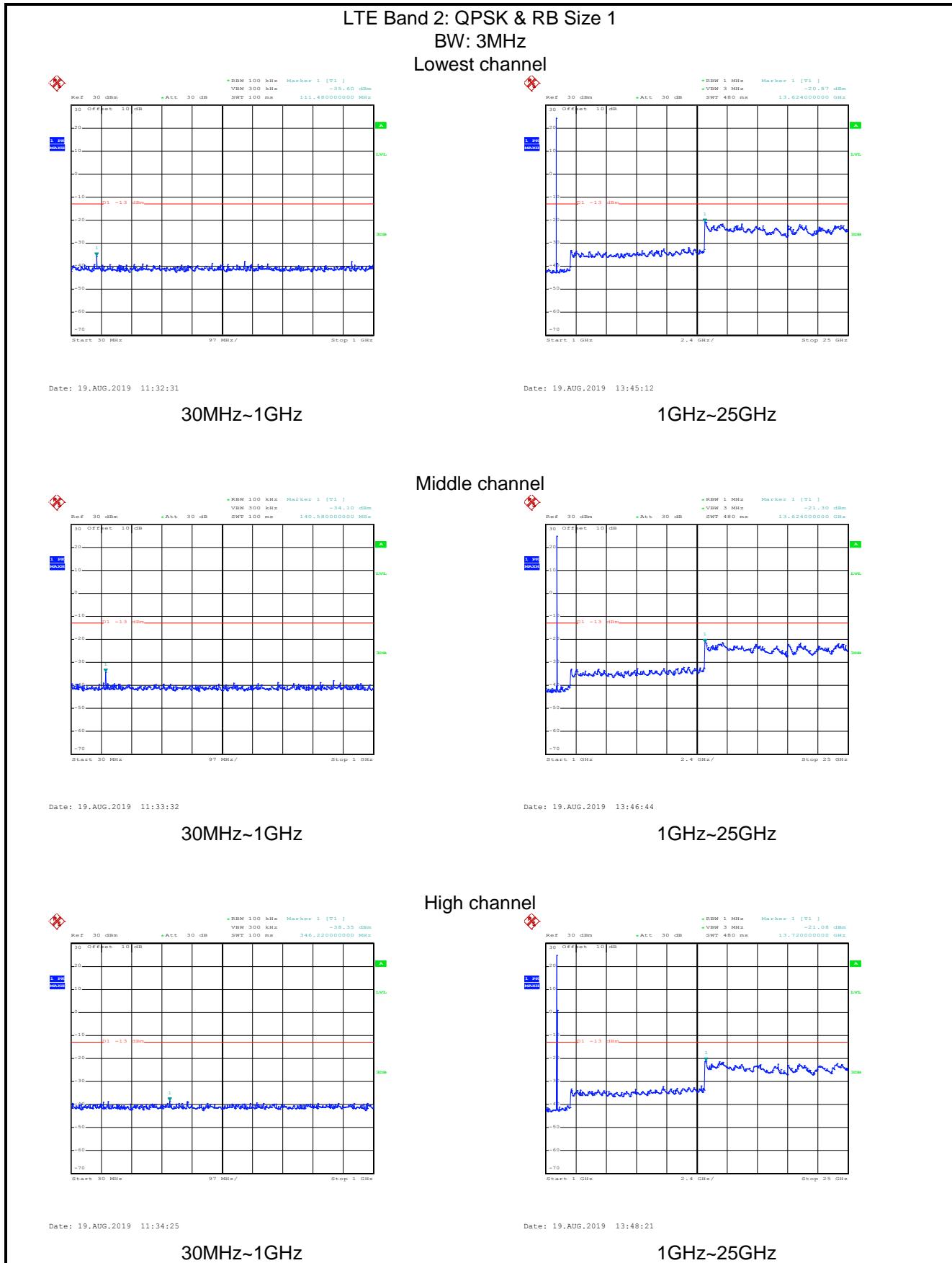


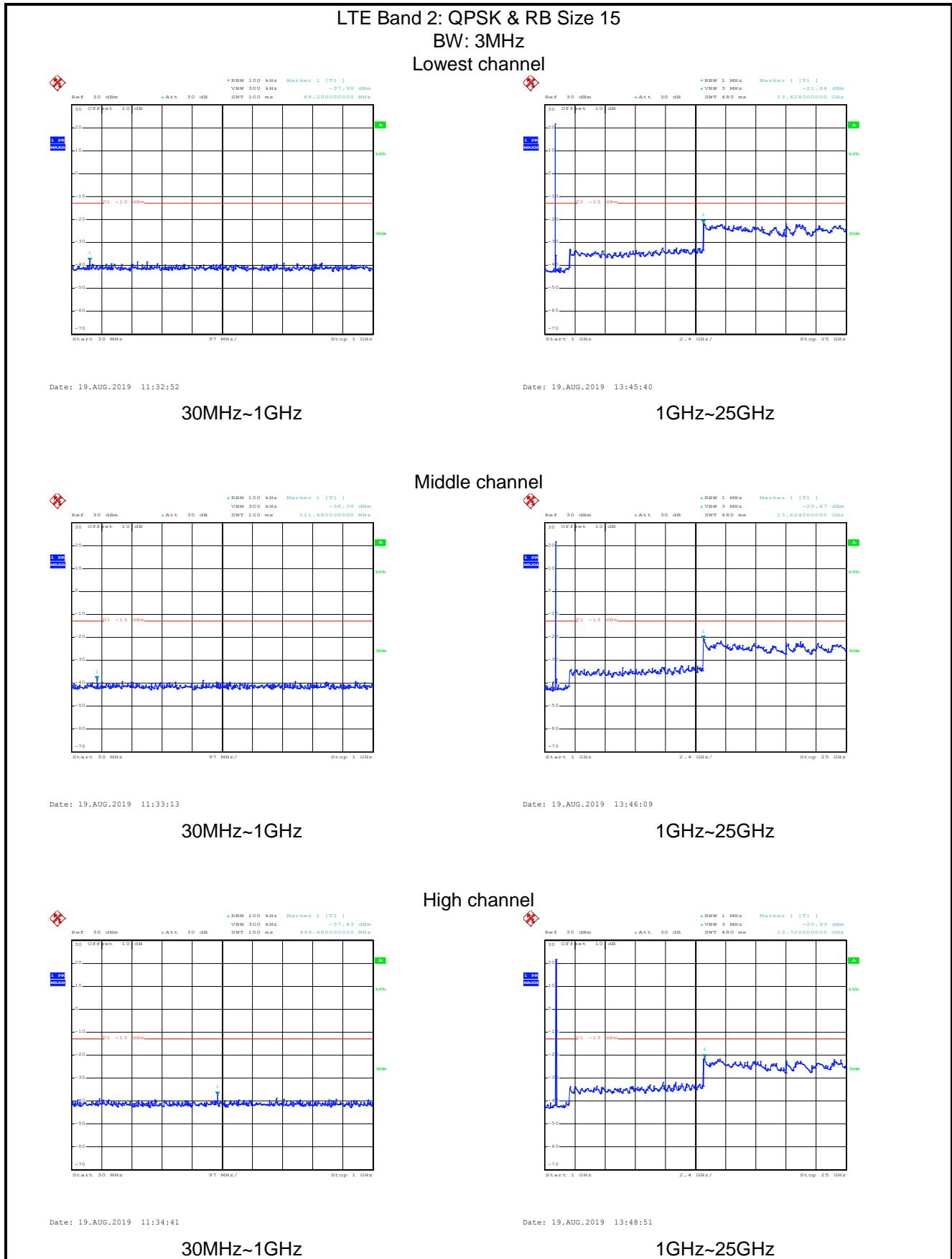
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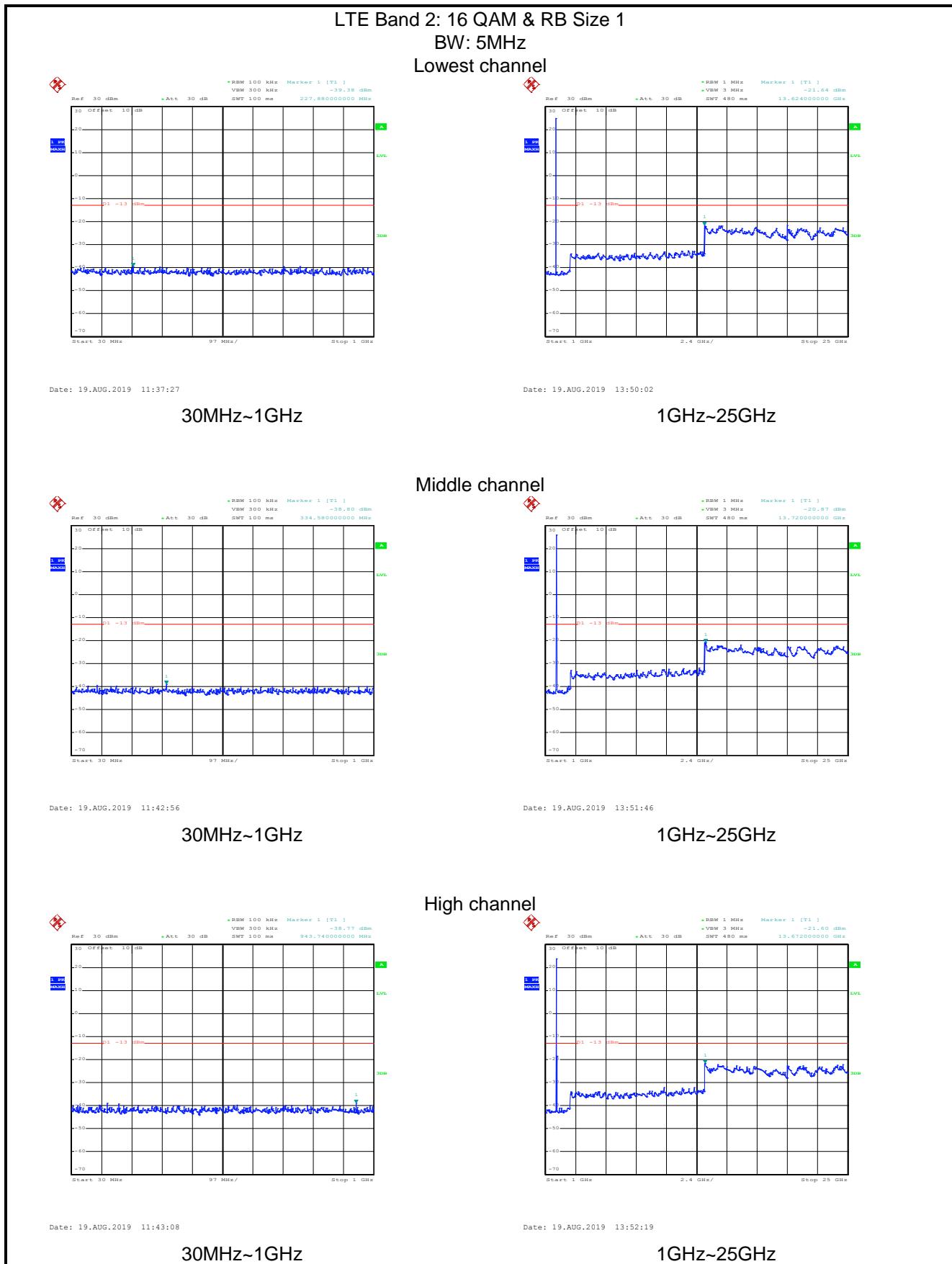
30MHz~1GHz

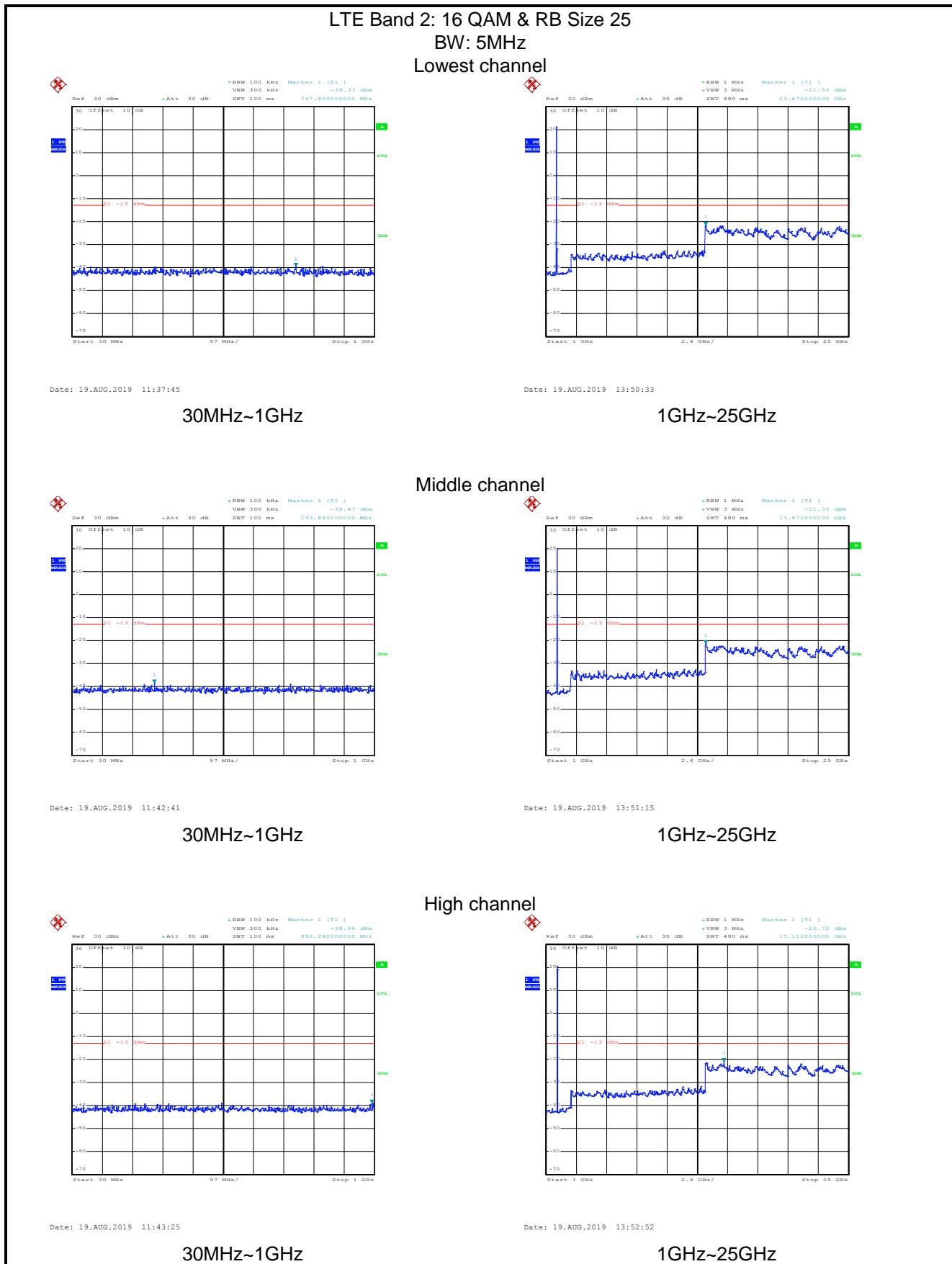
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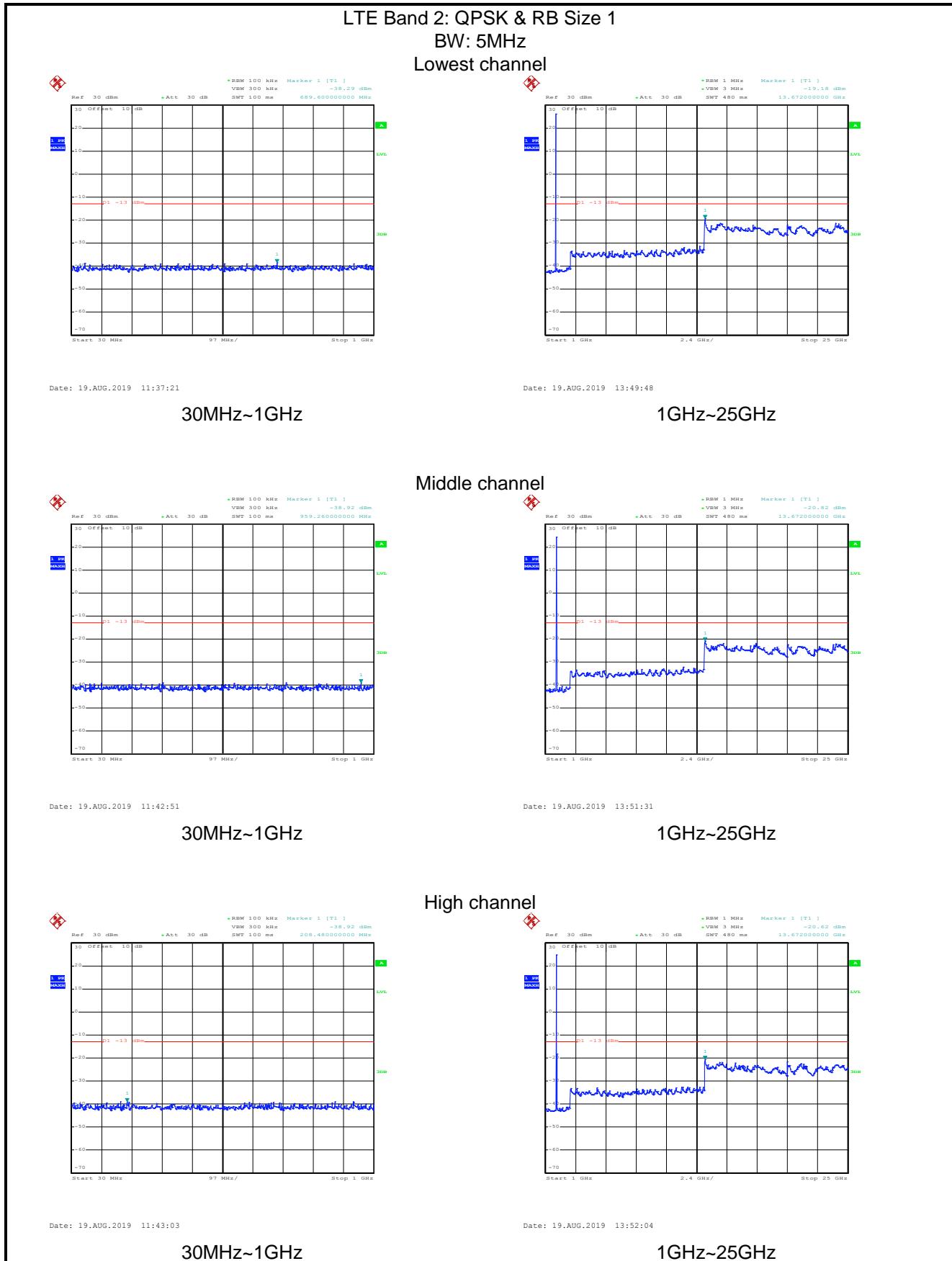
1GHz~25GHz

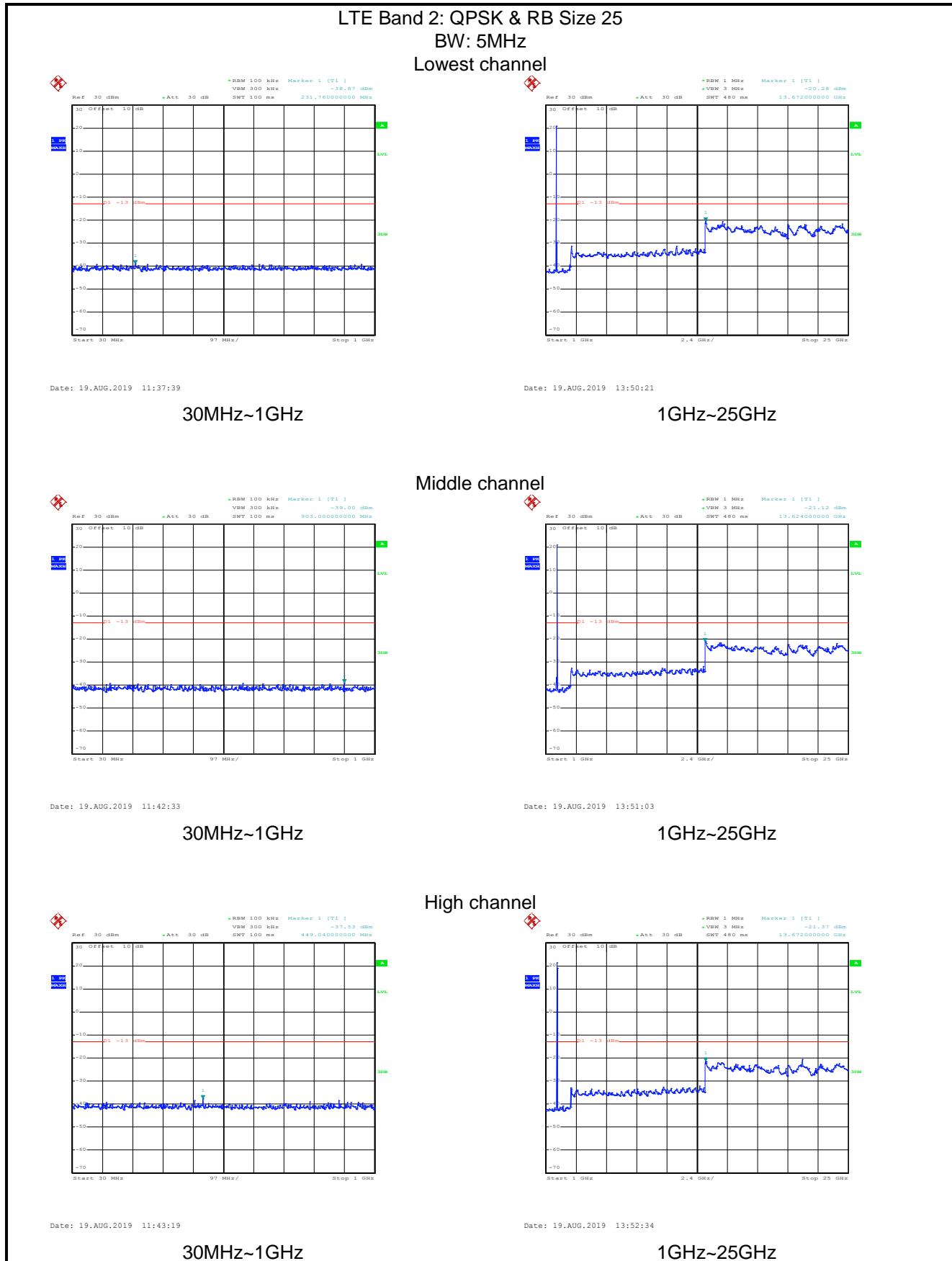


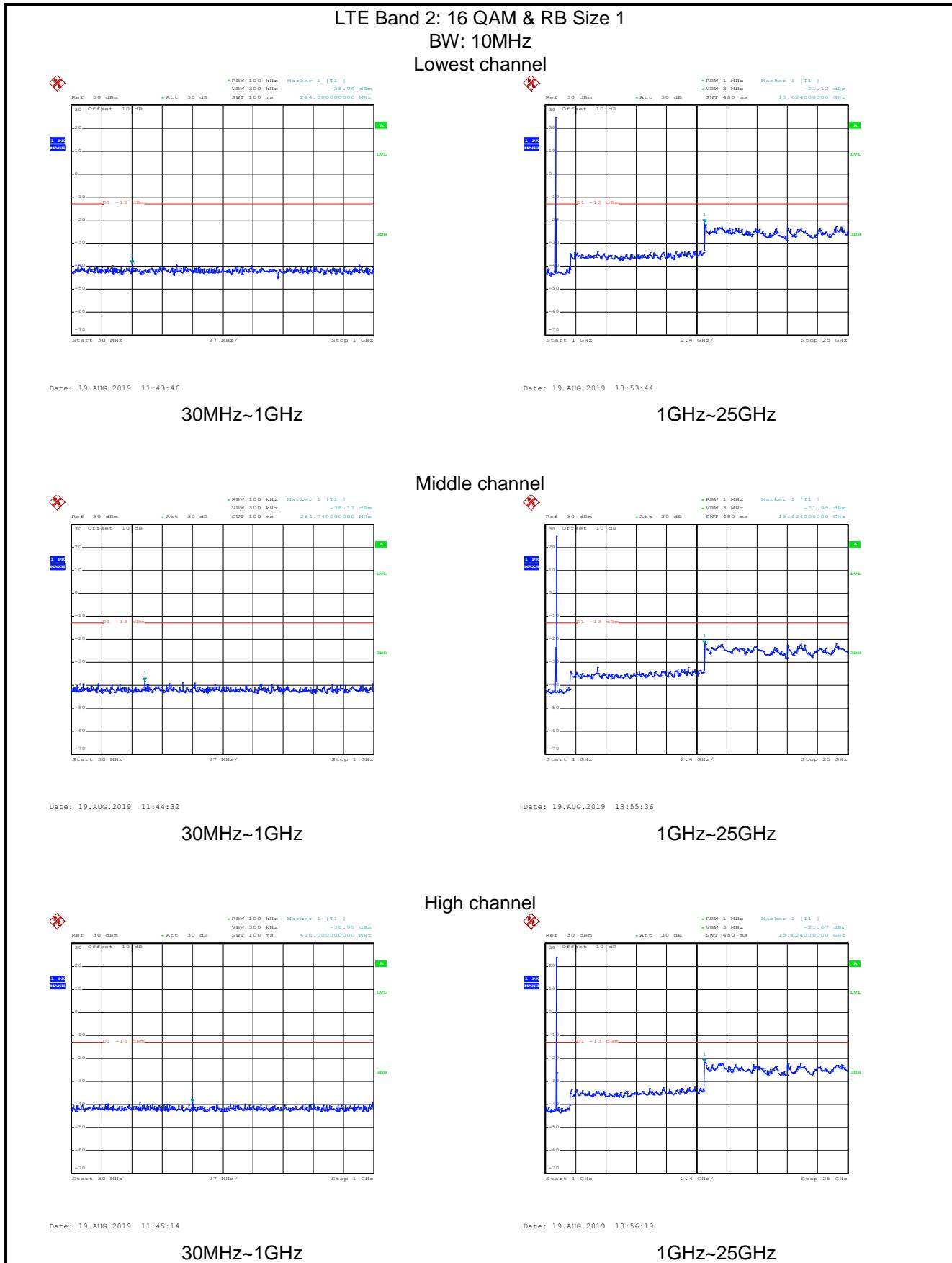


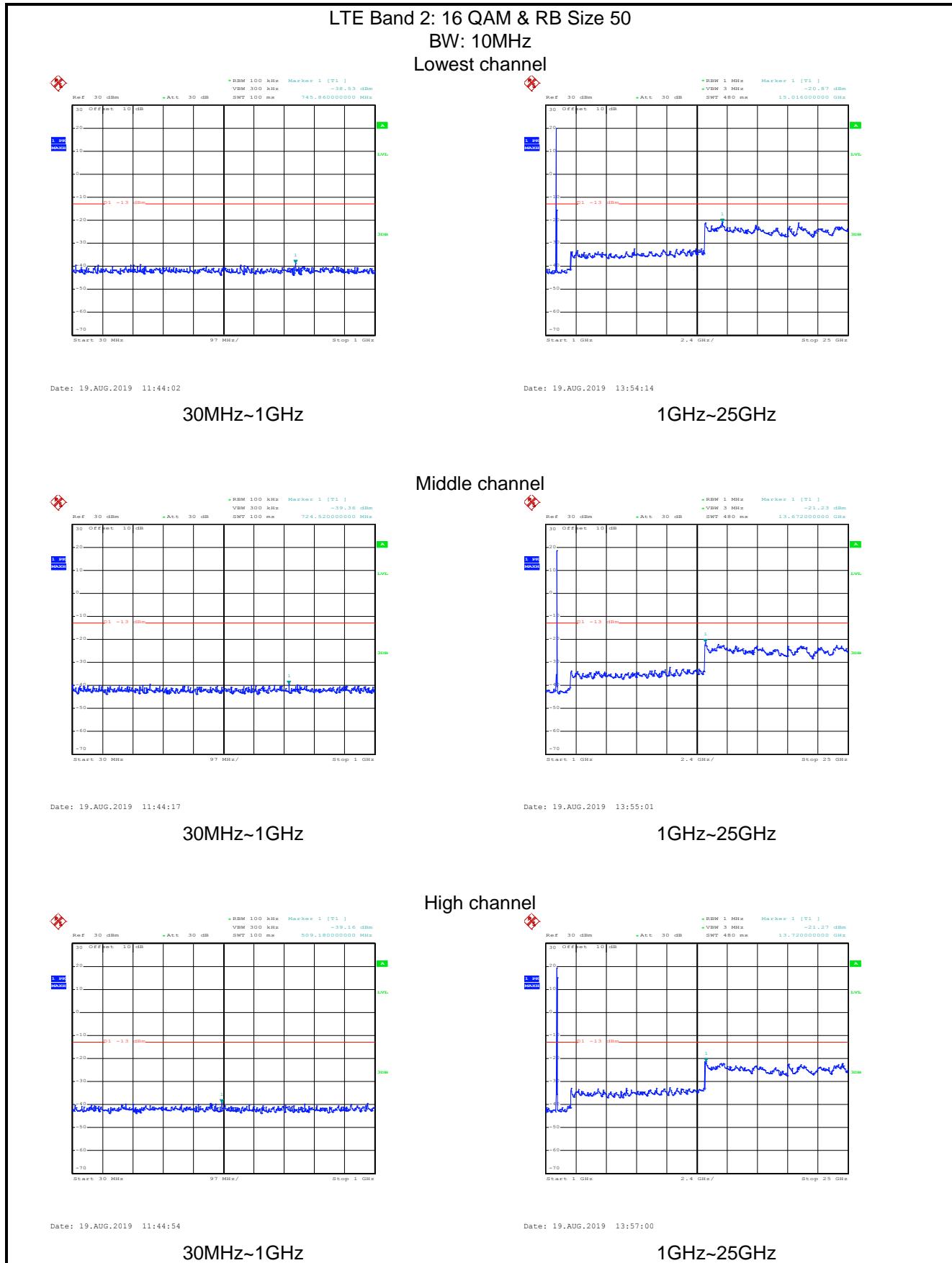


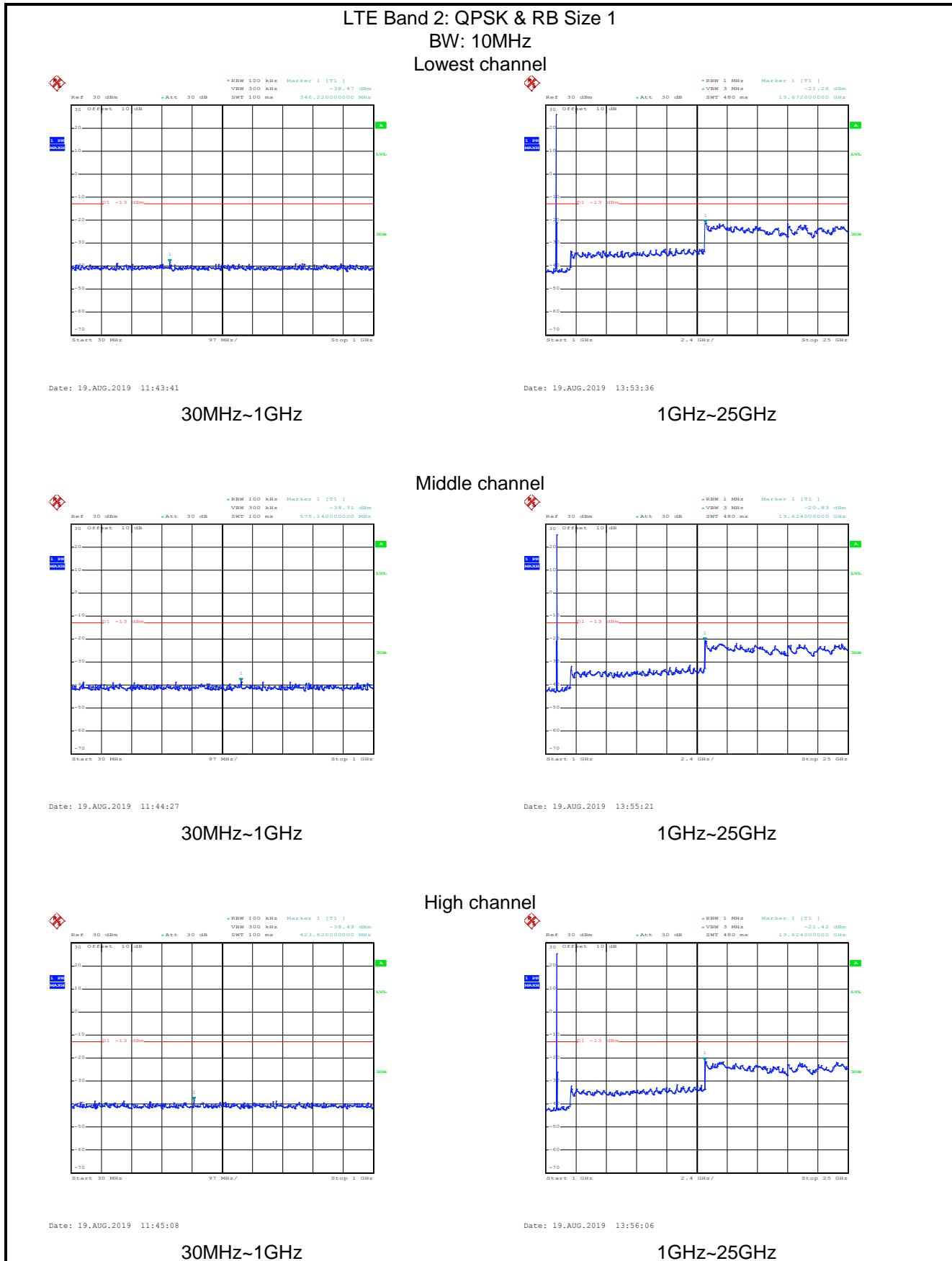


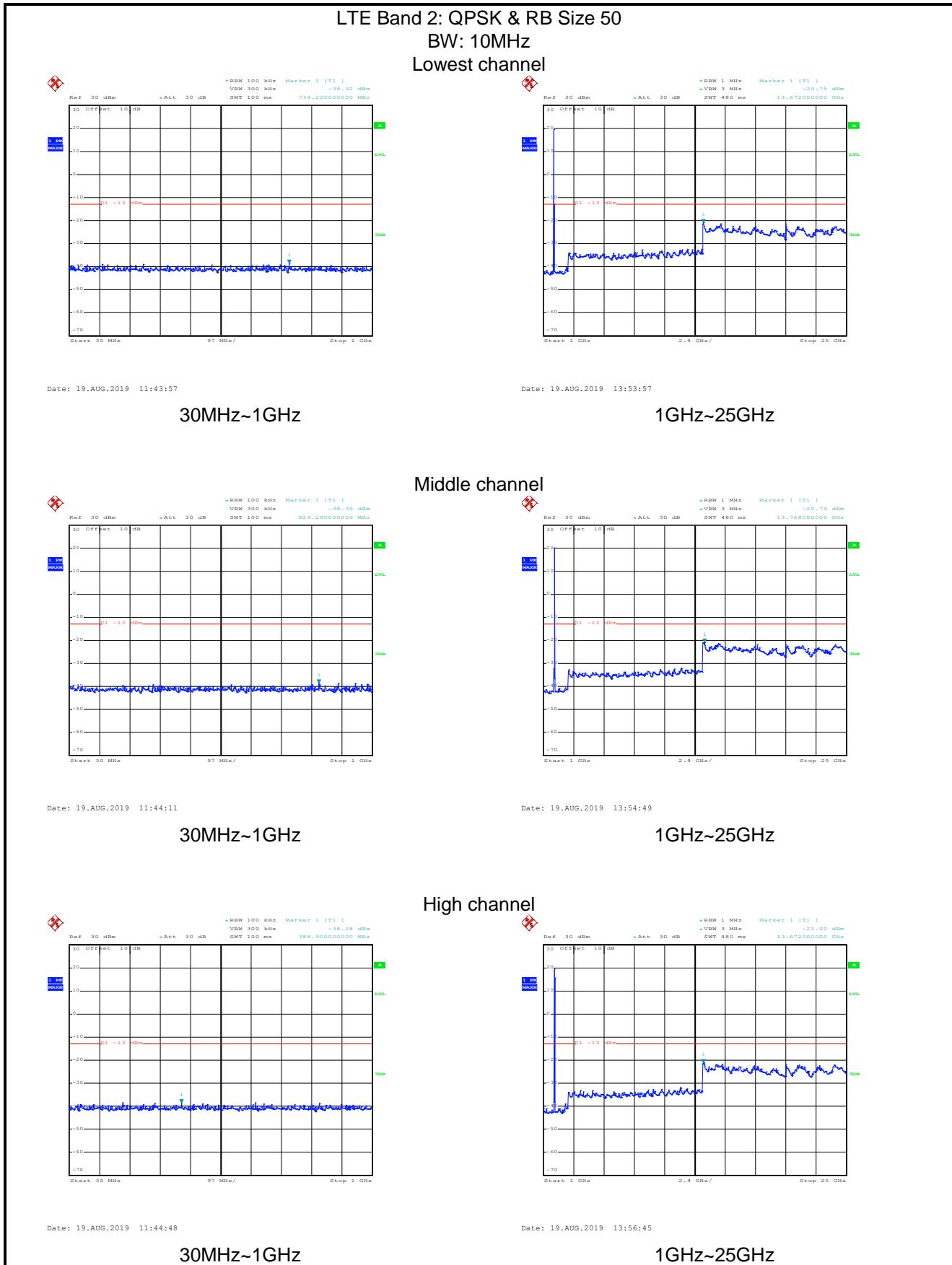


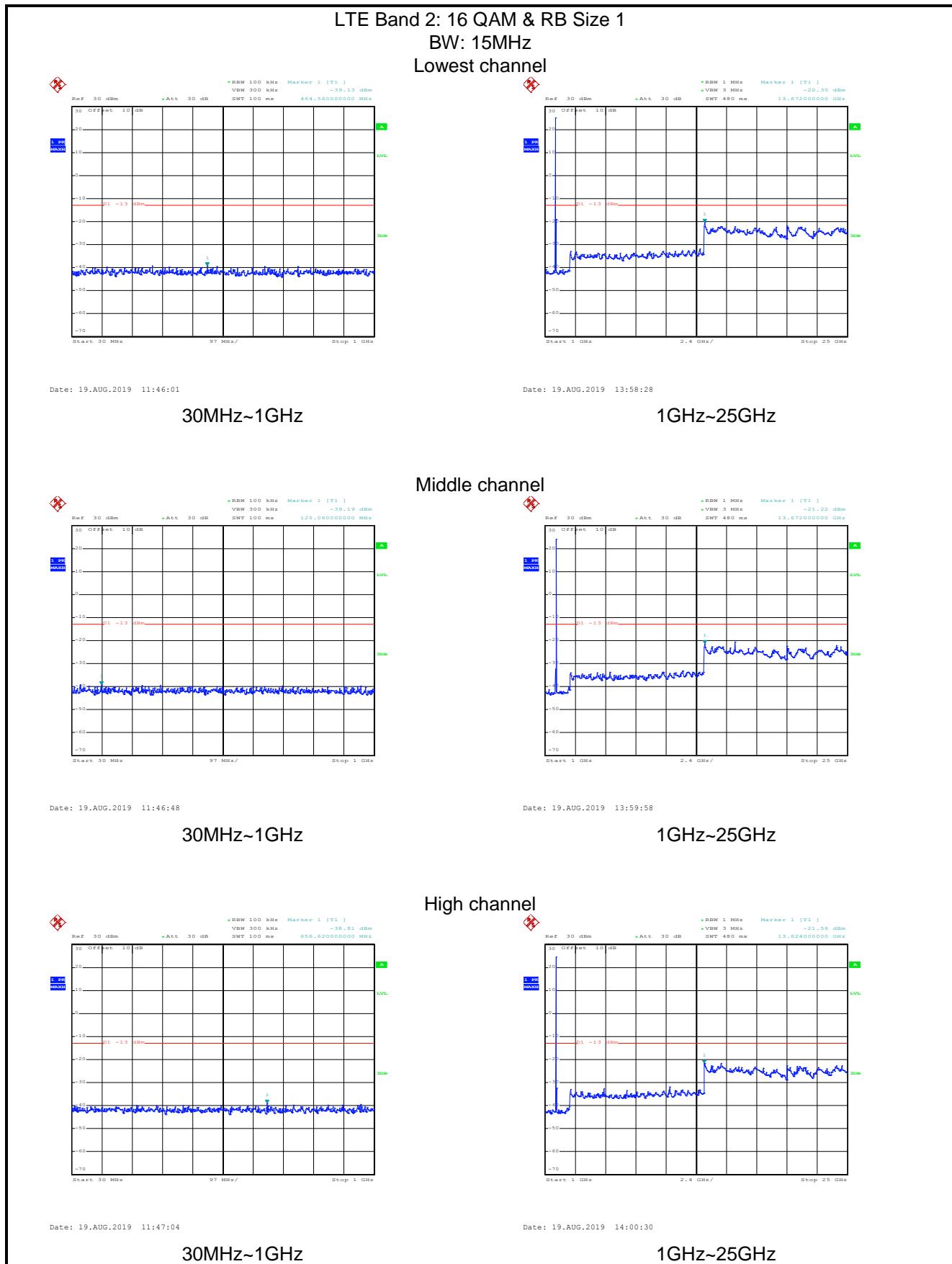


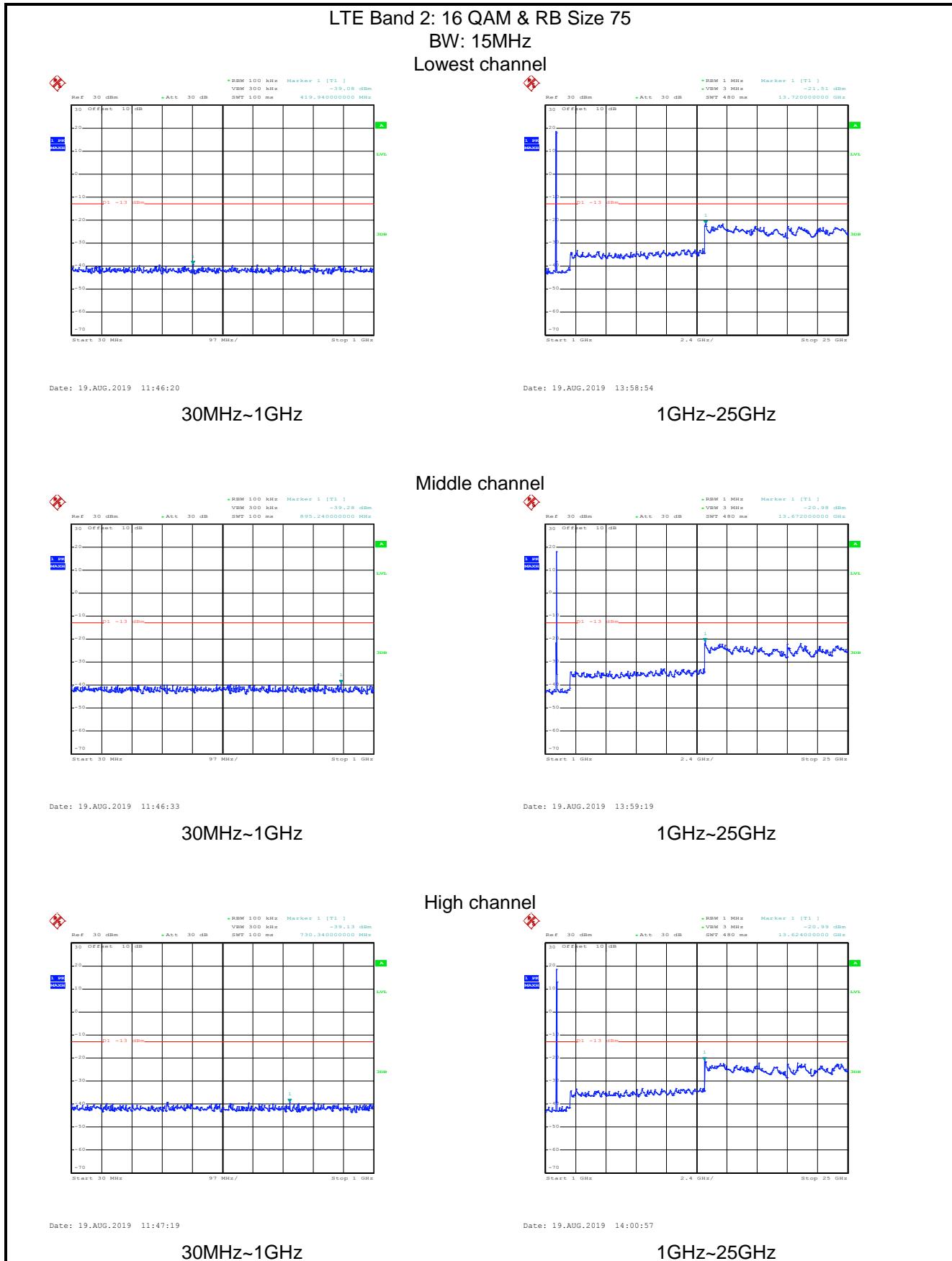


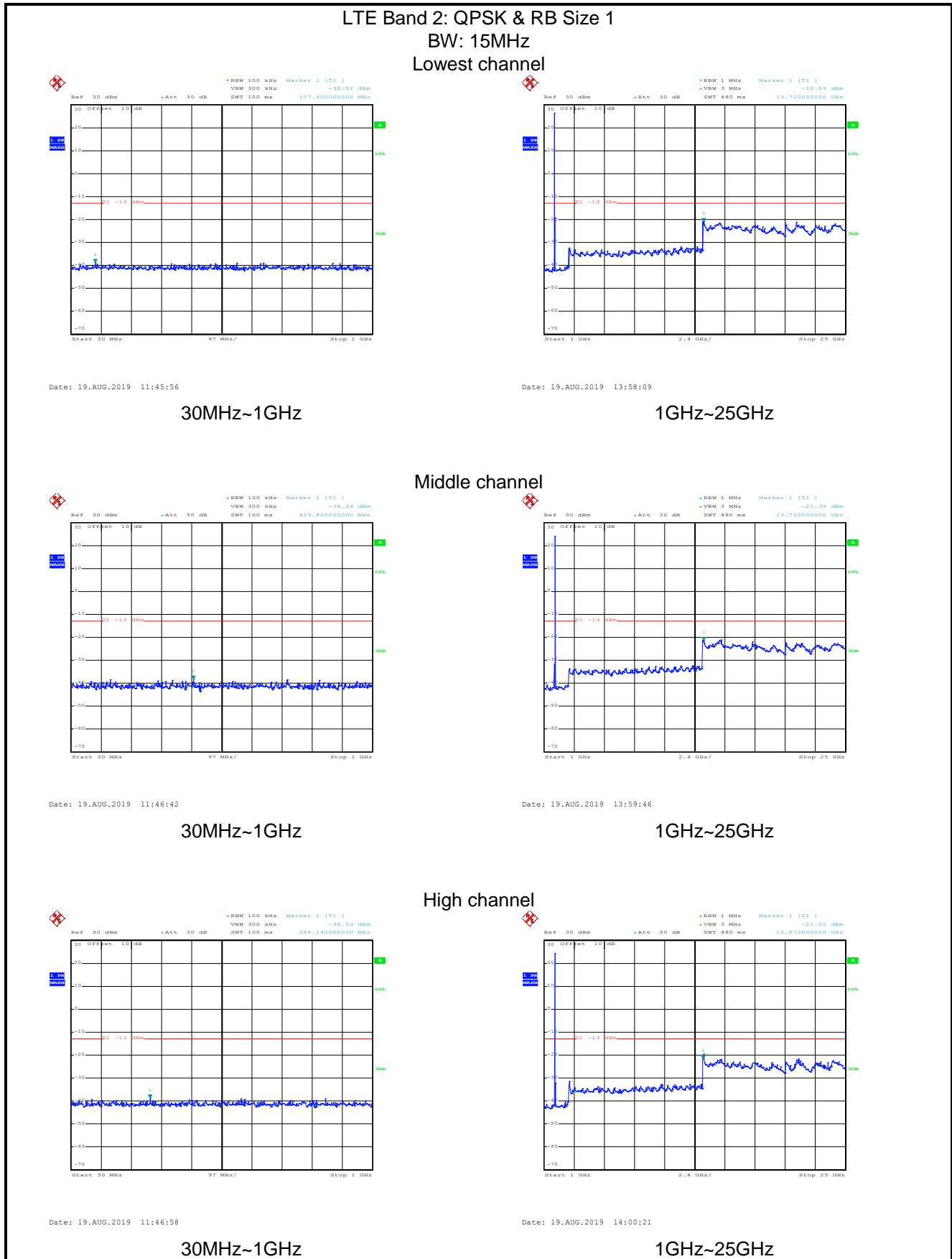


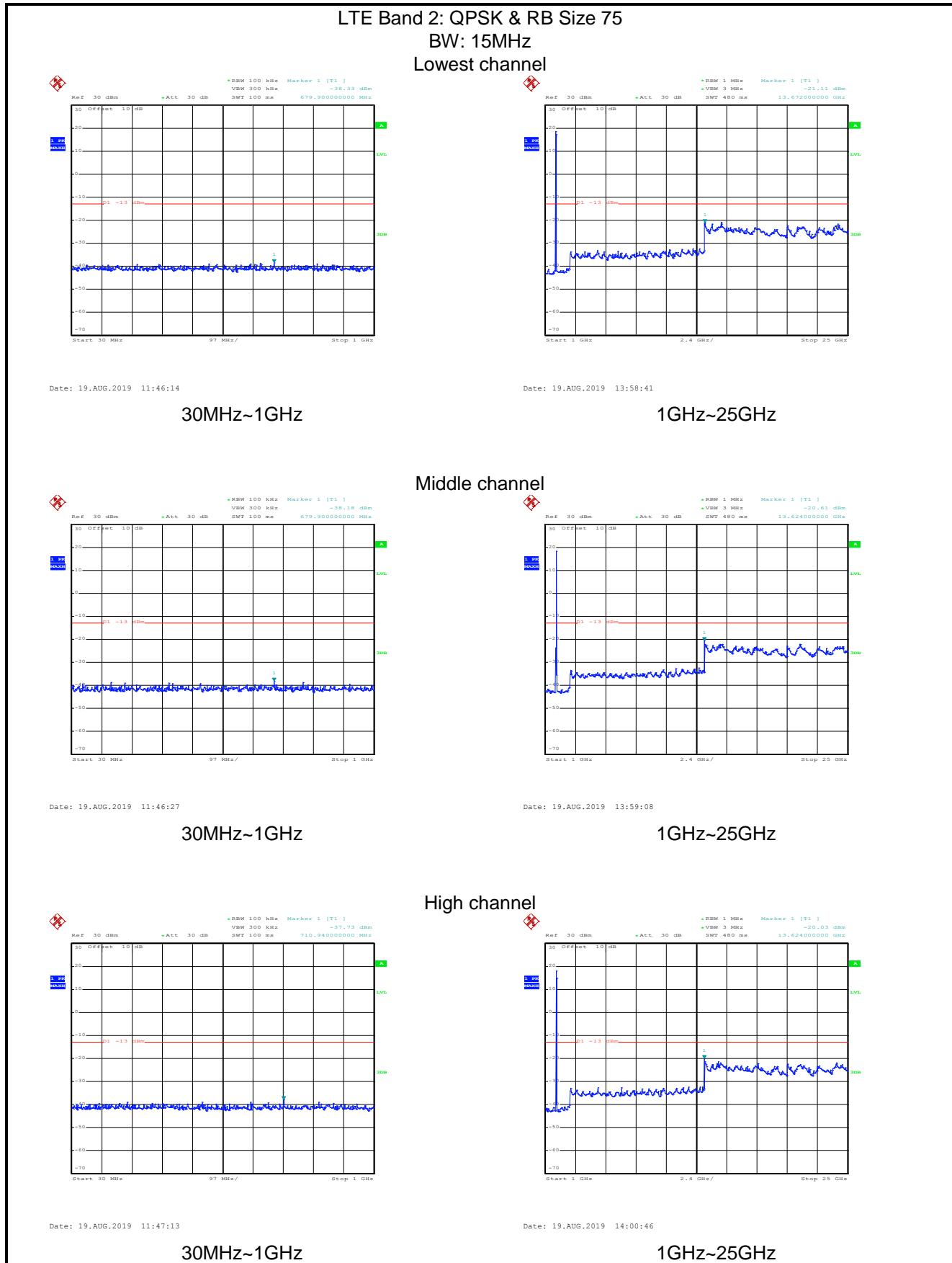


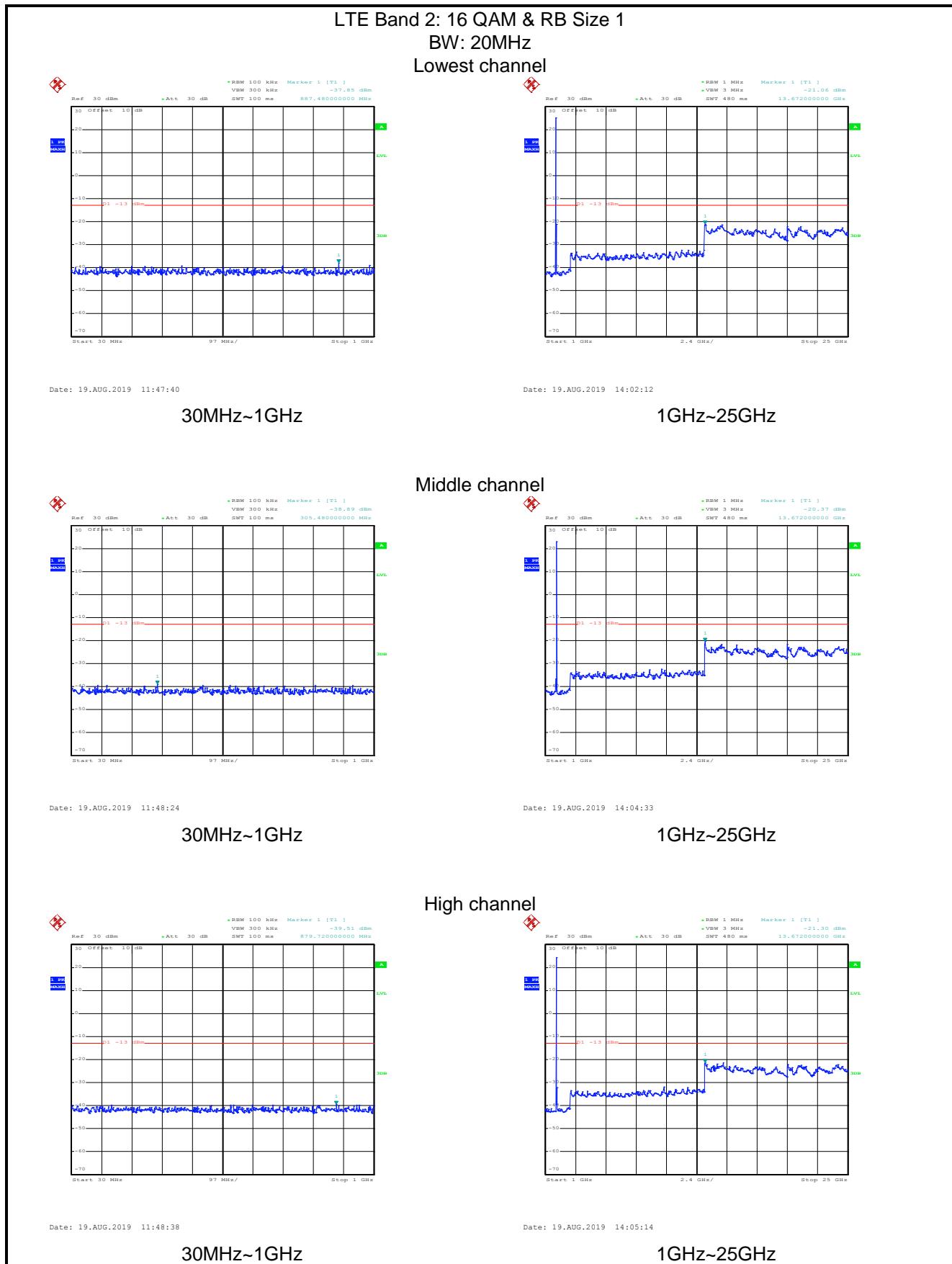


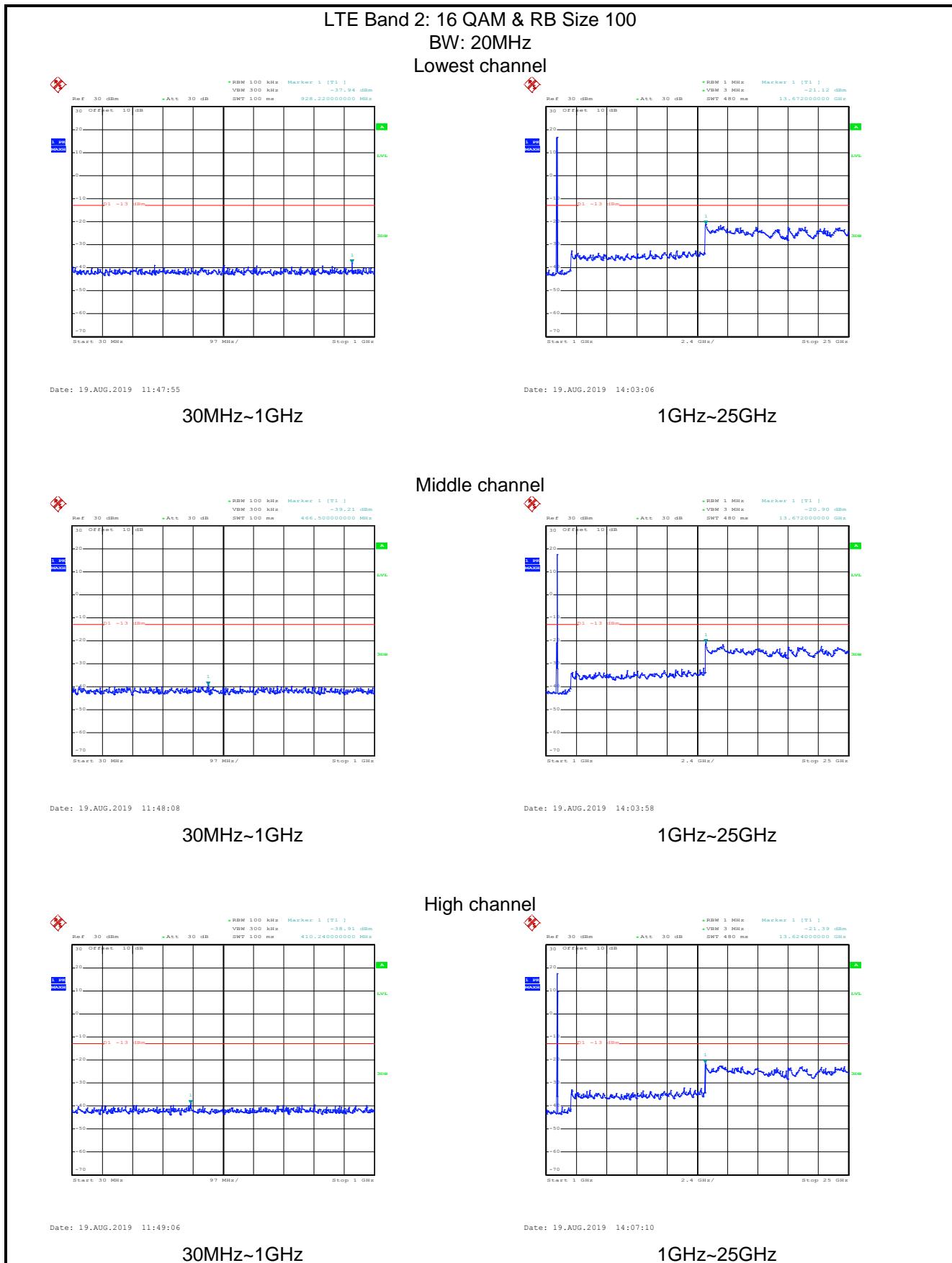


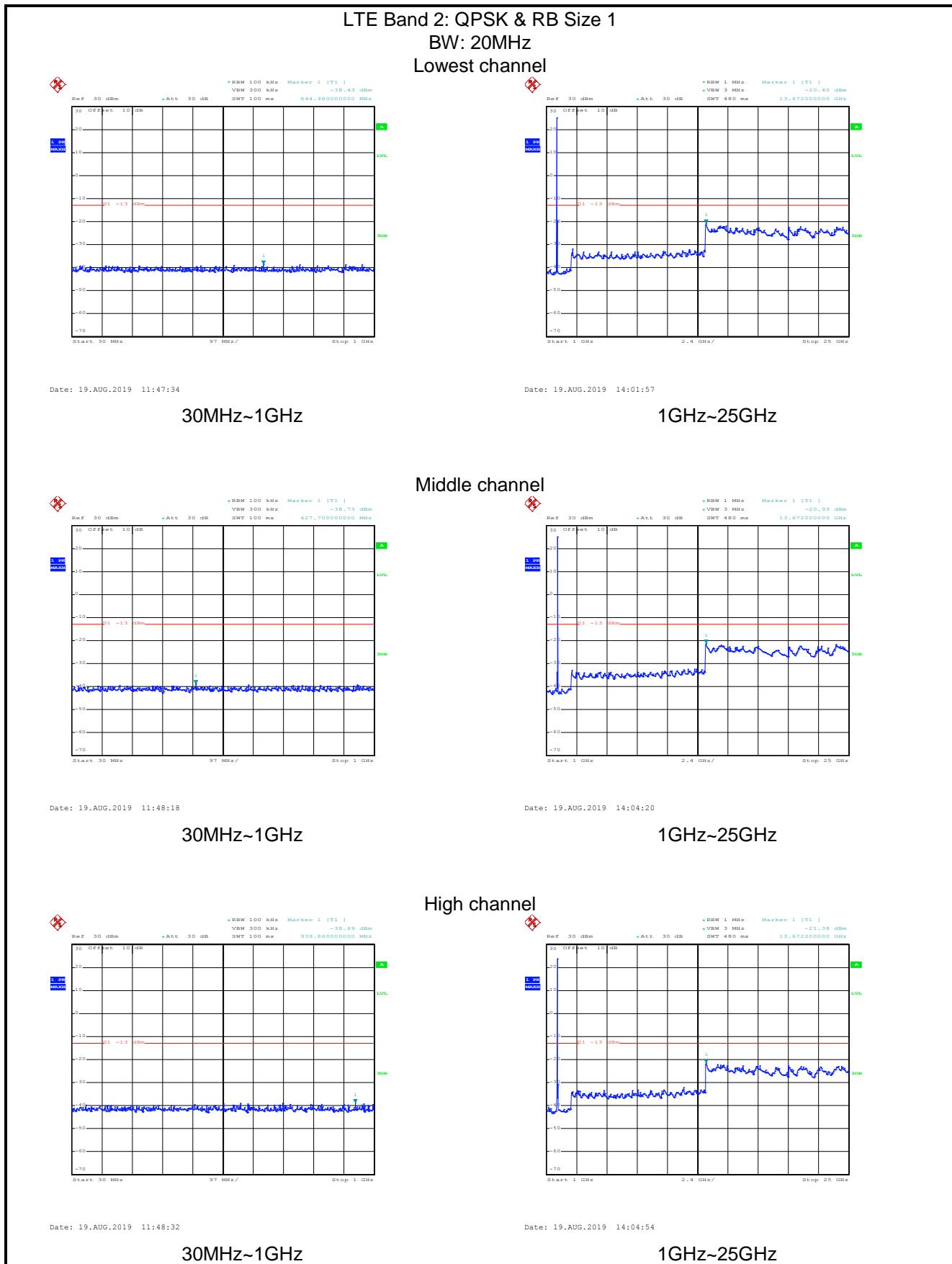


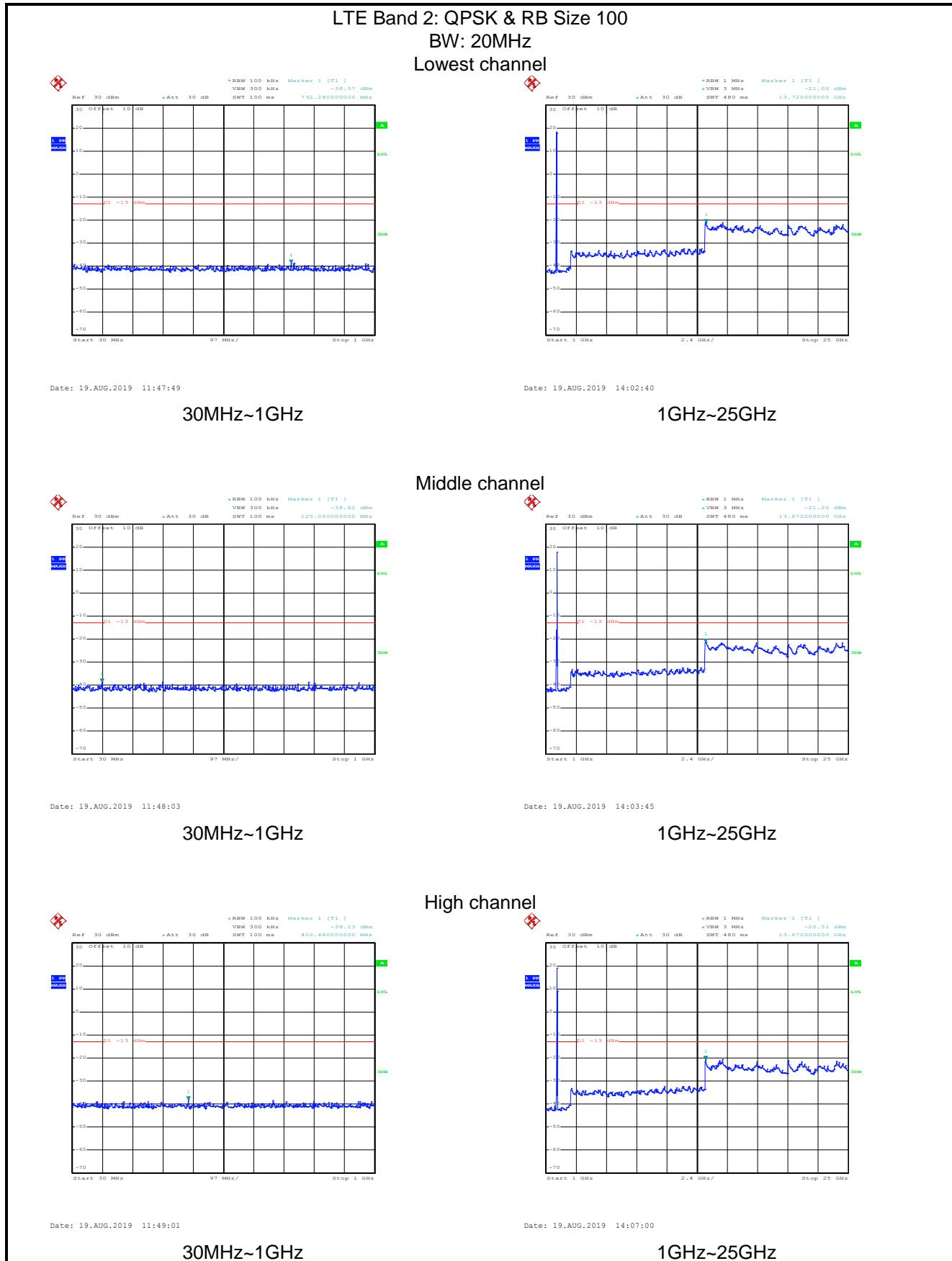




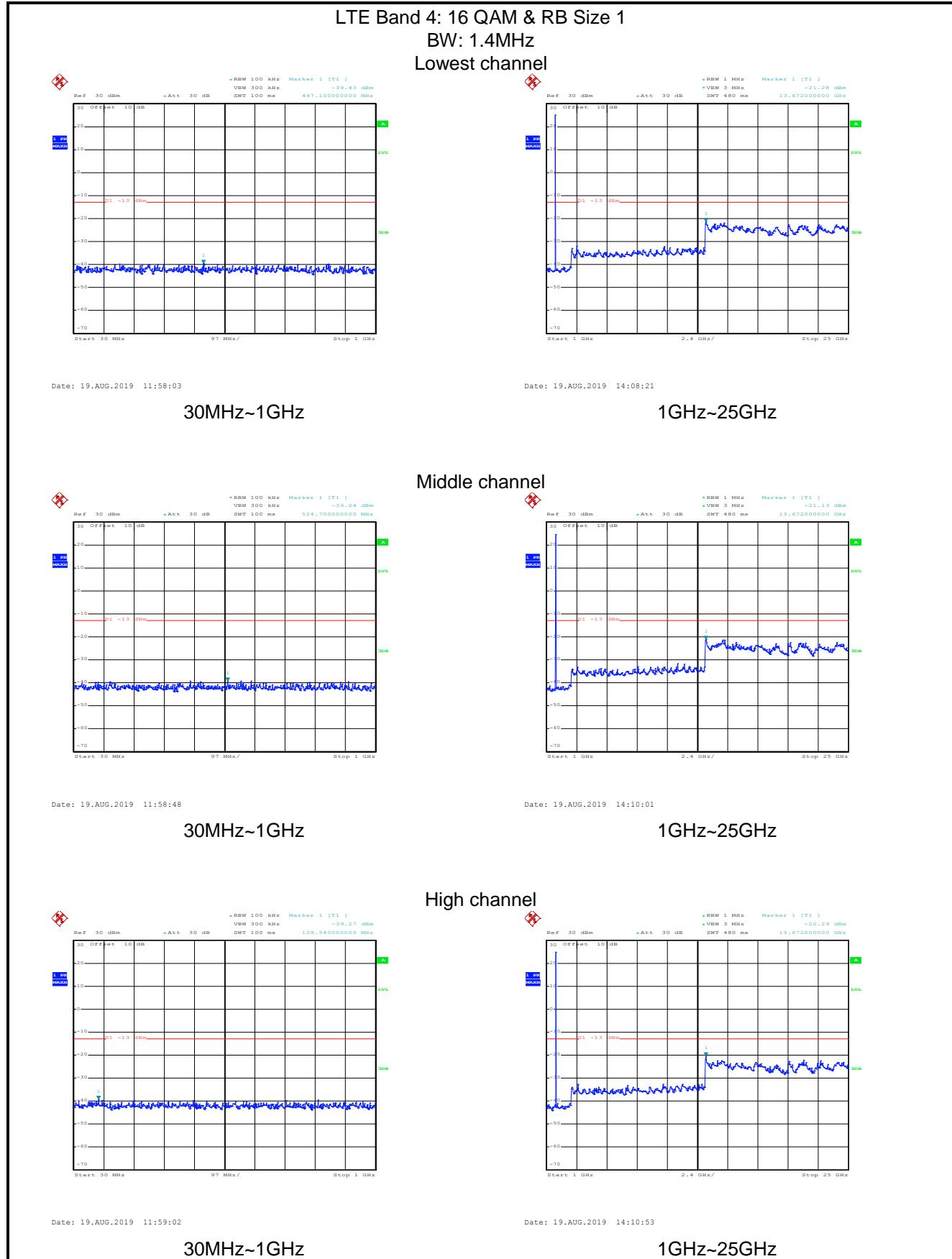


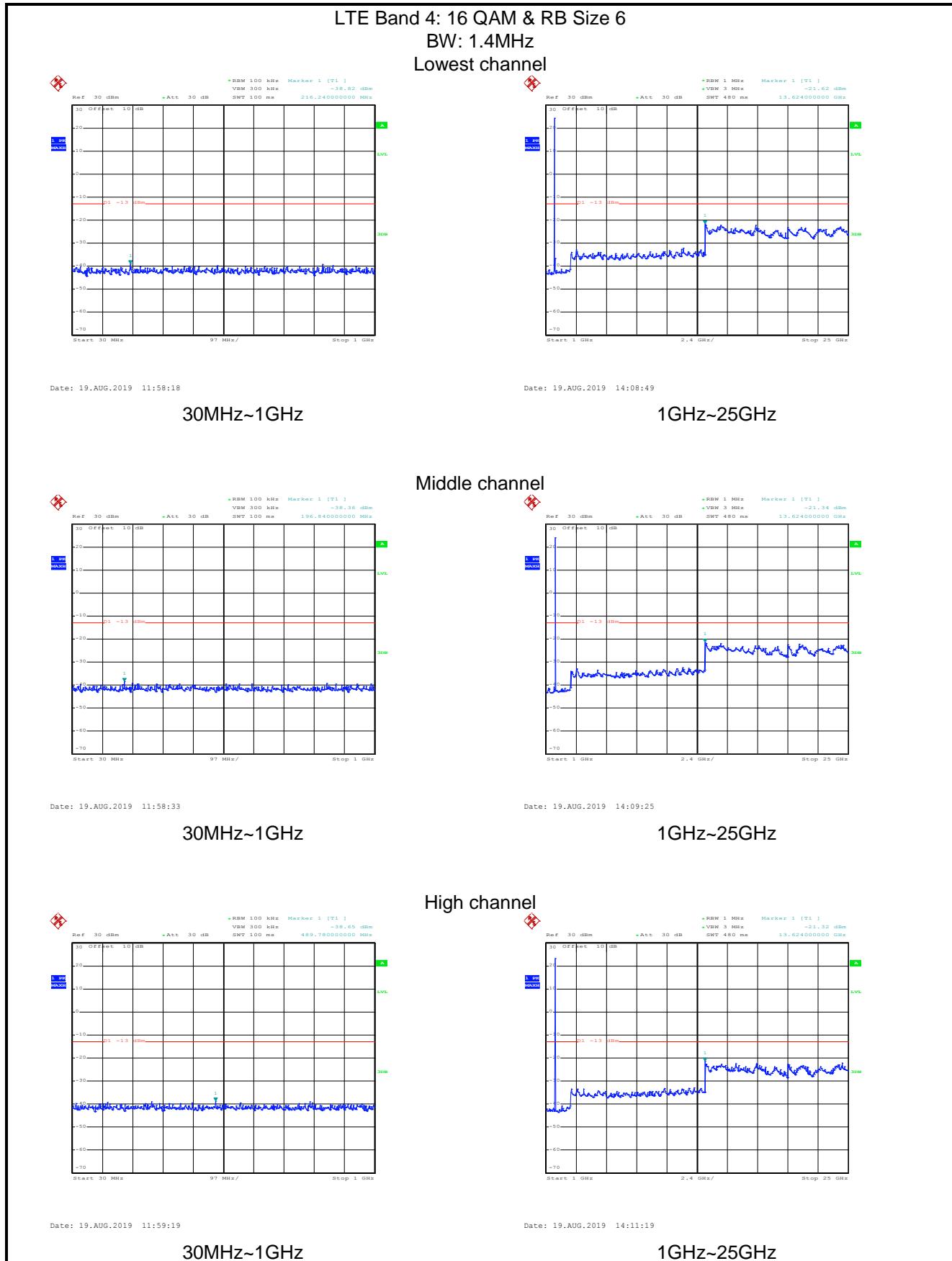


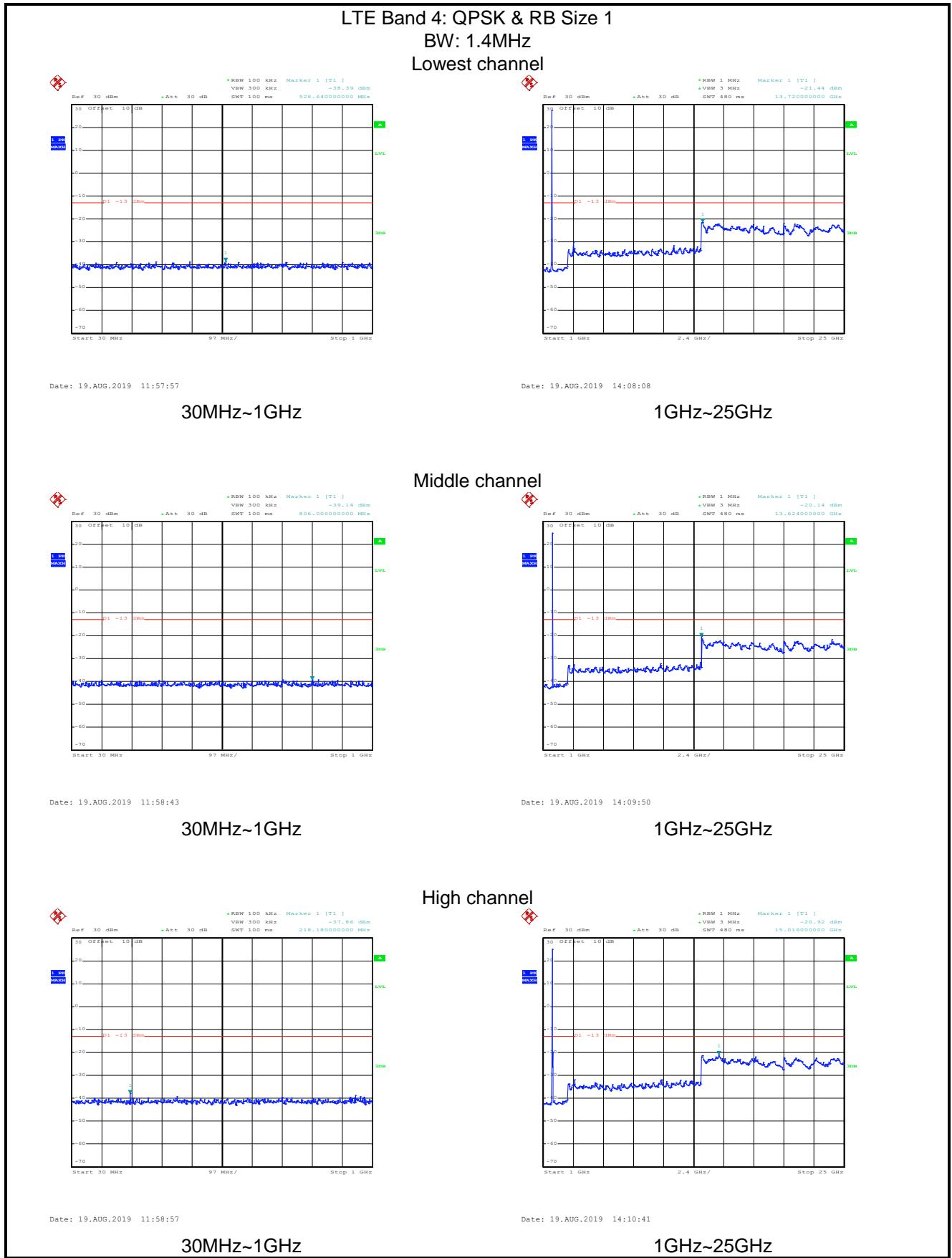


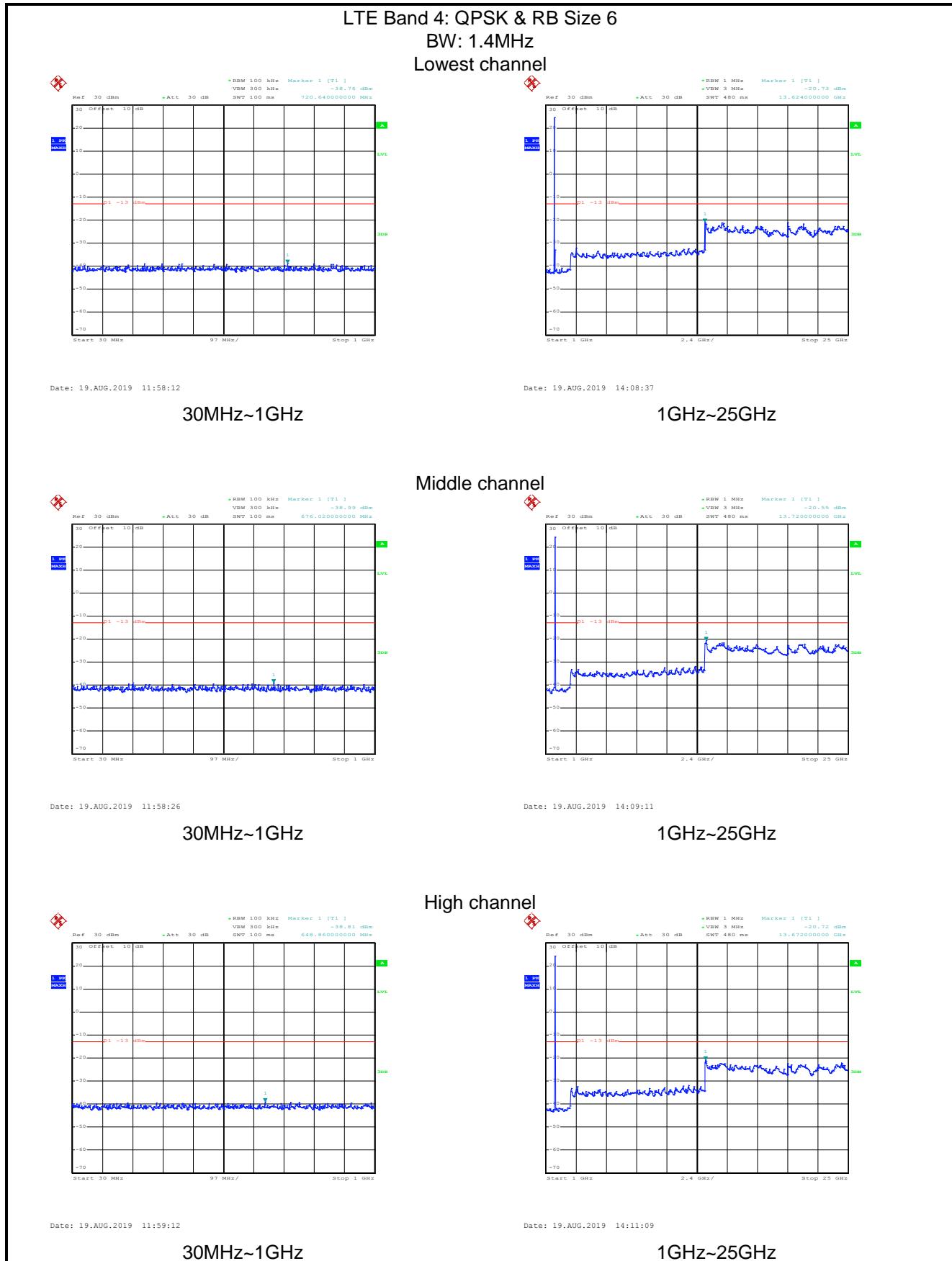


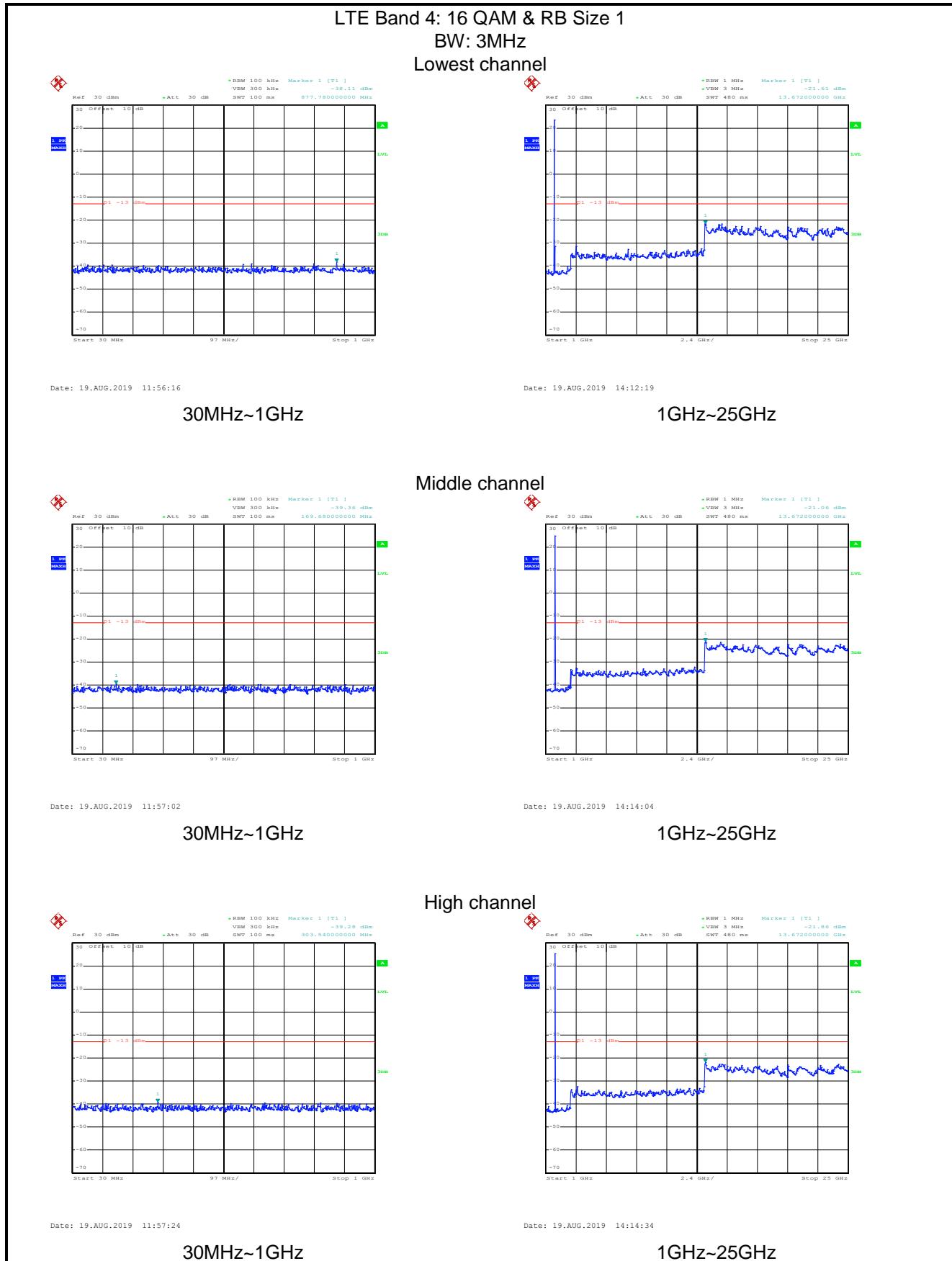
LTE Band 4 part:

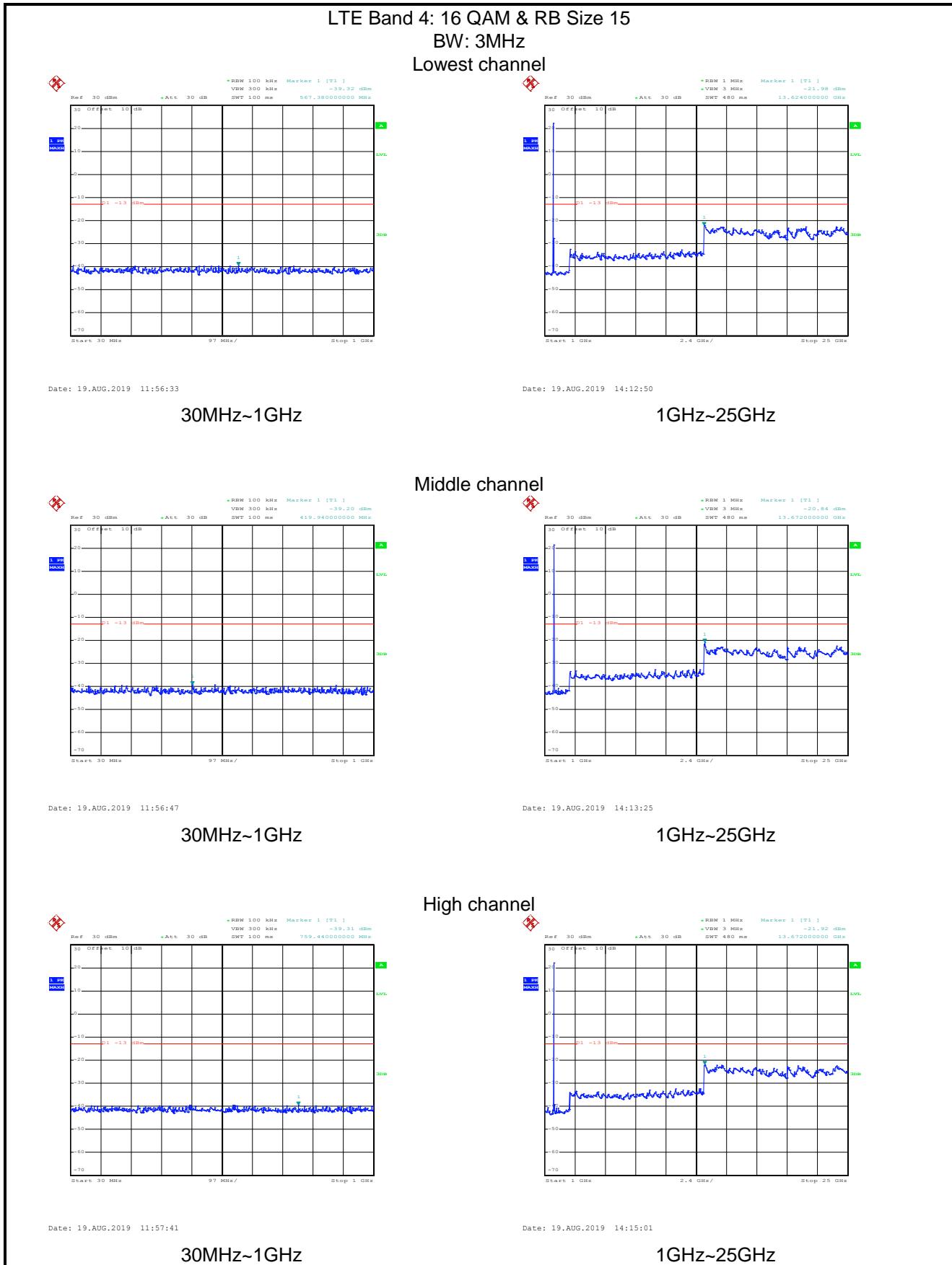








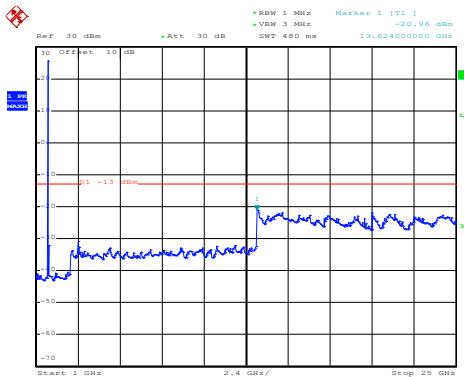
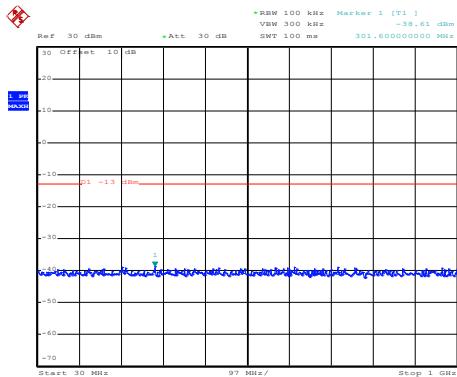




LTE Band 4: QPSK & RB Size 1

BW: 3MHz

Lowest channel



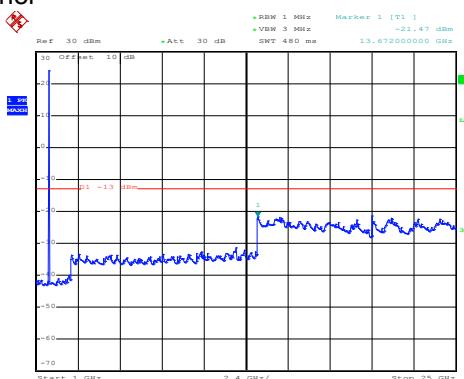
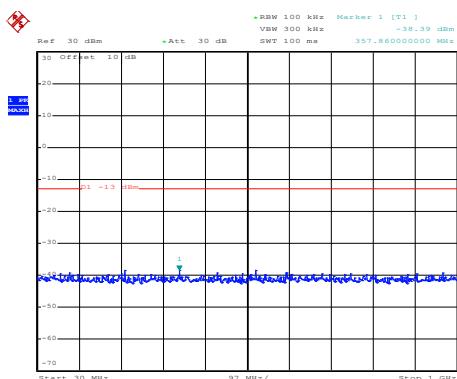
Date: 19.AUG.2019 11:56:09

30MHz~1GHz

Date: 19.AUG.2019 14:12:10

1GHz~25GHz

Middle channel



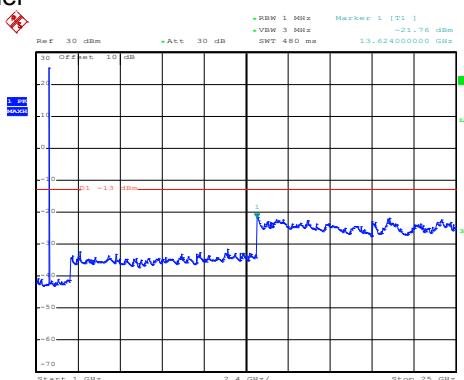
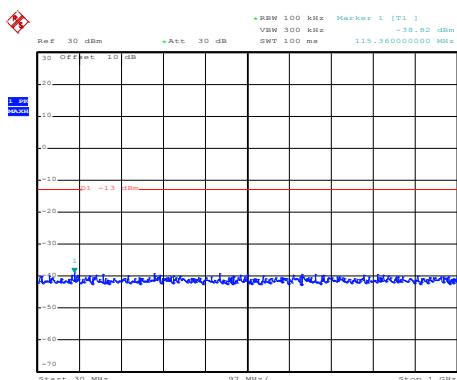
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30MHz~1GHz

Date: 19.AUG.2019 14:13:41

1GHz~25GHz

High channel

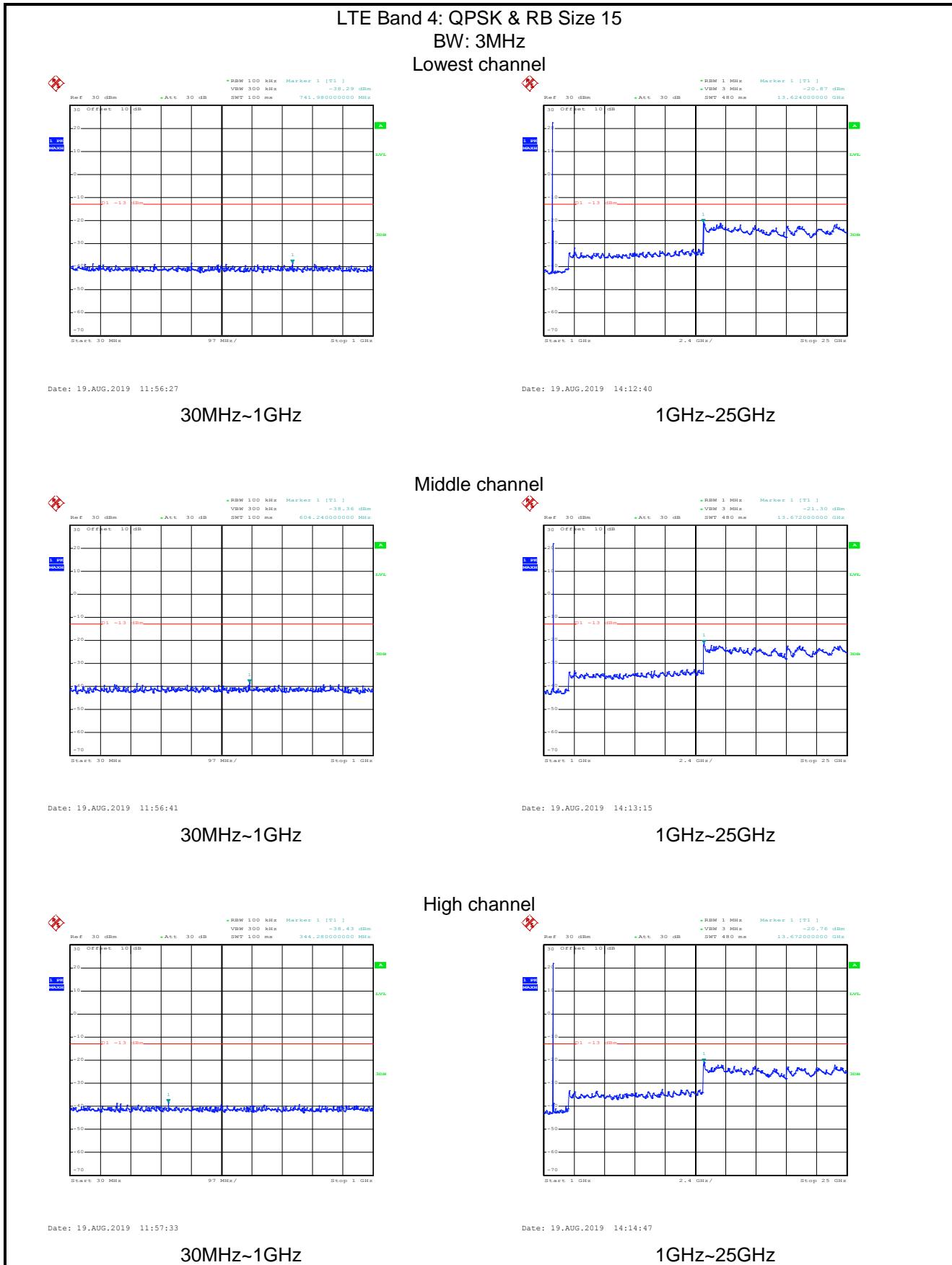


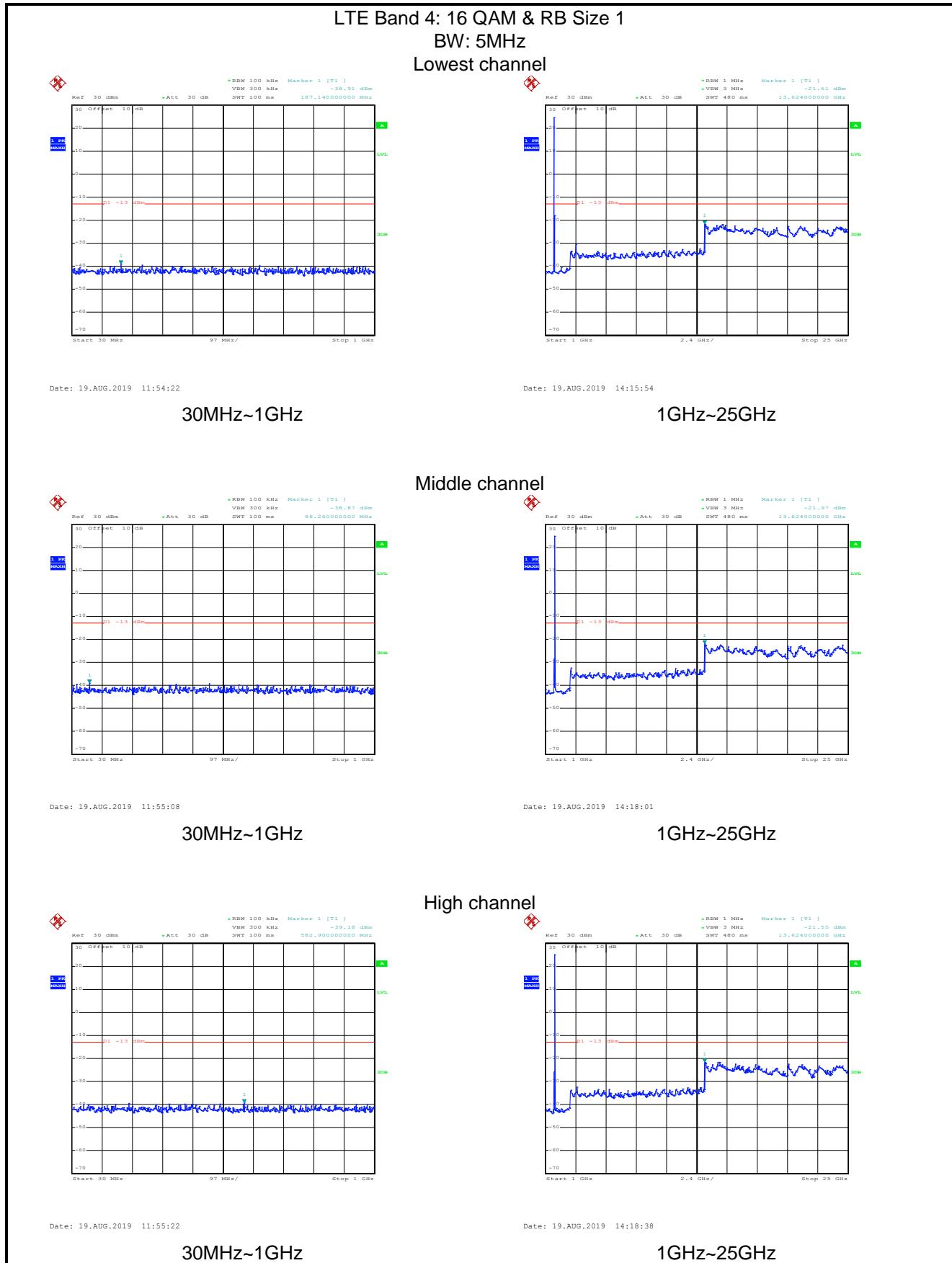
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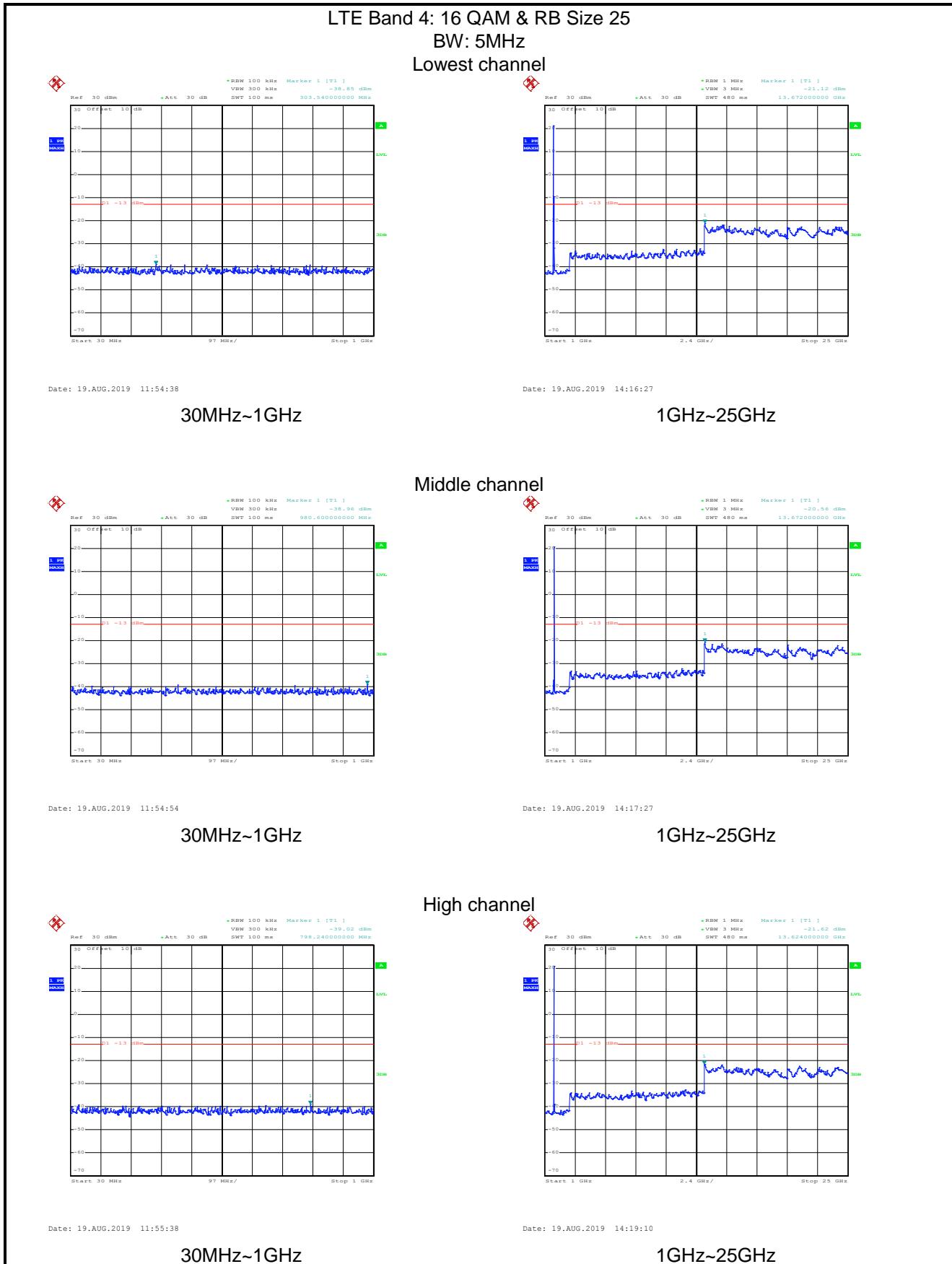
30MHz~1GHz

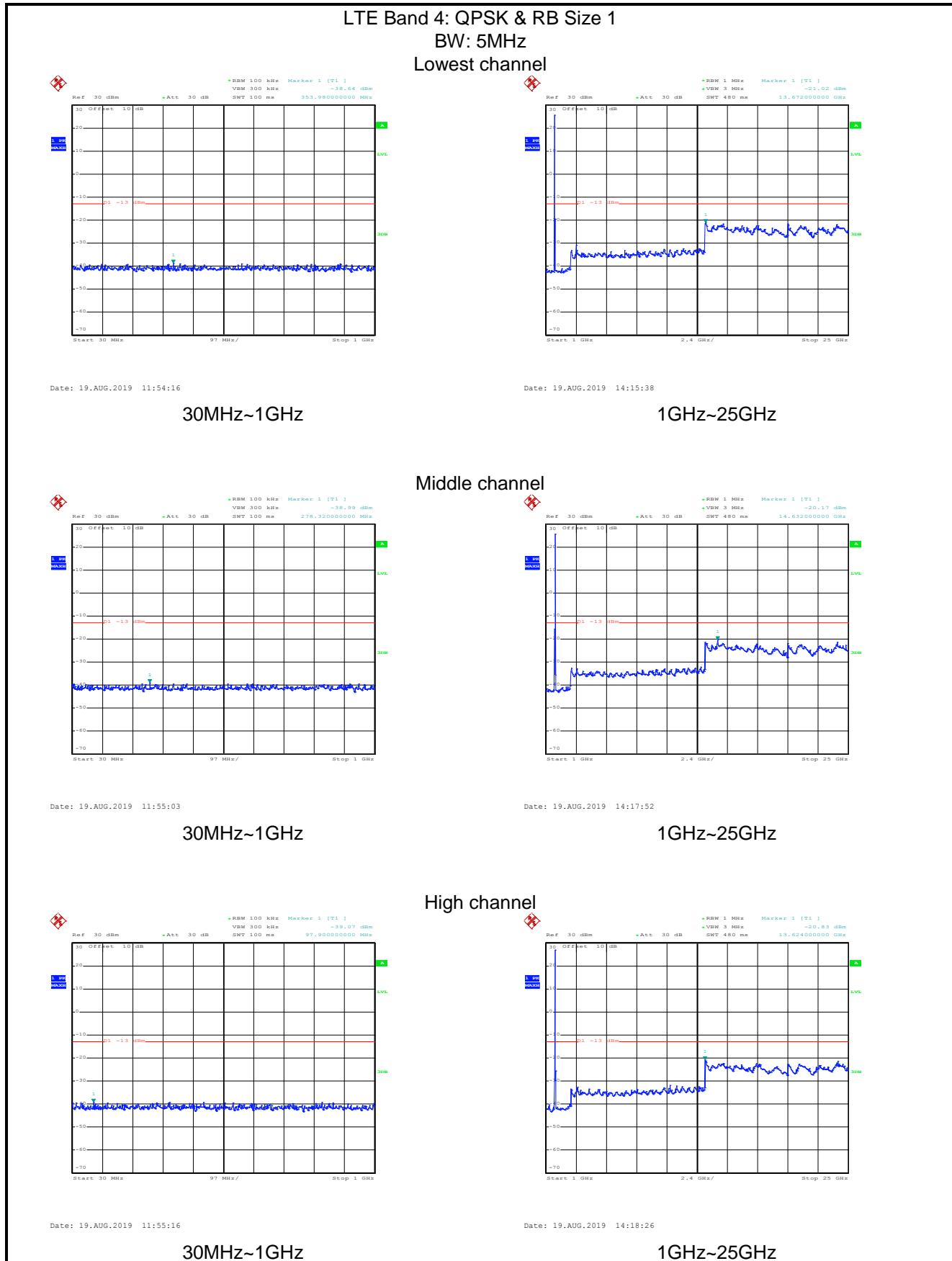
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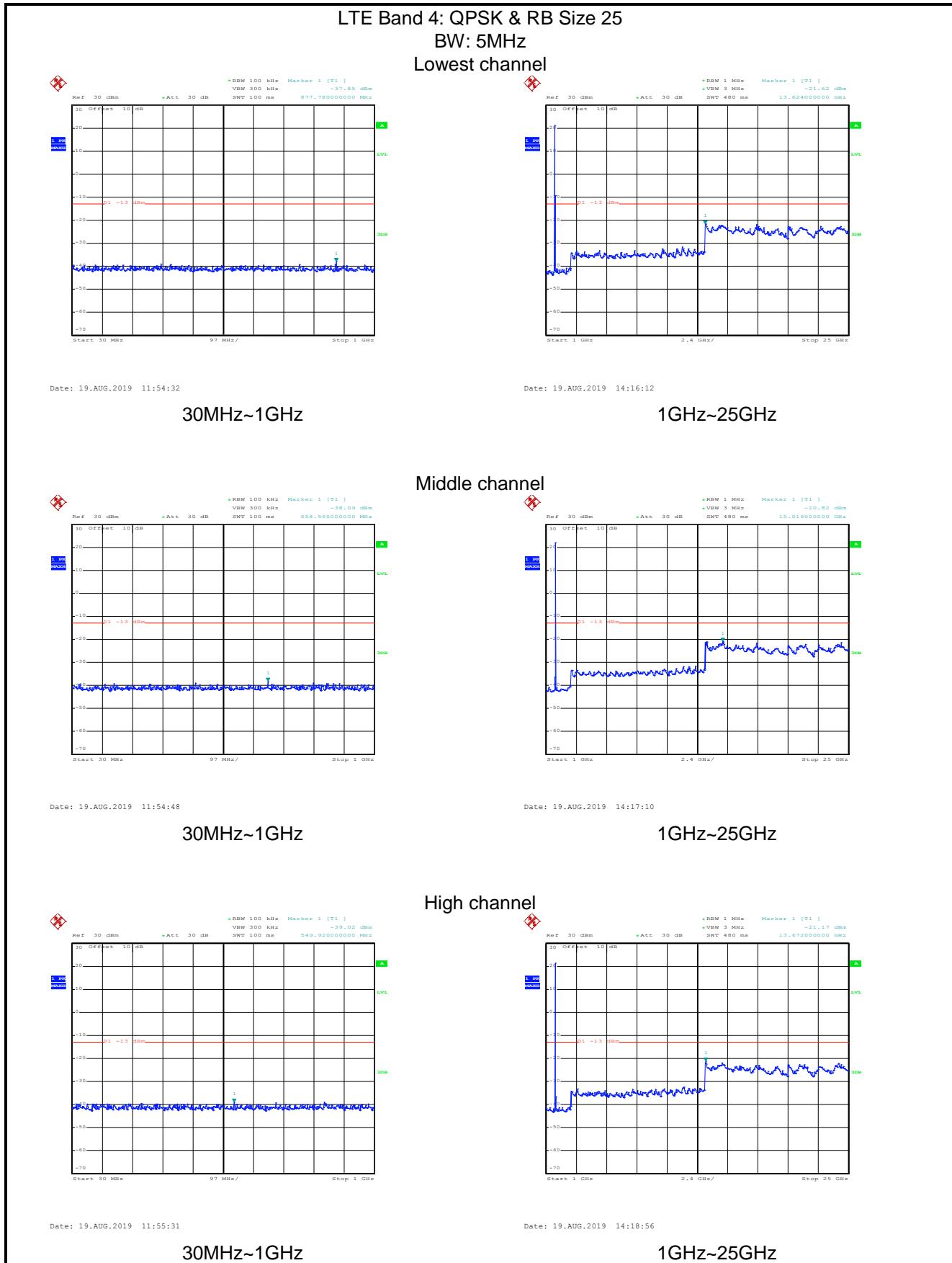
1GHz~25GHz

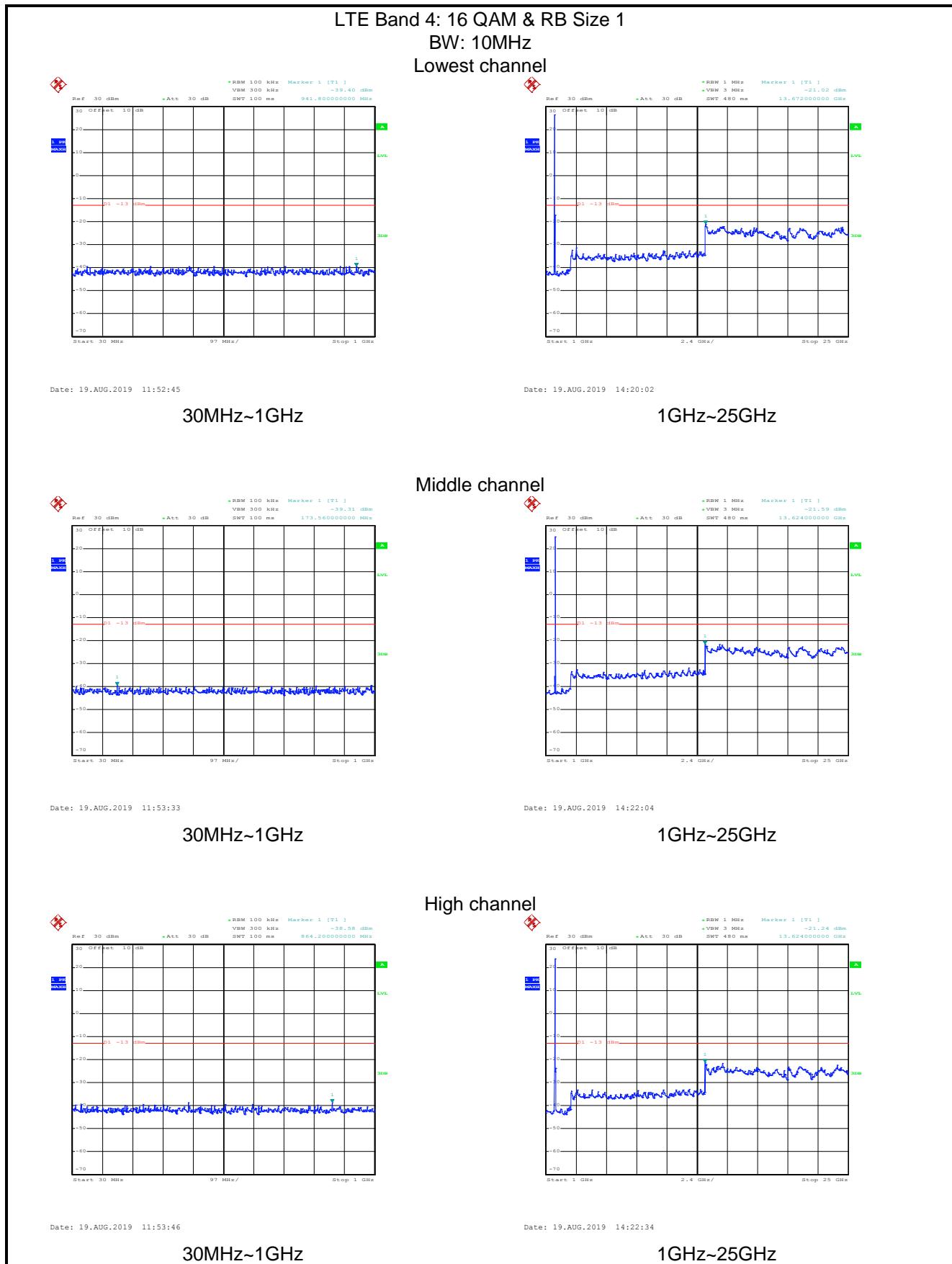


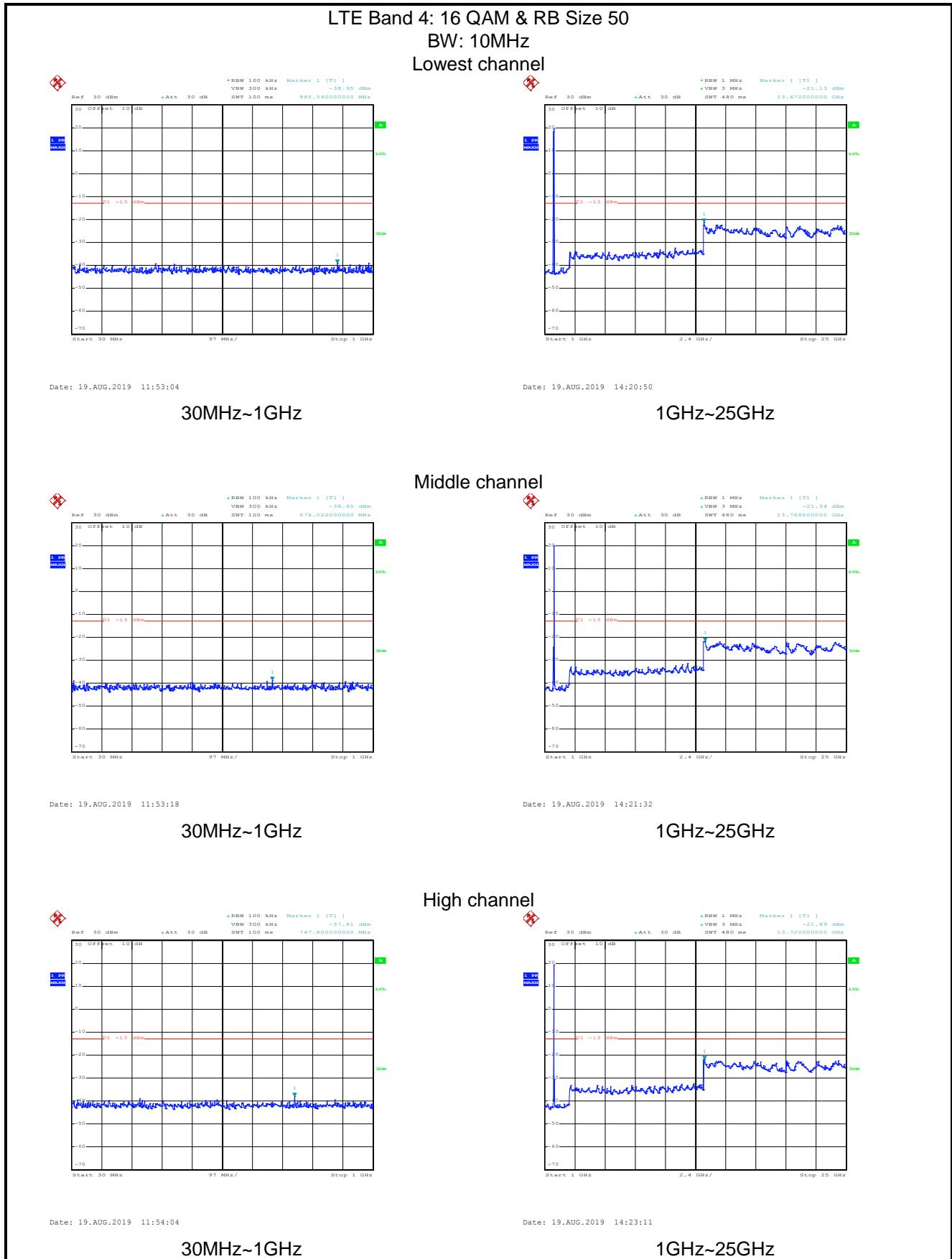


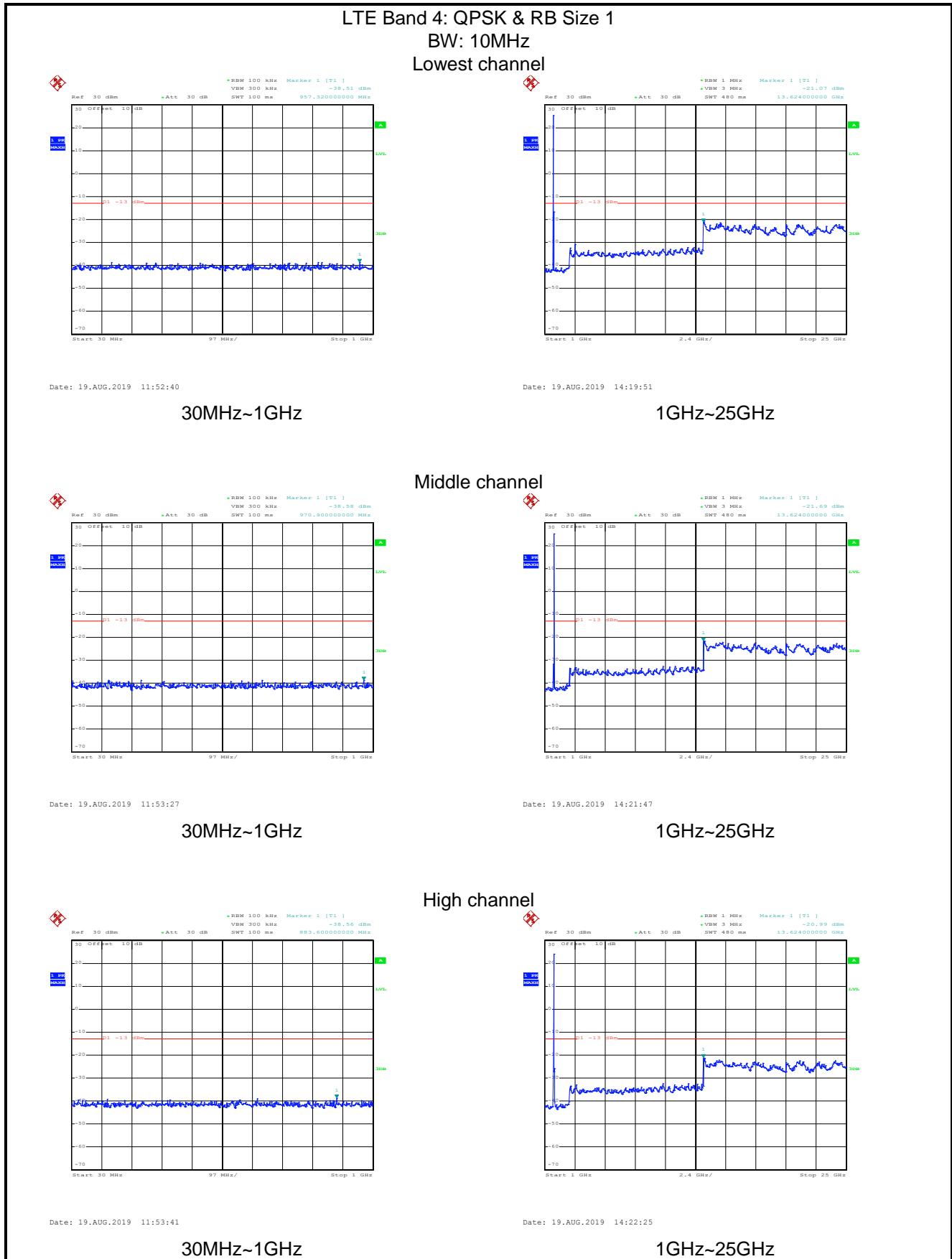


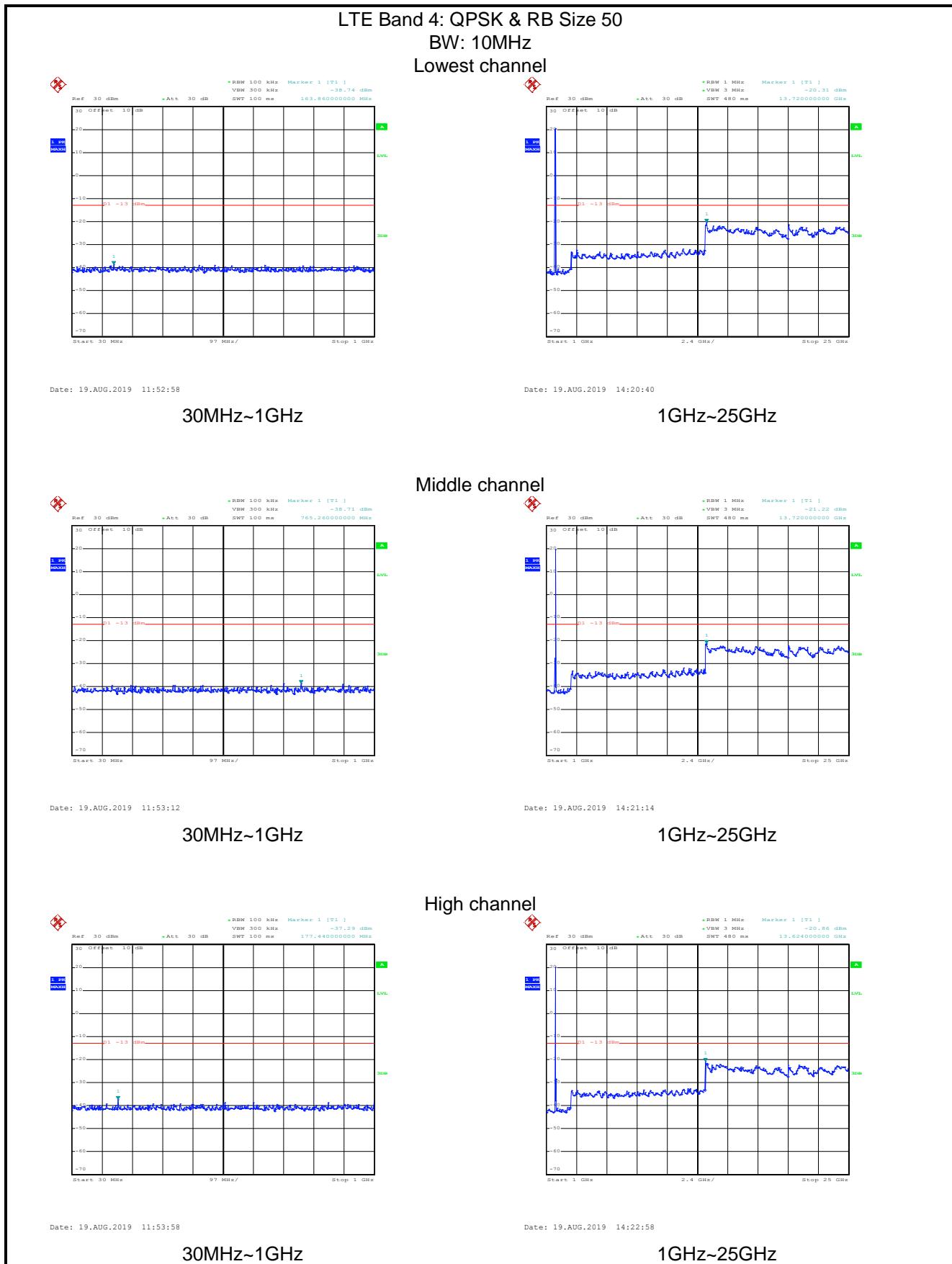


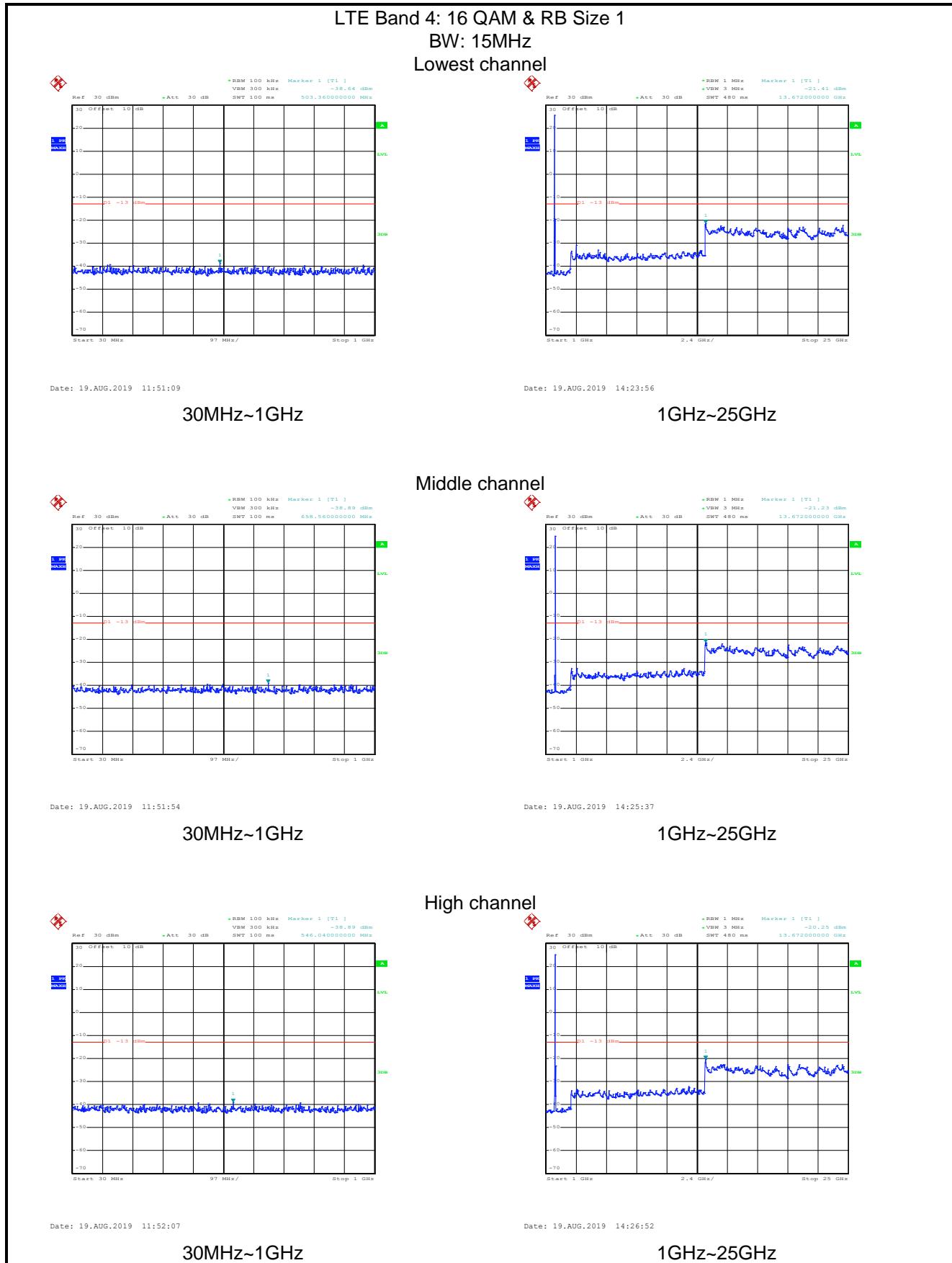


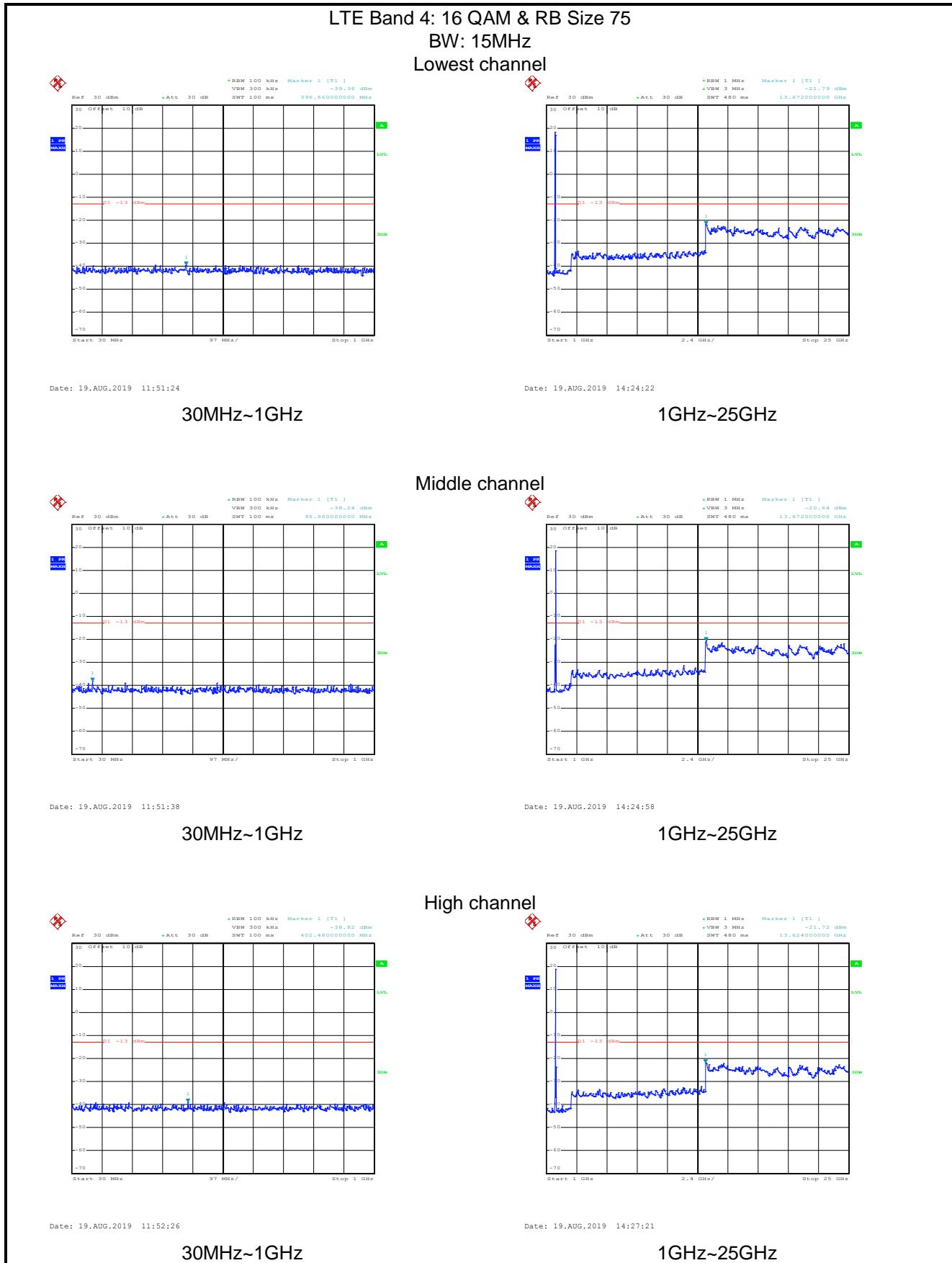


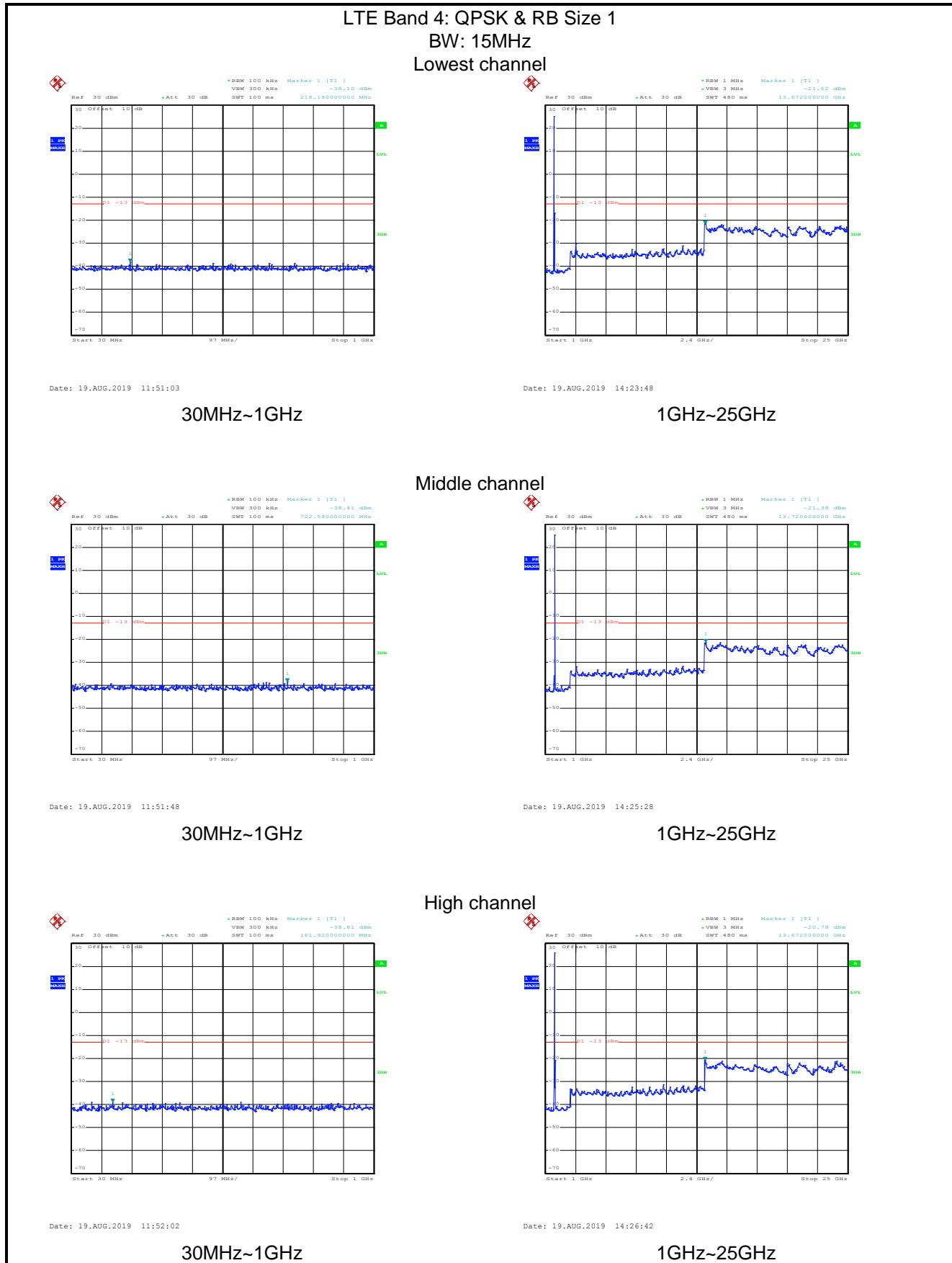


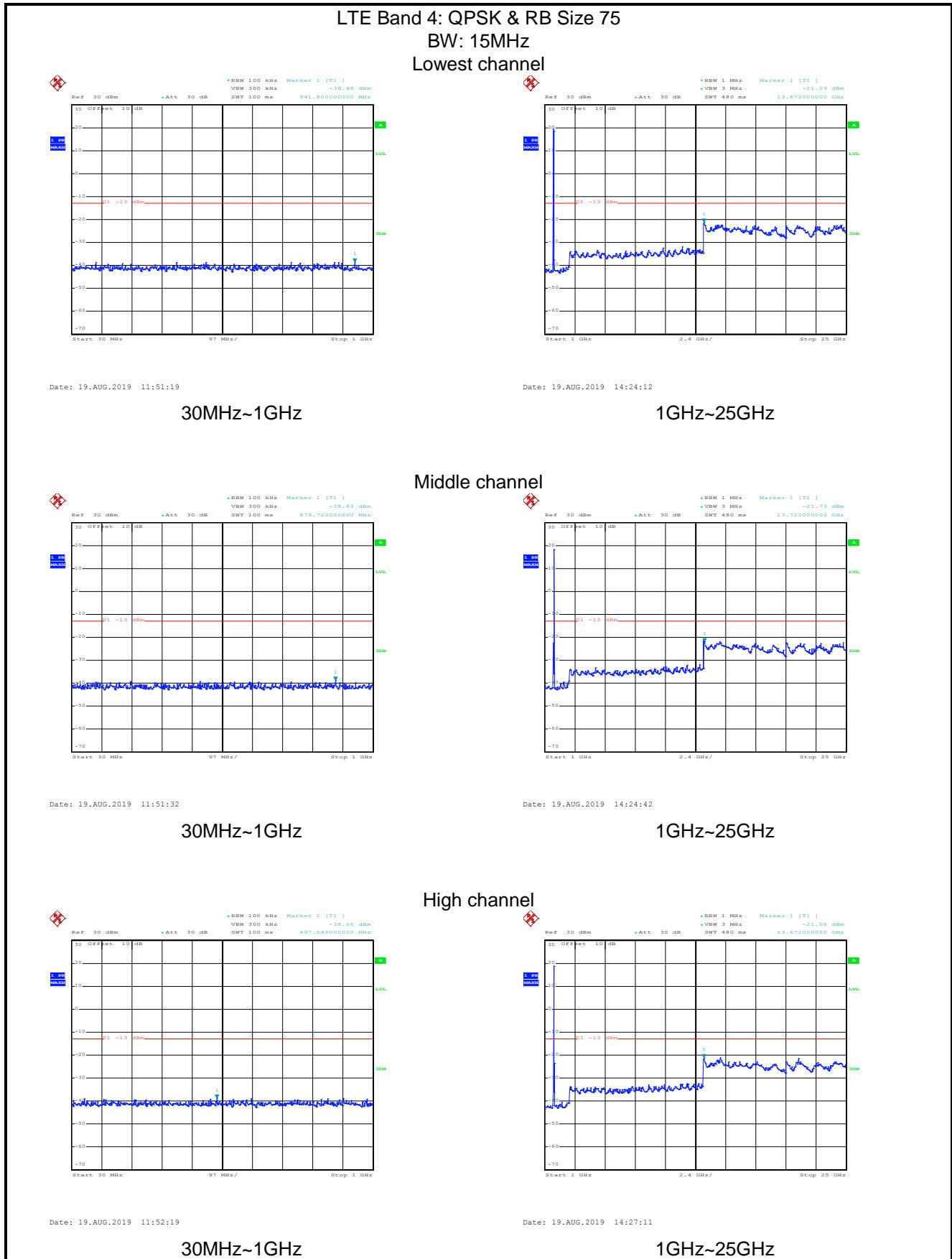


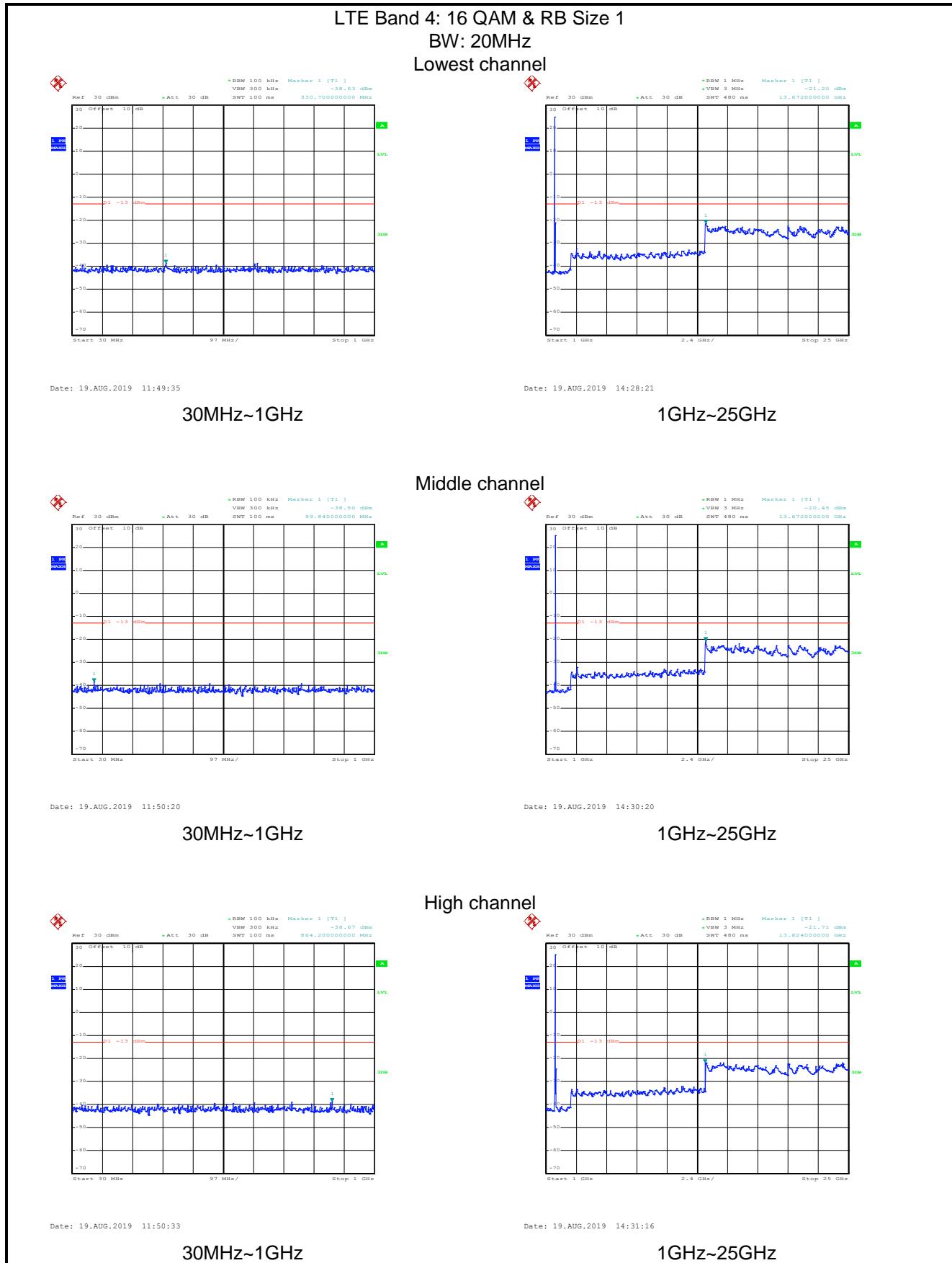


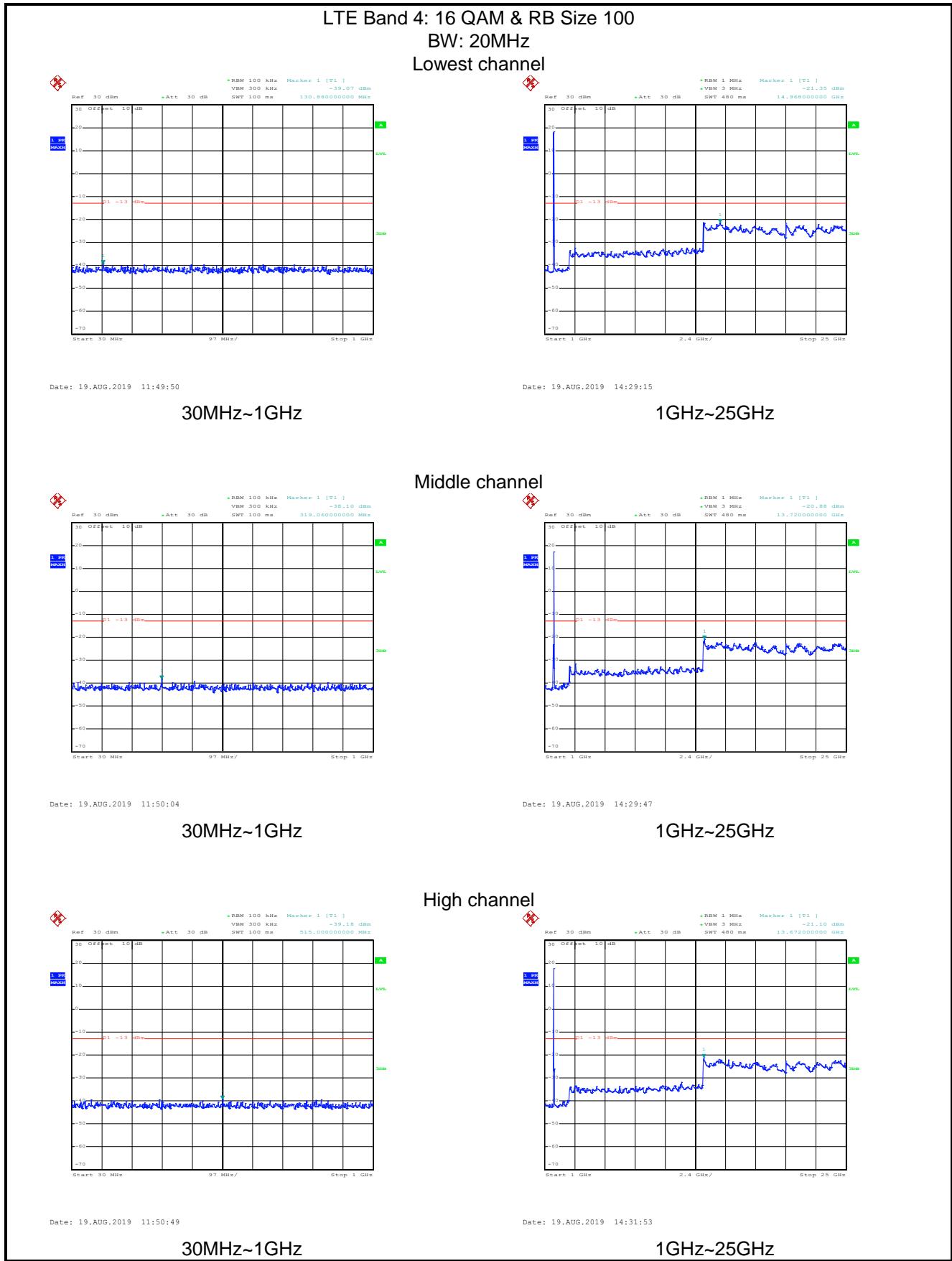


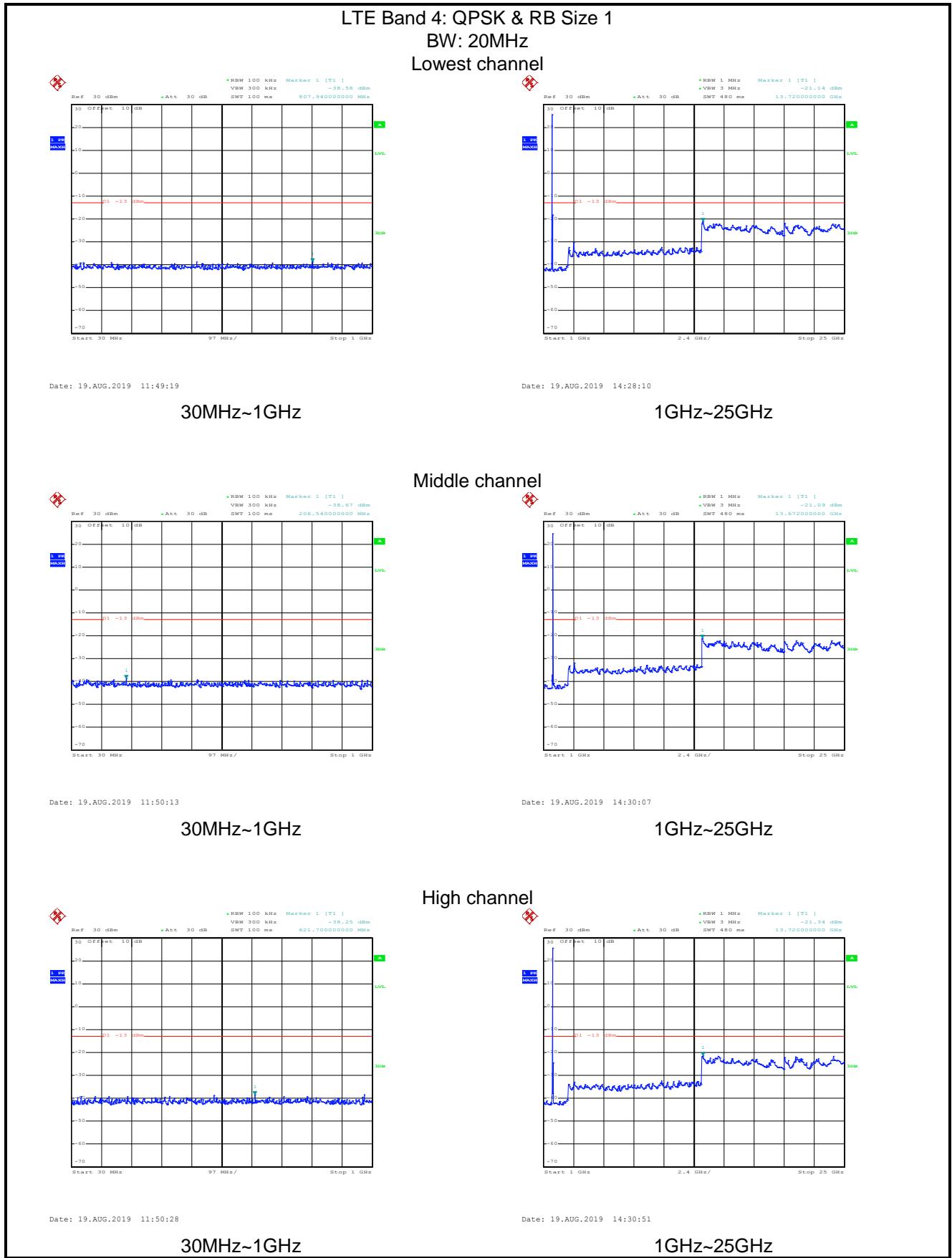


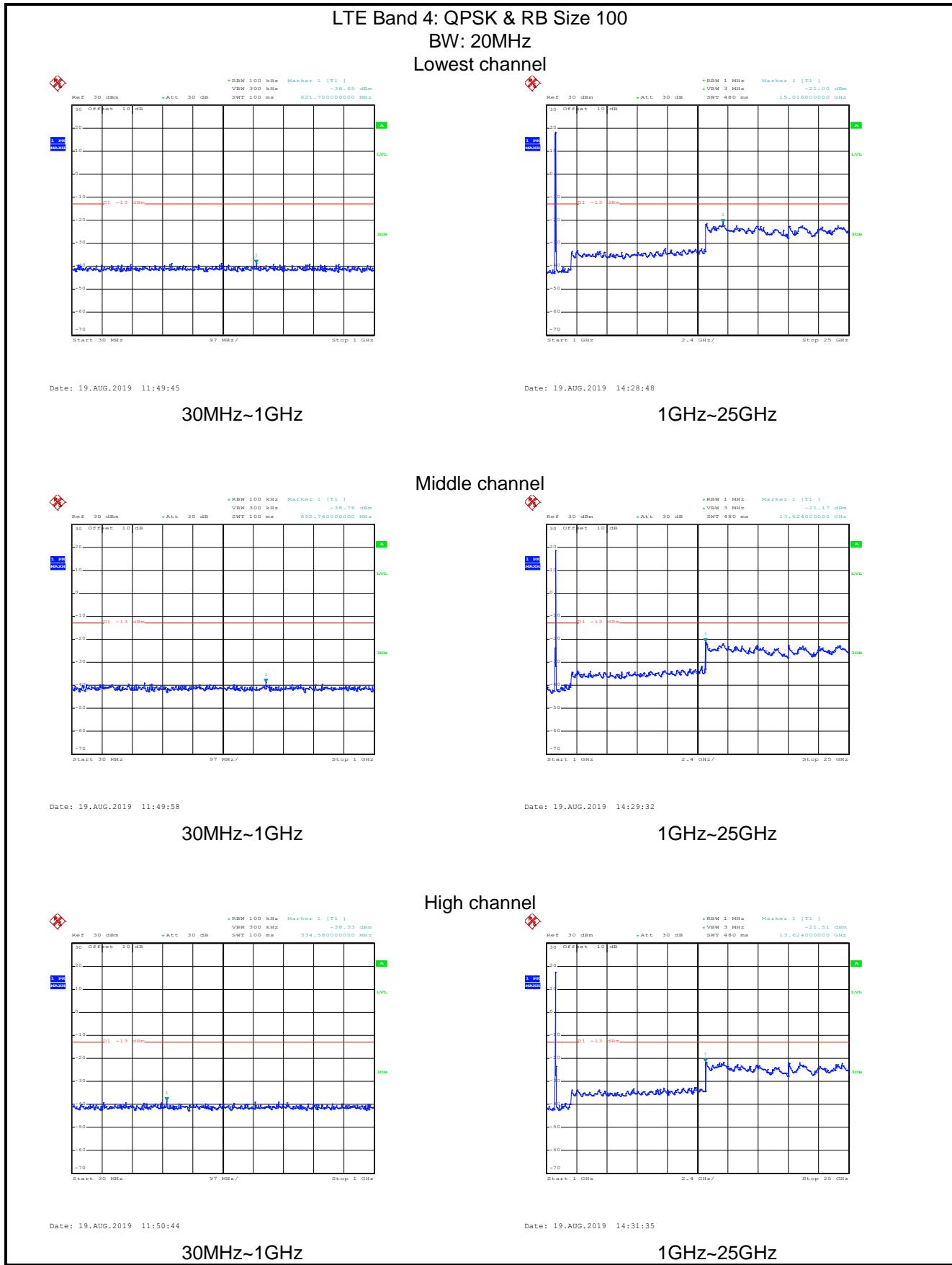












LTE Band 5 part:

