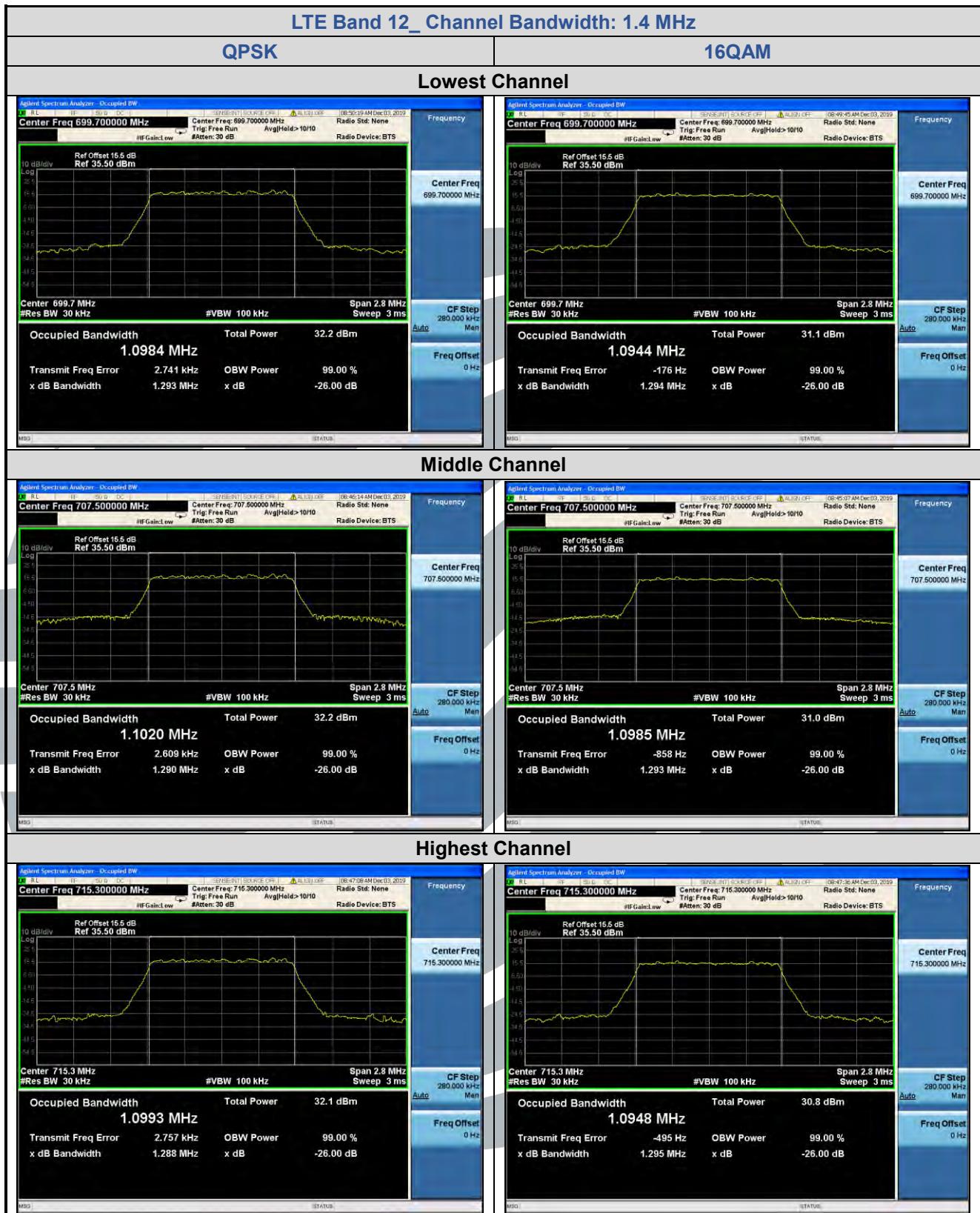
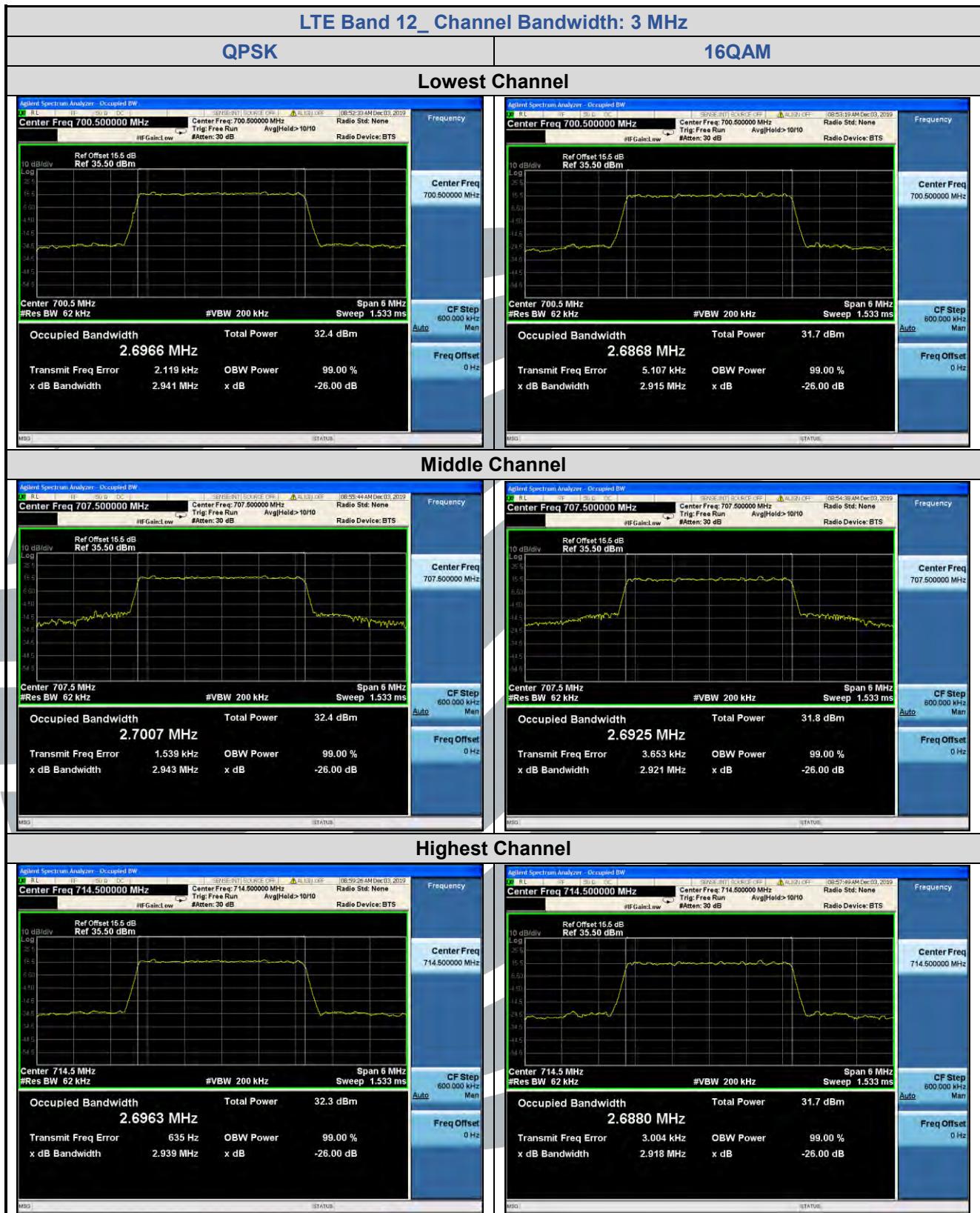


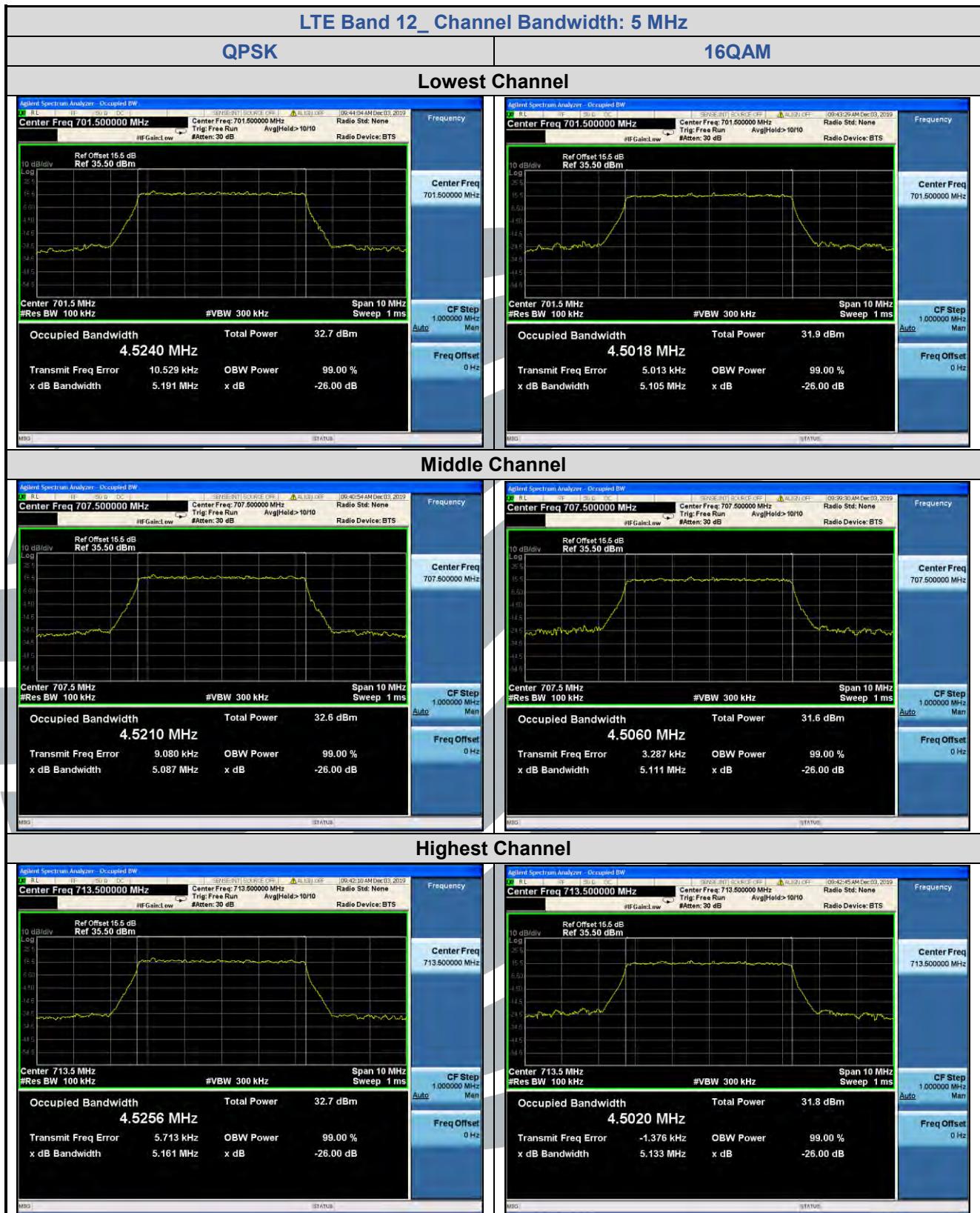
### 5.5.5 LTE Band 12

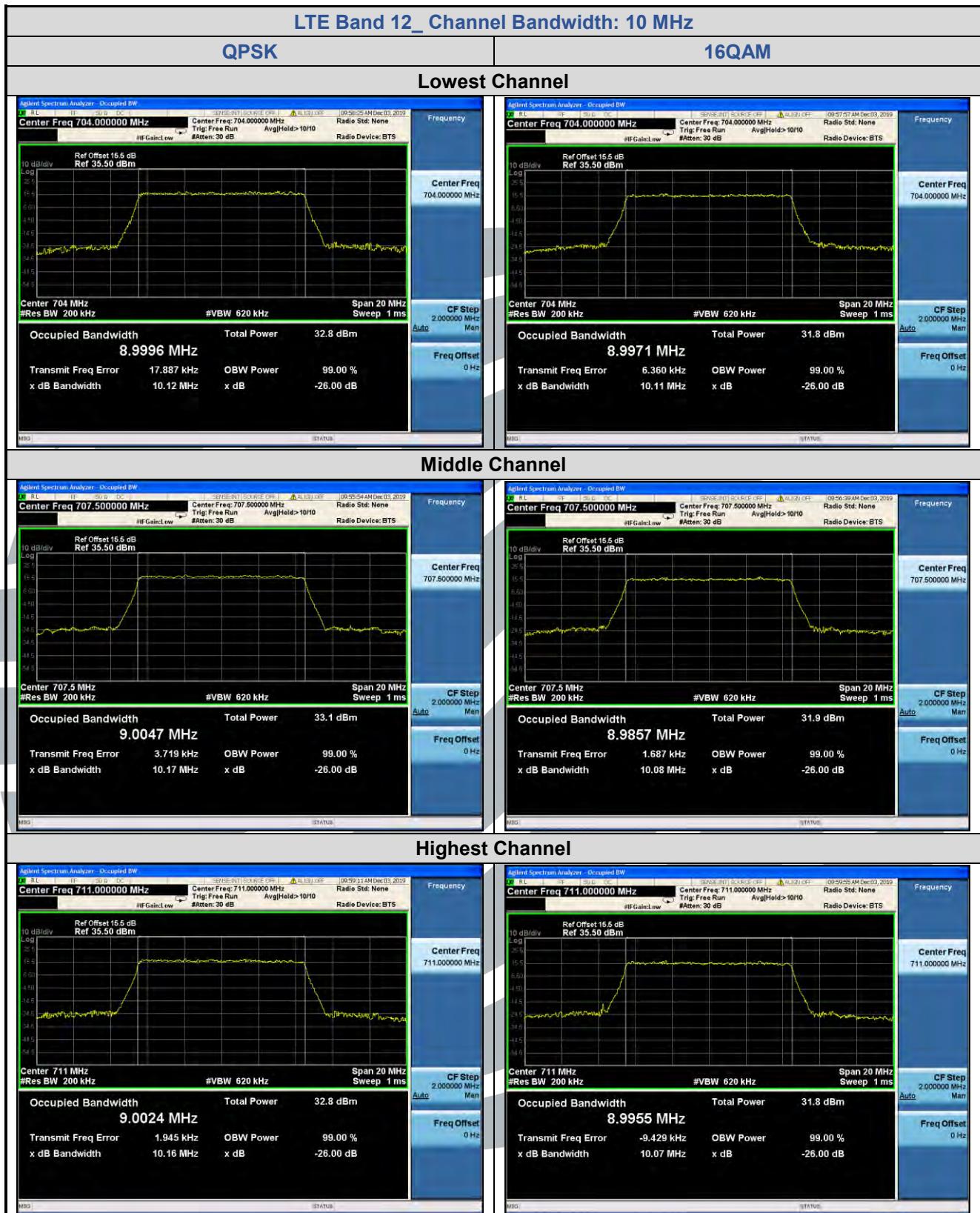
LTE Band 12								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Channel Bandwidth: 1.4 MHz								
Lowest	6	0	1.293	1.294	/	1.098	1.094	/
Middle	6	0	1.290	1.293	/	1.102	1.099	/
Highest	6	0	1.288	1.295	/	1.099	1.095	/
Channel Bandwidth: 3 MHz								
Lowest	15	0	2.941	2.915	/	2.697	2.687	/
Middle	15	0	2.943	2.921	/	2.701	2.693	/
Highest	15	0	2.939	2.918	/	2.696	2.688	/
Channel Bandwidth: 5 MHz								
Lowest	25	0	5.191	5.105	/	4.524	4.502	/
Middle	25	0	5.087	5.111	/	4.521	4.506	/
Highest	25	0	5.161	5.133	/	4.526	4.502	/
Channel Bandwidth: 10 MHz								
Lowest	50	0	10.12	10.11	/	9.00	9.00	/
Middle	50	0	10.17	10.08	/	9.00	8.99	/
Highest	50	0	10.16	10.07	/	9.00	9.00	/







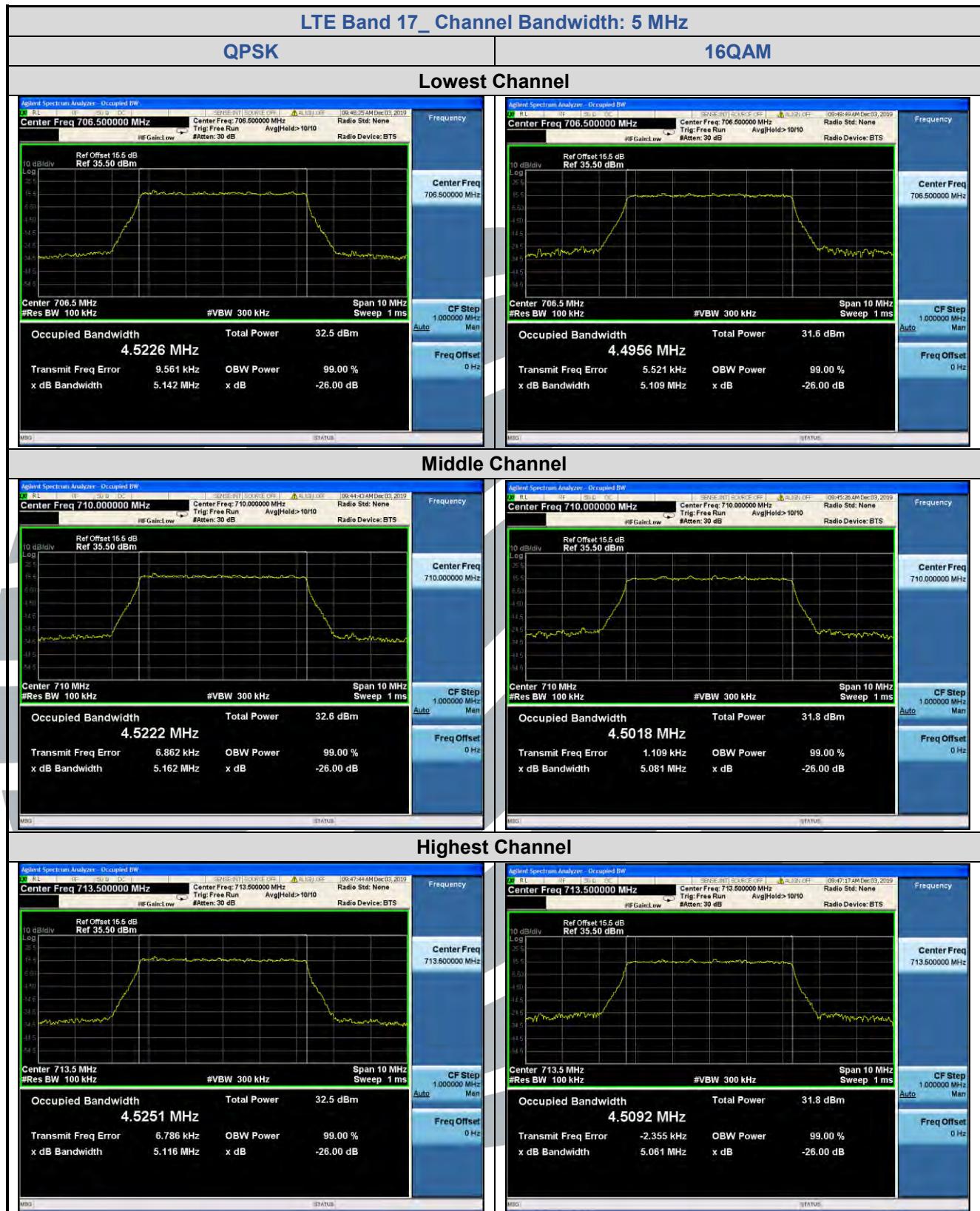


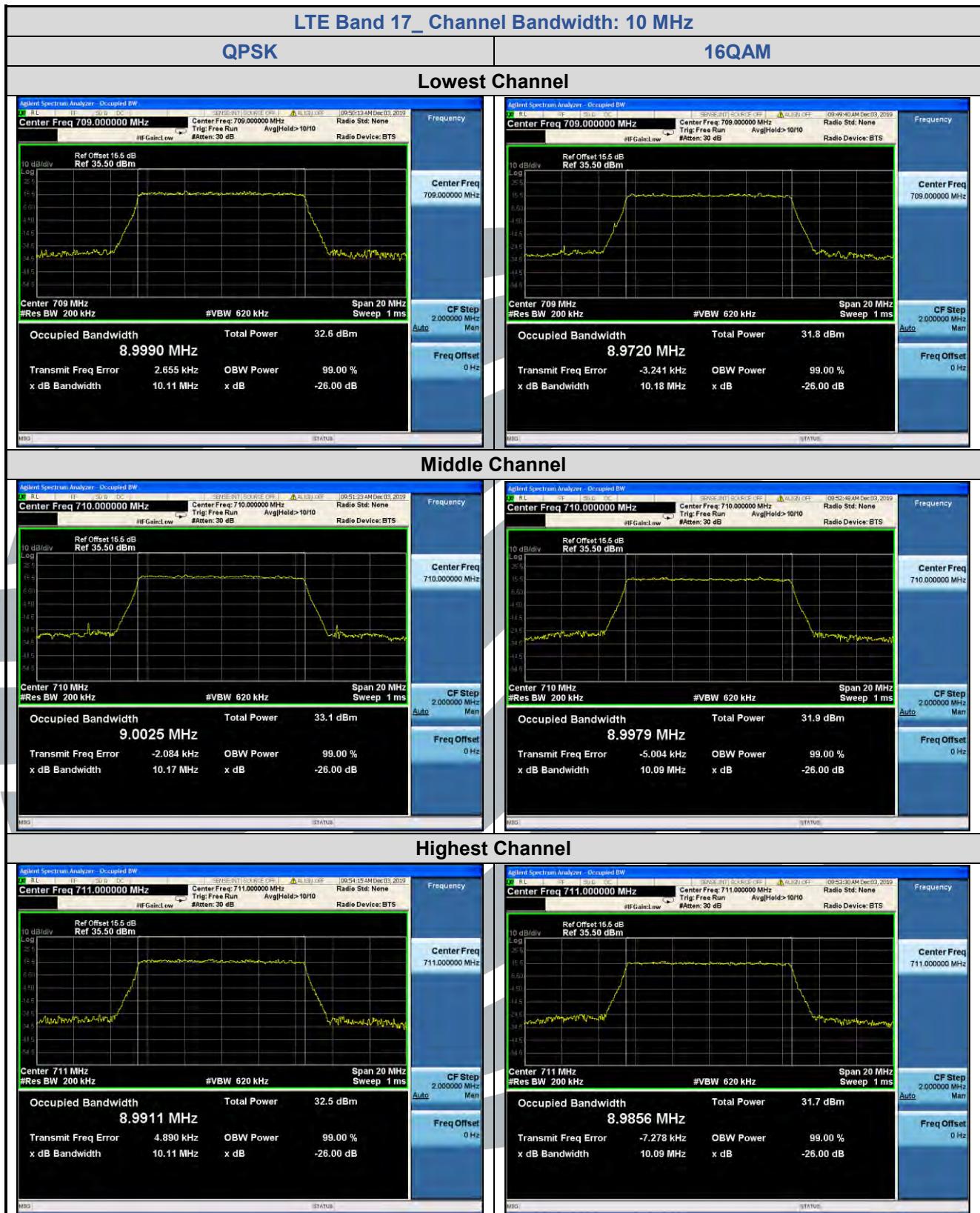


### 5.5.6 LTE Band 17

LTE Band 17								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
<b>Channel Bandwidth: 5 MHz</b>								
Lowest	25	0	5.142	5.109	/	4.523	4.496	/
Middle	25	0	5.162	5.081	/	4.522	4.502	/
Highest	25	0	5.116	5.061	/	4.525	4.509	/
<b>Channel Bandwidth: 10 MHz</b>								
Lowest	50	0	10.11	10.18	/	9.00	8.97	/
Middle	50	0	10.17	10.09	/	9.00	9.00	/
Highest	50	0	10.11	10.09	/	8.99	8.99	/







## 5.6 BAND EDGE AT ANTENNA TERMINALS

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

LTE Band 4: FCC 47 CFR Part 27.53(h)(1)

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

LTE Band 7: FCC 47 CFR Part 27.53(m)(4)

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

LTE Band 17: FCC 47 CFR Part 27.53(c)(2)

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

**Limit:**

**FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(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. The emission limit equal to -13 dBm.

**FCC 47 CFR Part 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.

**FCC 47 CFR Part 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.

**FCC 47 CFR Part 27.53(c)(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;

**Test Procedure:**

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer.

For each band edge measurement:

- 1) Set the spectrum analyzer span to include the block edge frequency.
- 2) Set a marker to point the corresponding band edge frequency in each test case.
- 3) Set display line at -13 dBm
- 4) Set resolution bandwidth to at least 1% of emission bandwidth.
- 5) Set spectrum analyzer with RMS detector.
- 6) Record the max trace plot into the test report

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

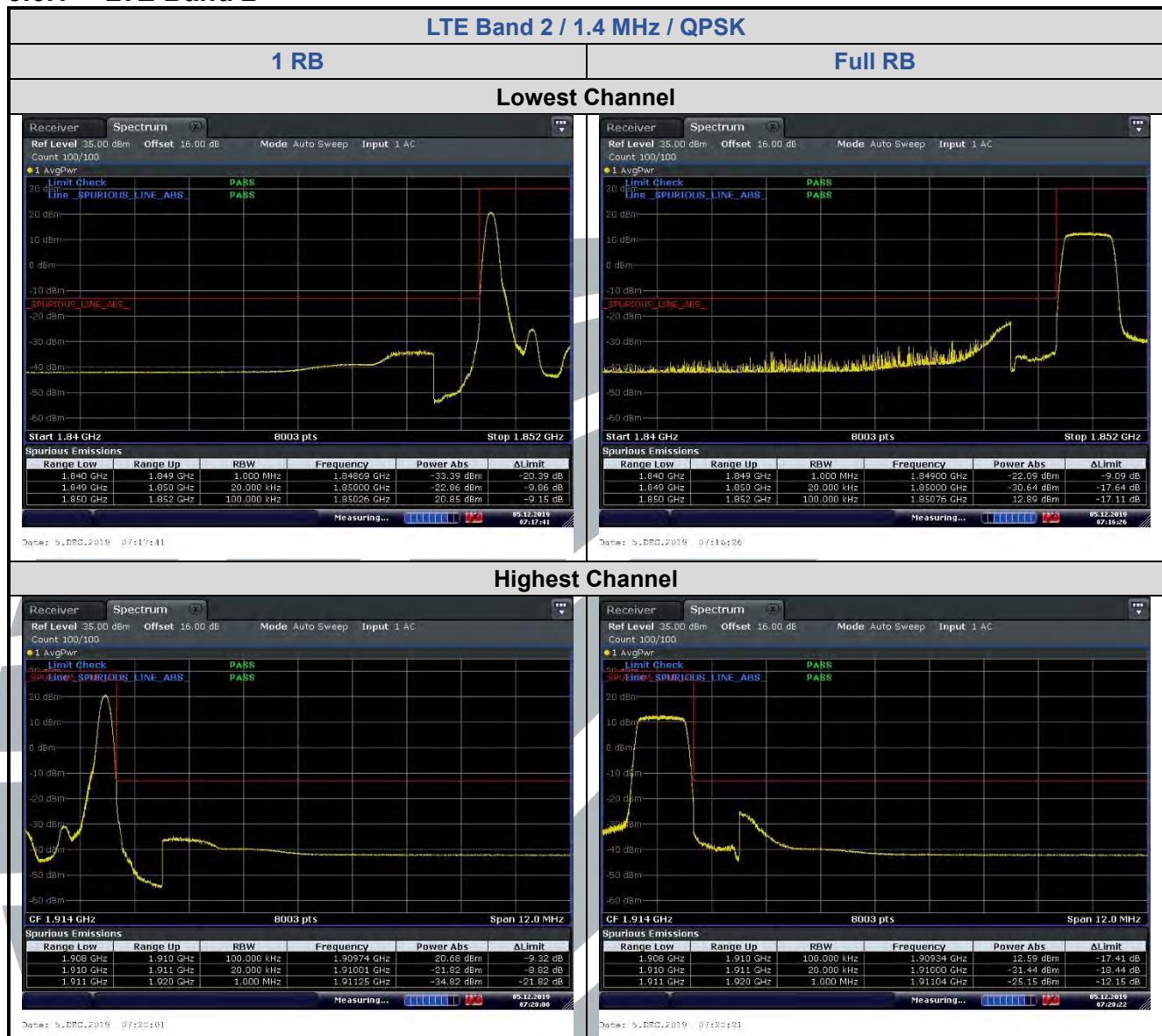
**Test Setup:** Refer to section 4.2.2 for details.

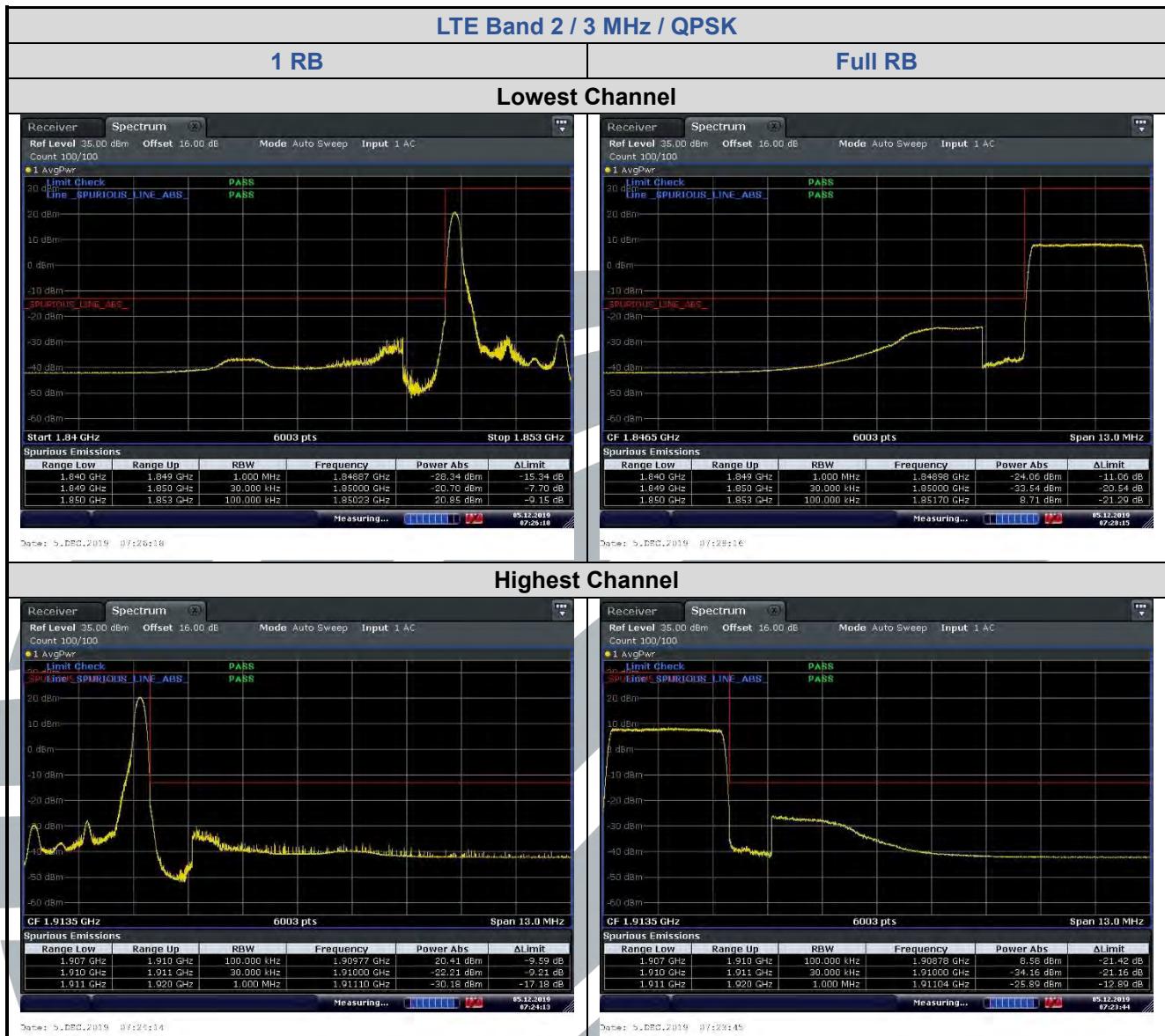
**Instruments Used:** Refer to section 3 for details

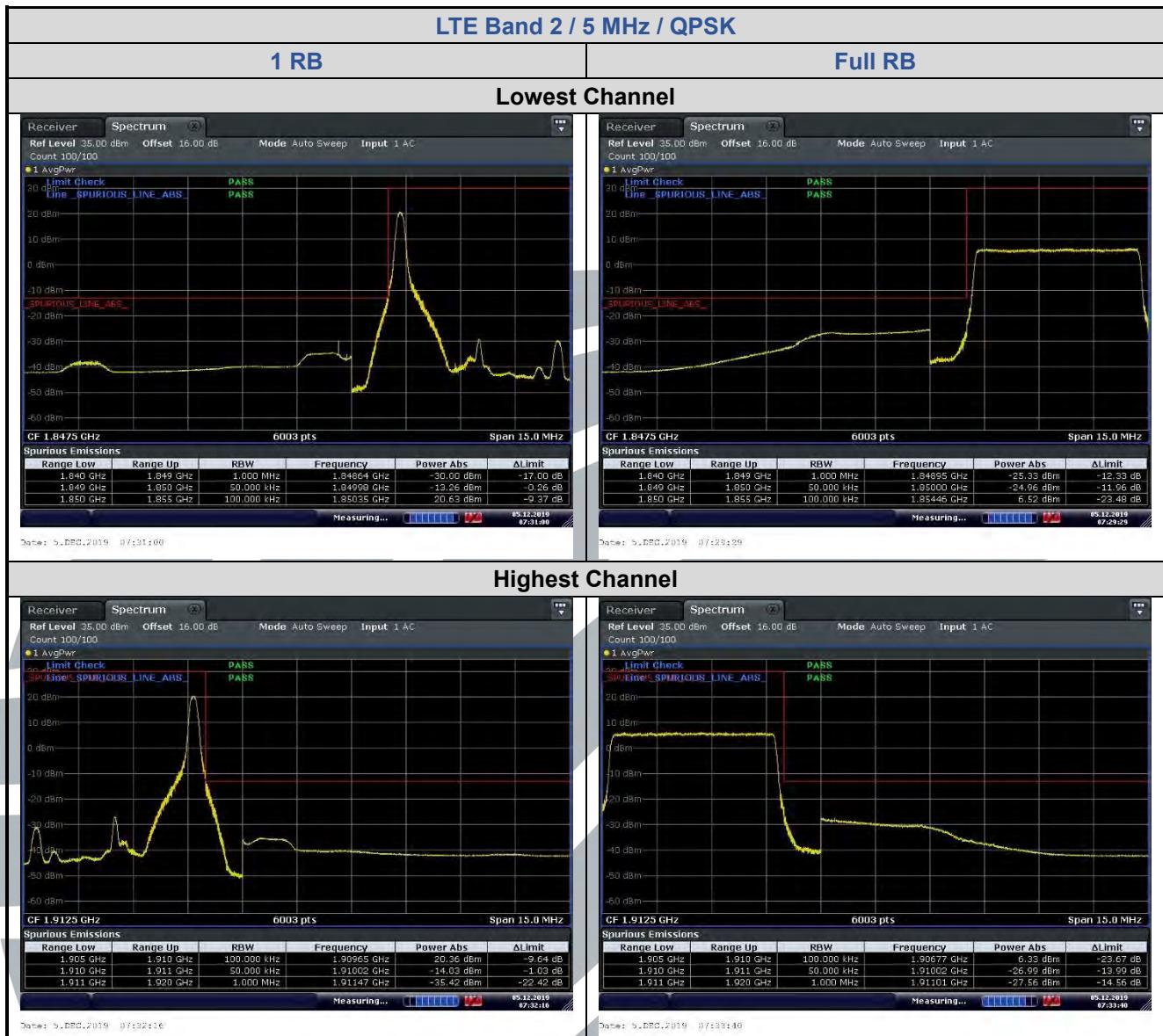
**Test Mode:** Link mode

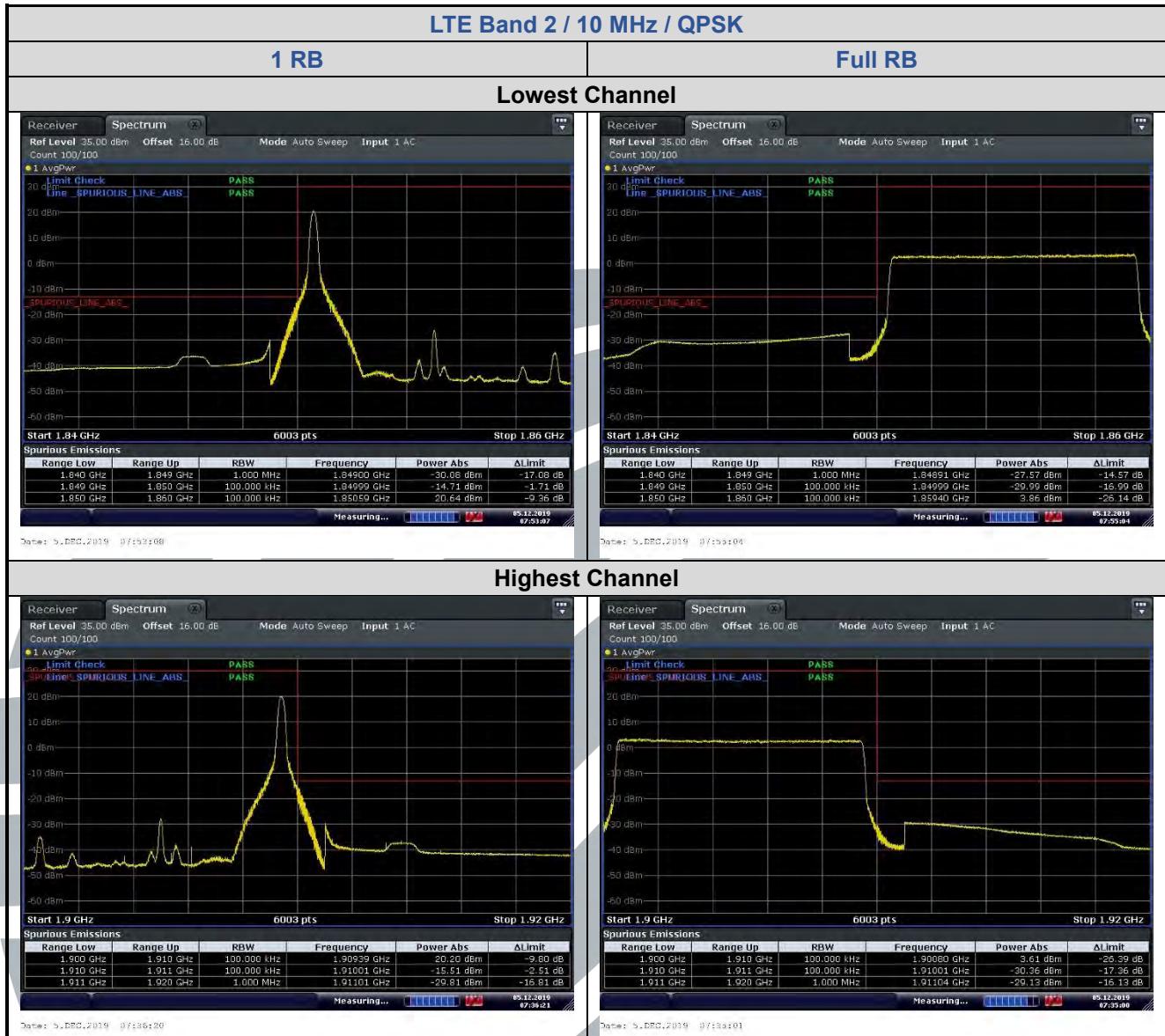
**Test Results:** Pass

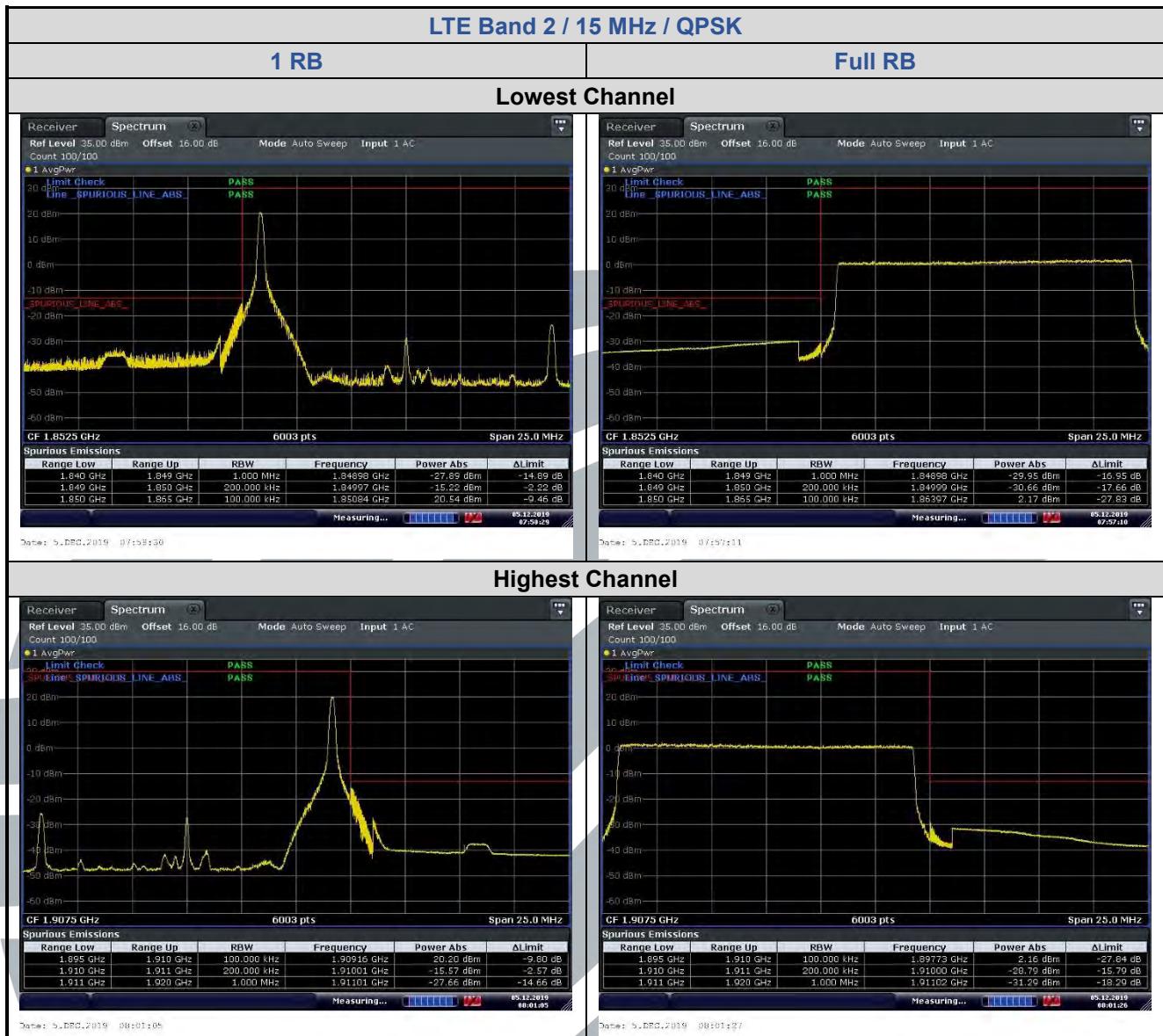
### 5.6.1 LTE Band 2

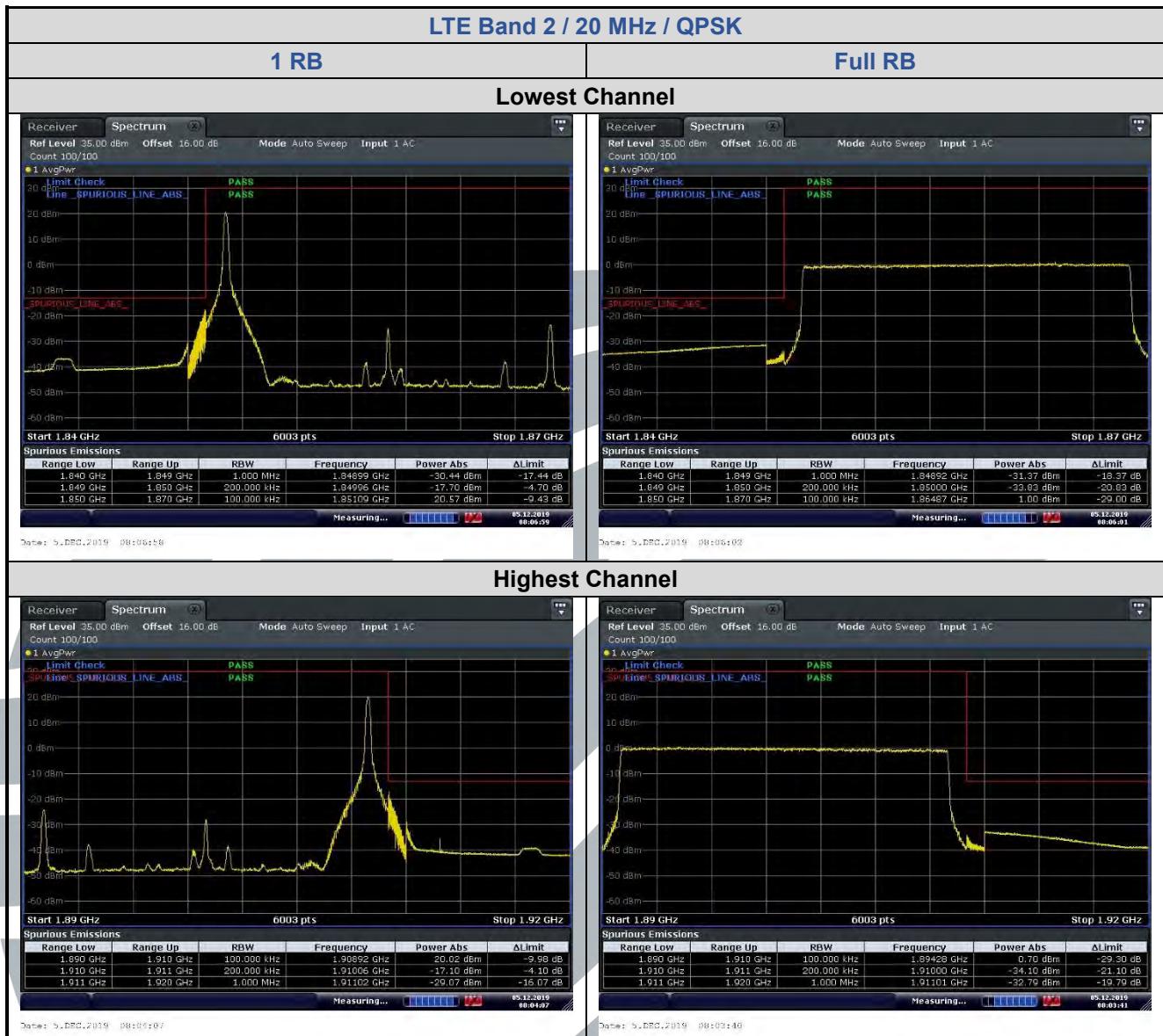


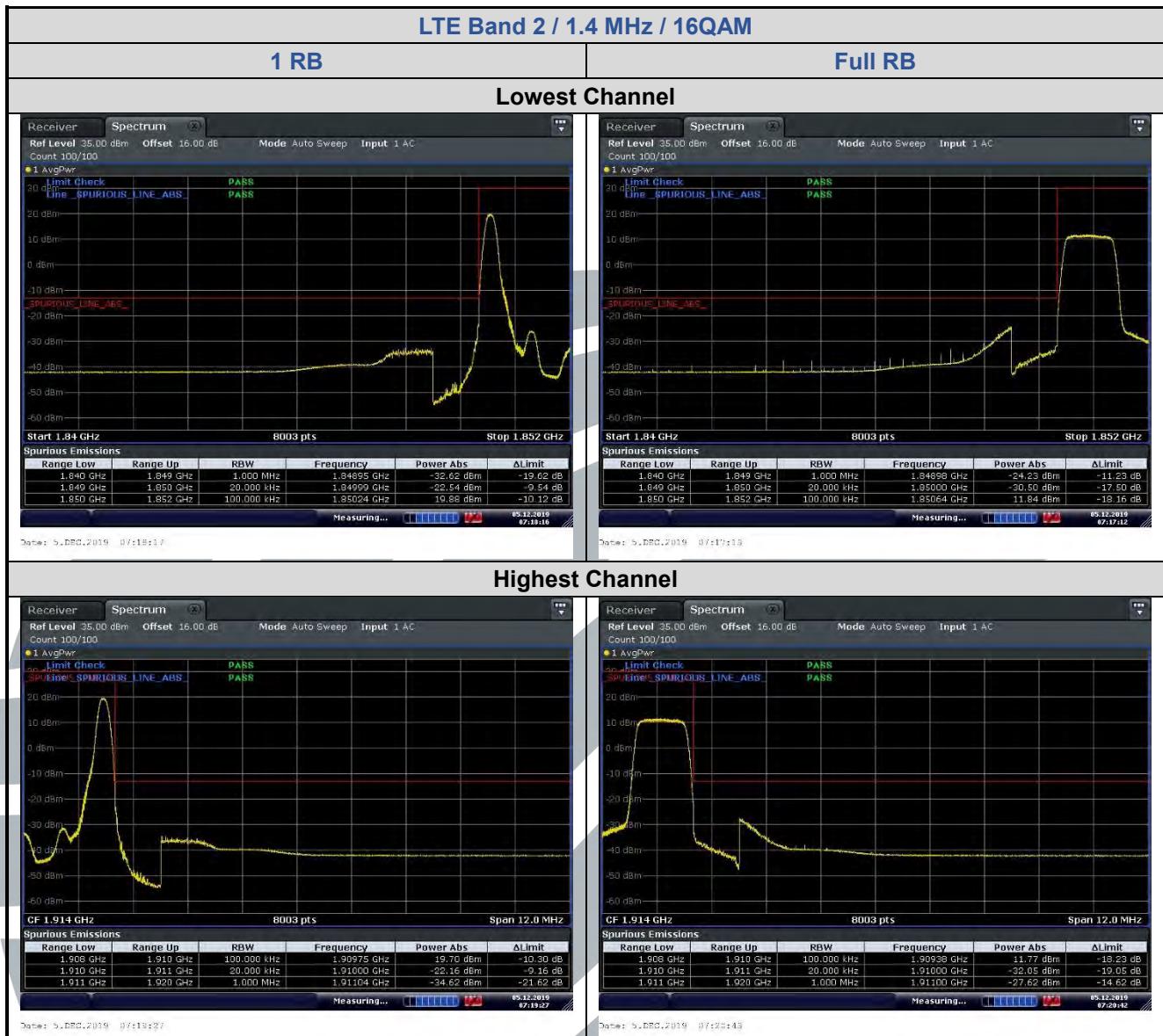


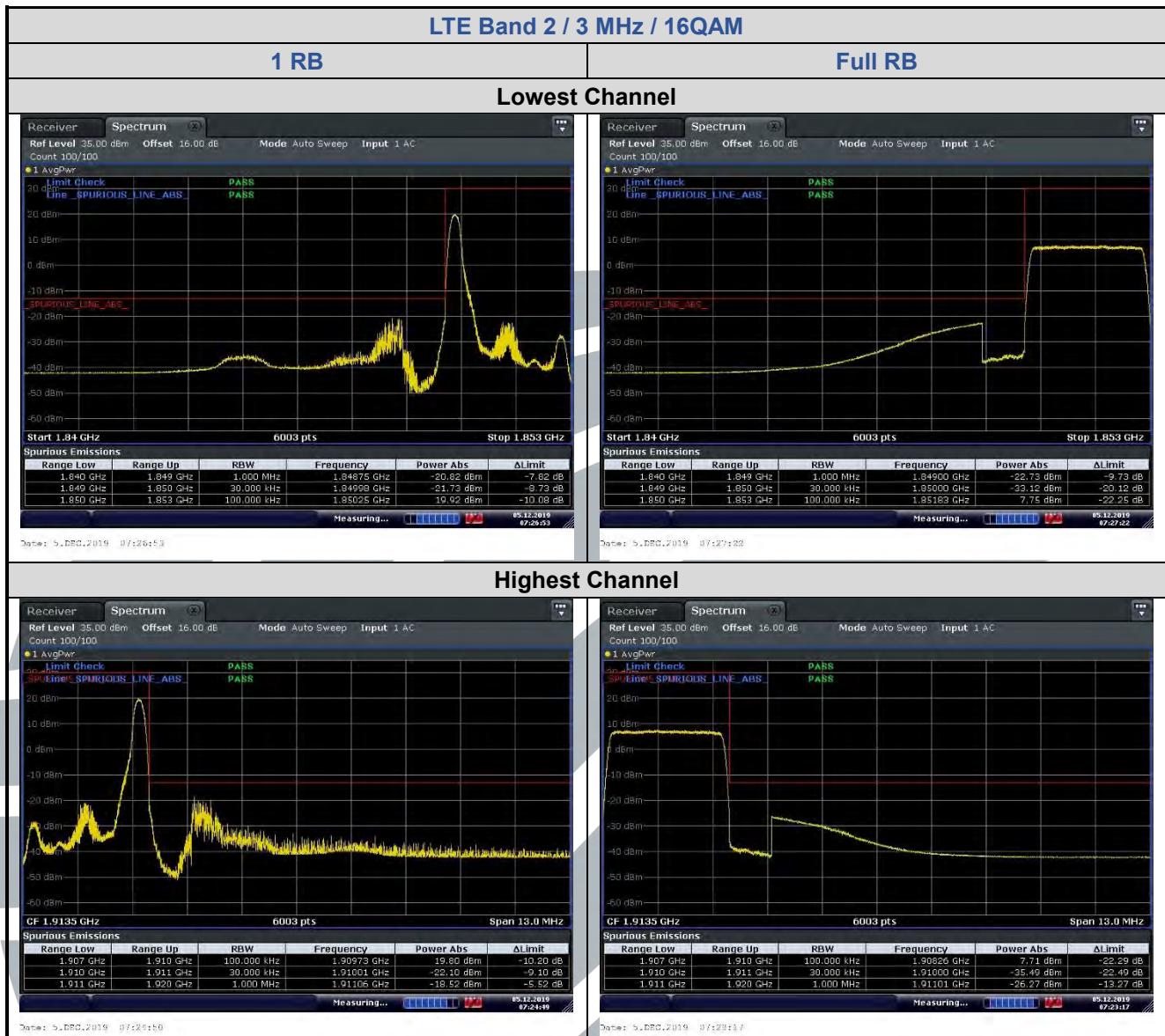


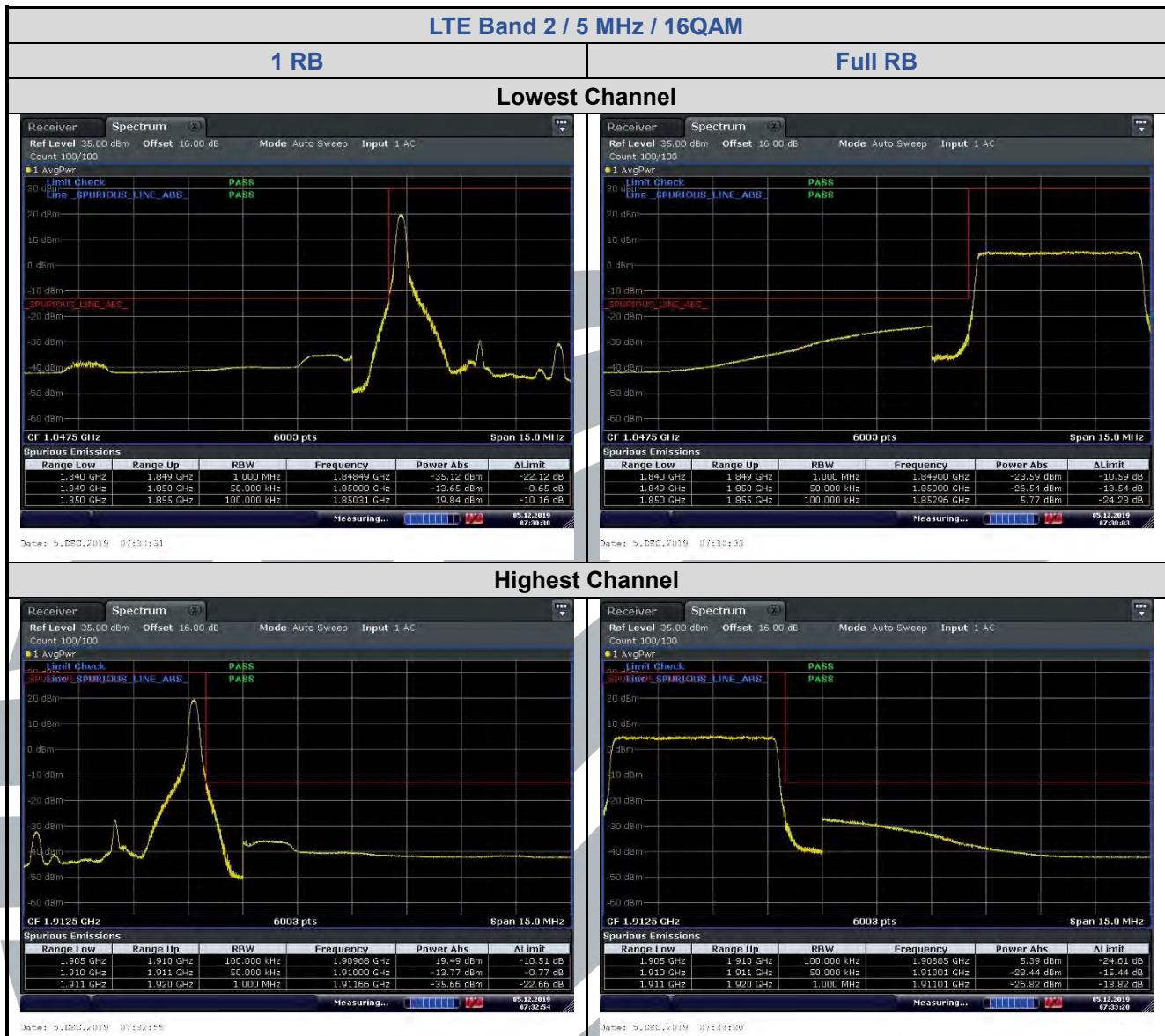


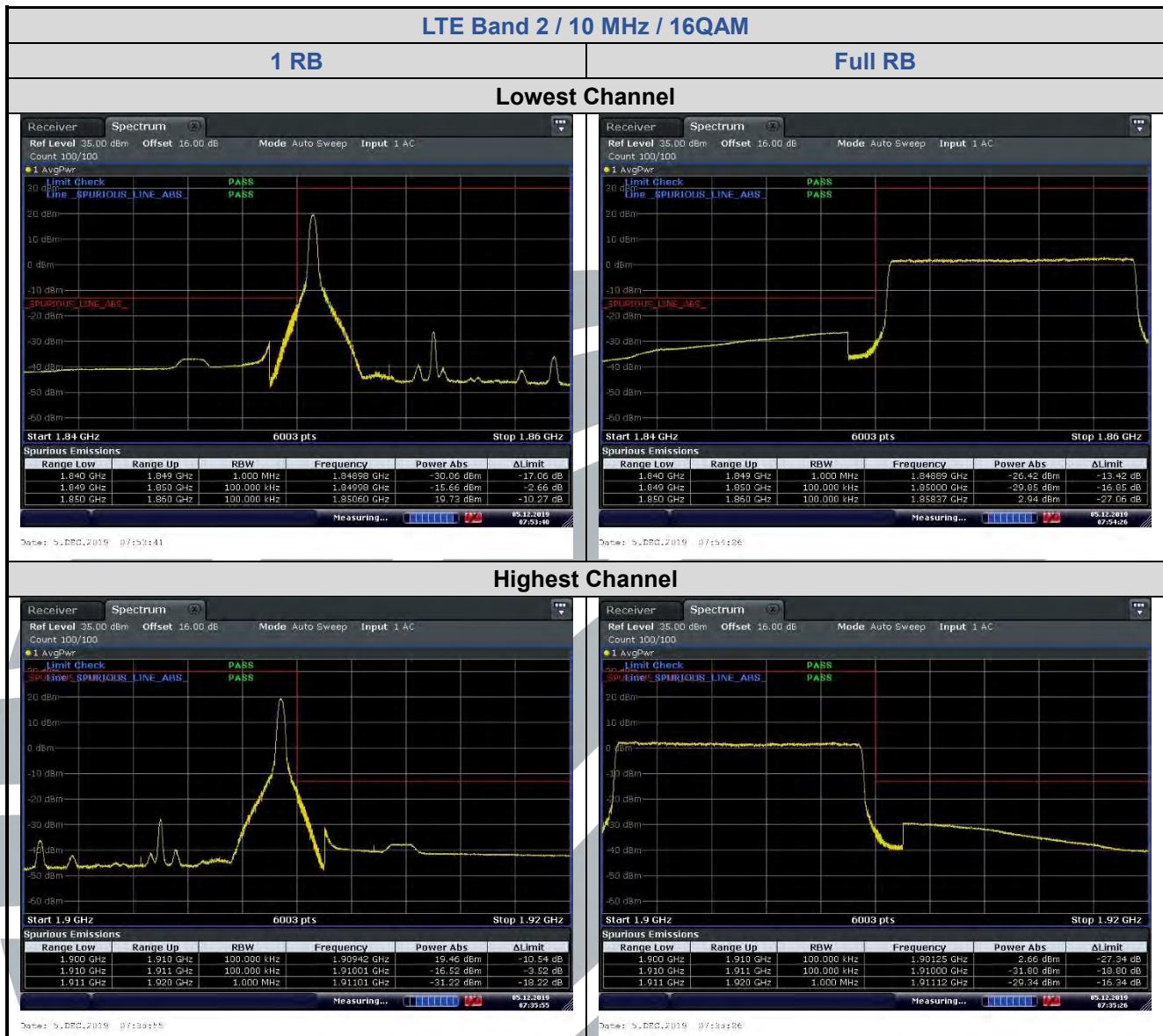


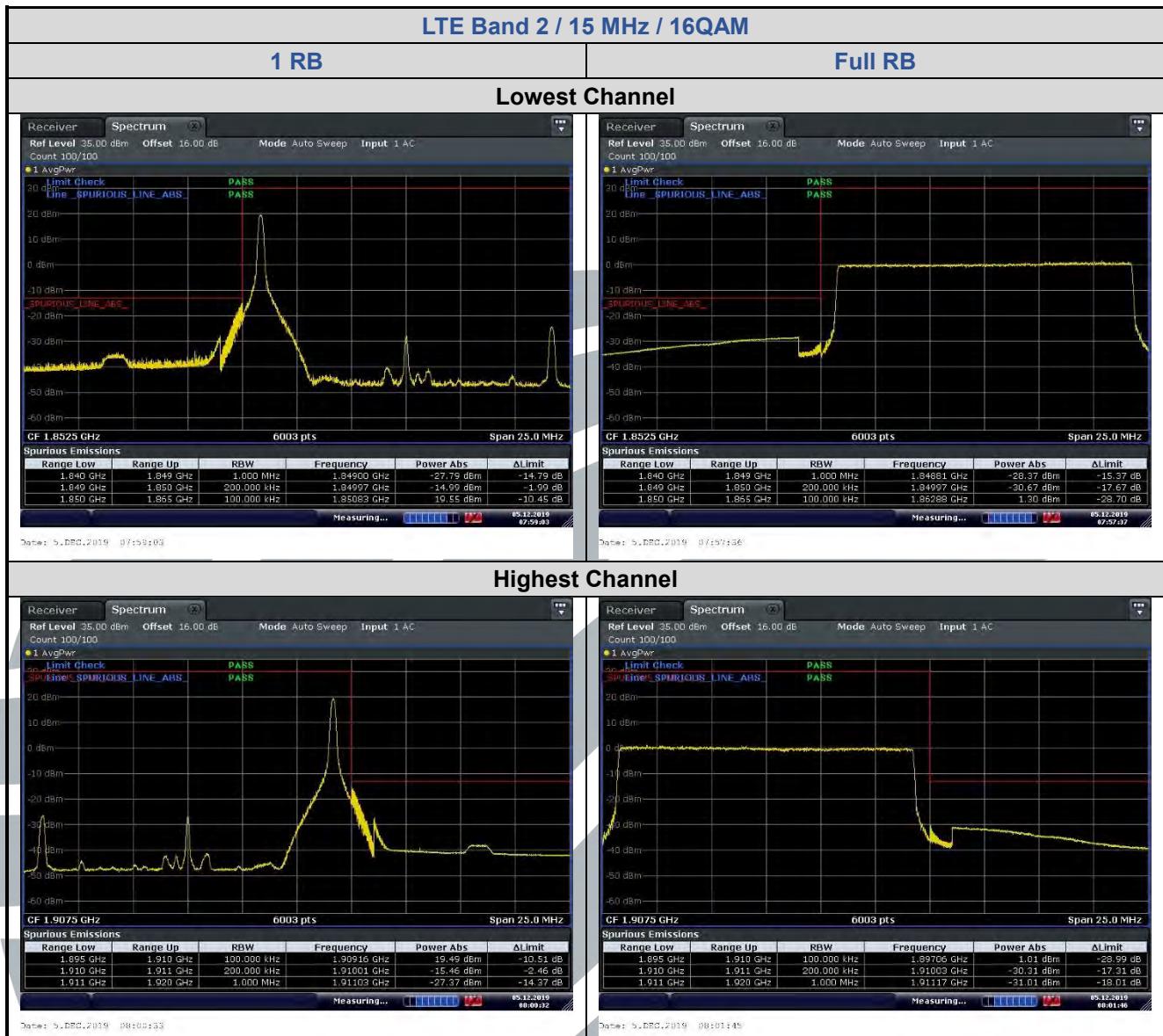


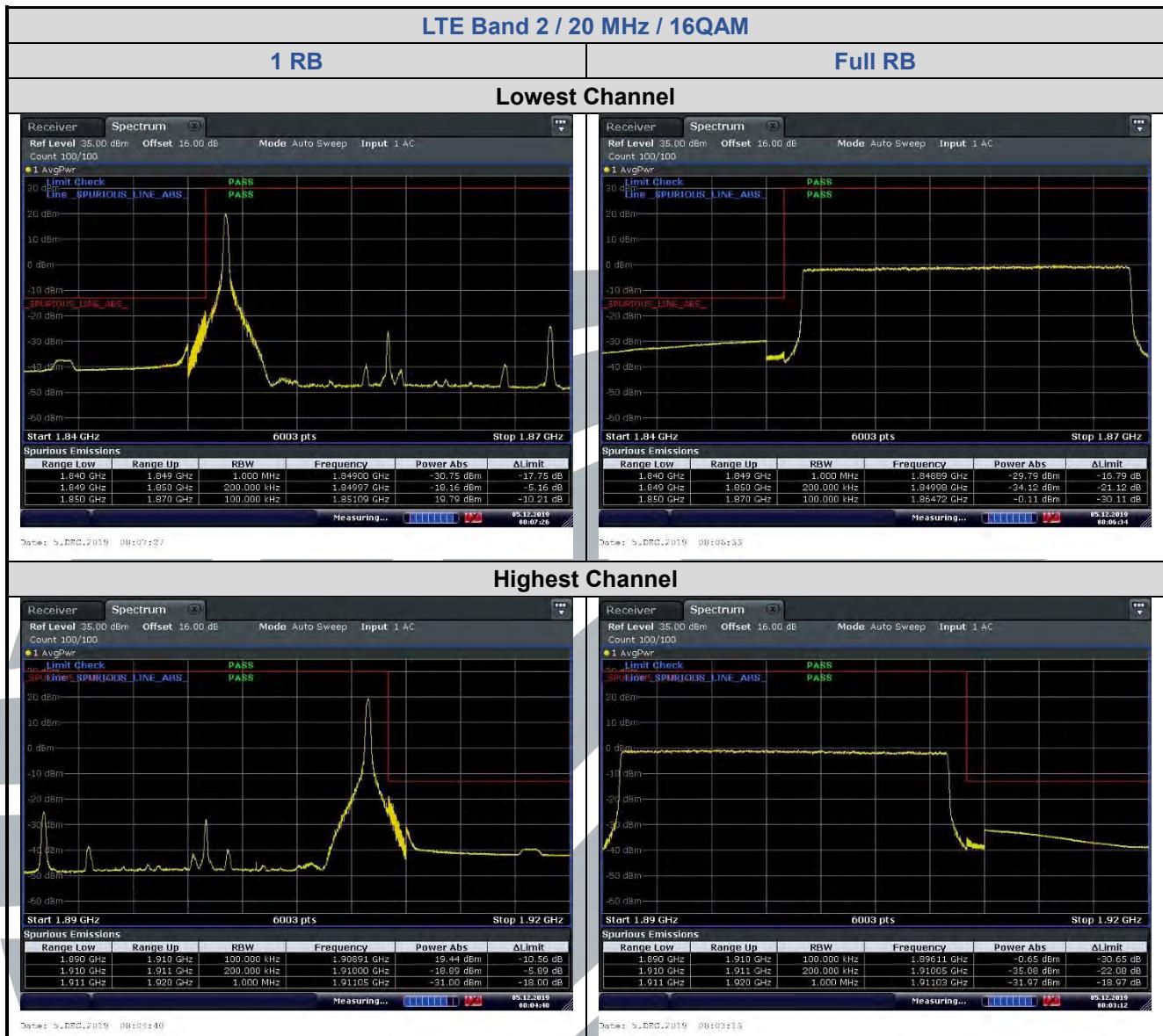




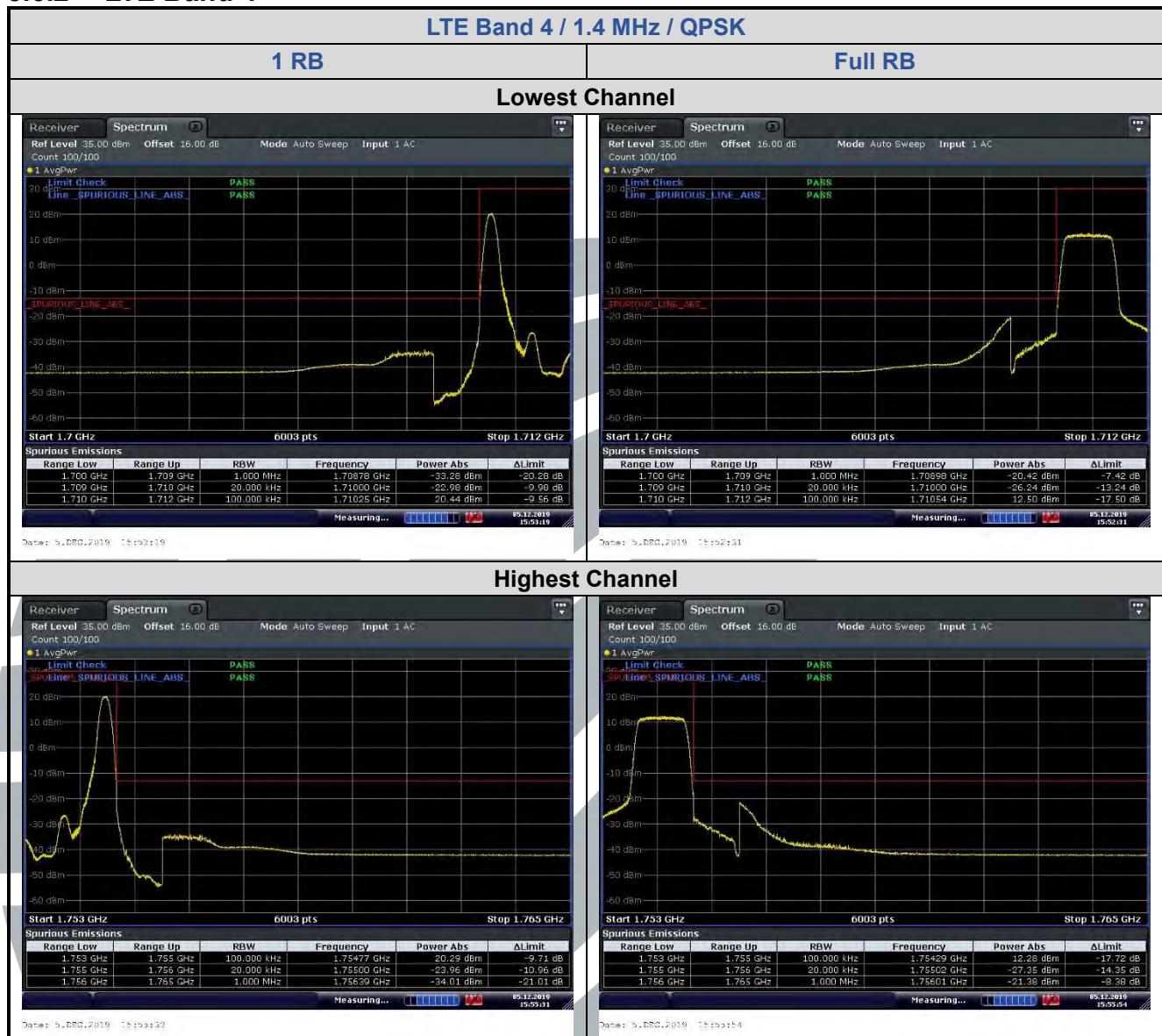


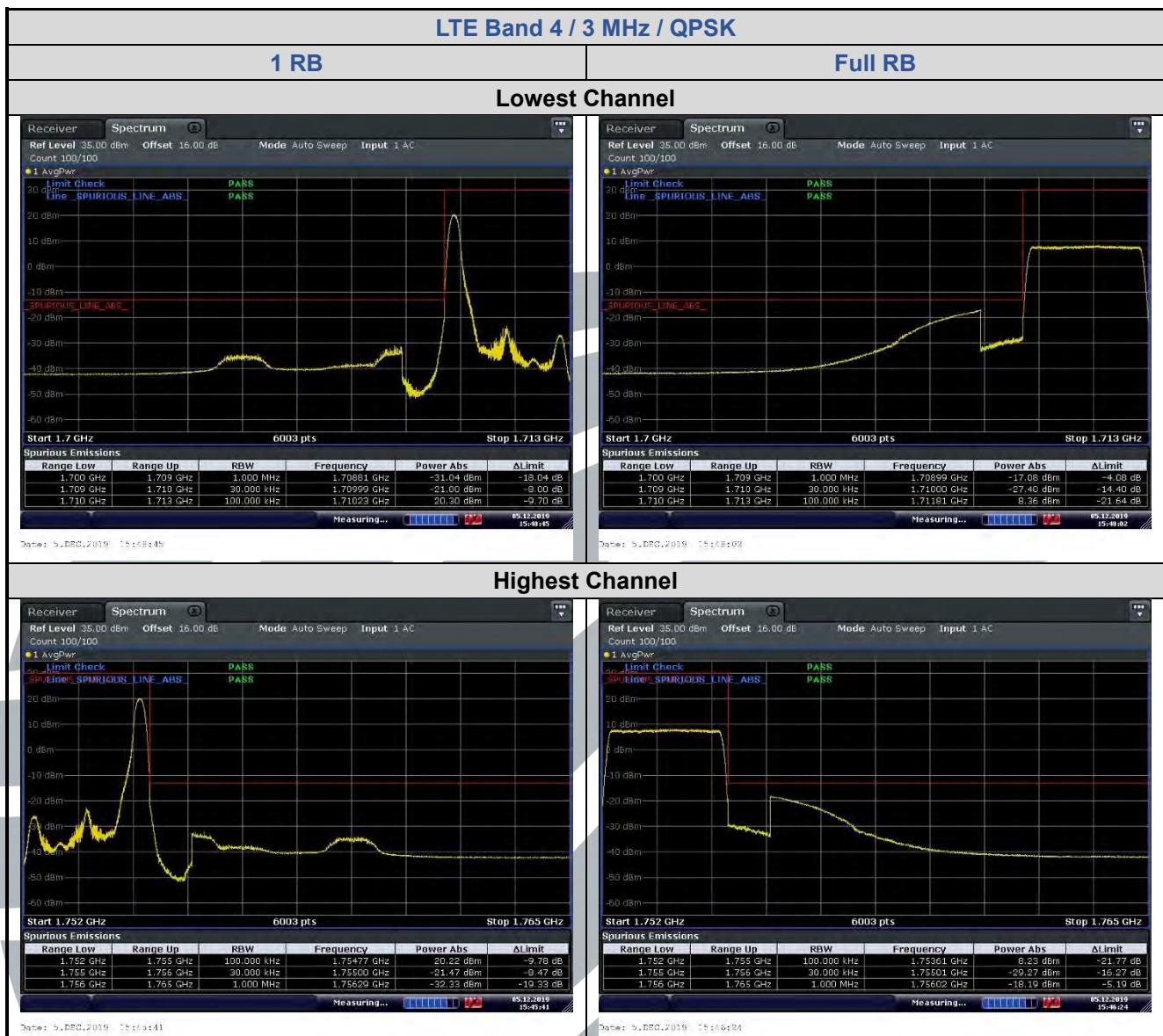


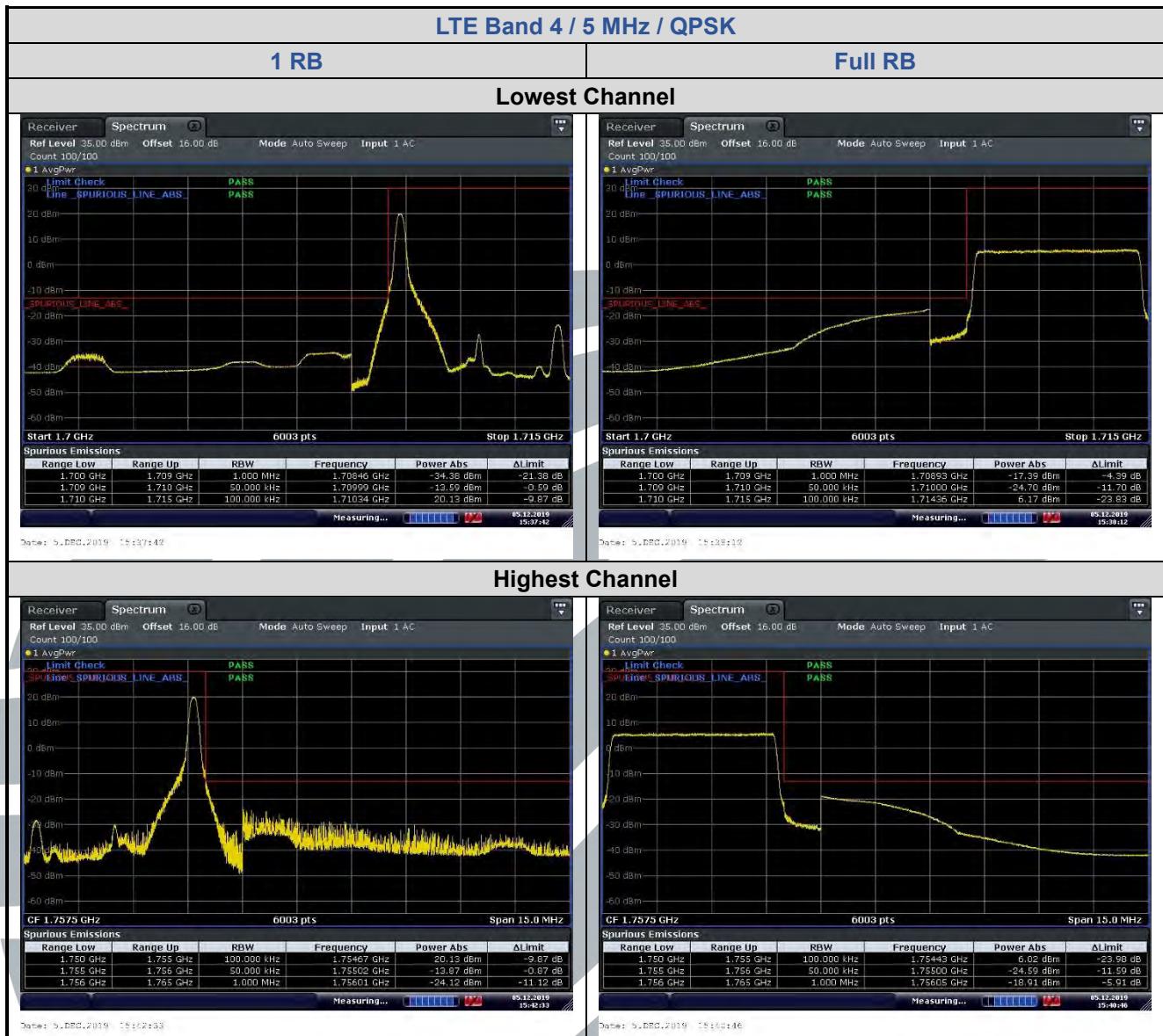


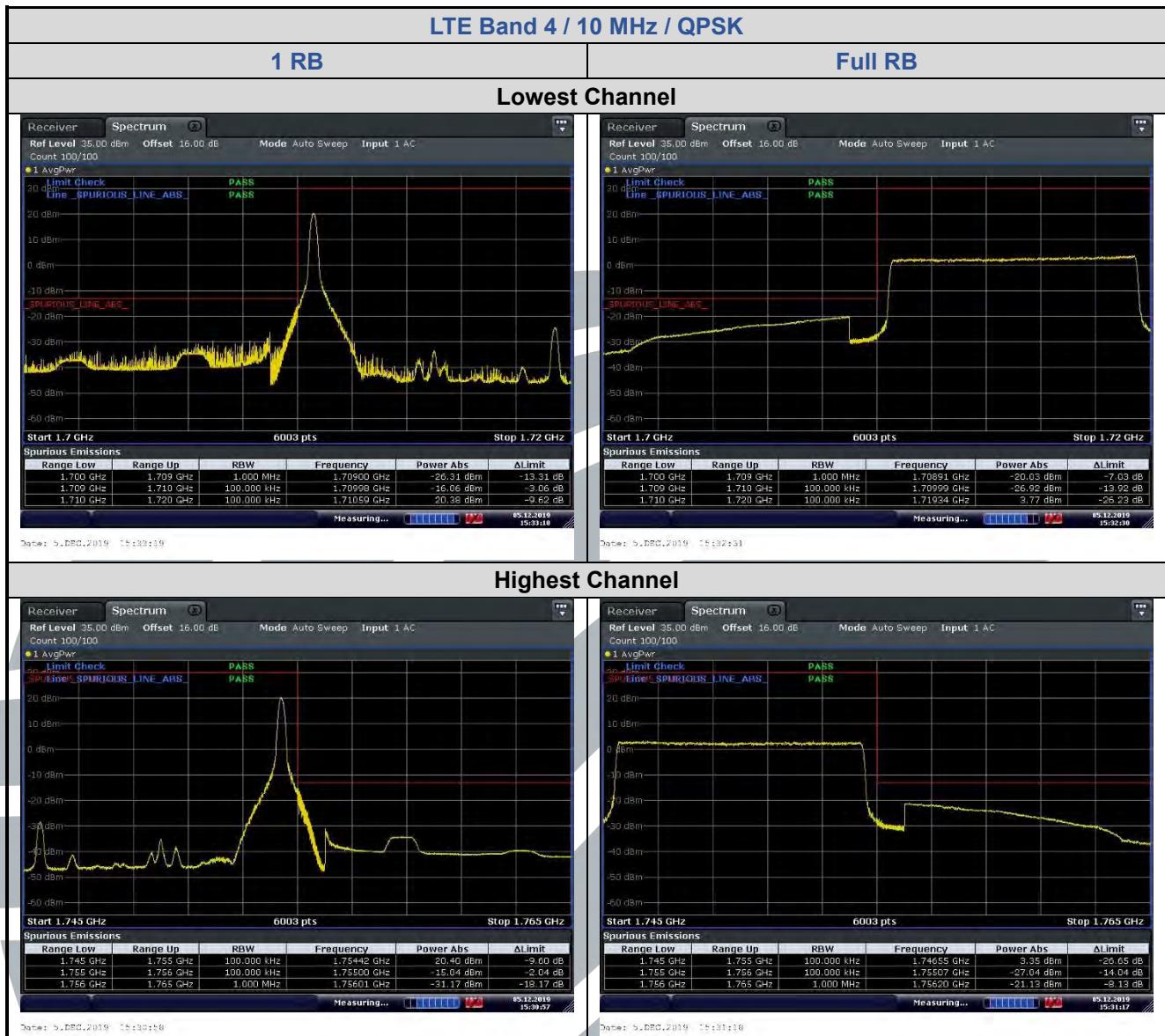


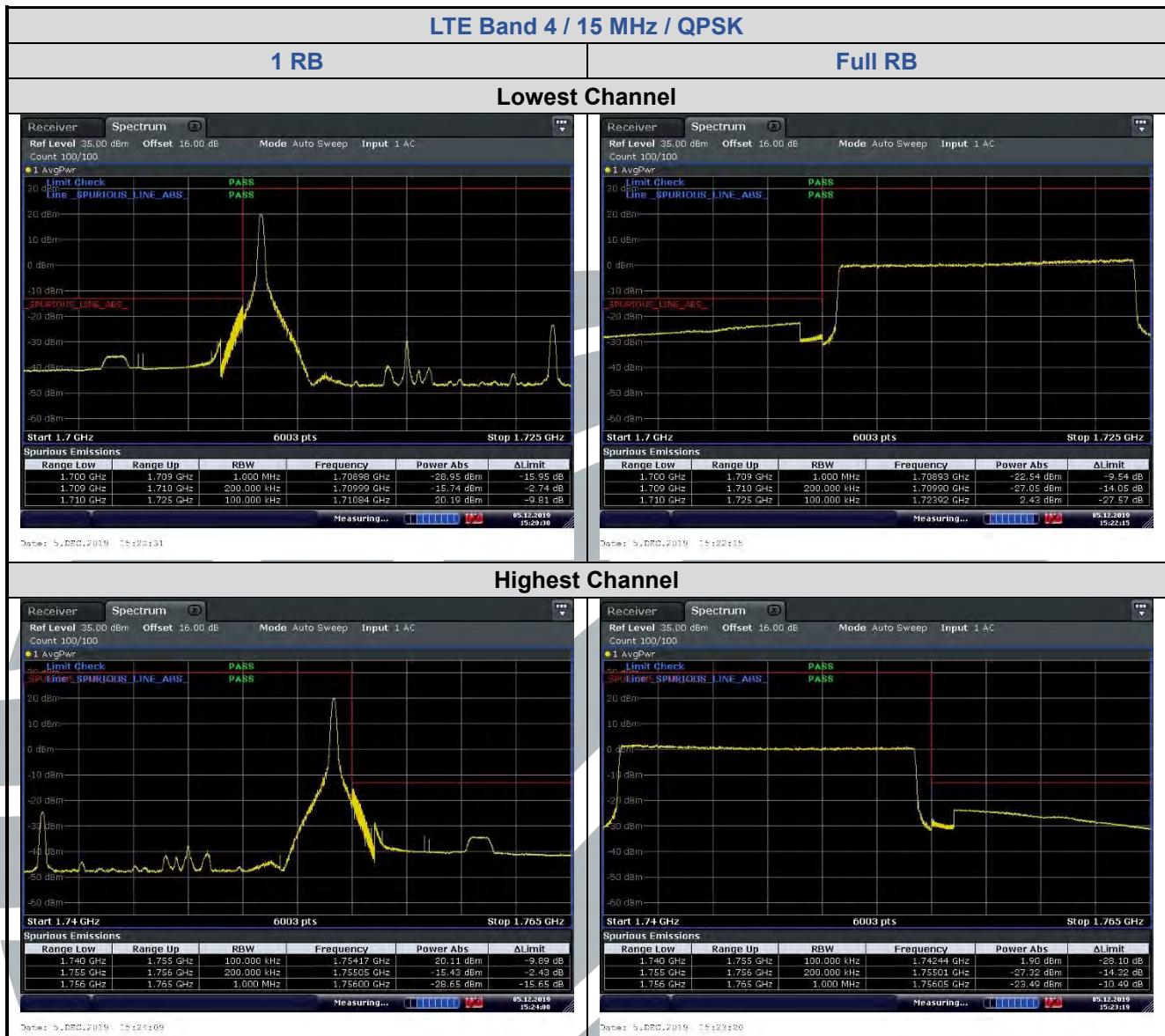
## 5.6.2 LTE Band 4

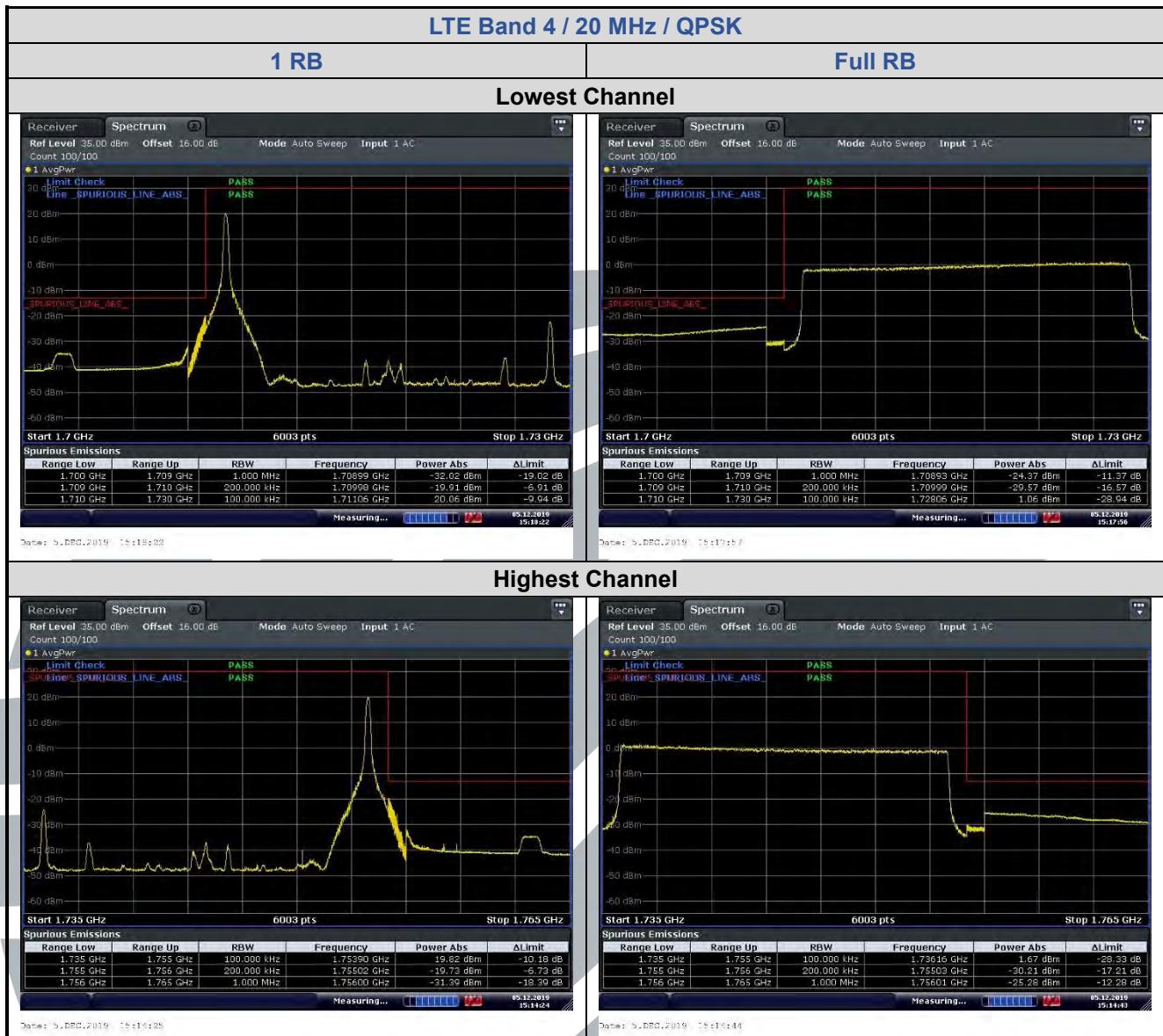


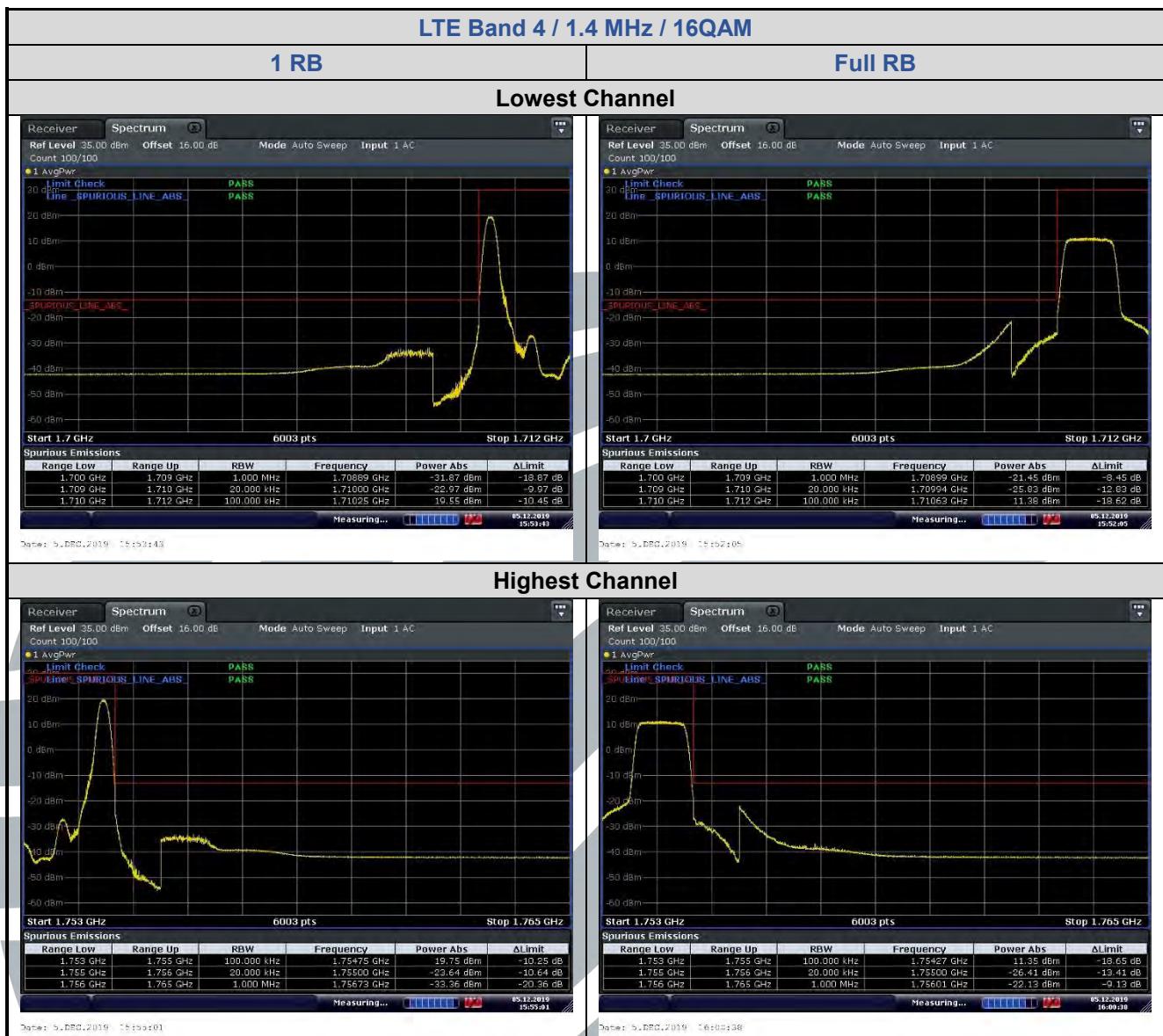


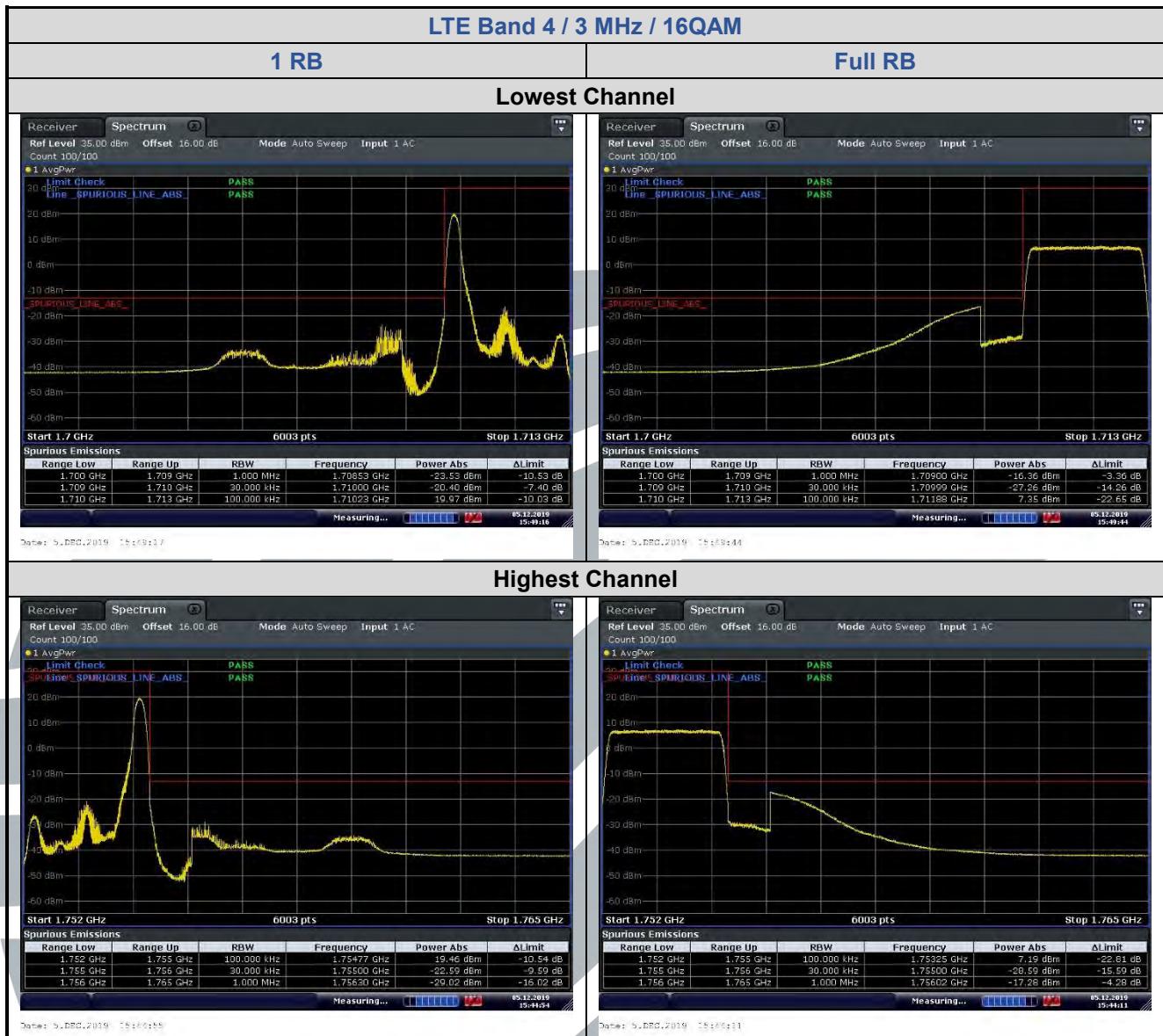


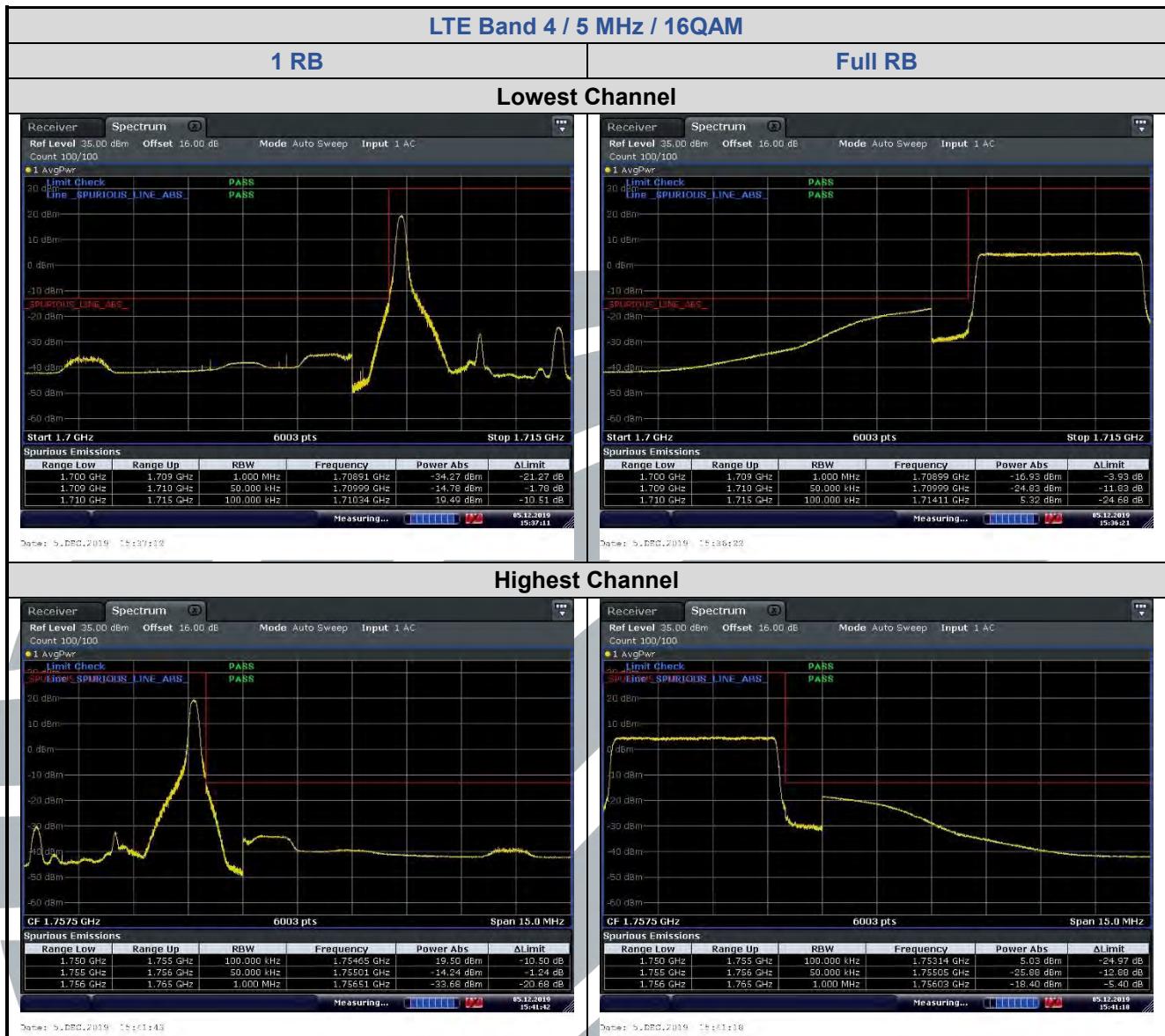


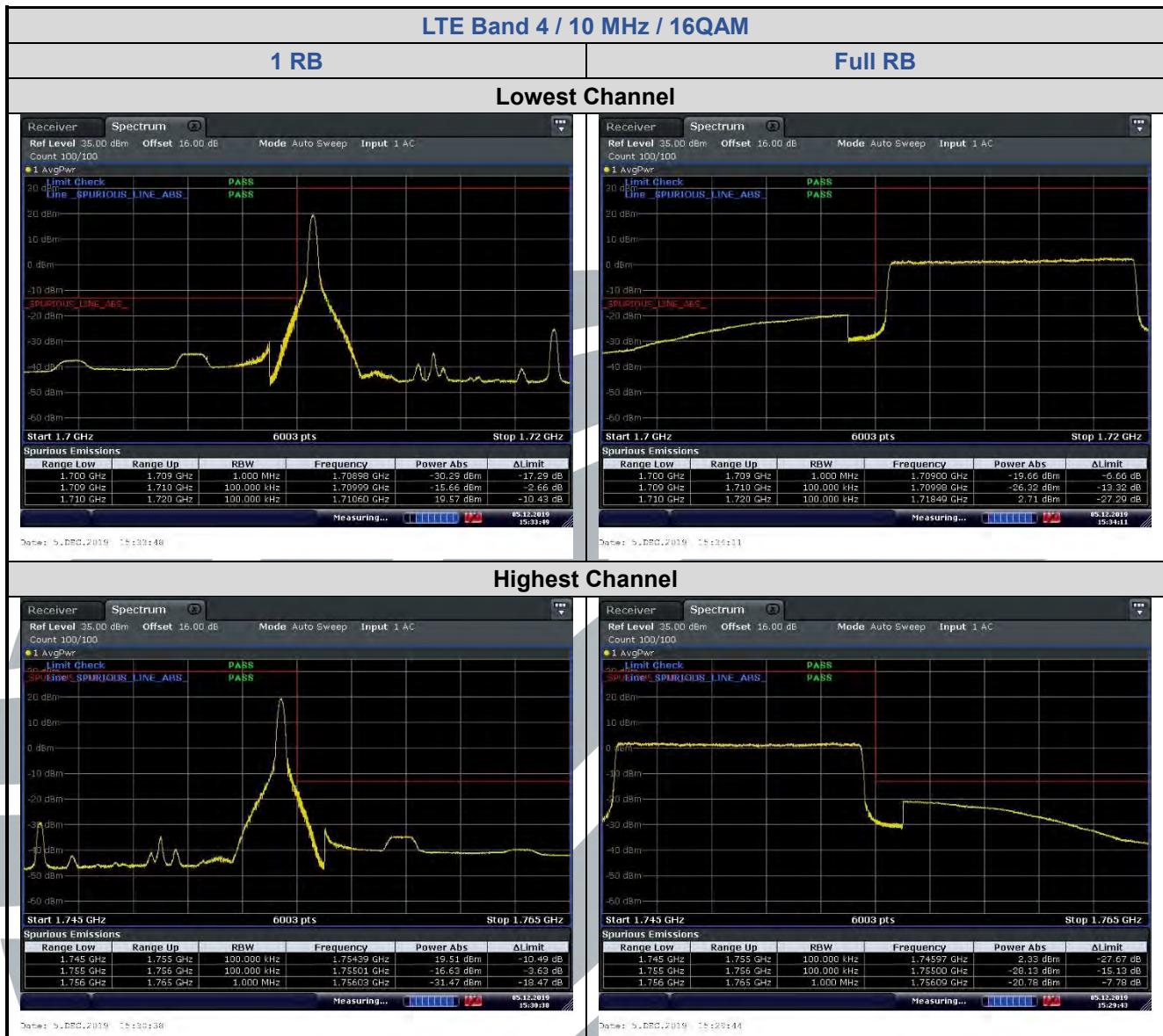


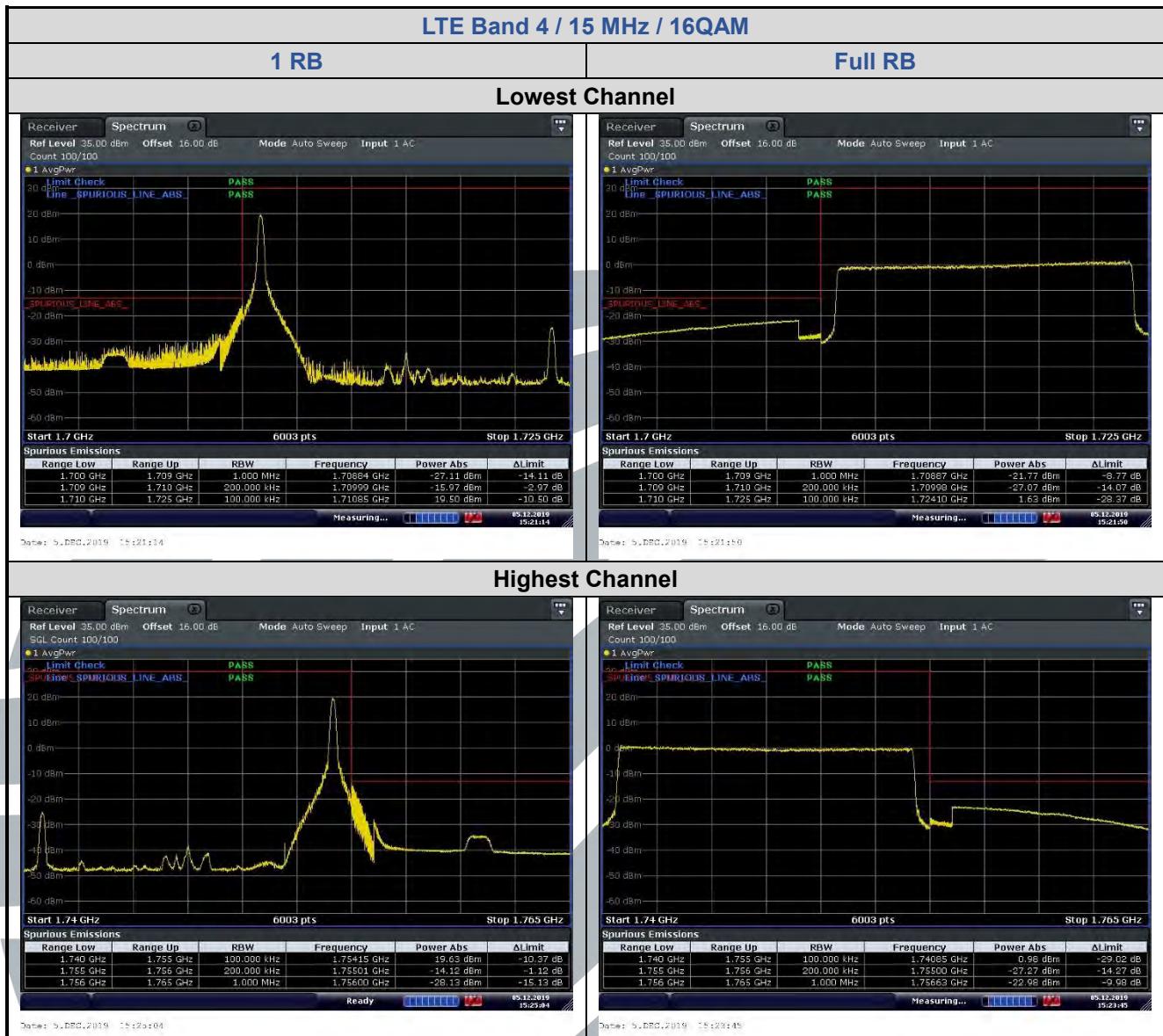


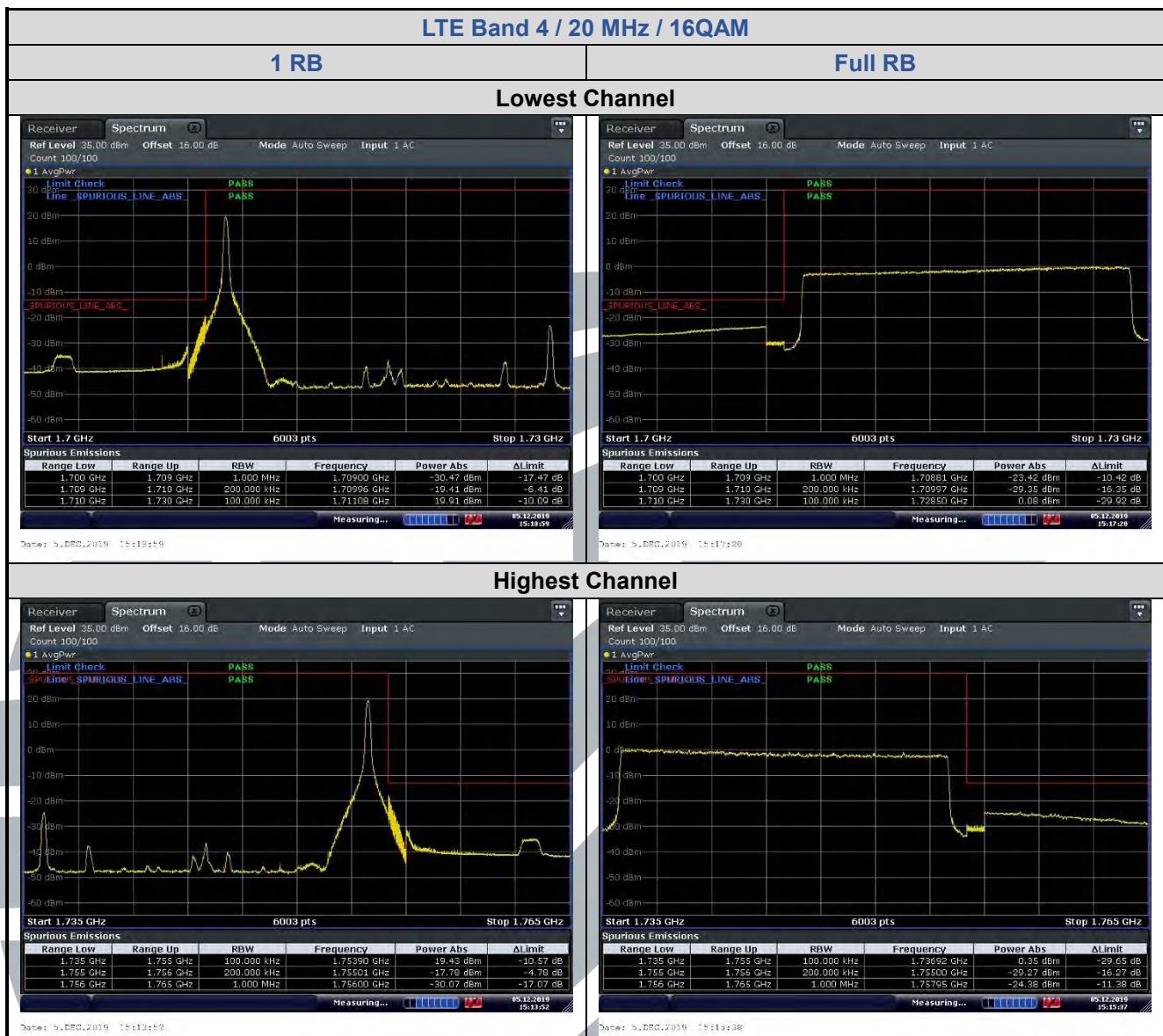












### 5.6.3 LTE Band 5

