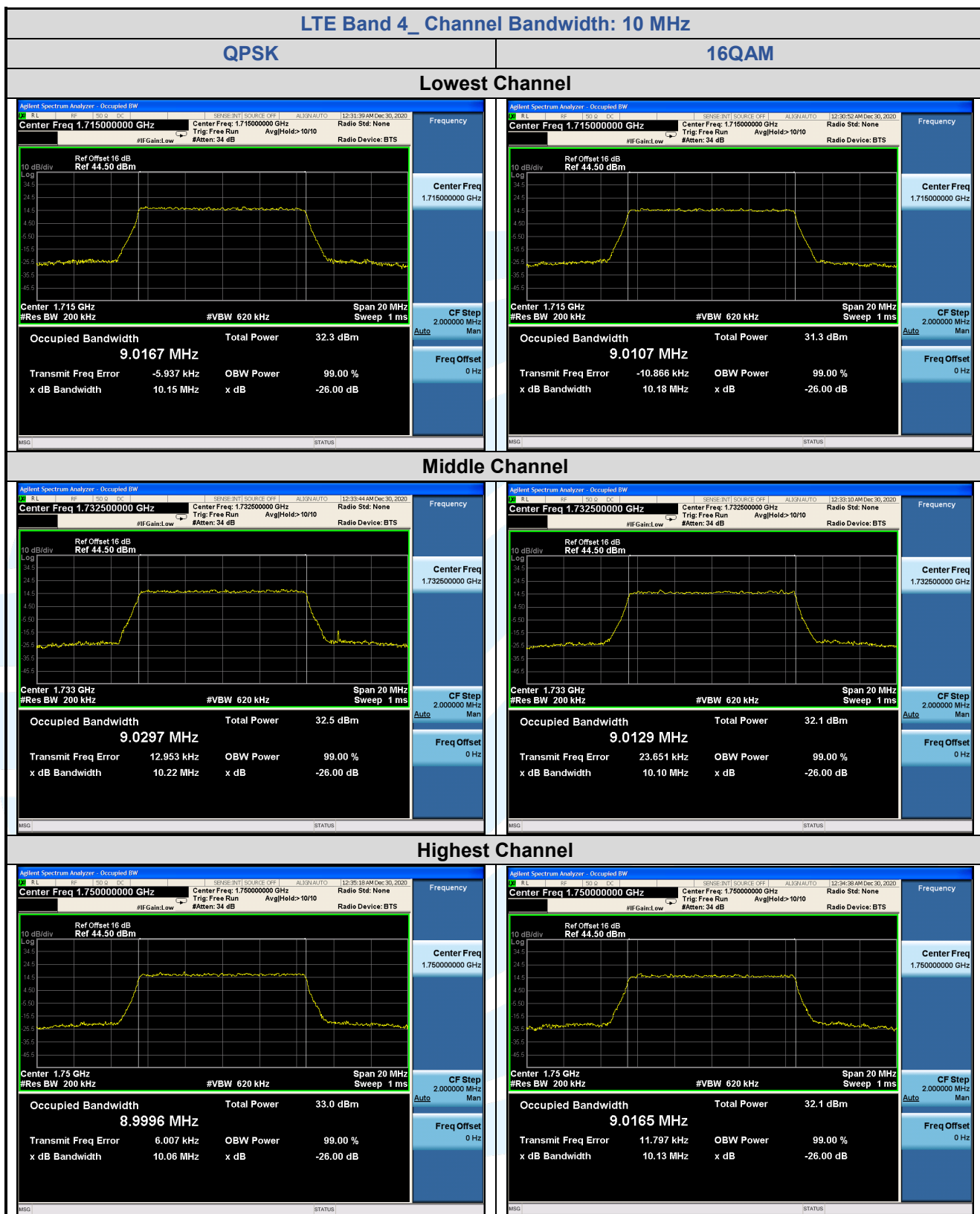
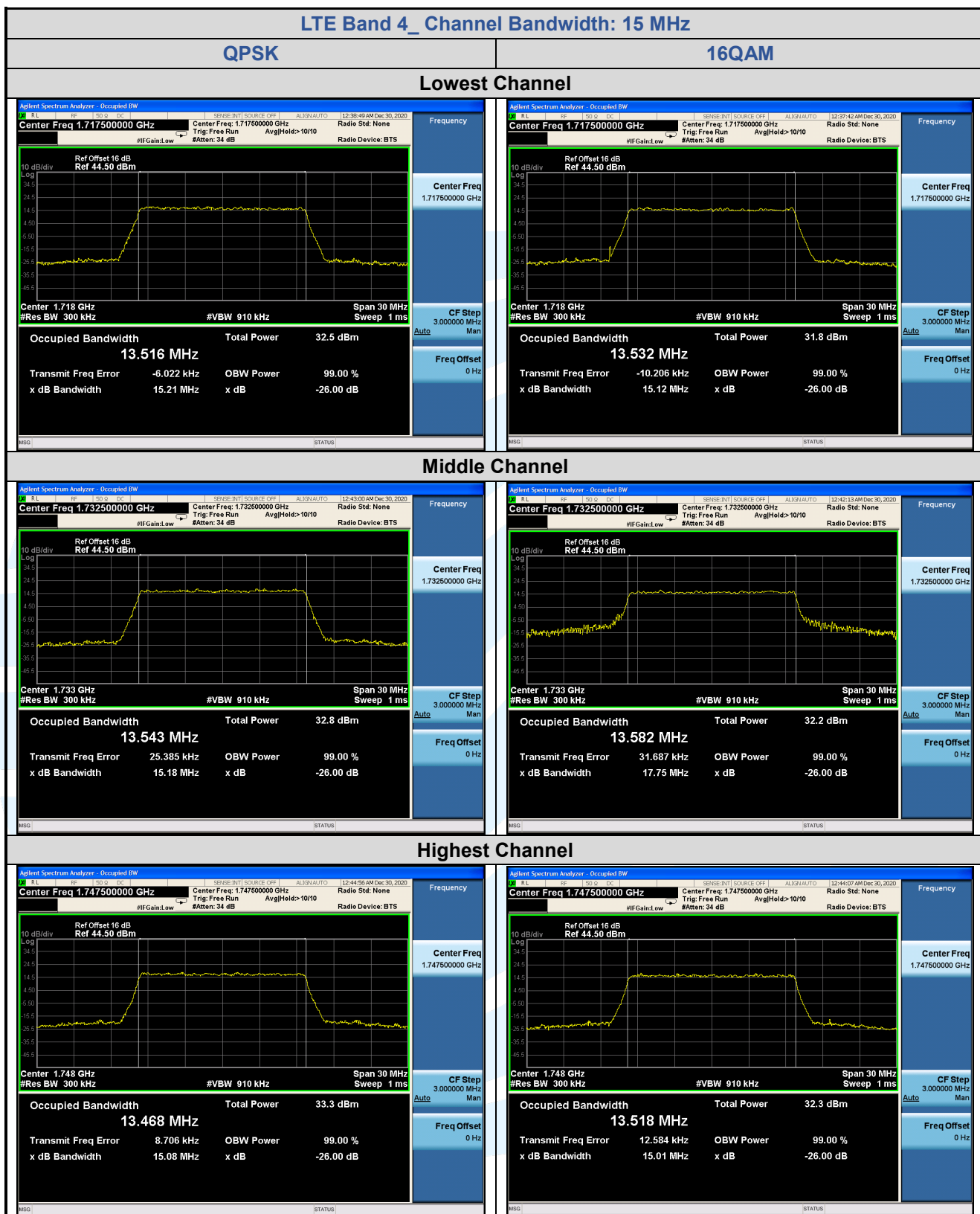
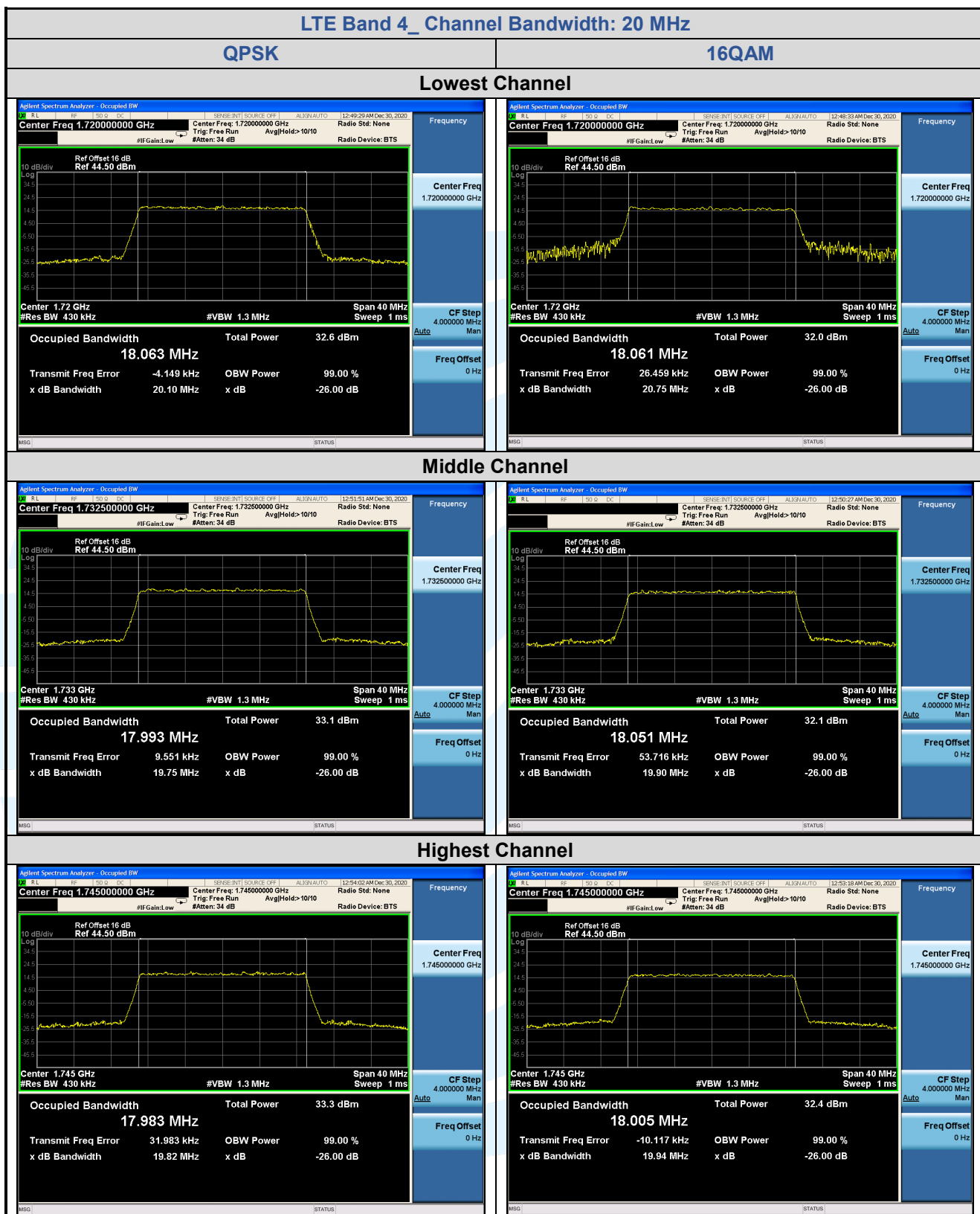


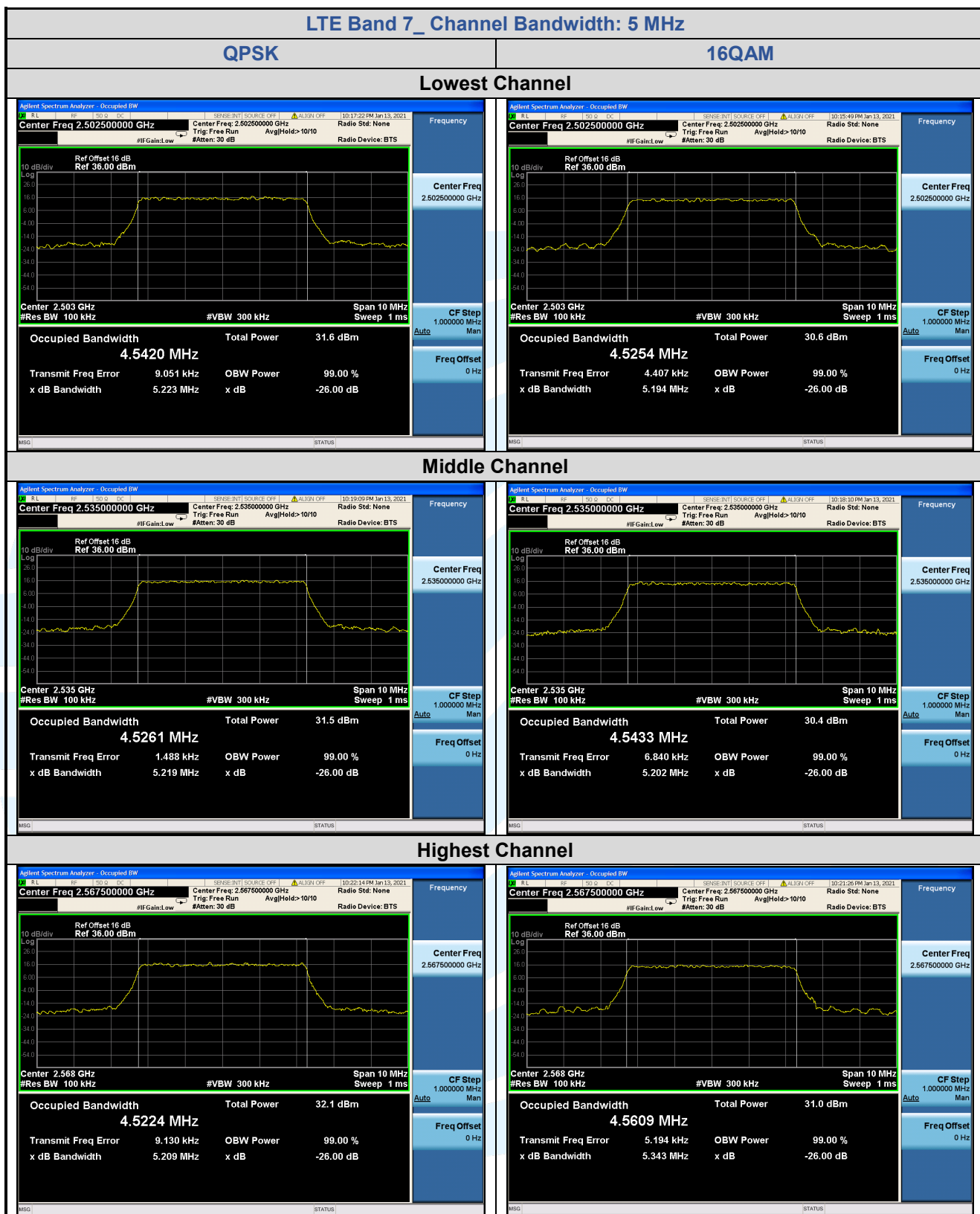


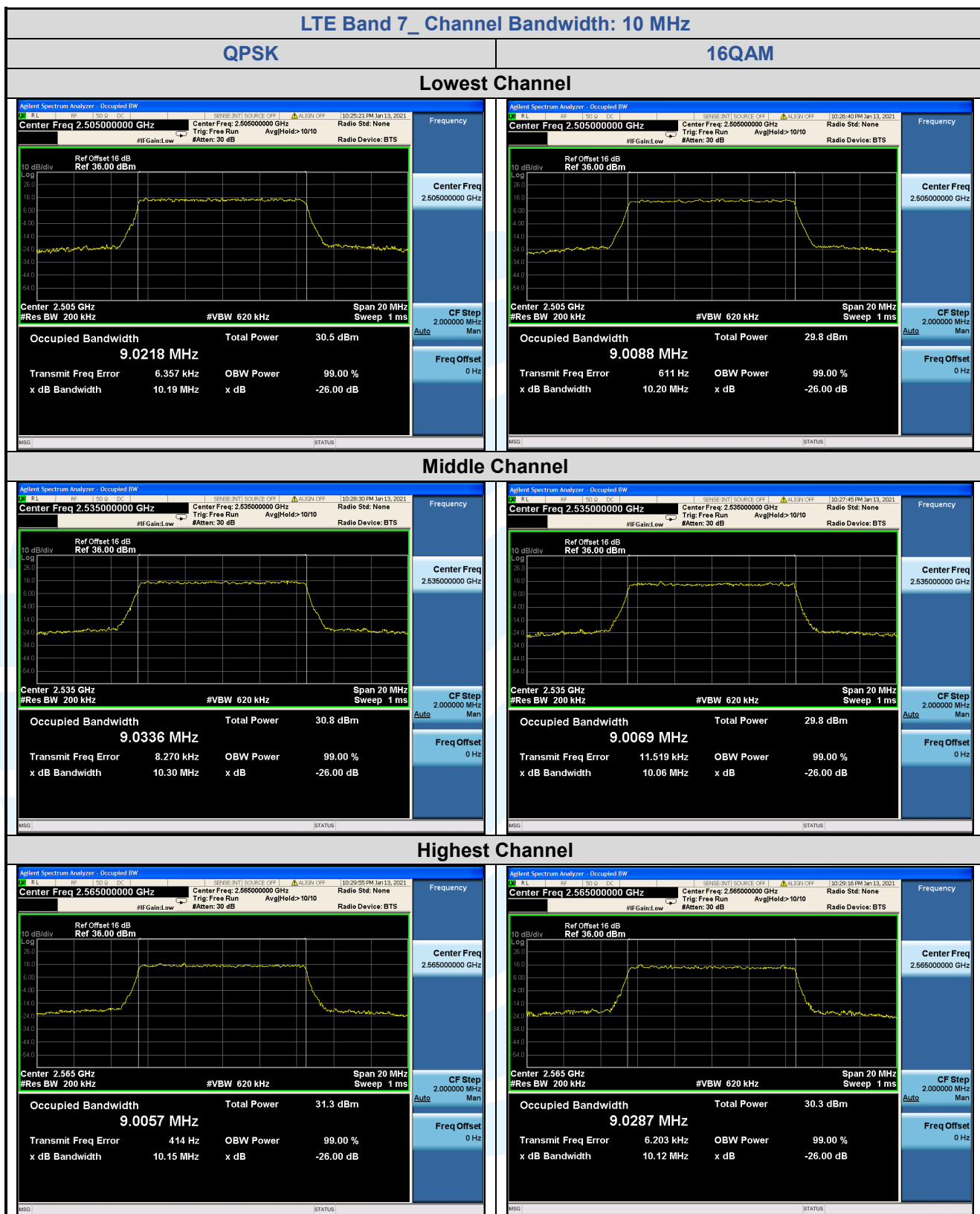


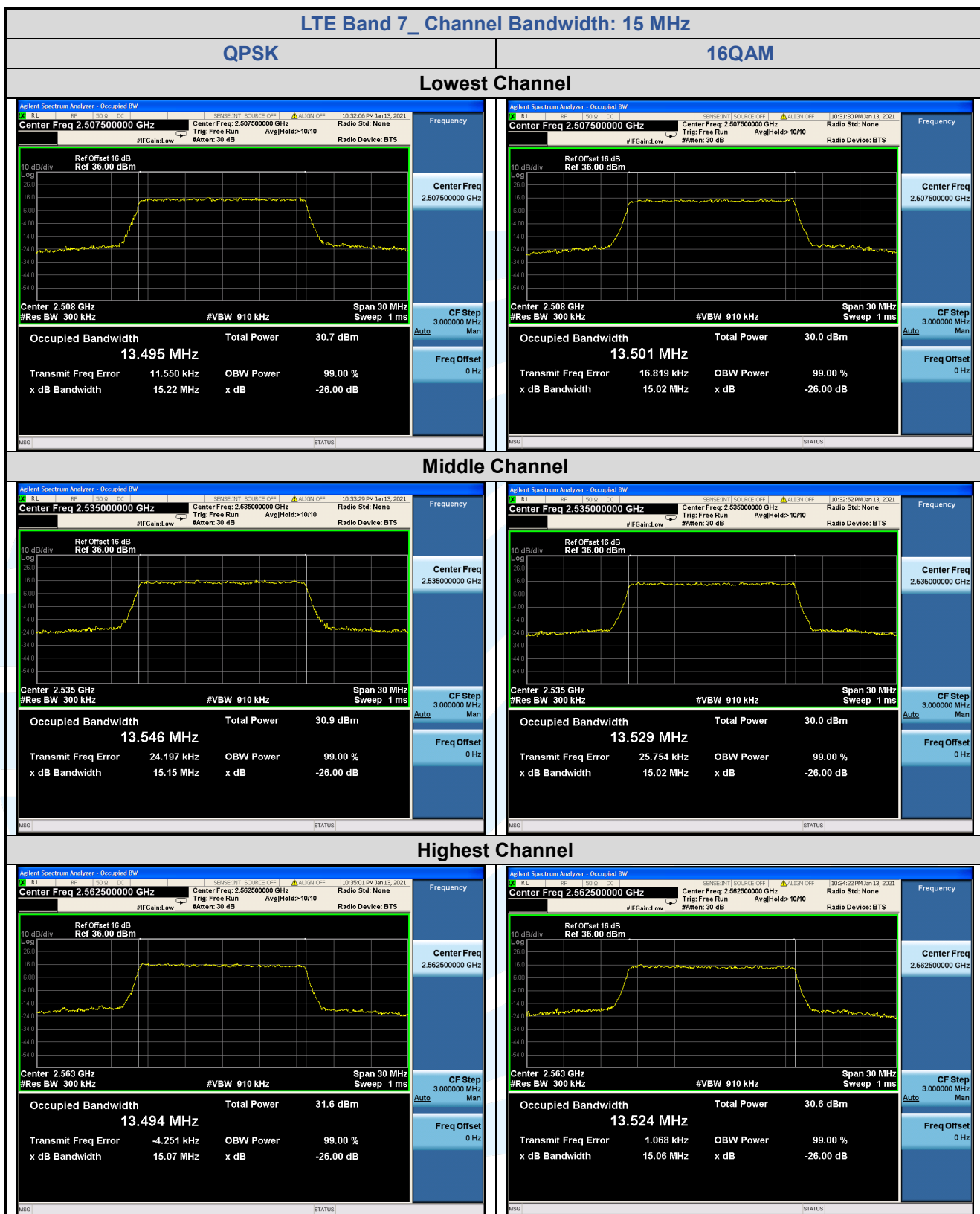


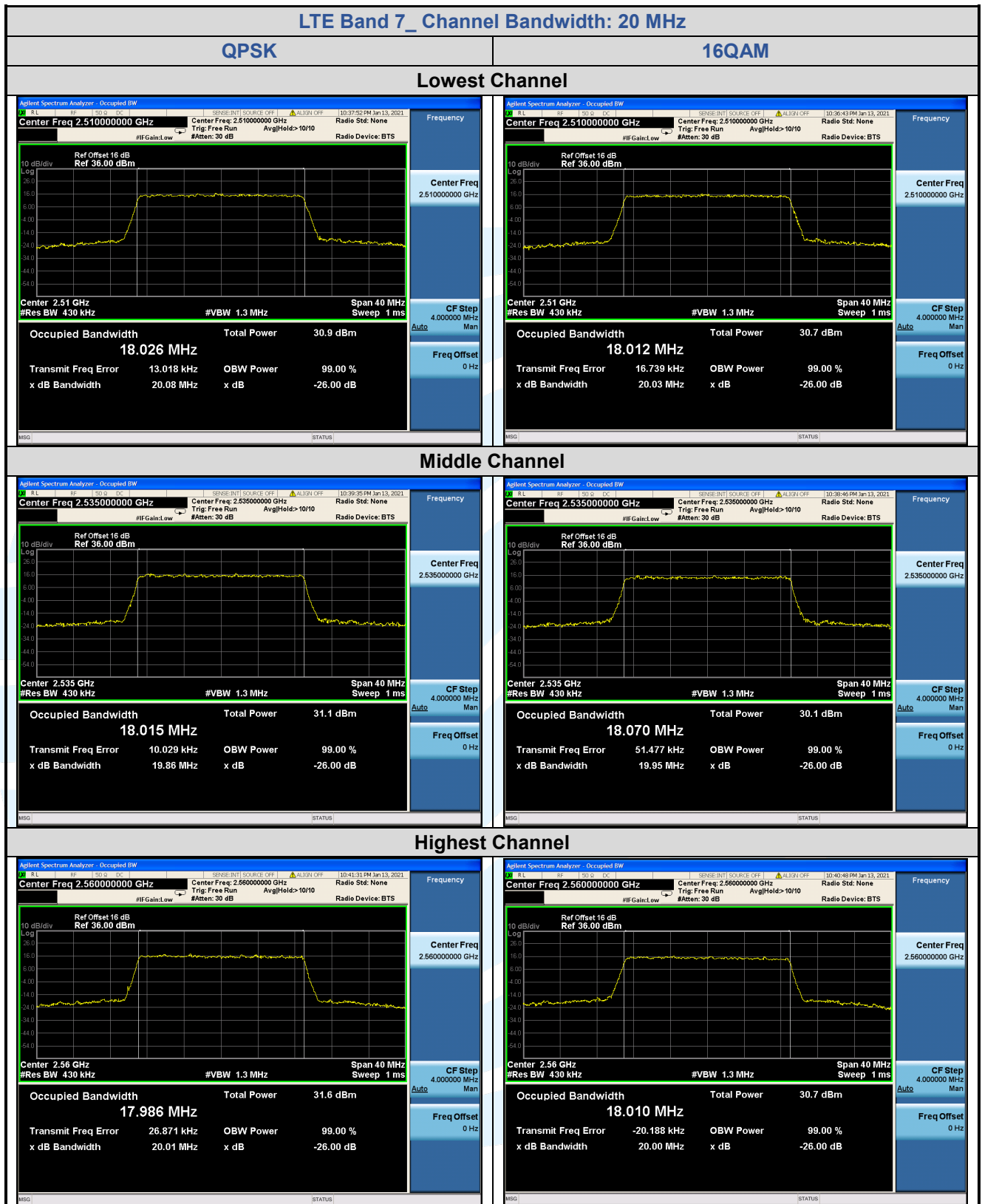
5.5.2 LTE Band 7

LTE Band 7								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Channel Bandwidth: 5 MHz								
Lowest	25	0	5.223	5.194	/	4.5420	4.5254	/
Middle	25	0	5.219	5.202	/	4.5264	4.5433	/
Highest	25	0	5.209	5.343	/	4.5224	4.5609	/
Channel Bandwidth: 10 MHz								
Lowest	50	0	10.19	10.20	/	9.0218	9.0088	/
Middle	50	0	10.30	10.06	/	9.0336	9.0069	/
Highest	50	0	10.15	10.12	/	9.0057	9.0287	/
Channel Bandwidth: 15 MHz								
Lowest	75	0	15.22	15.02	/	13.495	13.501	/
Middle	75	0	15.15	15.02	/	13.546	13.529	/
Highest	75	0	15.07	15.06	/	13.494	13.524	/
Channel Bandwidth: 20 MHz								
Lowest	100	0	20.08	20.03	/	18.026	18.012	/
Middle	100	0	19.86	19.95	/	18.015	18.070	/
Highest	100	0	20.01	20.00	/	17.986	18.010	/



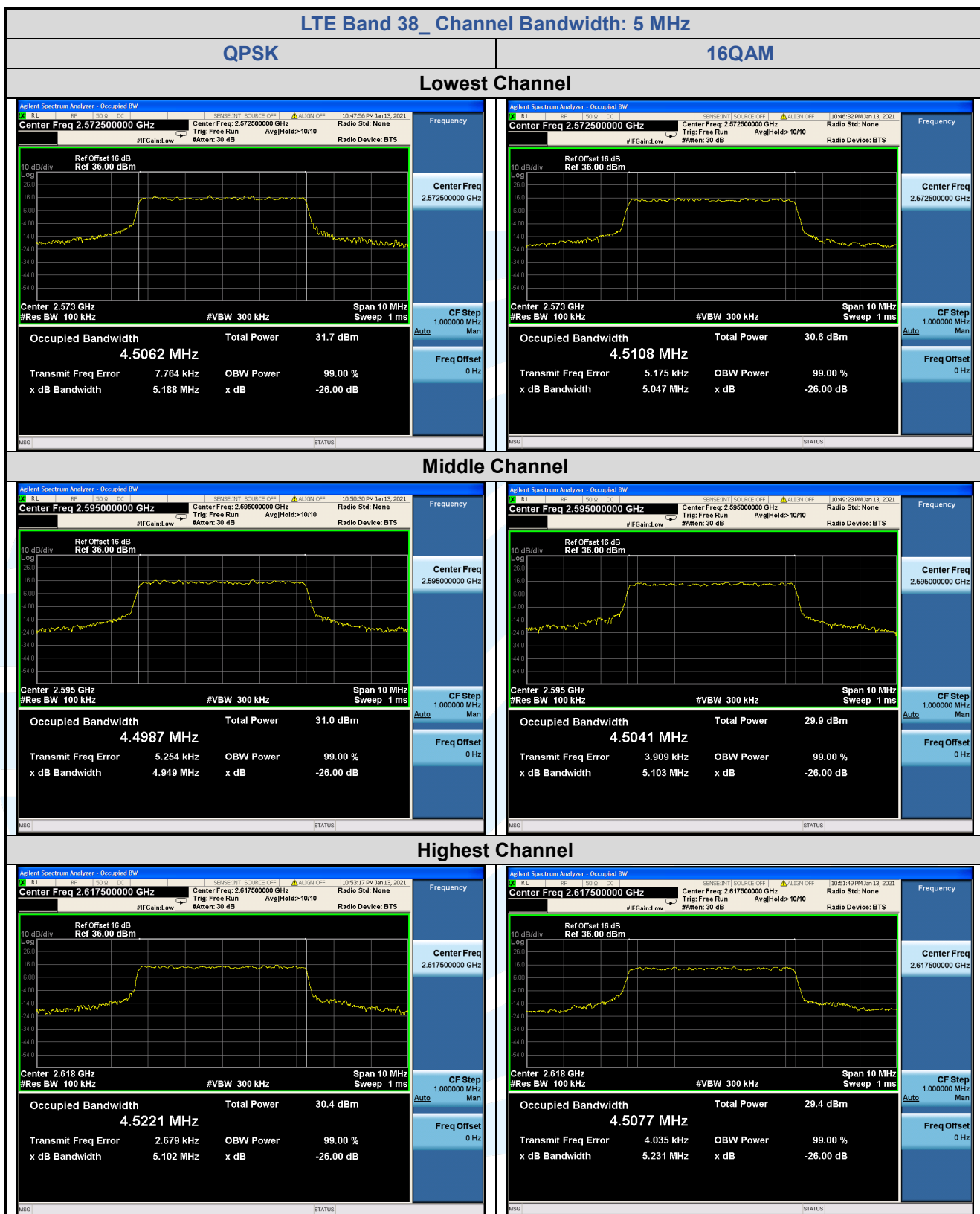


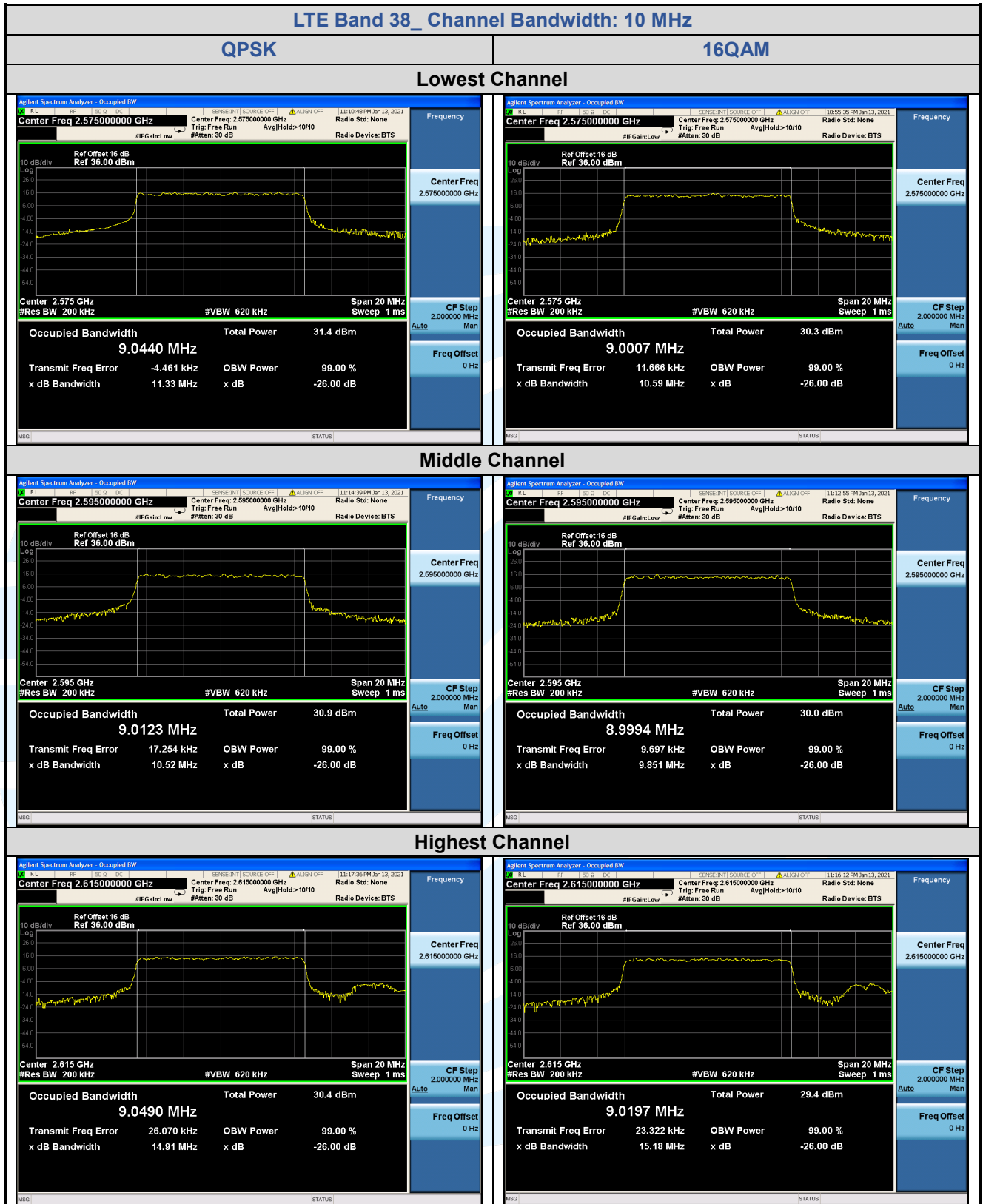


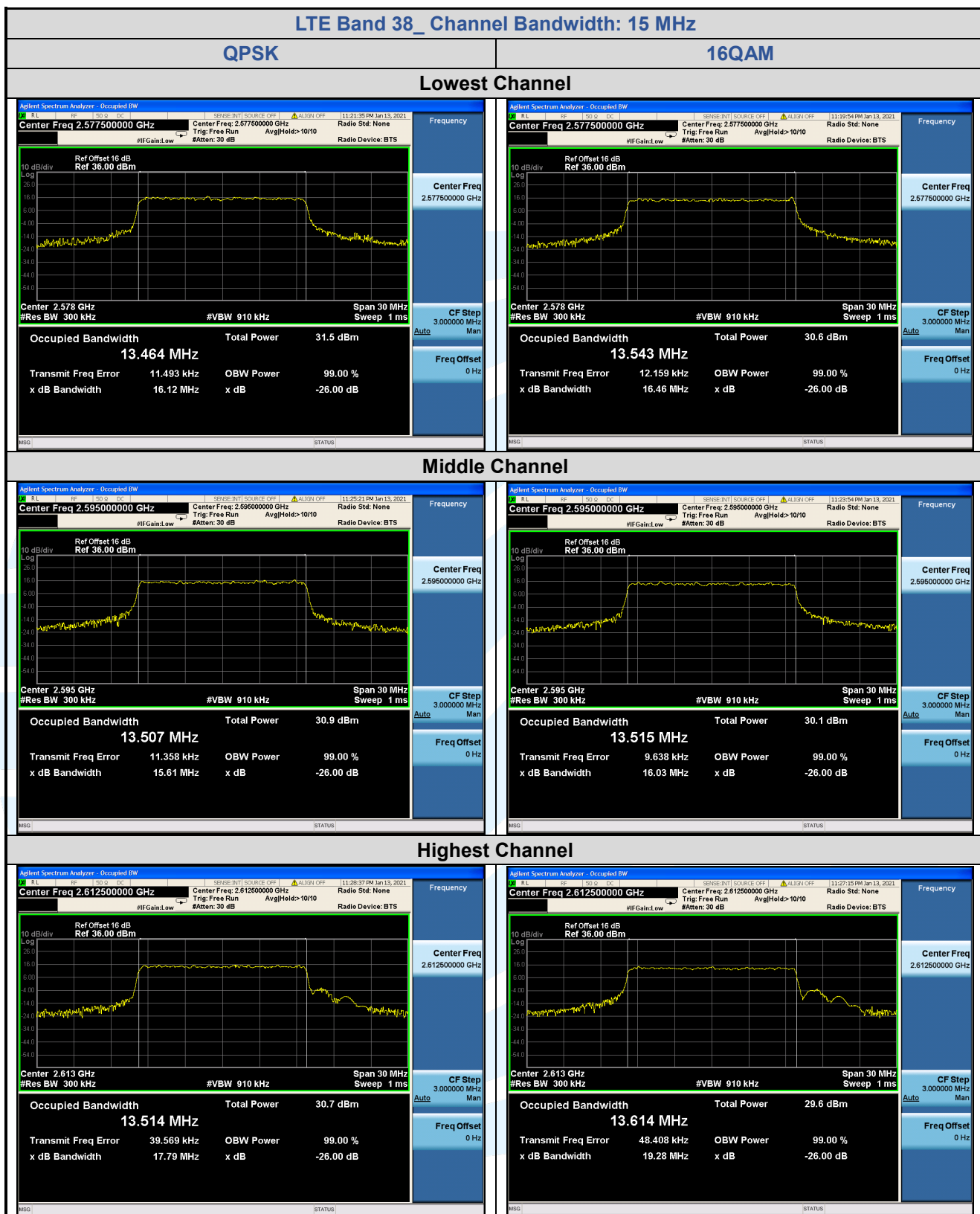


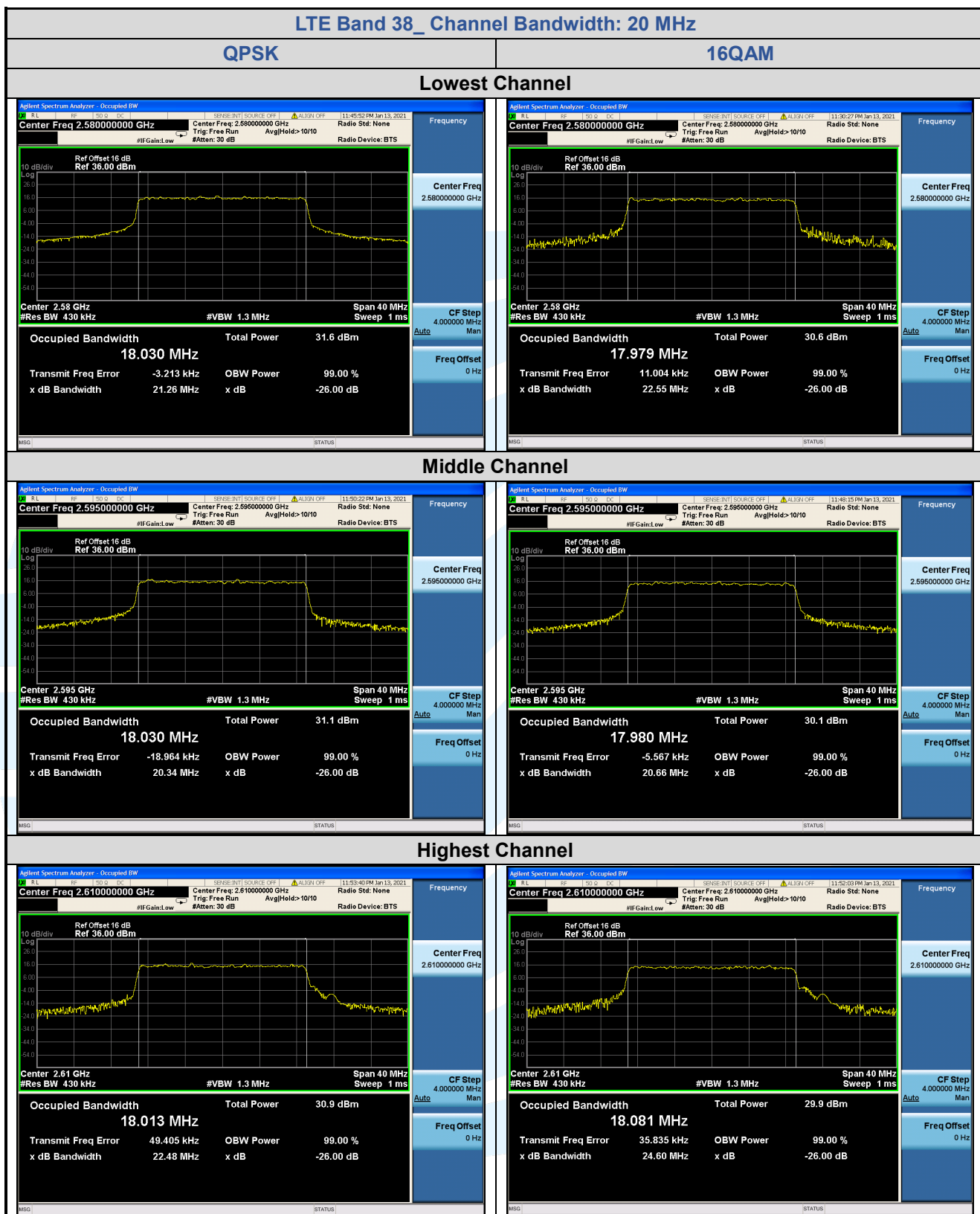
5.5.3 LTE Band 38

LTE Band 38								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Channel Bandwidth: 5 MHz								
Lowest	25	0	5.188	5.047	/	4.5062	4.5108	/
Middle	25	0	4.949	5.103	/	4.4987	4.5041	/
Highest	25	0	5.102	5.231	/	4.5221	4.5077	/
Channel Bandwidth: 10 MHz								
Lowest	50	0	11.33	10.59	/	9.0440	9.0007	/
Middle	50	0	10.52	9.851	/	9.0123	8.9994	/
Highest	50	0	14.91	15.18	/	9.0490	9.0197	/
Channel Bandwidth: 15 MHz								
Lowest	75	0	16.12	16.46	/	13.464	13.543	/
Middle	75	0	15.61	16.03	/	13.507	13.515	/
Highest	75	0	17.79	19.28	/	13.514	13.614	/
Channel Bandwidth: 20 MHz								
Lowest	100	0	21.26	22.55	/	18.030	17.979	/
Middle	100	0	20.34	20.66	/	18.030	17.980	/
Highest	100	0	22.48	24.60	/	18.013	18.081	/









5.6 BAND EDGE AT ANTENNA TERMINALS

Test Requirement: LTE Band 4 : FCC 47 CFR Part 27.53(h)(1)
LTE Band 7 & Band 38 : FCC 47 CFR Part 27.53(m)(4)
Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 27.53(h)(1):

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.

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 4

