

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

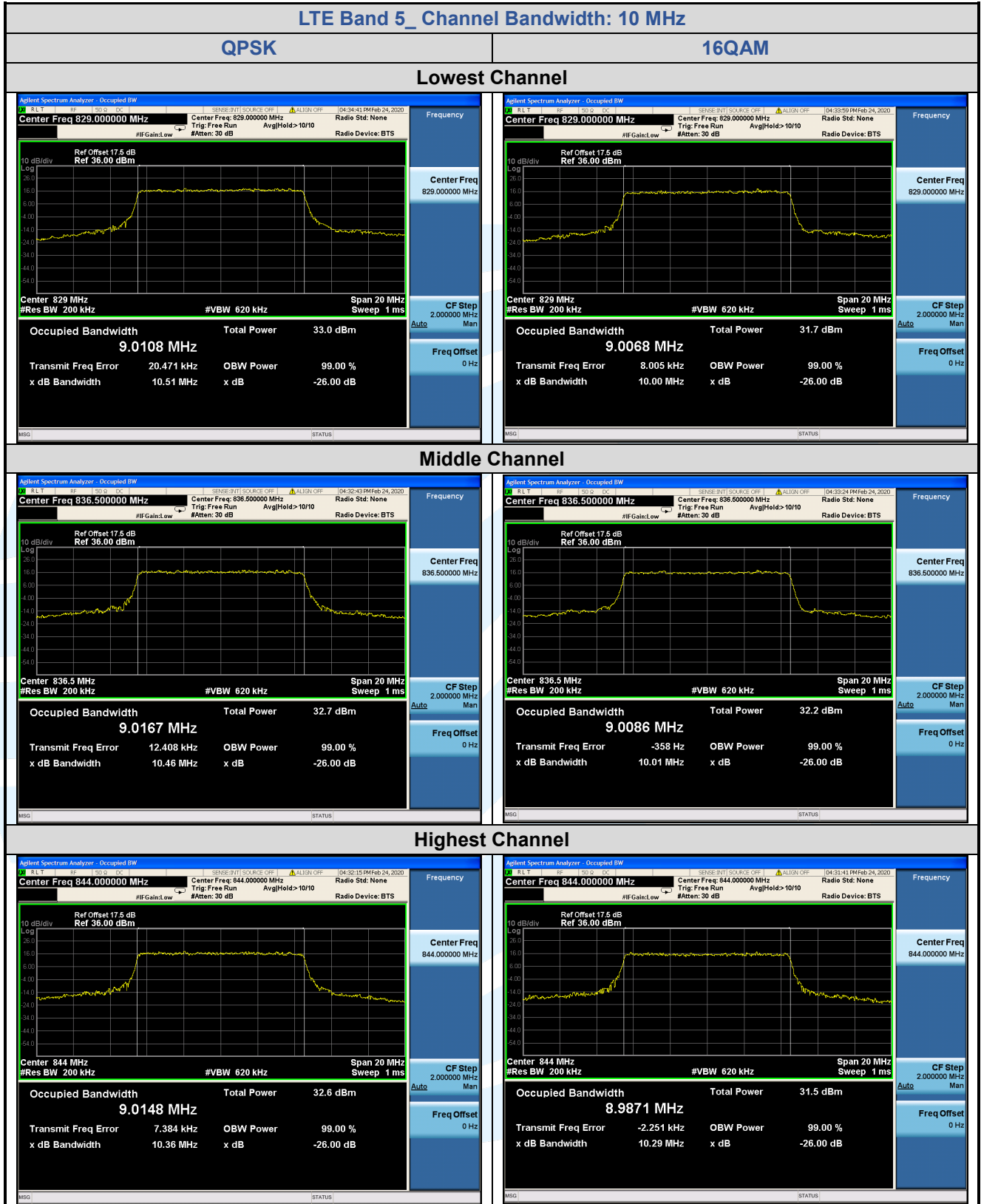
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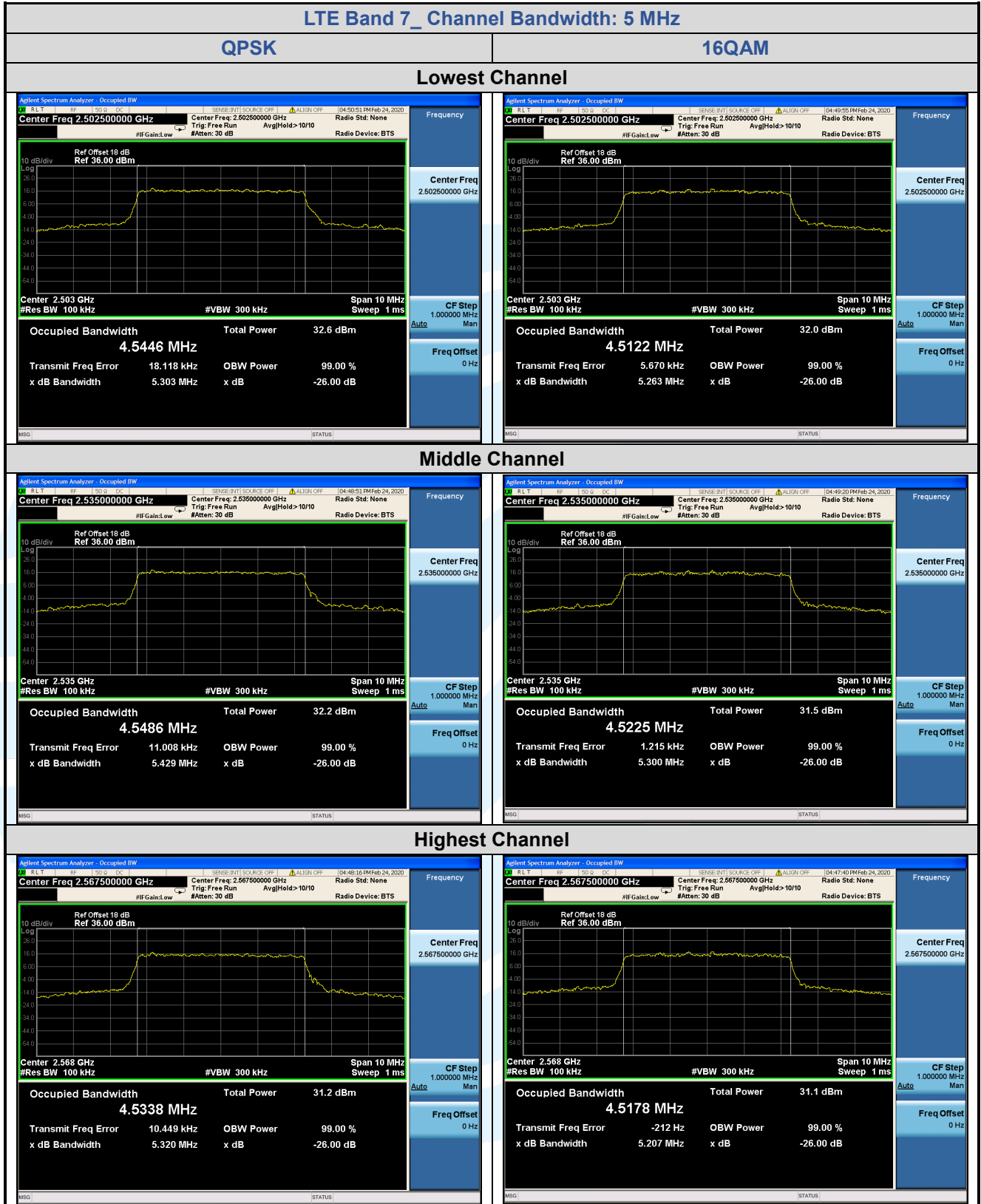
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5.5.4 LTE Band 7

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	5.303	5.263	/	4.5446	4.5122	/
Middle	25	0	5.429	5.300	/	4.5486	4.5225	/
Highest	25	0	5.320	5.207	/	4.5338	4.5178	/
Channel Bandwidth: 10 MHz								
Lowest	50	0	10.50	10.02	/	9.0588	9.0380	/
Middle	50	0	11.67	13.79	/	9.0521	9.0515	/
Highest	50	0	11.21	13.87	/	9.0313	9.0496	/
Channel Bandwidth: 15 MHz								
Lowest	75	0	16.52	15.10	/	13.541	13.538	/
Middle	75	0	18.72	18.58	/	13.583	13.586	/
Highest	75	0	15.97	18.20	/	13.540	13.590	/
Channel Bandwidth: 20 MHz								
Lowest	100	0	24.14	24.61	/	18.139	18.113	/
Middle	100	0	26.84	27.70	/	18.202	18.168	/
Highest	100	0	23.68	25.51	/	18.189	18.097	/



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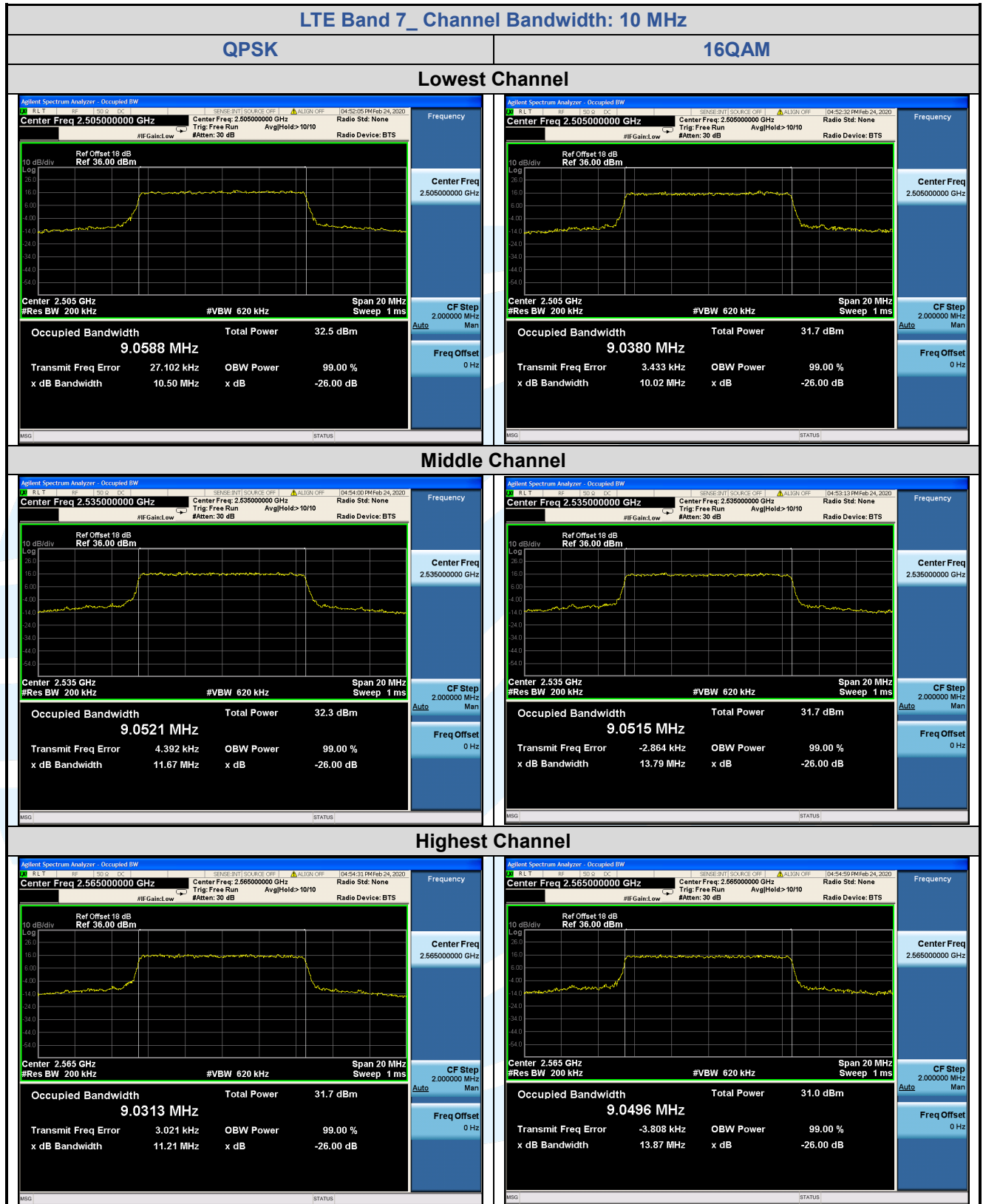
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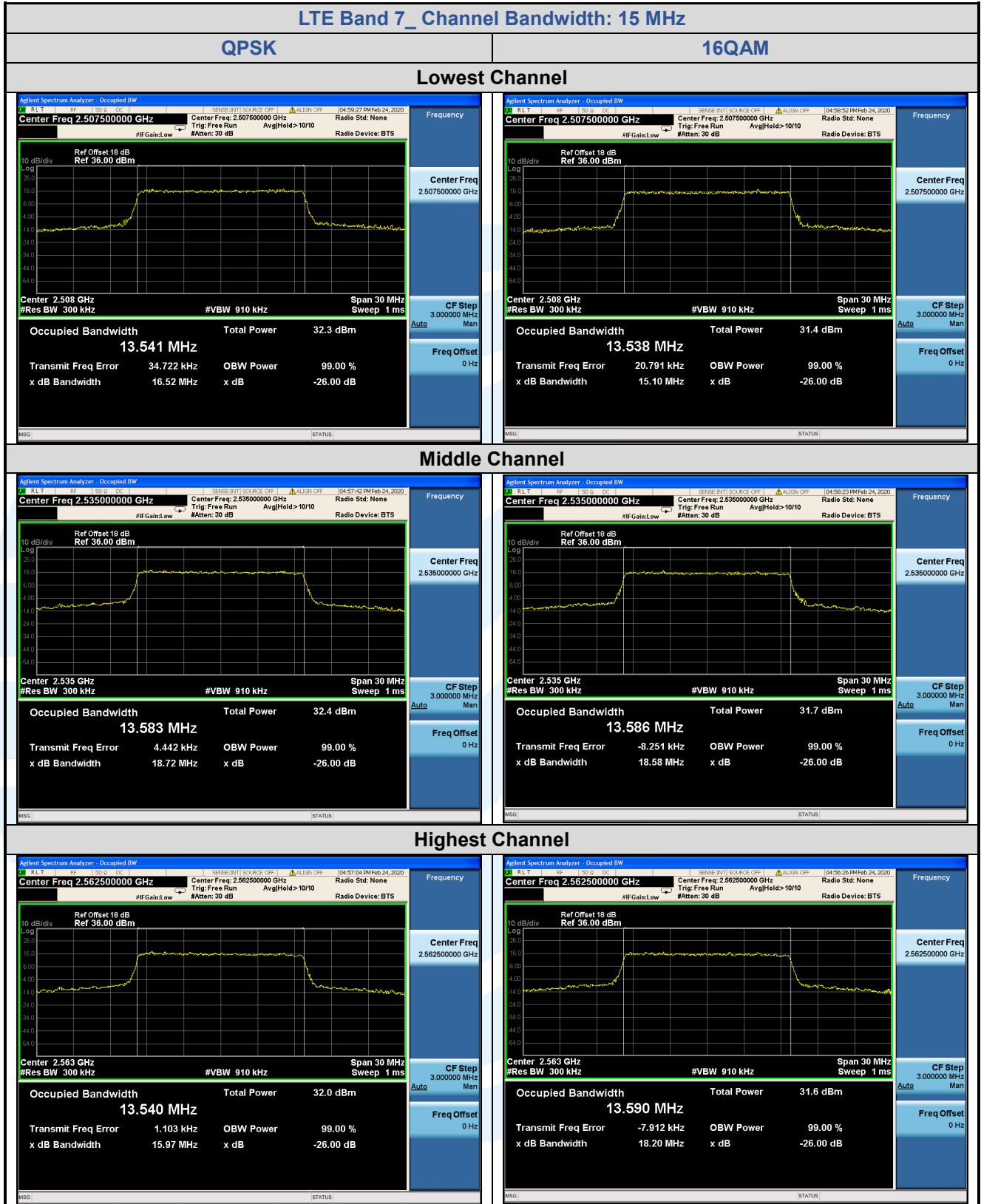
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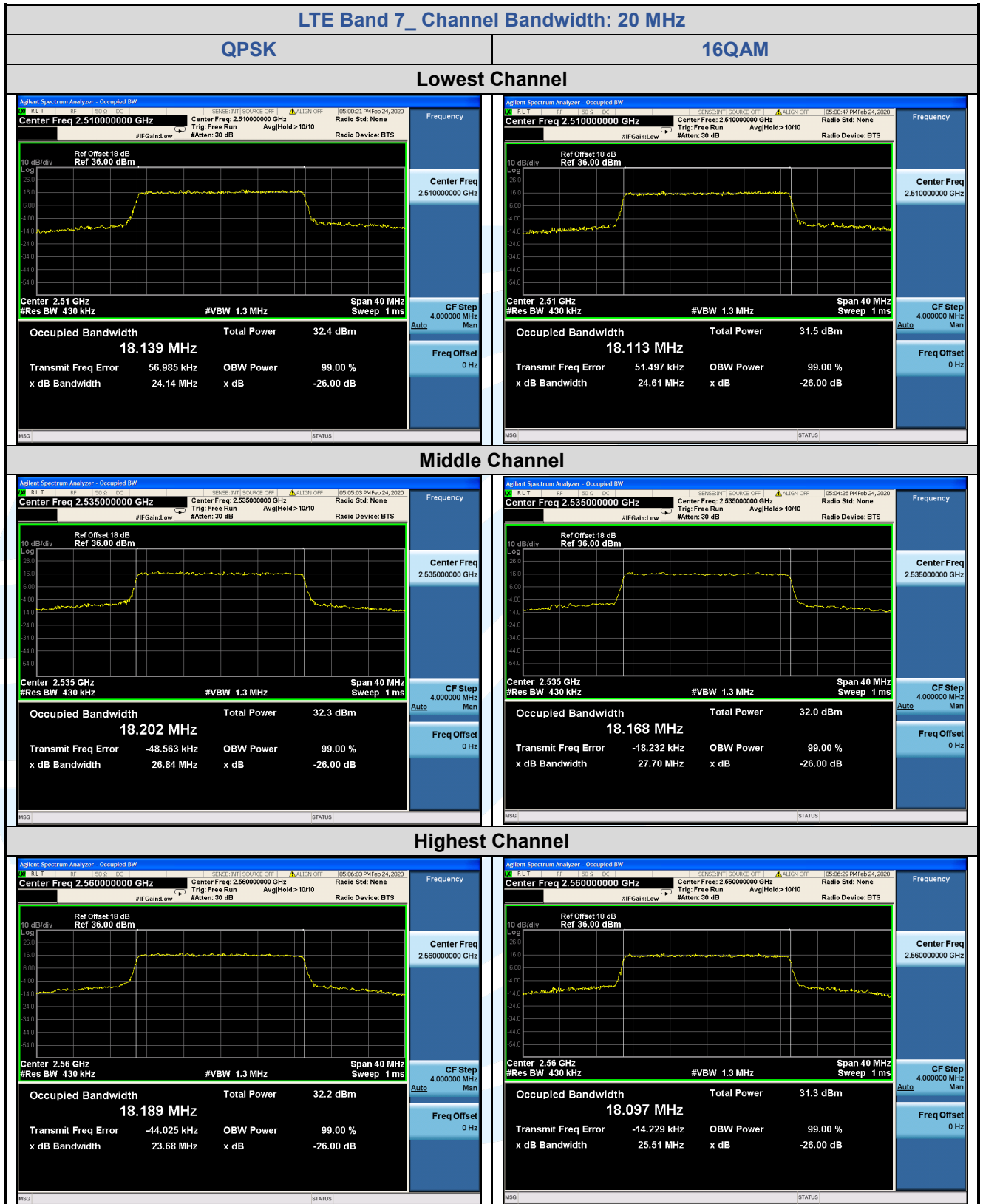
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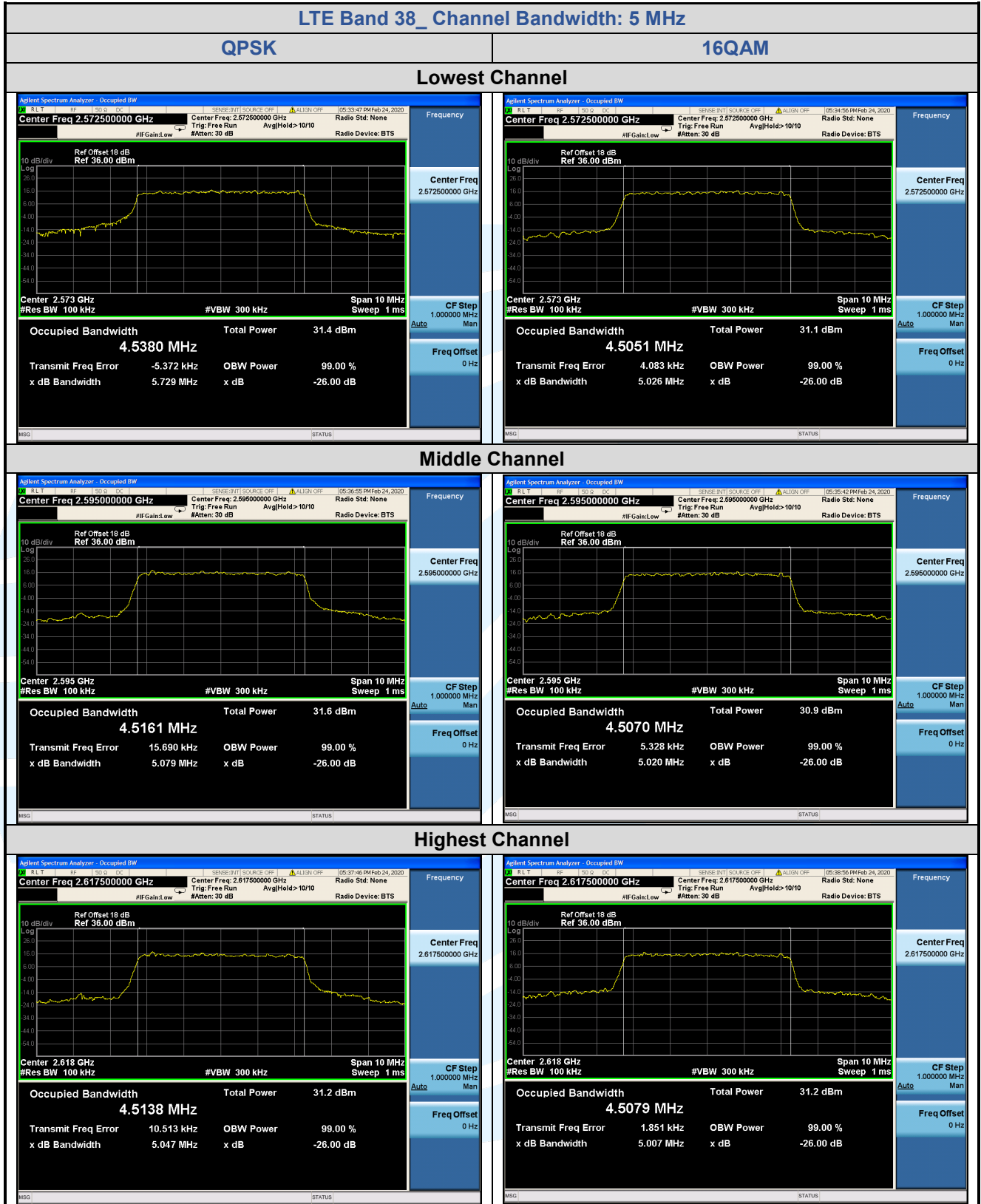
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5.5.5 LTE Band 38

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	5.729	5.026	/	4.5380	4.5051	/
Middle	25	0	5.079	5.020	/	4.5161	4.5070	/
Highest	25	0	5.047	5.007	/	4.5138	4.0579	/
Channel Bandwidth: 10 MHz								
Lowest	50	0	10.26	10.37	/	8.9949	8.9926	/
Middle	50	0	10.07	10.83	/	8.9953	9.0029	/
Highest	50	0	10.02	10.75	/	8.9913	9.0201	/
Channel Bandwidth: 15 MHz								
Lowest	75	0	15.26	16.05	/	13.526	13.507	/
Middle	75	0	15.43	14.90	/	13.501	13.485	/
Highest	75	0	15.54	14.96	/	13.511	13.490	/
Channel Bandwidth: 20 MHz								
Lowest	100	0	21.79	20.63	/	18.085	18.012	/
Middle	100	0	19.71	20.03	/	18.058	18.000	/
Highest	100	0	19.80	20.10	/	18.079	17.986	/



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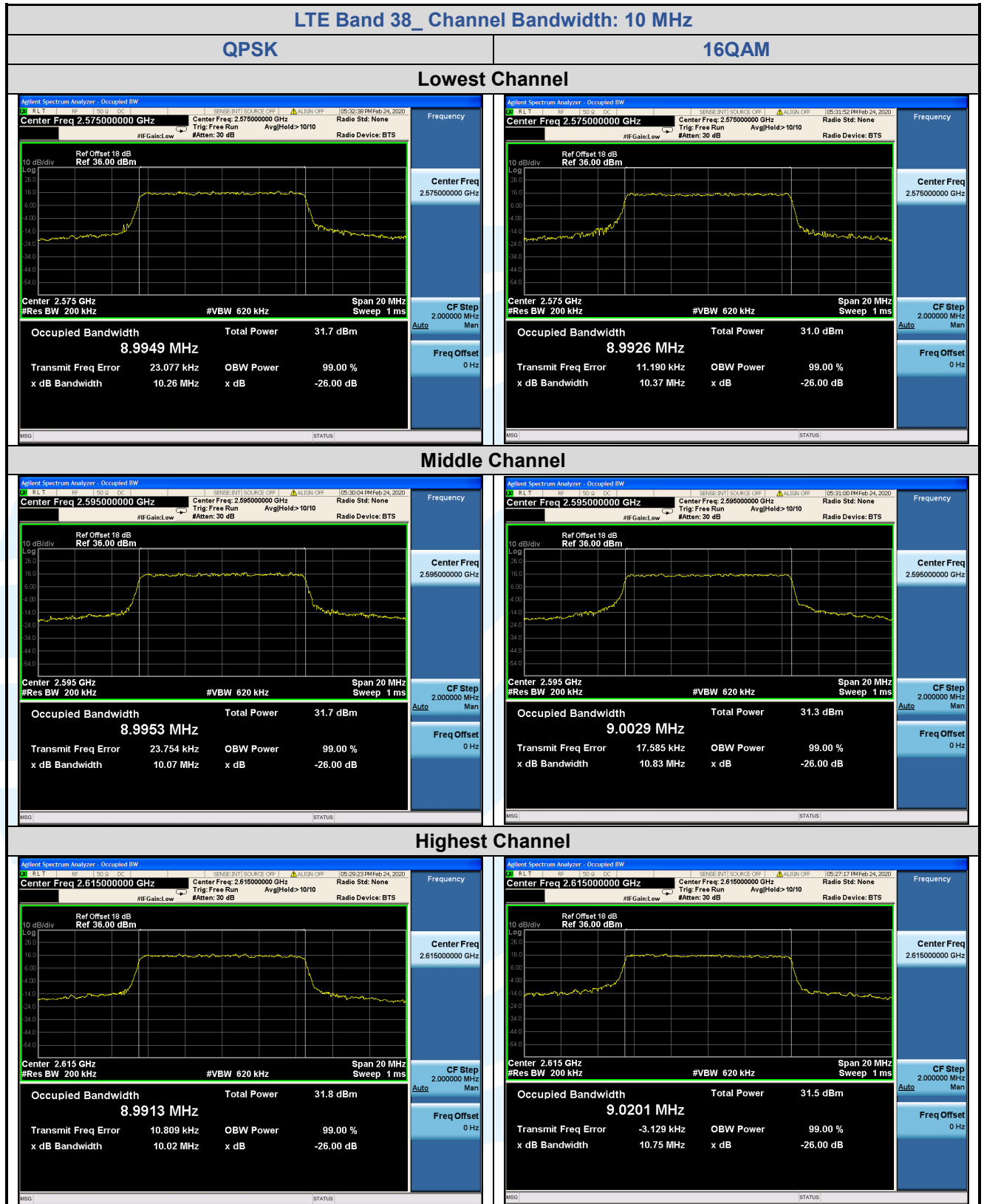
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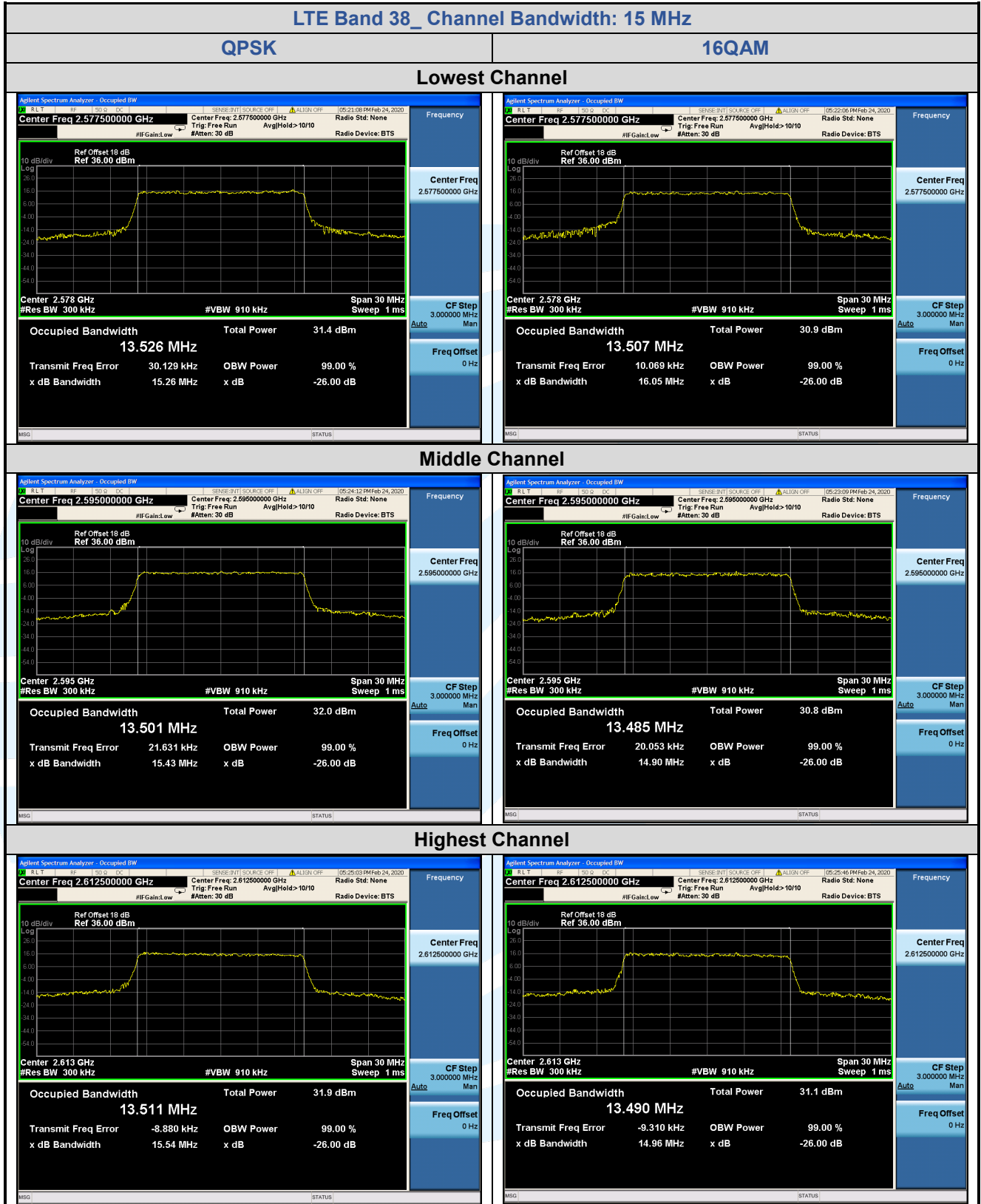
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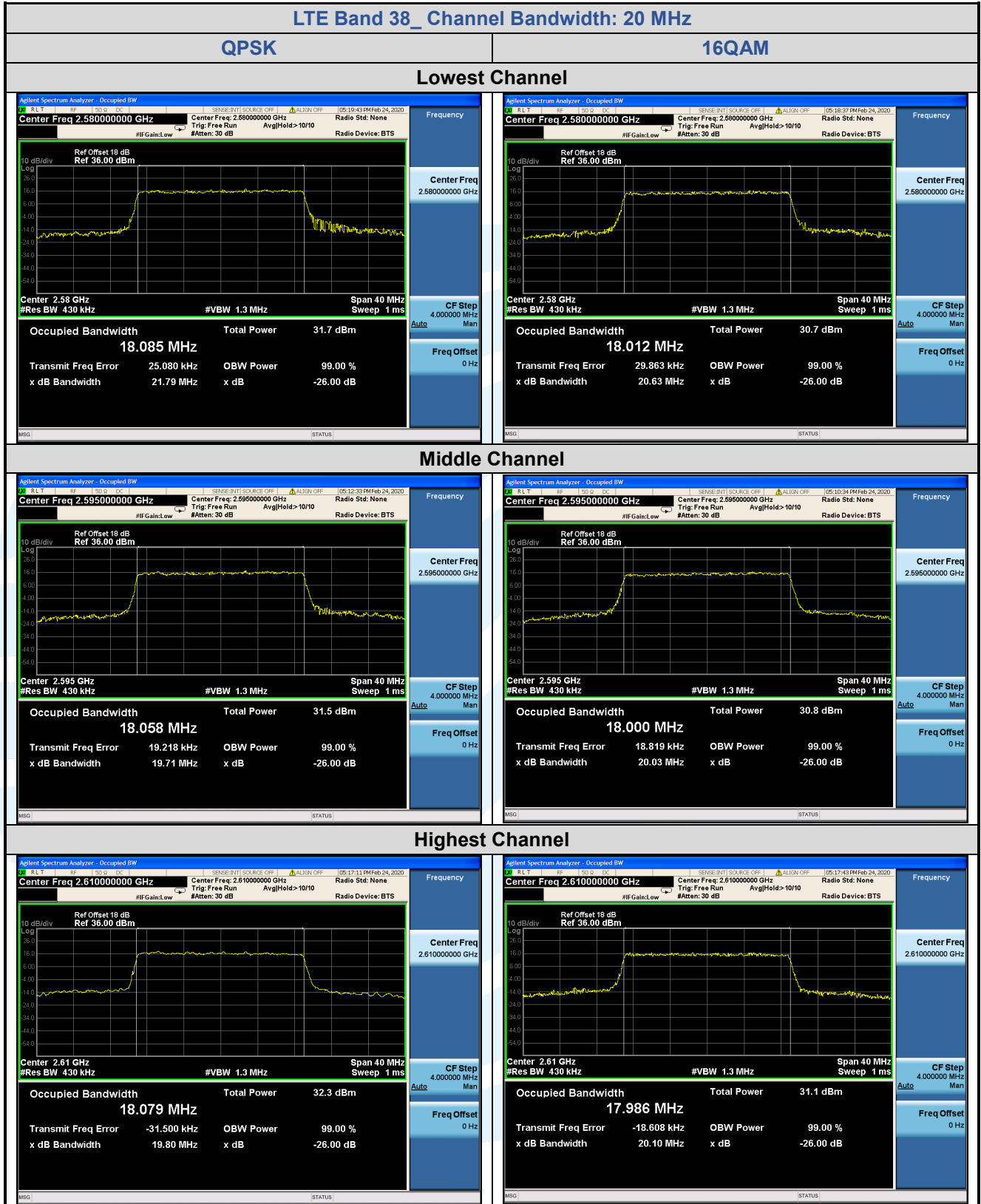
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5.6 BAND EDGE AT ANTENNA TERMINALS

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 & Band 38: FCC 47 CFR Part 27.53(m)(4)

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.

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.

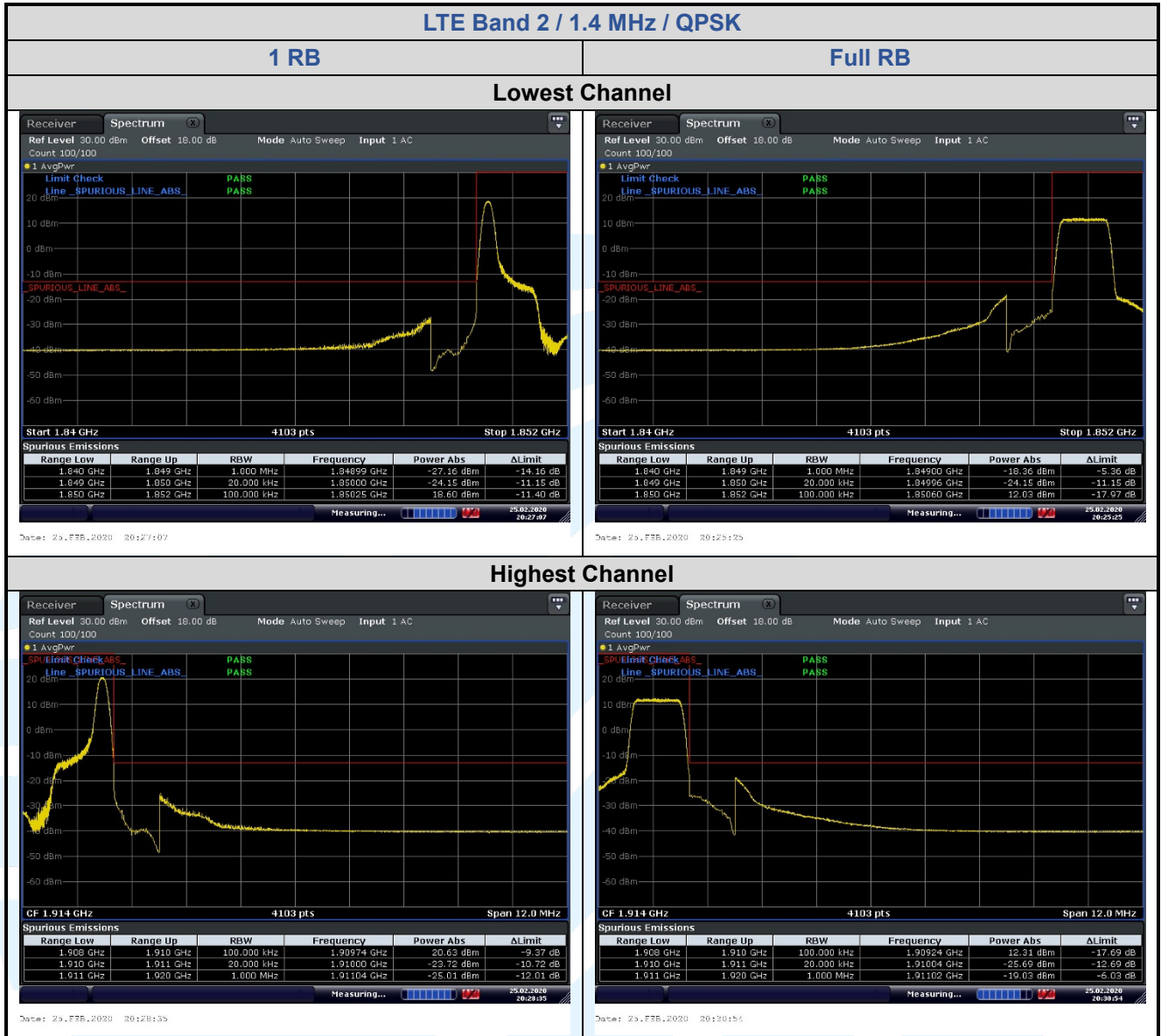
Test Setup: Refer to section 4.2.2 for details.

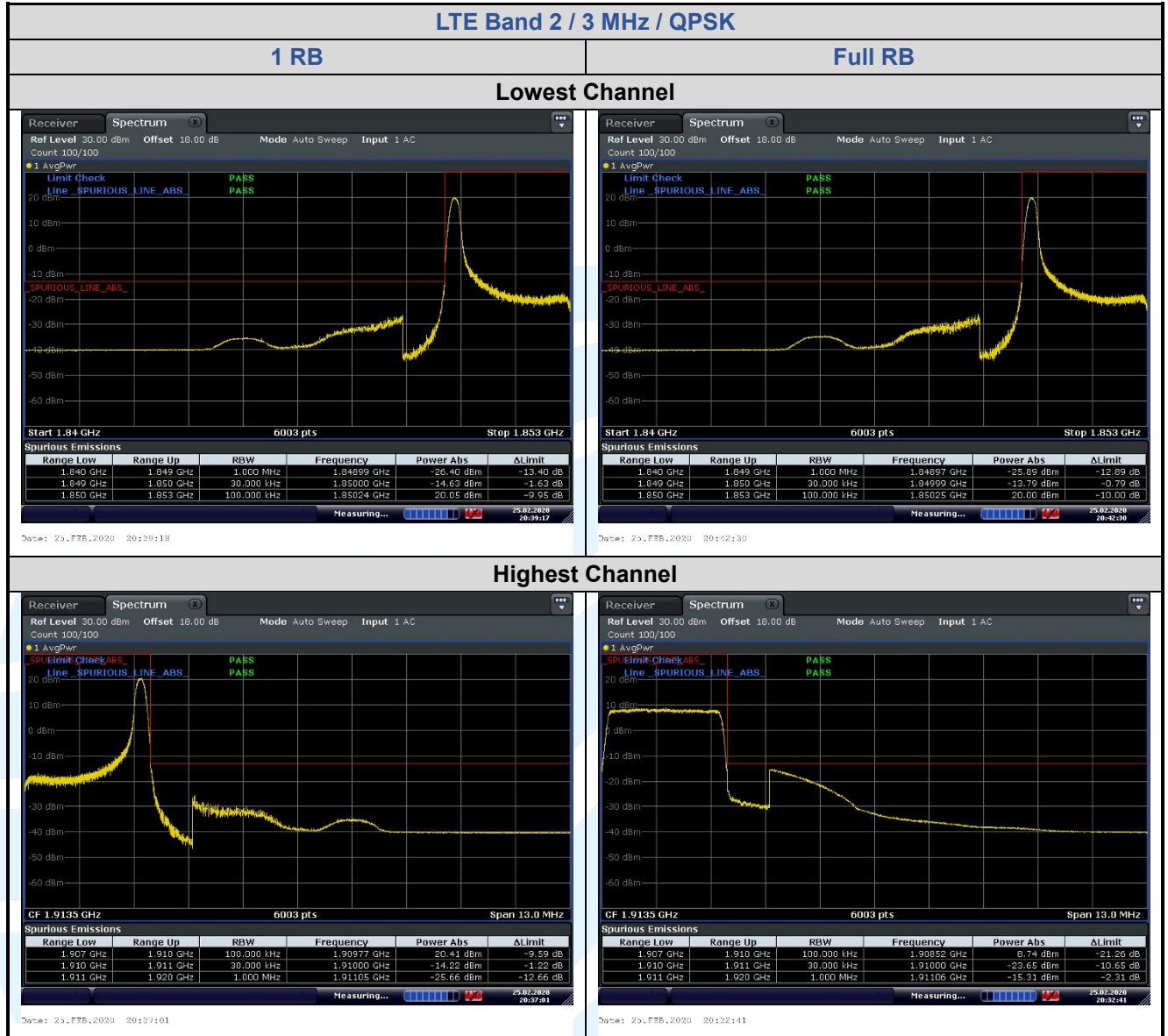
Instruments Used: Refer to section 3 for details

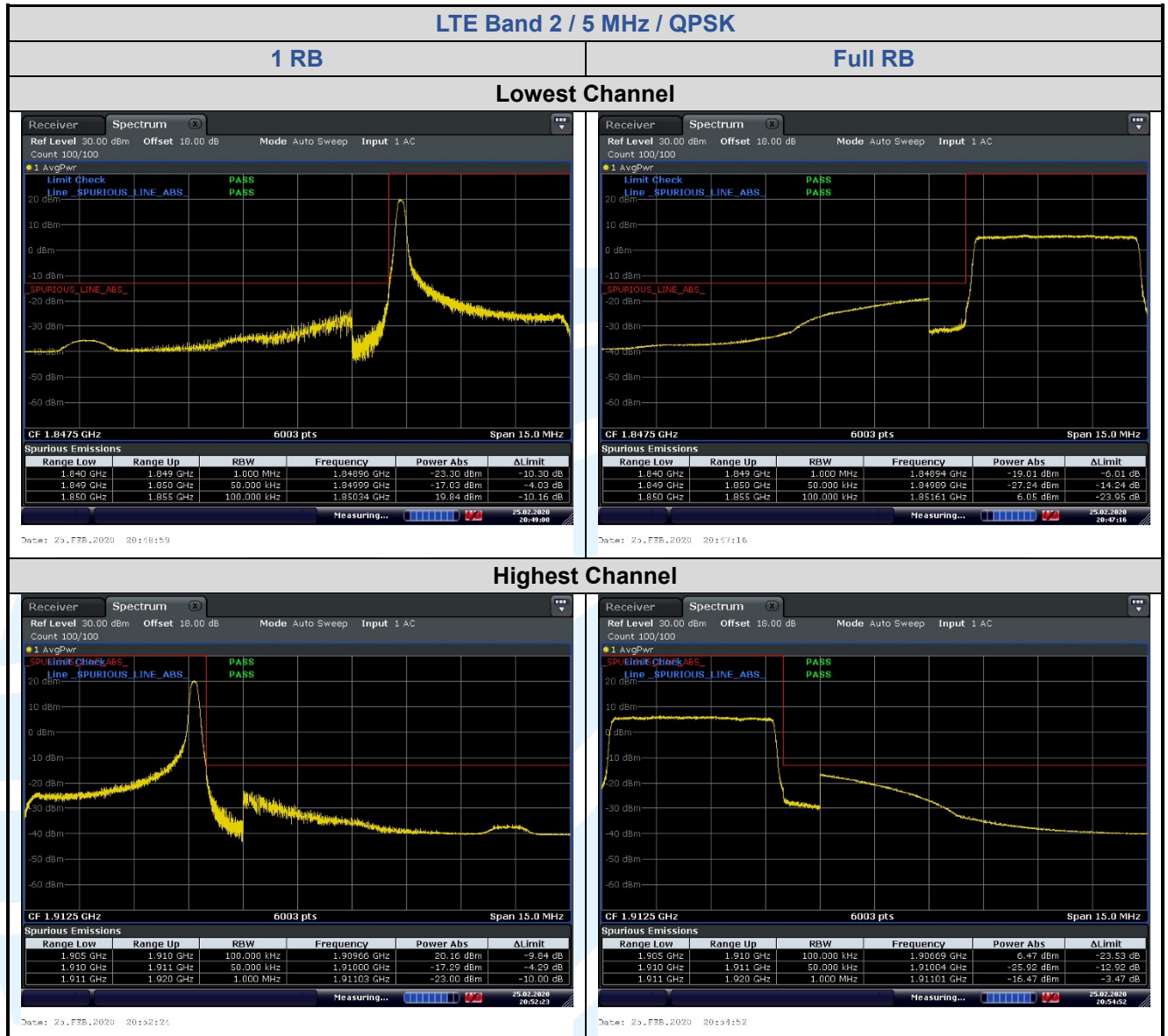
Test Mode: Link mode

Test Results: Pass

5.6.1 LTE Band 2







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