



BUREAU
VERITAS

Test Report No.: W7L-P21040030RF15

CHANNEL BANDWIDTH: 5MHz							
CHANNEL	Frequency (MHz)	99% OCCUPIED Bandwidth (MHz)			26 dB bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
26815	826.5	4.46	4.47	4.49	4.87	4.92	4.95
26915	836.5	4.47	4.47	4.47	4.90	4.91	4.89
27015	846.5	4.46	4.48	4.46	4.86	4.91	4.90





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CHANNEL BANDWIDTH: 10MHz							
CHANNEL	Frequency (MHz)	99% OCCUPIED Bandwidth (MHz)			26 dB bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
26840	829	8.95	8.94	8.93	9.74	9.68	9.62
26915	836.5	8.93	8.92	8.94	9.62	9.65	9.64
26990	844	8.93	8.94	8.93	9.66	9.50	9.70





CHANNEL BANDWIDTH: 15MHz							
CHANNEL	Frequency (MHz)	99% OCCUPIED Bandwidth (MHz)			26 dB bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
26865	831.5	13.36	13.36	13.37	14.24	14.38	14.36
26915	836.5	13.39	13.39	13.41	14.50	14.46	14.43
26965	841.5	13.43	13.44	13.46	14.46	14.43	14.45

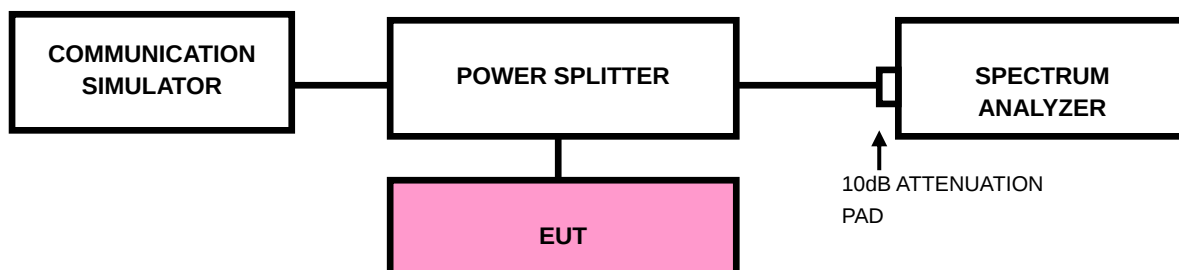


3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.4.2 TEST SETUP



3.4.3 TEST PROCEDURES

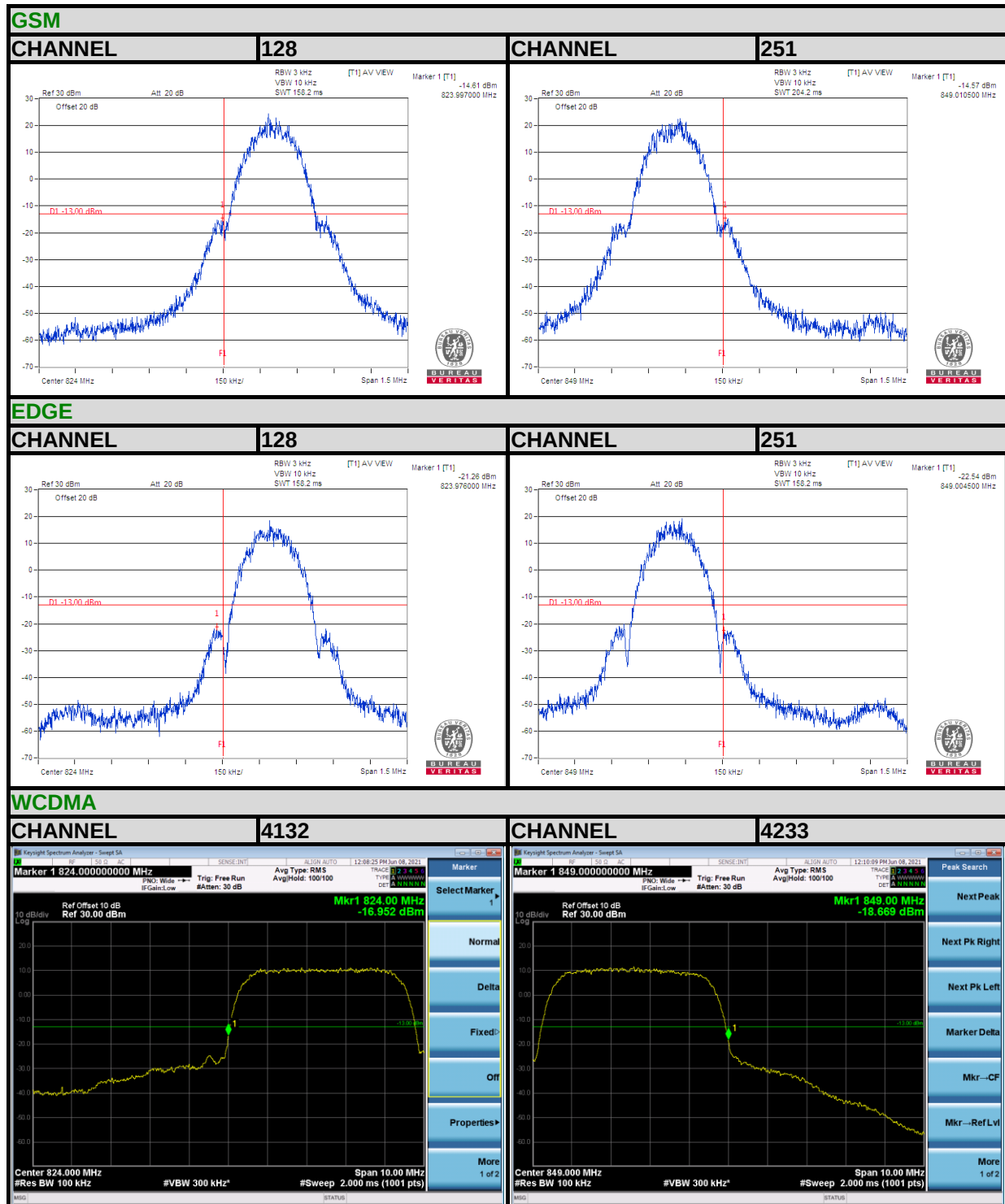
- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1.5MHz. RBW of the spectrum is 10kHz and VBW of the spectrum is 30kHz (GSM/GPRS/EDGE).
- c. The center frequency of spectrum is the band edge frequency and span is 10MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz (WCDMA).
- d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 20kHz and VBW of the spectrum is 100 kHz. (LTE bandwidth 1.4MHz).
- e. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 30kHz and VBW of the spectrum is 100kHz. (LTE bandwidth 3MHz)
- f. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 50kHz and VBW of the spectrum is 200kHz. (LTE bandwidth 5MHz)
- g. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz. (LTE bandwidth 10MHz)
- h. Record the max trace plot into the test report.



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3.4.4 TEST RESULTS



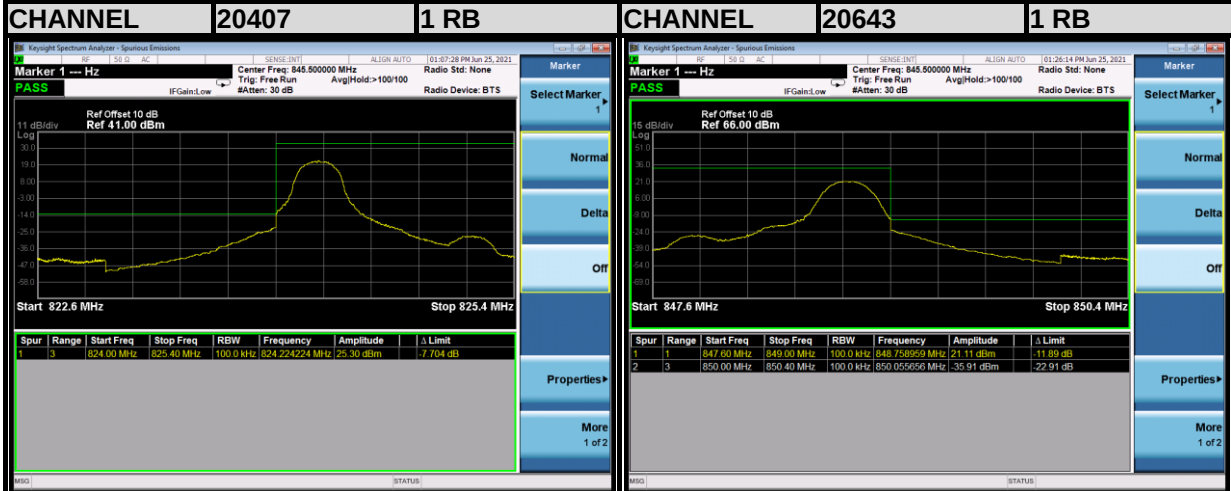


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LTE Band5

Channel Bandwidth: 1.4MHz QPSK



LTE Band5

Channel Bandwidth: 1.4MHz QPSK



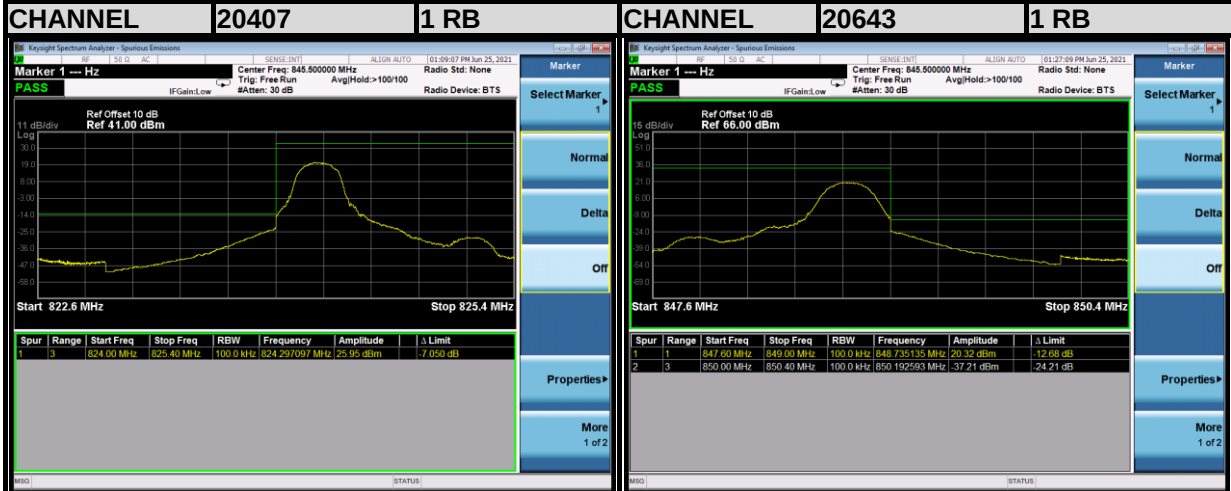


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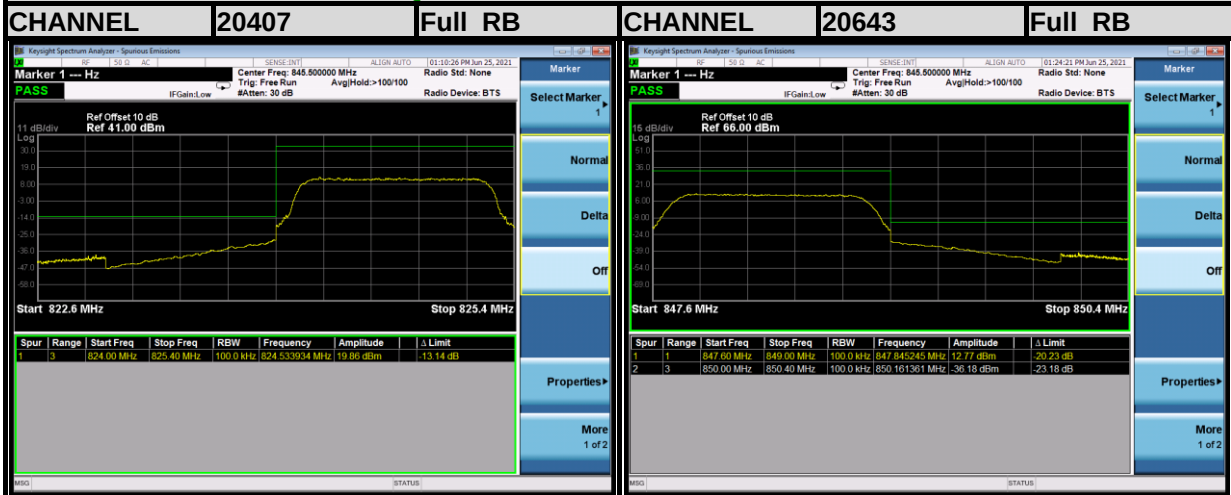
LTE Band5

Channel Bandwidth: 1.4MHz 16QAM



LTE Band5

Channel Bandwidth: 1.4MHz 16QAM



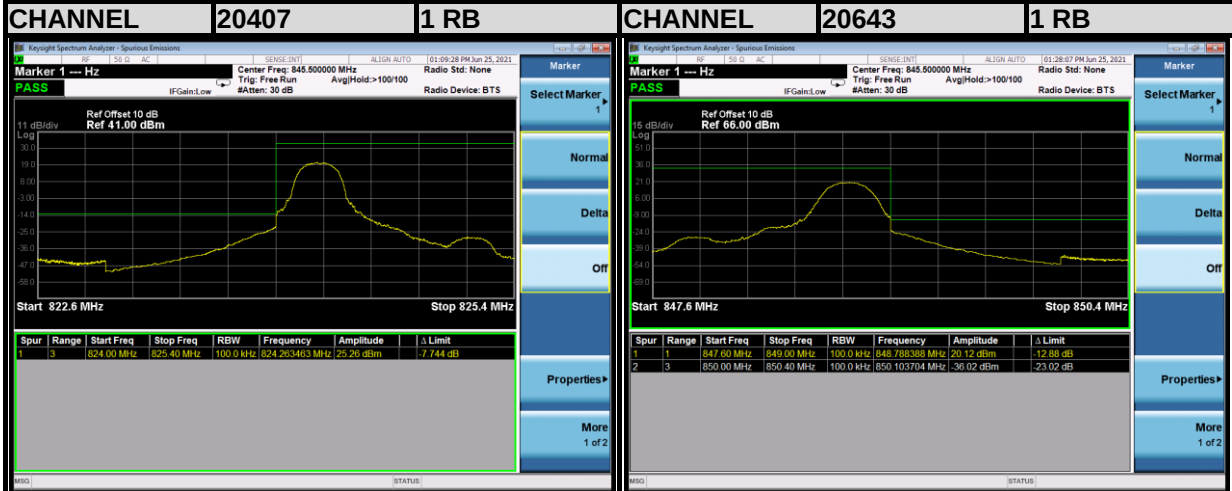


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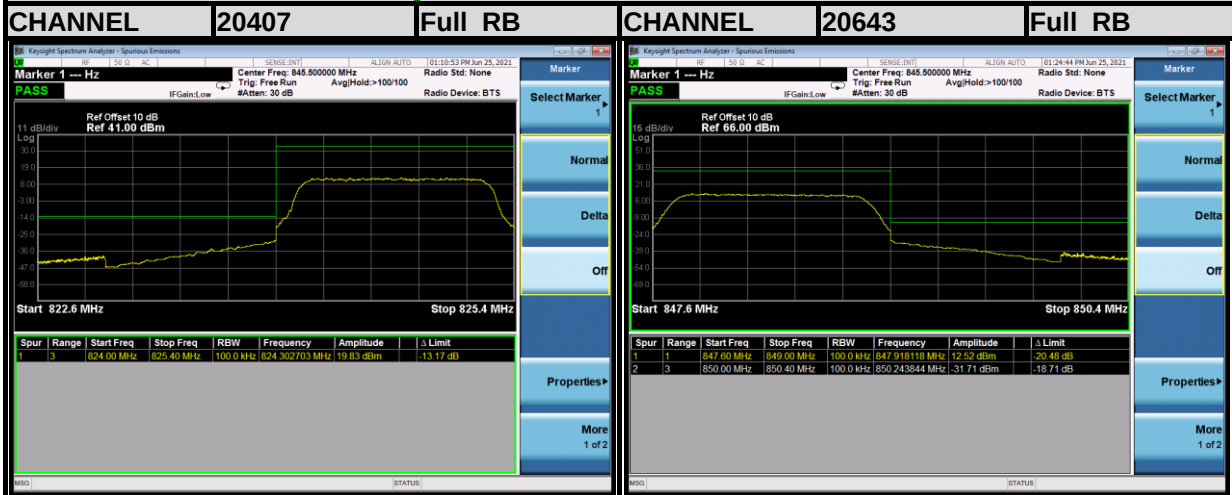
LTE Band5

Channel Bandwidth: 1.4MHz 64QAM



LTE Band5

Channel Bandwidth: 1.4MHz 64QAM



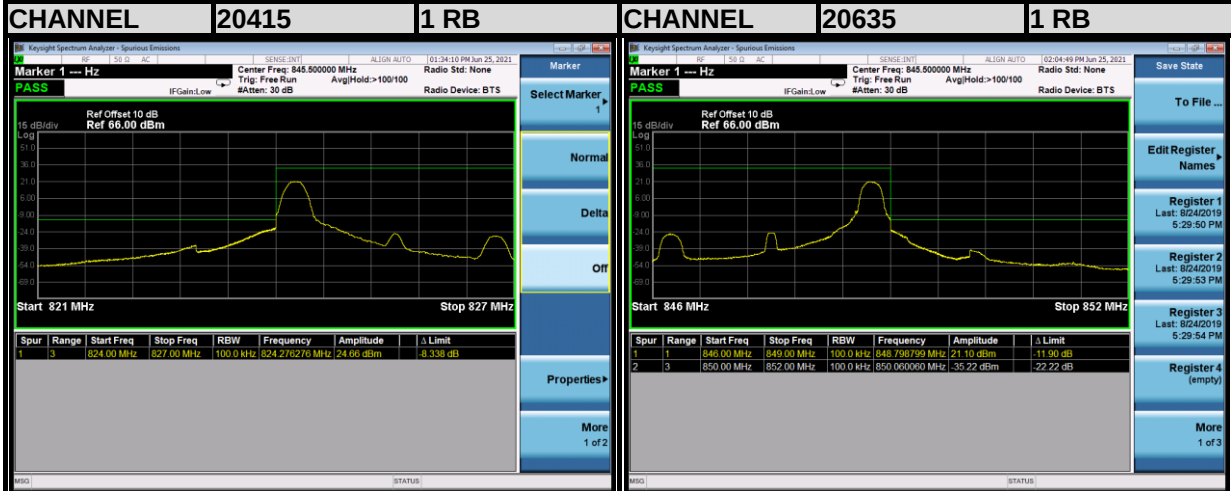


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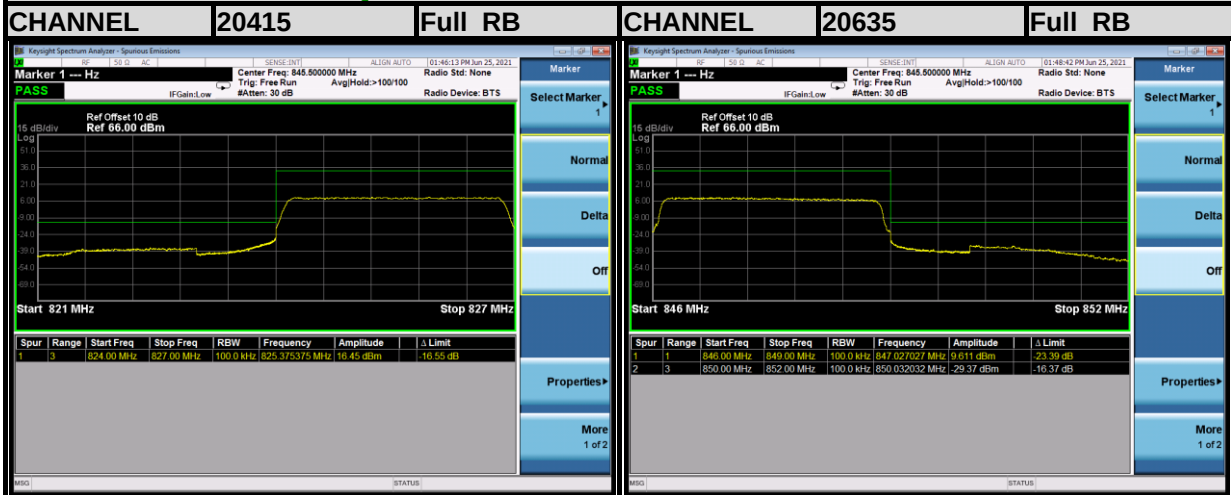
LTE Band5

Channel Bandwidth: 3MHz QPSK



LTE Band5

Channel Bandwidth: 3MHz QPSK





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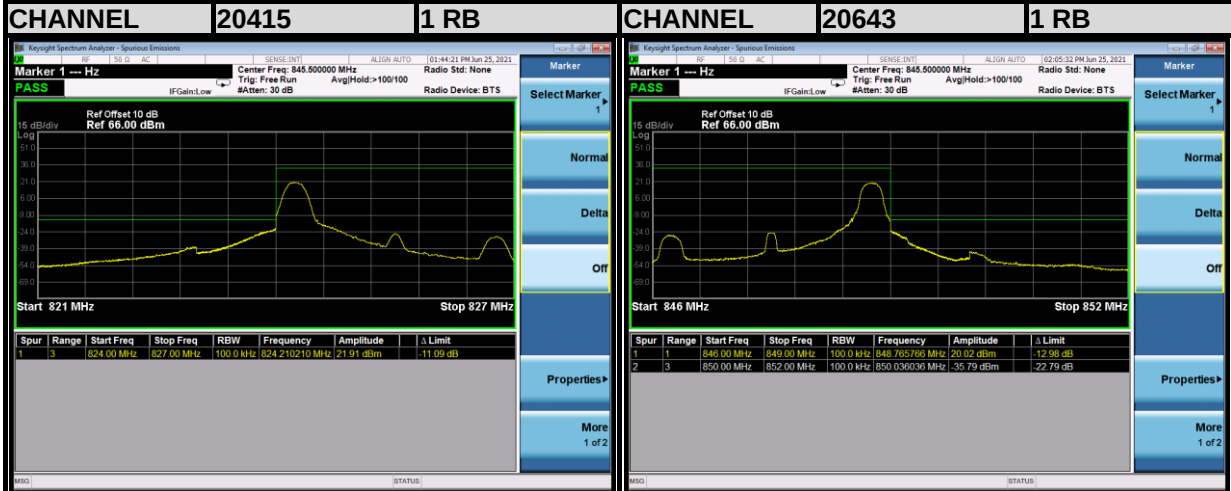


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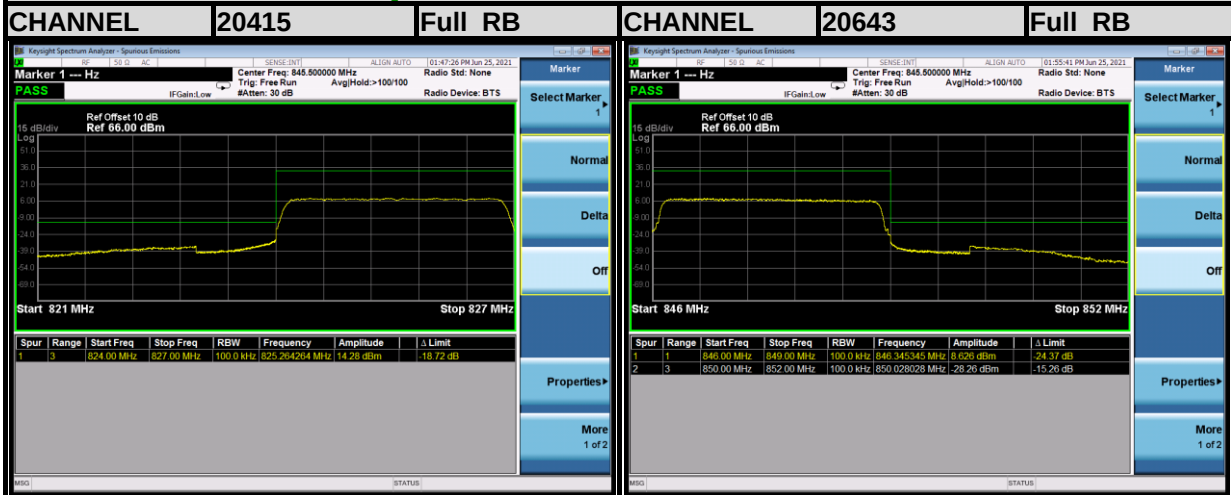
LTE Band5

Channel Bandwidth: 3MHz 64QAM



LTE Band5

Channel Bandwidth: 3MHz 64QAM



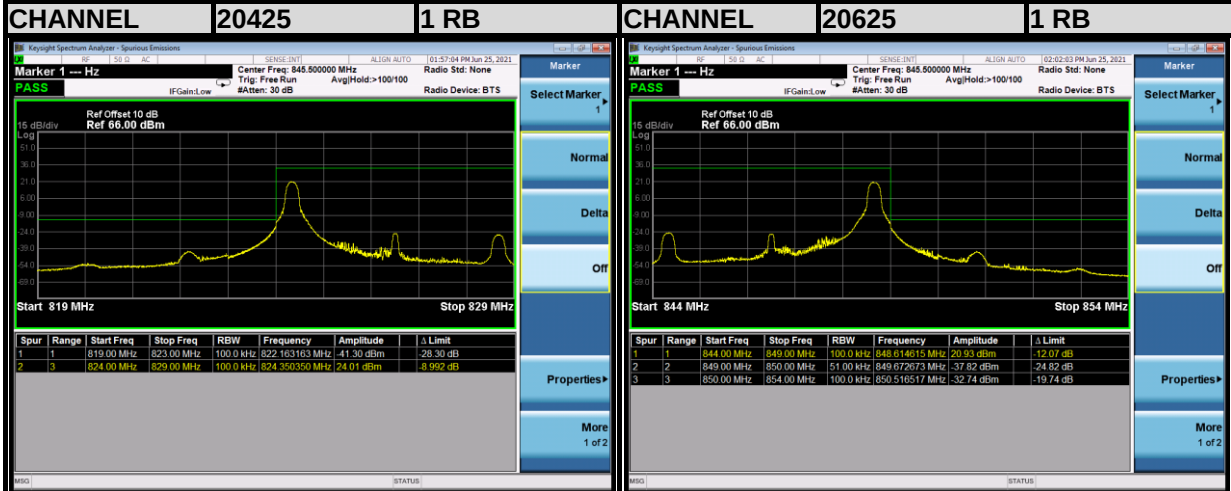


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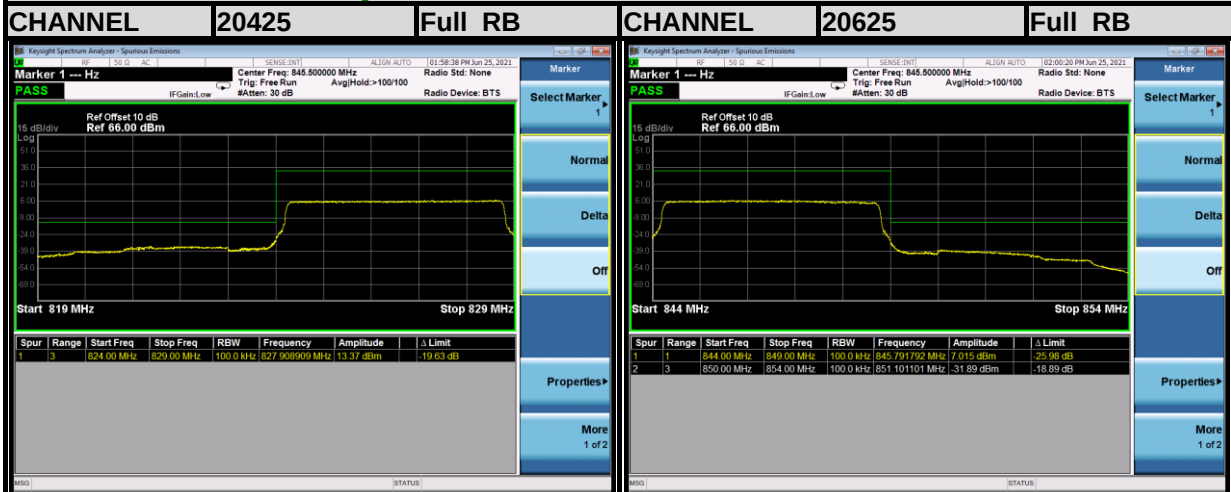
LTE Band5

Channel Bandwidth: 5MHz QPSK



LTE Band5

Channel Bandwidth: 5MHz QPSK



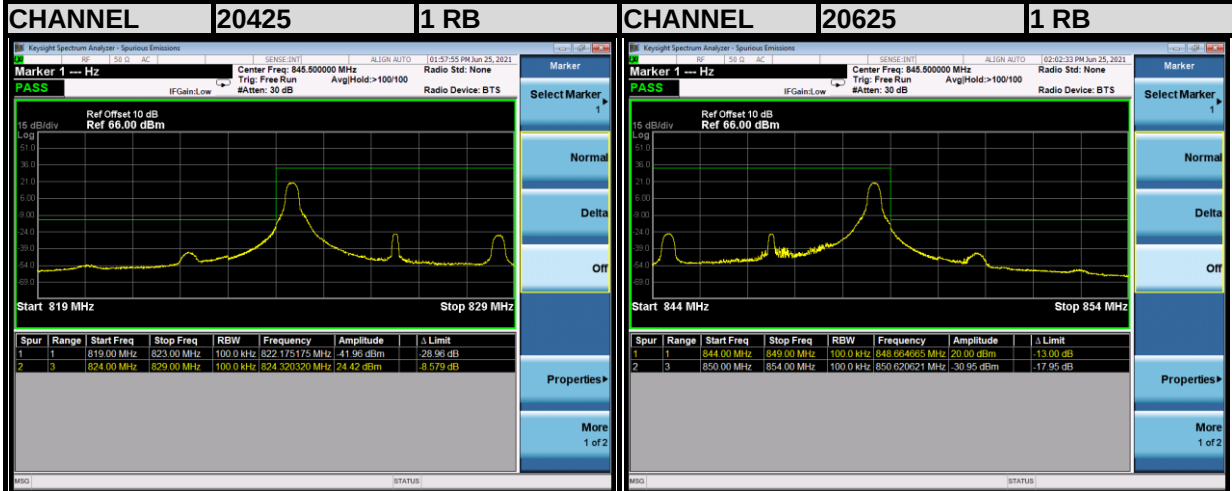


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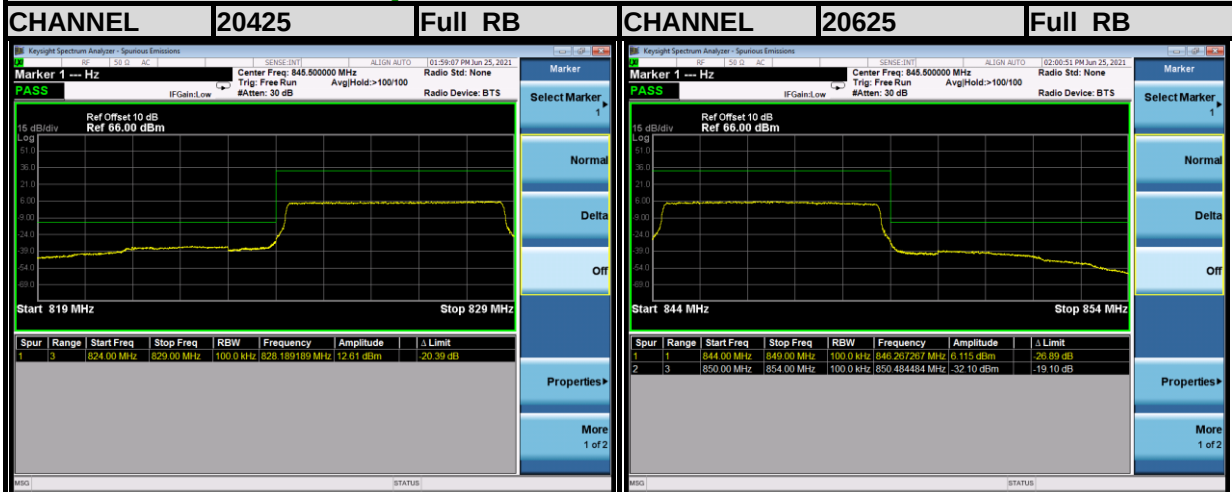
LTE Band5

Channel Bandwidth: 5MHz 16QAM



LTE Band5

Channel Bandwidth: 5MHz 16QAM

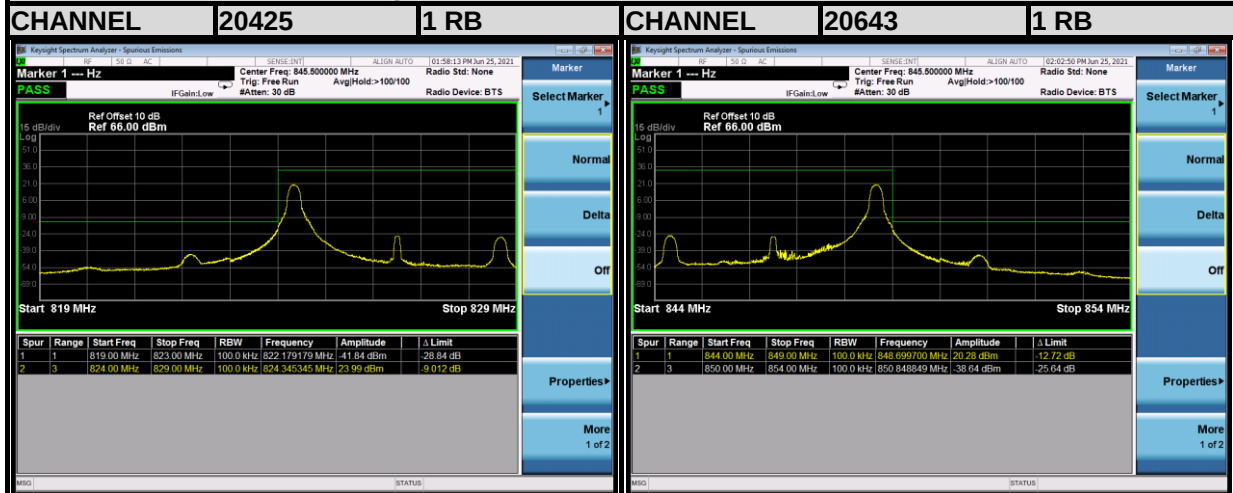




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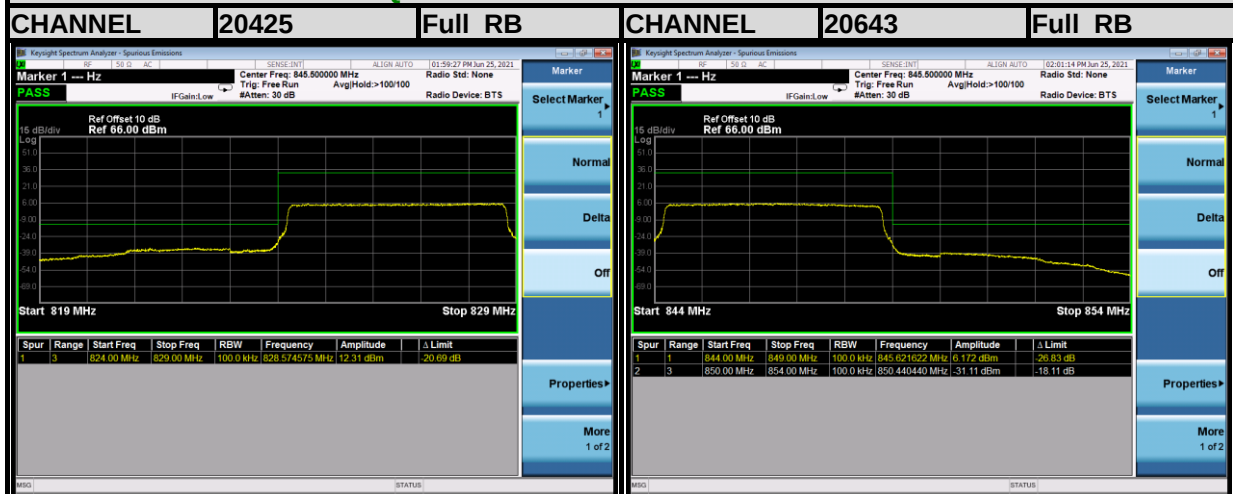
LTE Band5

Channel Bandwidth: 5MHz 64QAM



LTE Band5

Channel Bandwidth: 5MHz 64QAM





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