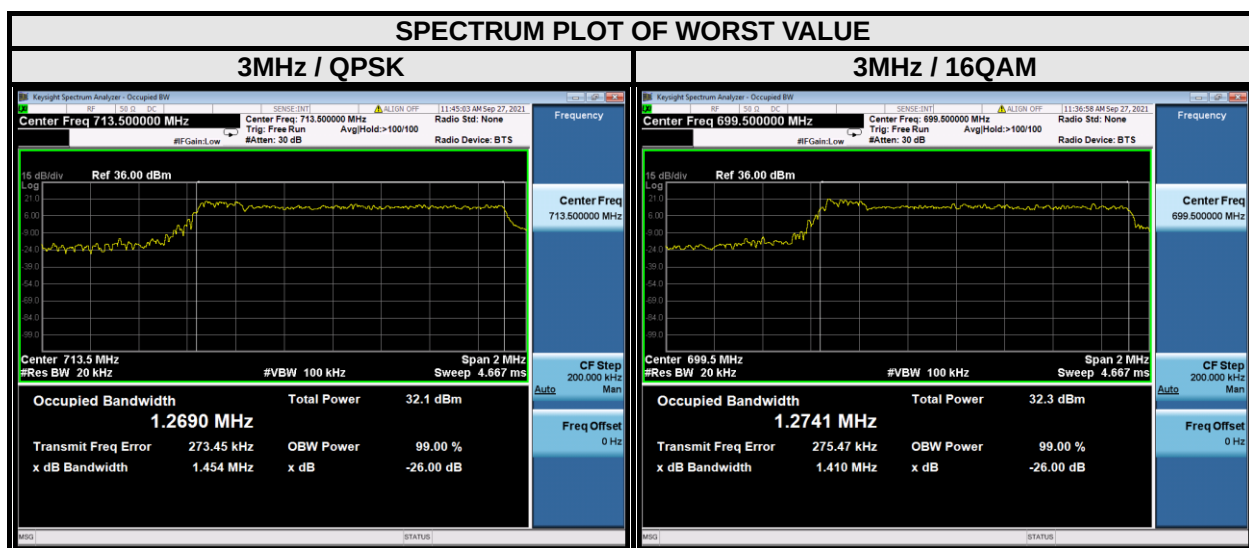
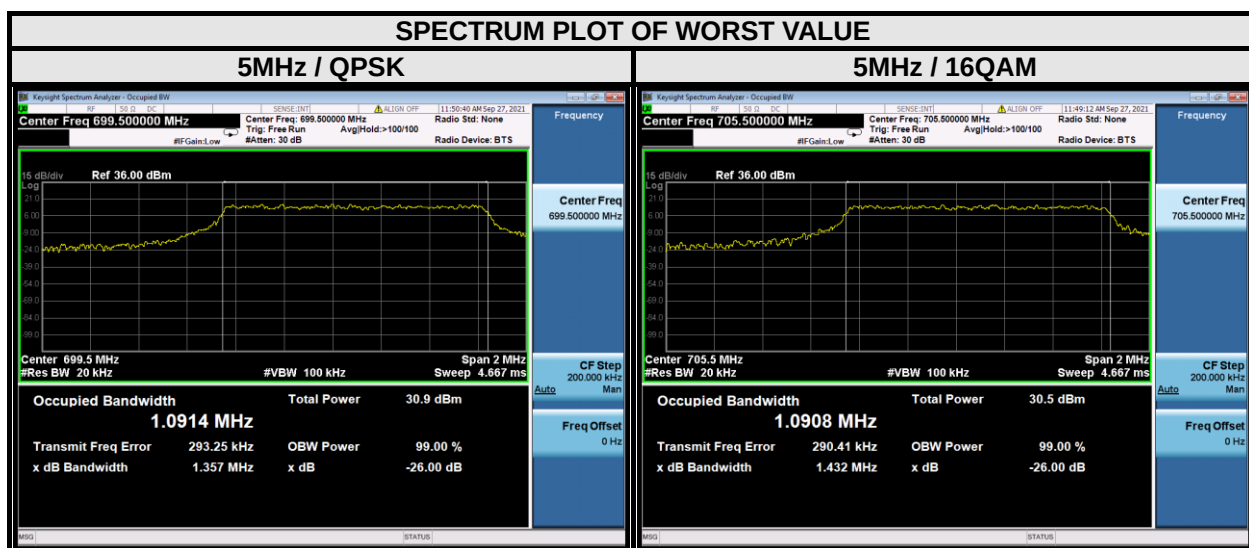


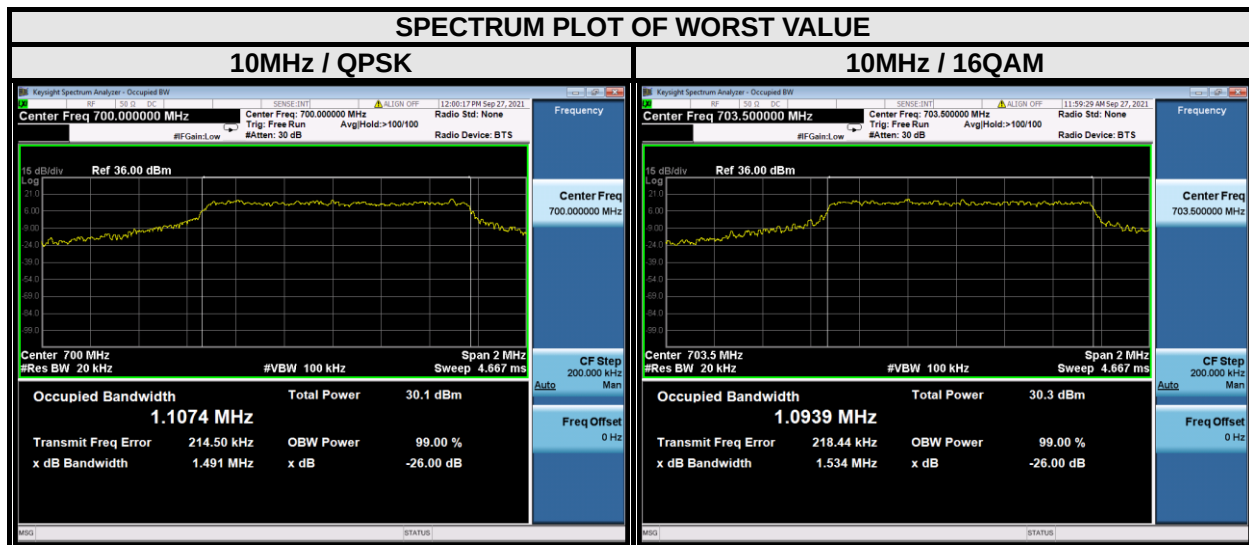
CHANNEL BANDWIDTH: 3MHz							
CHANNEL	Frequency (MHz)	99% OCCUPIED Bandwidth (MHz)			26 dB bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
23025	700.5	1.26	1.27	/	1.39	1.41	/
23095	707.5	1.26	1.26	/	1.39	1.42	/
23165	714.5	1.27	1.26	/	1.45	1.42	/



CHANNEL BANDWIDTH: 5MHz							
CHANNEL	Frequency (MHz)	99% OCCUPIED Bandwidth (MHz)			26 dB bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
23035	701.5	1.09	1.09	/	1.36	1.38	/
23095	707.5	1.09	1.09	/	1.38	1.43	/
23155	713.5	1.09	1.09	/	1.35	1.32	/



CHANNEL BANDWIDTH: 10MHz							
CHANNEL	Frequency (MHz)	99% OCCUPIED Bandwidth (MHz)			26 dB bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
23060	704	1.11	1.09	/	1.49	1.44	/
23095	707.5	1.10	1.09	/	1.49	1.53	/
23130	711	1.10	1.09	/	1.51	1.52	/



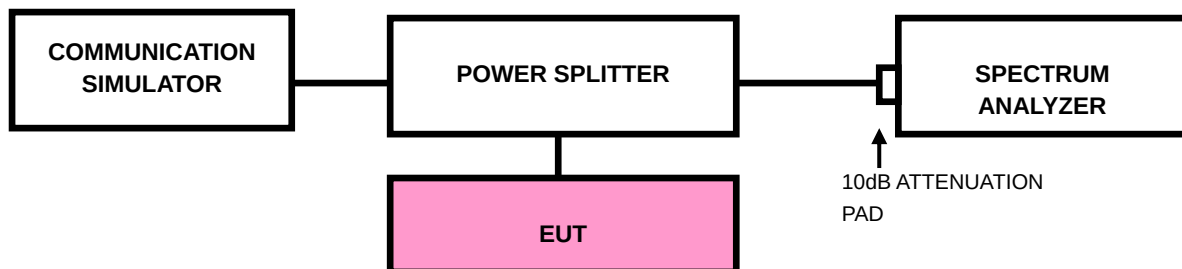
3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

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.

27.53(h) For operations in the 1710-1755MHz band, the FCC limit is $43 + 10 \log(P)$ dB. Below the transmitter power (P) in a 1MHz bandwidth. However, in the 1MHz kilohertz bands immediately outside and adjacent to a licensee's 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





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3.4.3 TEST PROCEDURES

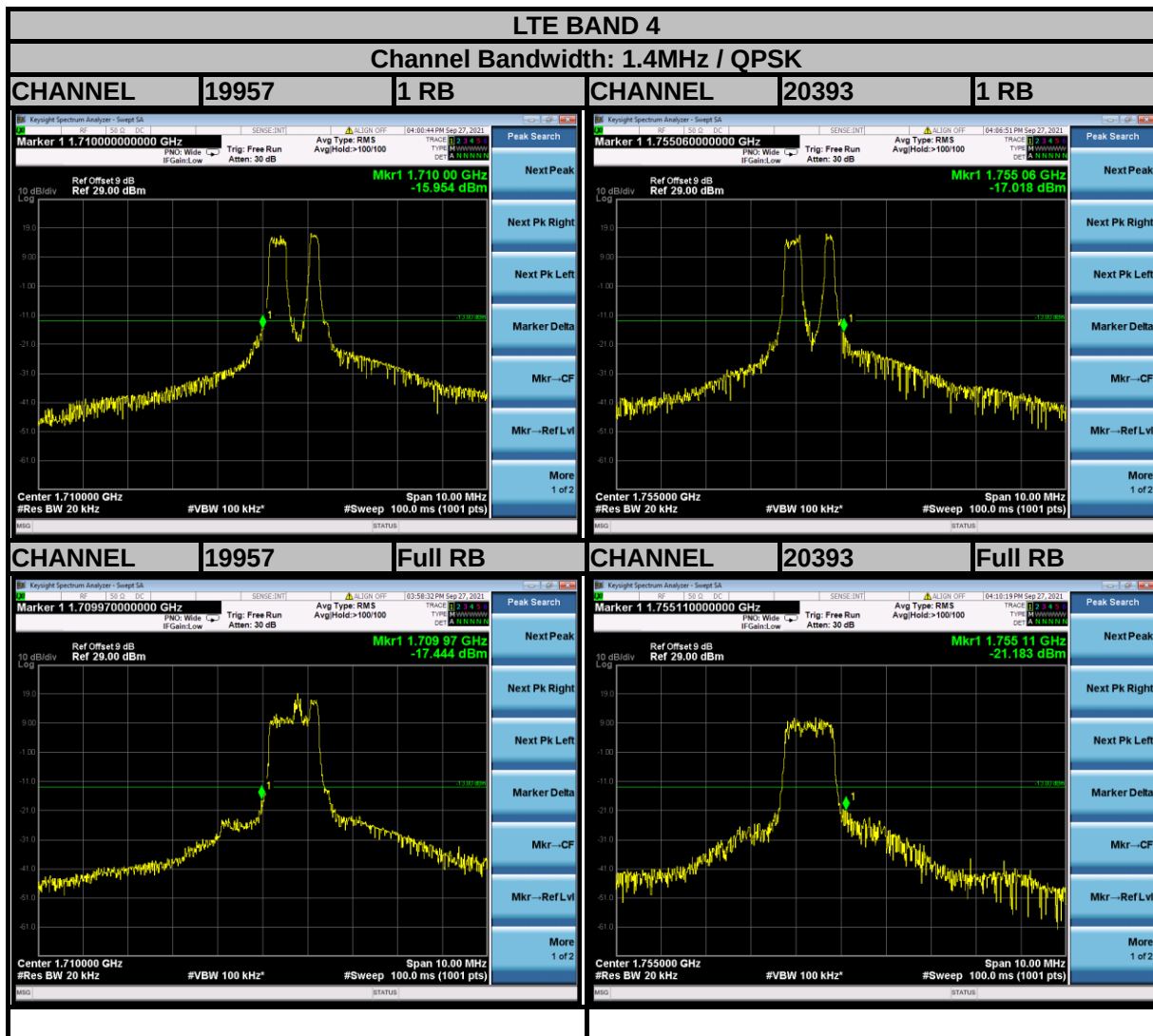
- a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. Set spectrum is the band edge frequency and span is 10 MHz. RBW of the spectrum is 20kHz(greater than 1 percent of emission bandwidth) and VBW of the spectrum is 100kHz.

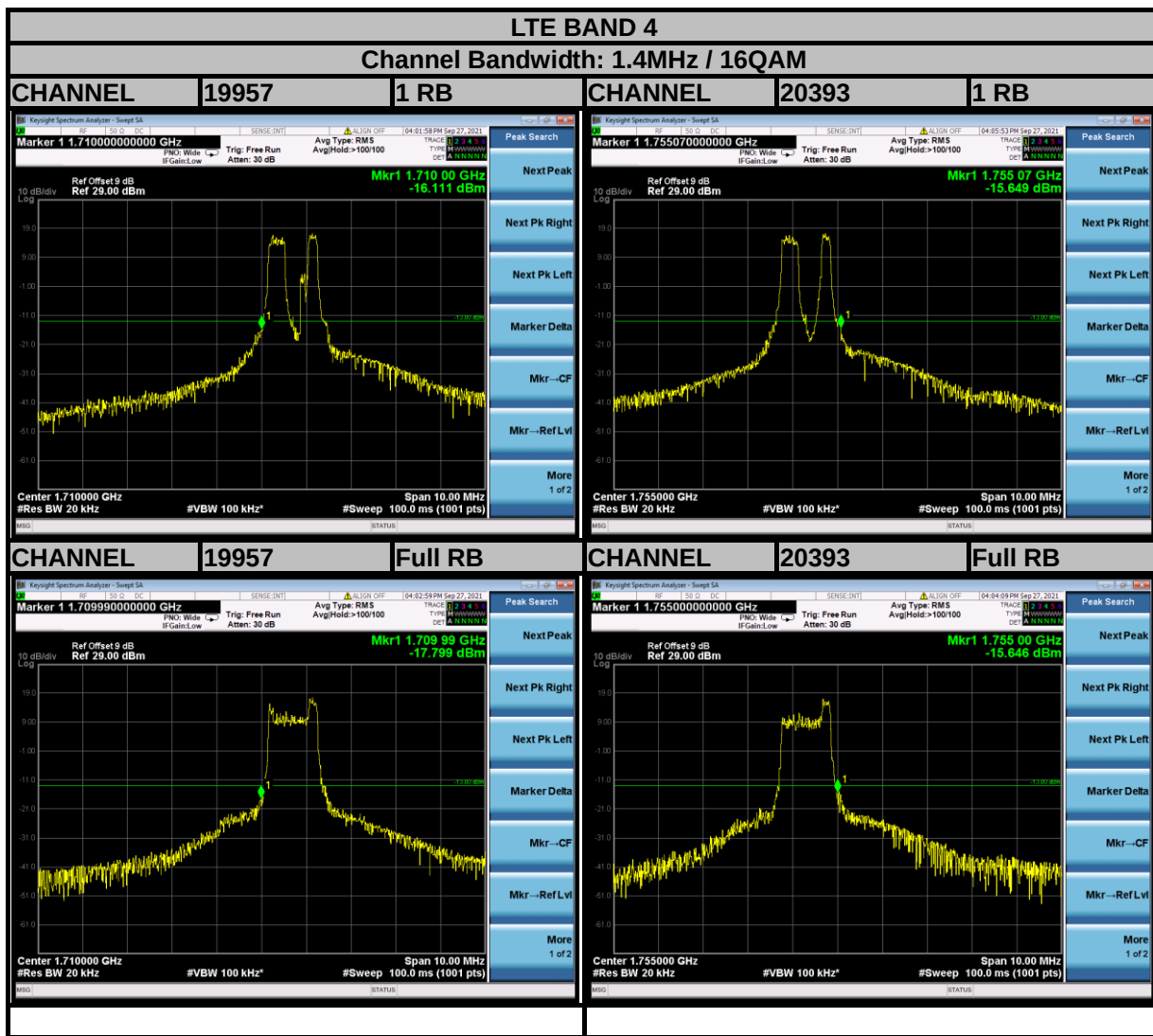
3.4.4 TEST RESULTS

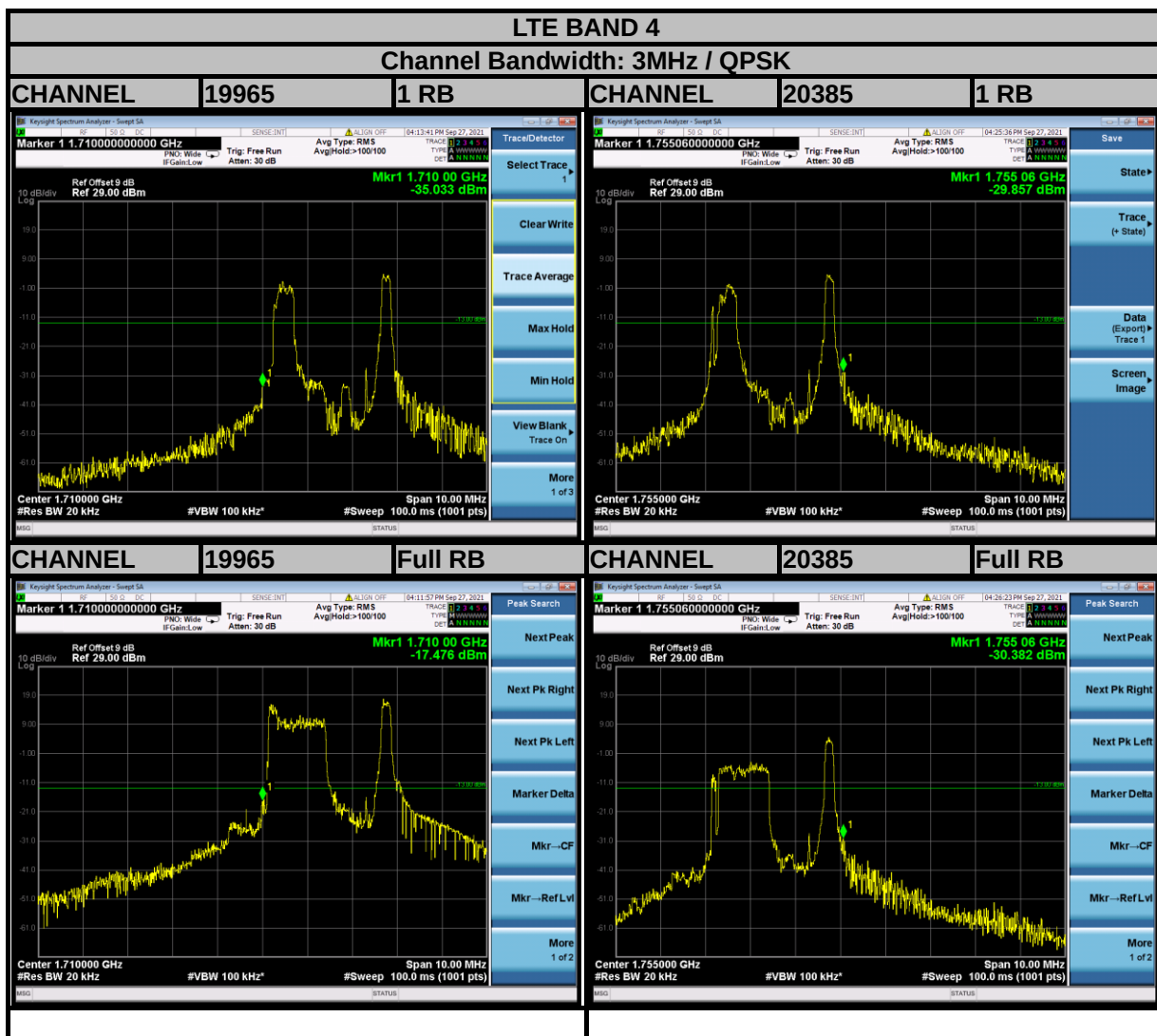
LTE Band 4:

Note: for RBW at least 30 kHz, use 20KHz Test, the conversion equation is:

$10 \cdot \log(30\text{K}/20\text{K}) = 1.76$, Worst case emission is -15.95dBm , $-15.95 + 1.76 = -14.19\text{dBm}$, All the results pass



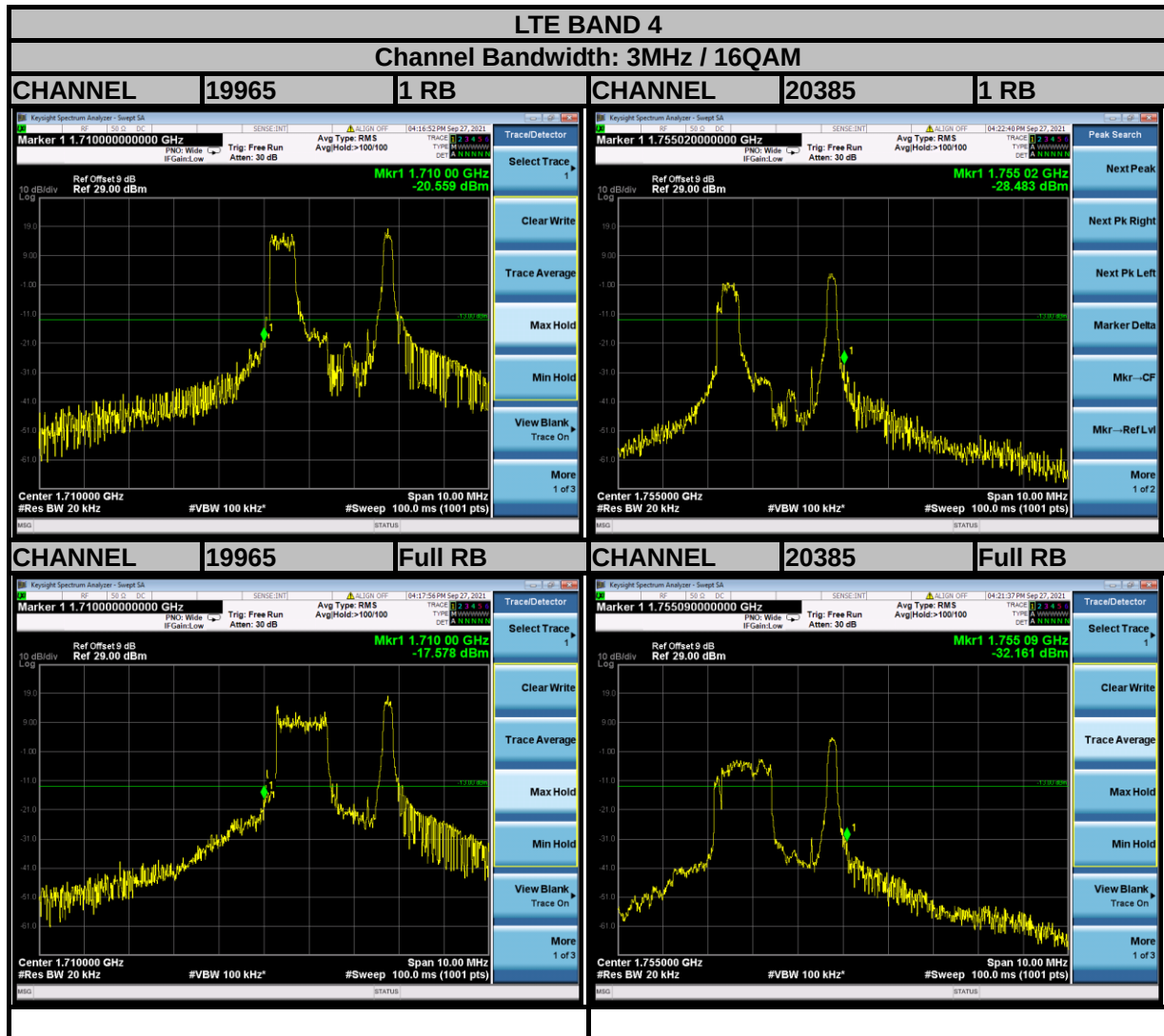


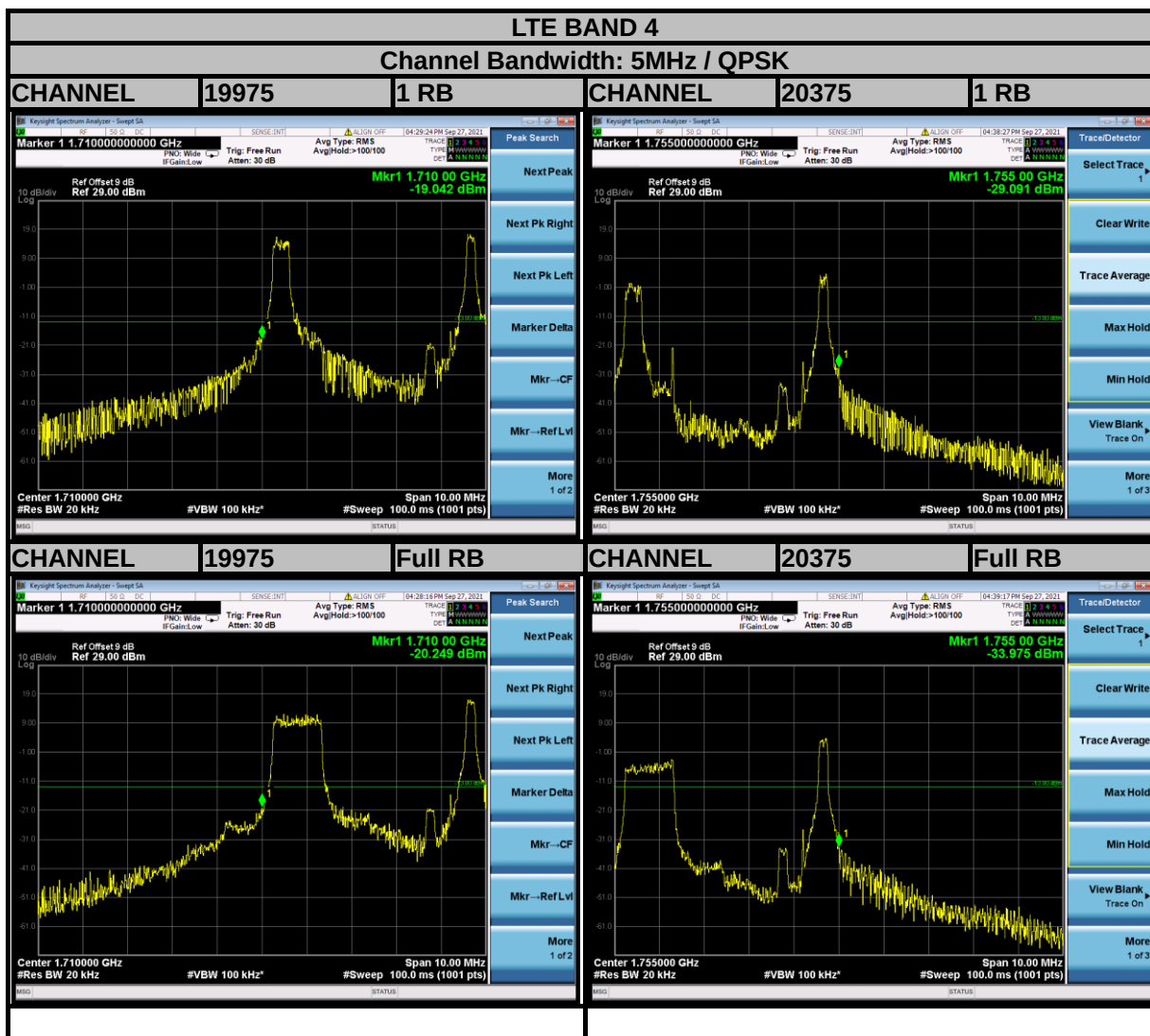


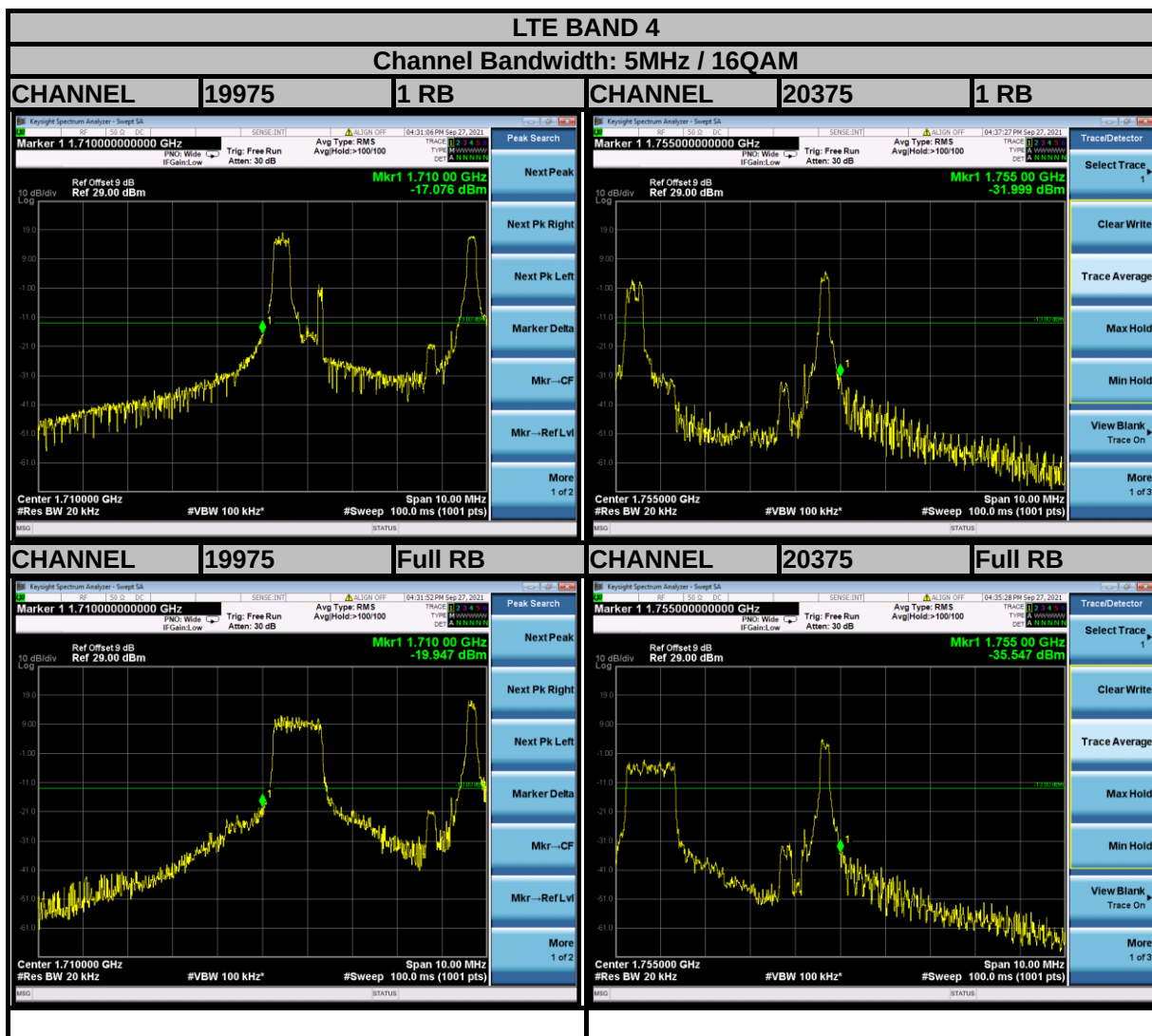


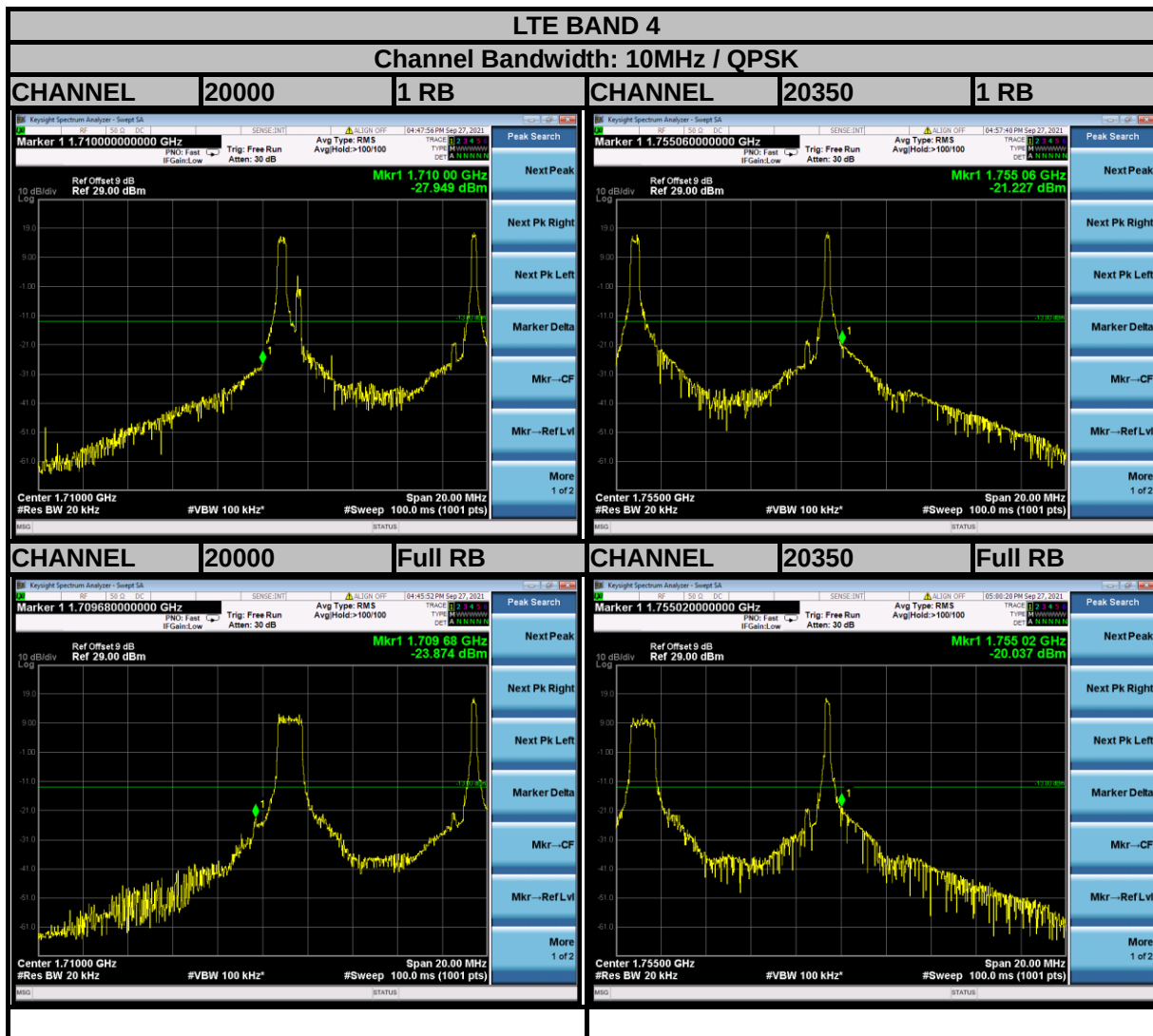
BUREAU
VERITAS

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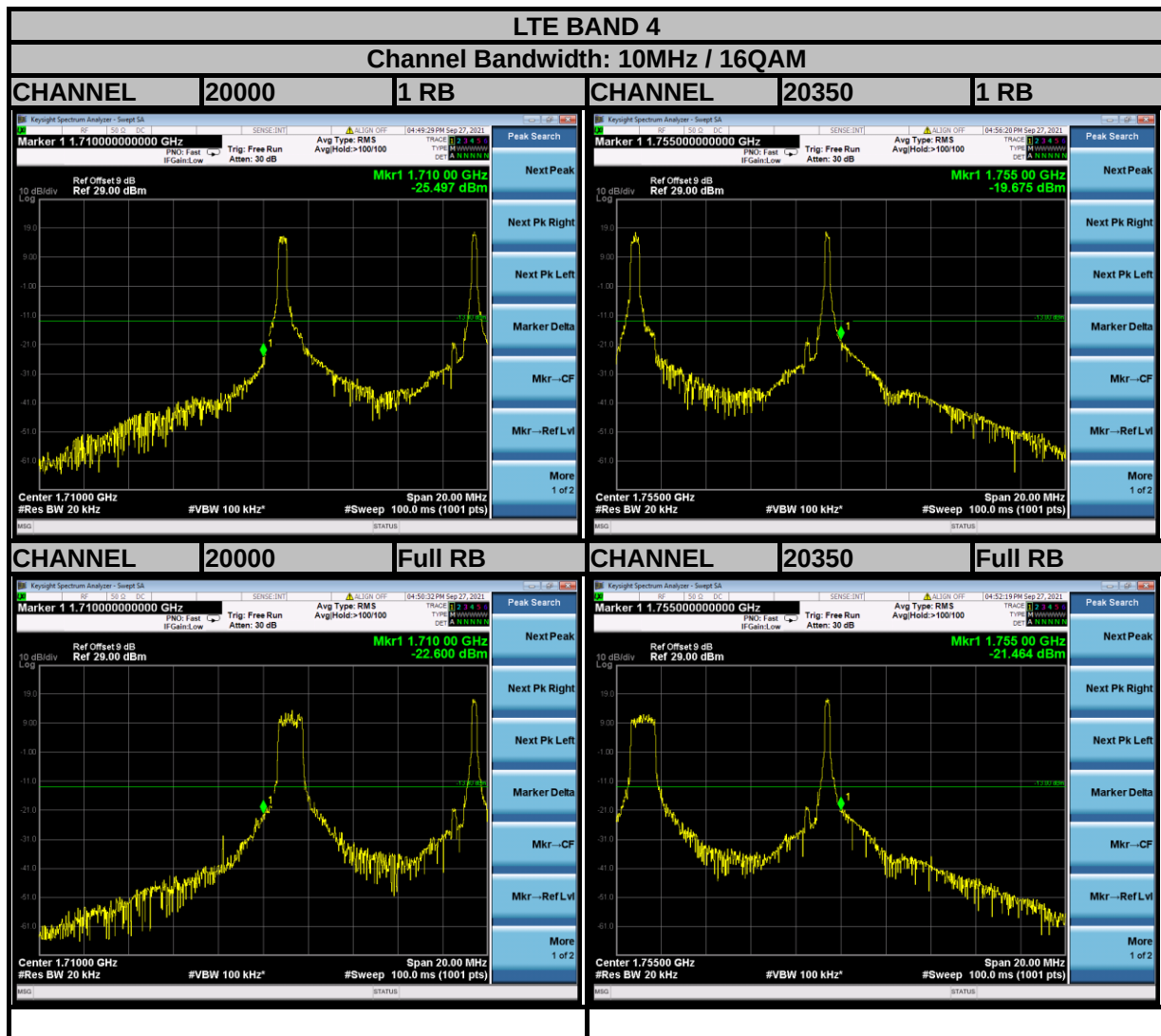


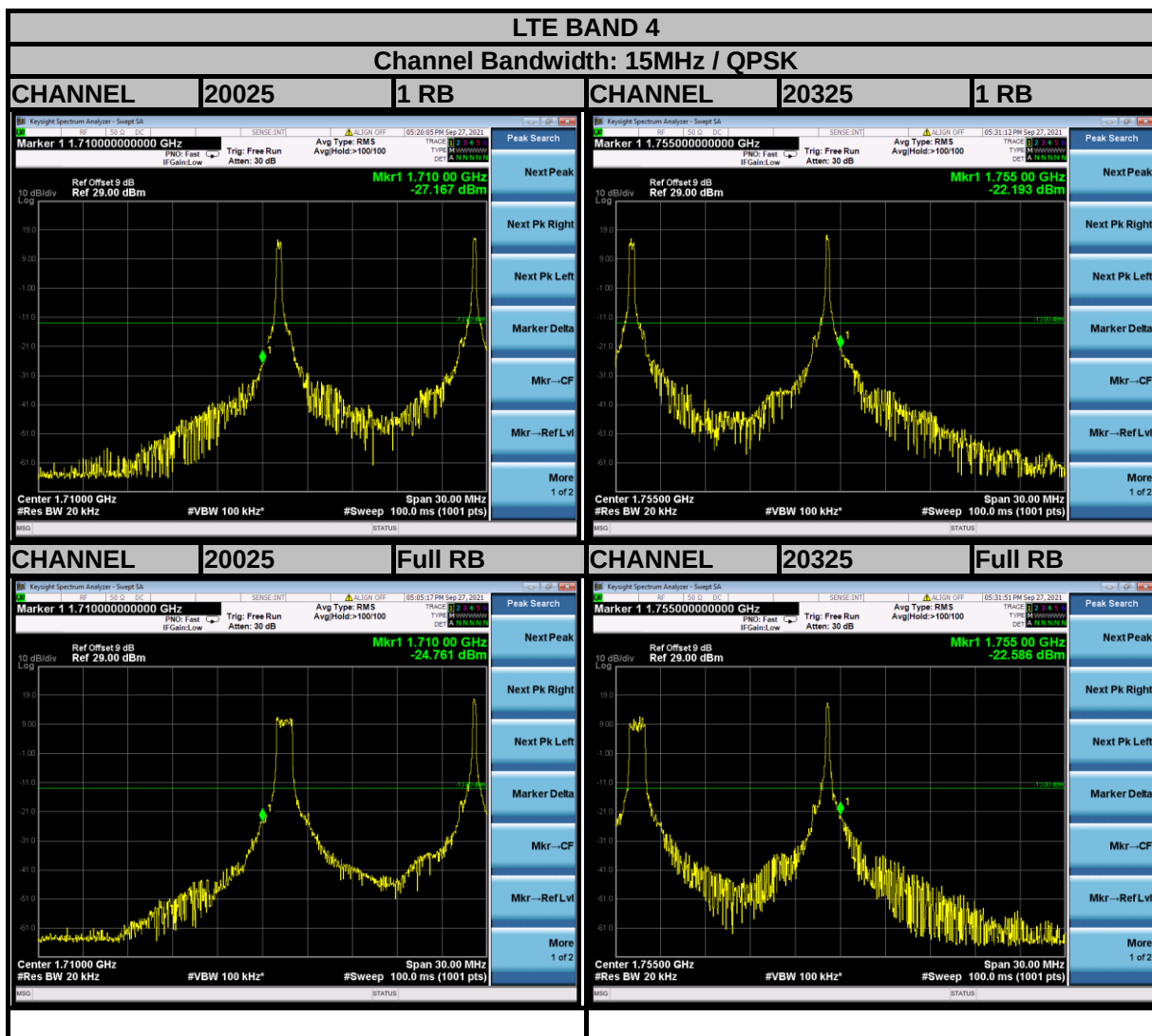


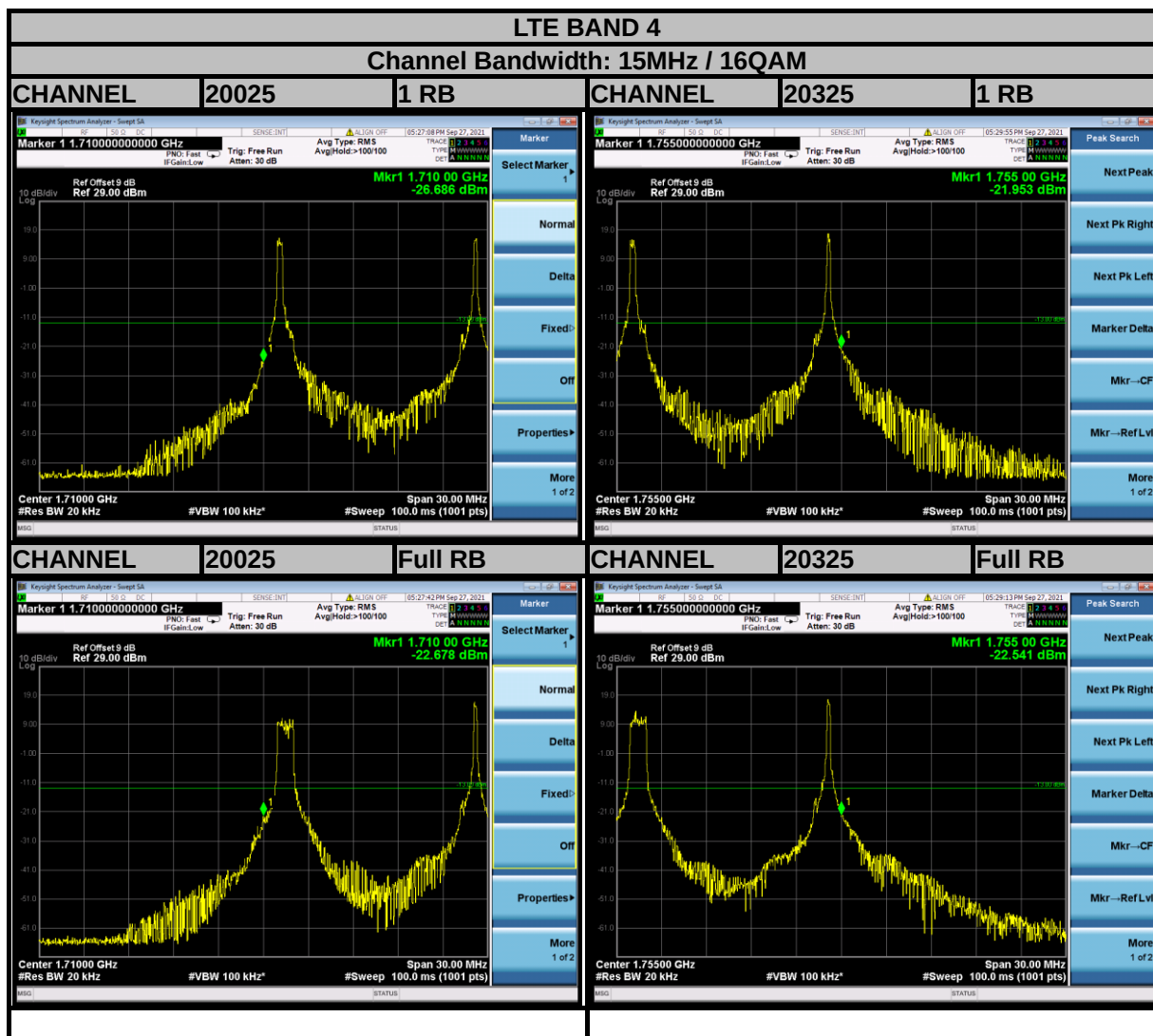


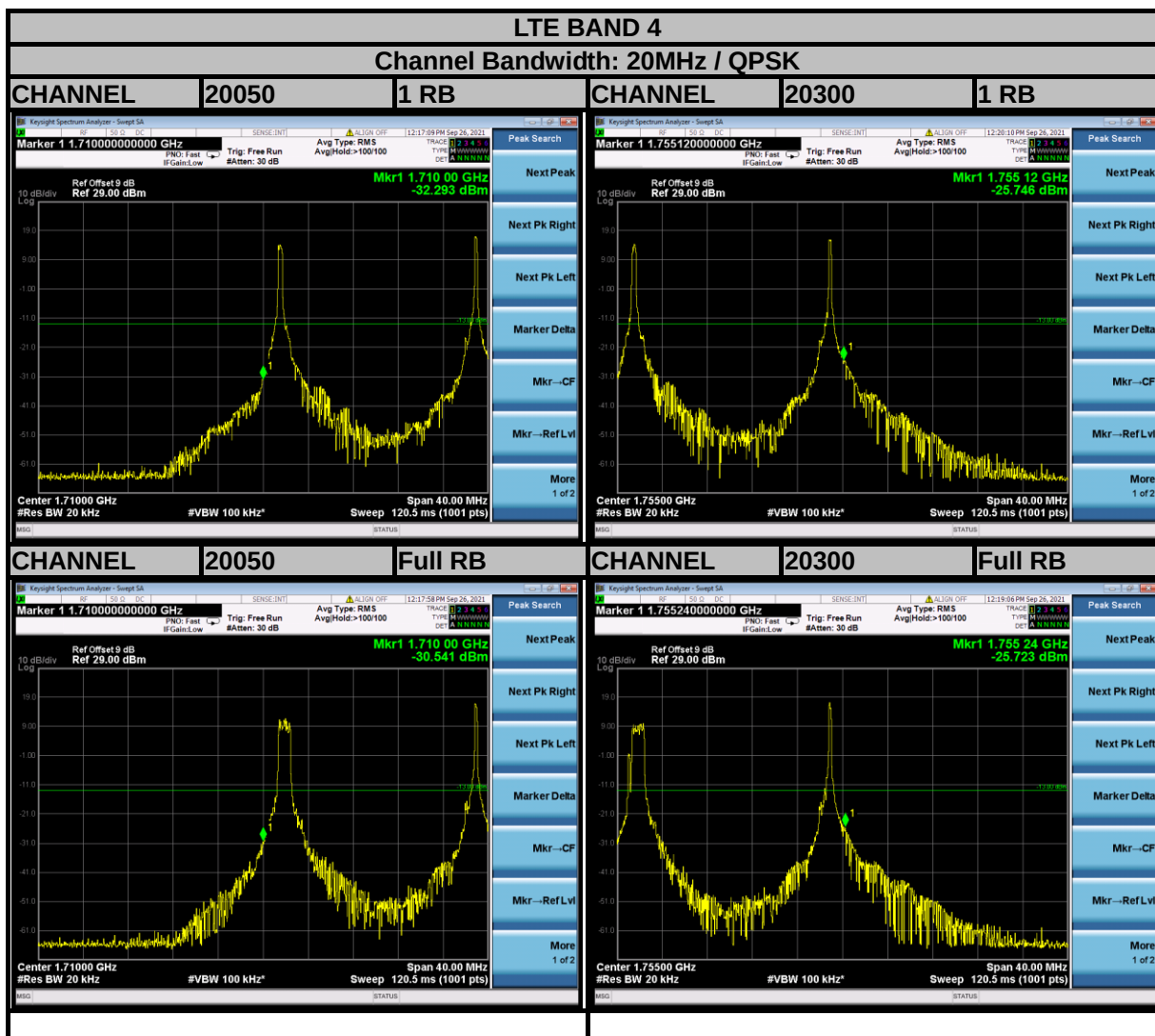
BUREAU
VERITAS

Test Report No.: W7L-P21090017RF02







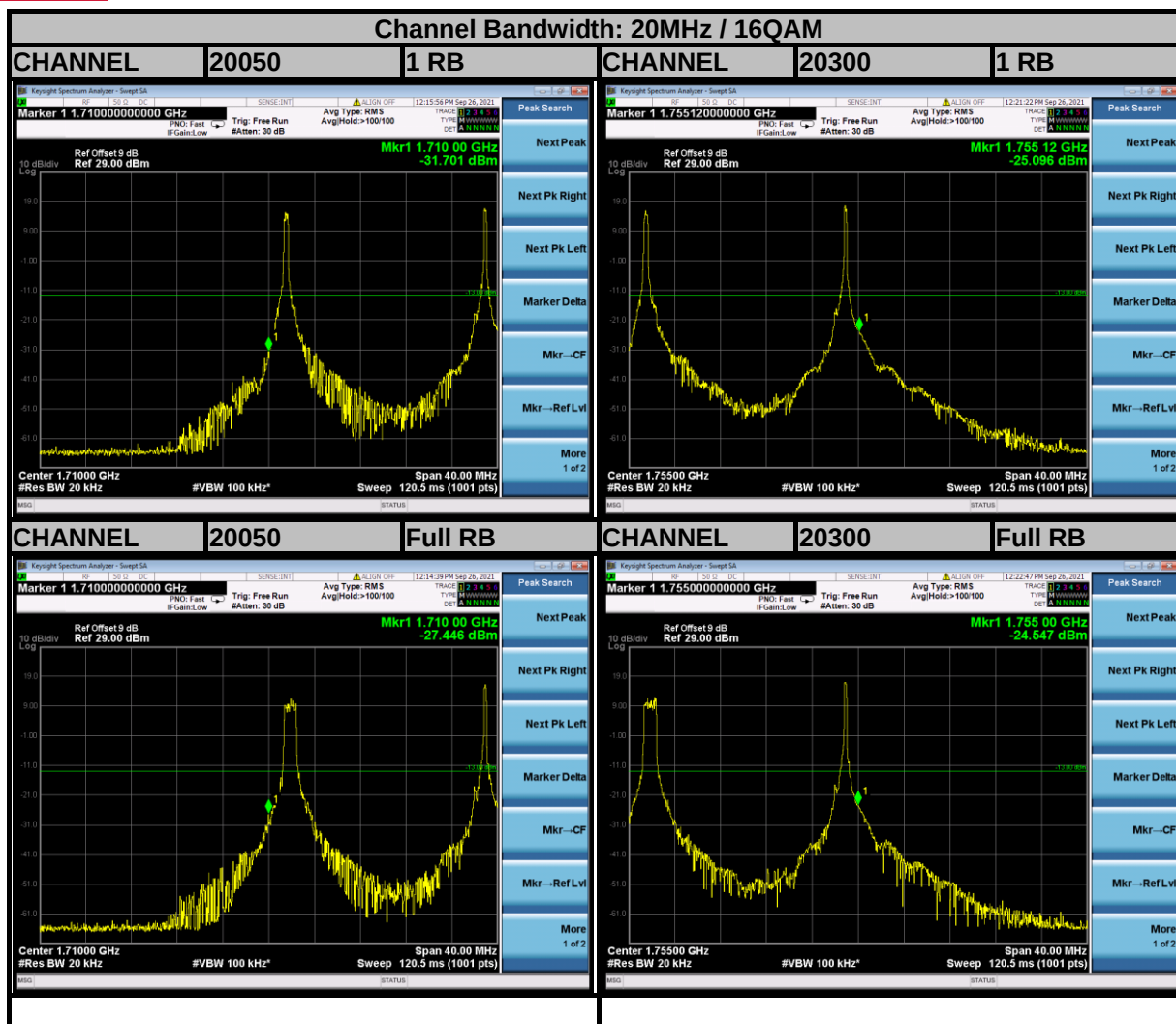


LTE BAND 4



BUREAU
VERITAS

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LTE BAND 12:

Note: for RBW at least 30 kHz, use 20KHz Test, the conversion equation is:

$10 \cdot \log(30\text{K}/20\text{K}) = 1.76$, Worst case emission is -16.54dBm , $-16.54 + 1.76 = -14.78\text{dBm}$, All the results pass

