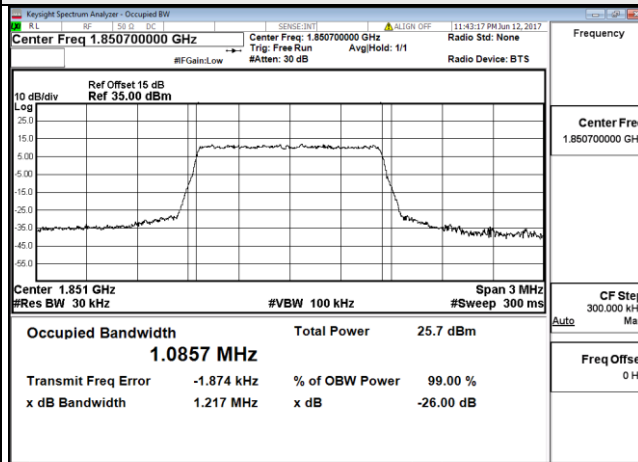


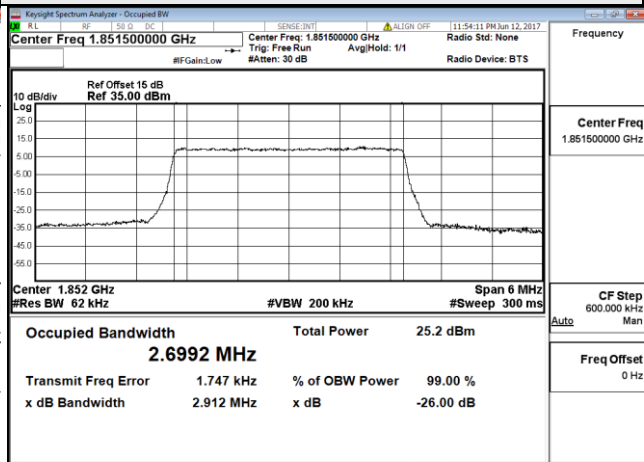
LTE Band 25							
Channel Bandwidth 1.4MHz				Channel Bandwidth 3MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
26047	1850.7	1.09	1.09	26055	1851.5	2.70	2.70
26365	1882.5	1.09	1.09	26365	1882.5	2.70	2.70
26683	1914.3	1.09	1.09	26675	1913.5	2.70	2.70
Channel Bandwidth 5MHz				Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
26065	1852.5	4.49	4.49	26090	1855	8.97	8.97
26365	1882.5	4.49	4.49	26365	1882.5	8.96	8.97
26665	1912.5	4.49	4.49	26640	1910	8.96	8.95
Channel Bandwidth 15MHz				Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
26615	1857.5	13.47	13.45	26140	1860	17.95	17.96
26365	1882.5	13.46	13.45	26365	1882.5	17.95	17.96
26615	1907.5	13.44	13.43	26590	1905	17.91	17.92

Spectrum Plot of Worst Value

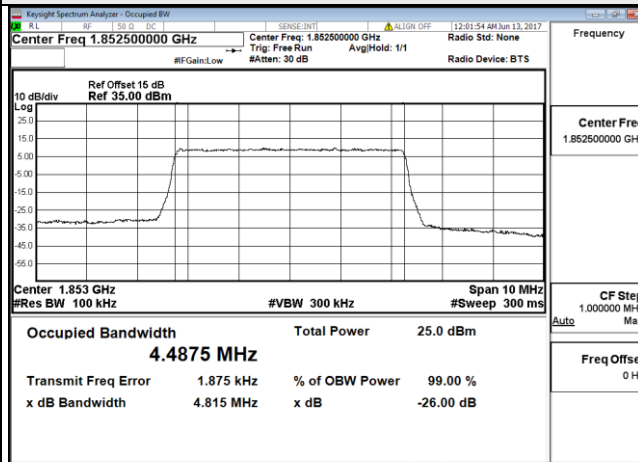
1.4MHz / QPSK



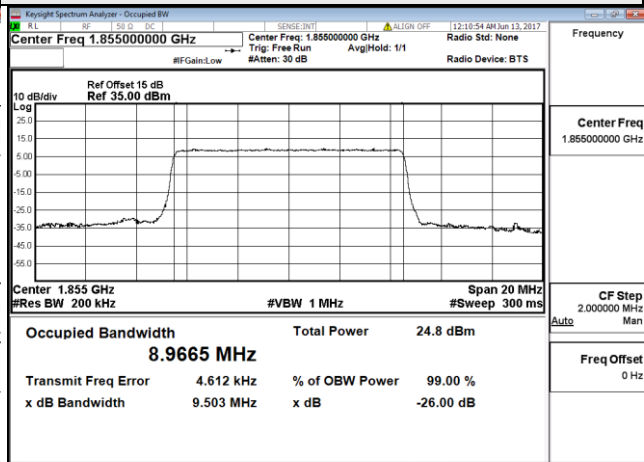
3MHz / QPSK



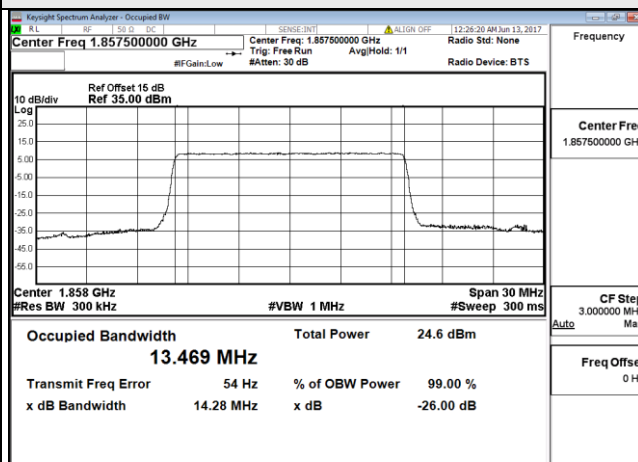
5MHz / QPSK



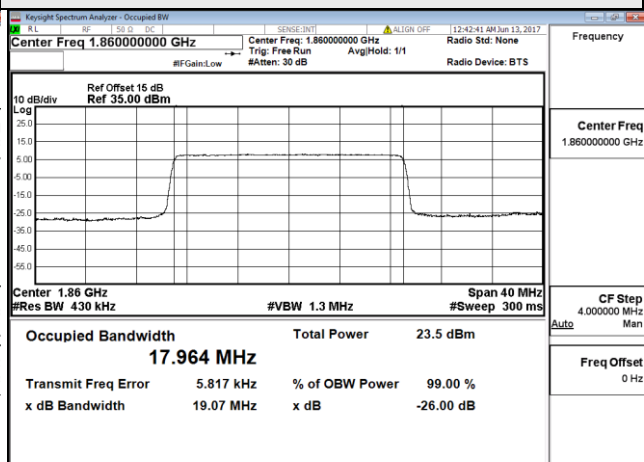
10MHz / QPSK



15MHz / QPSK



20MHz / 16QAM

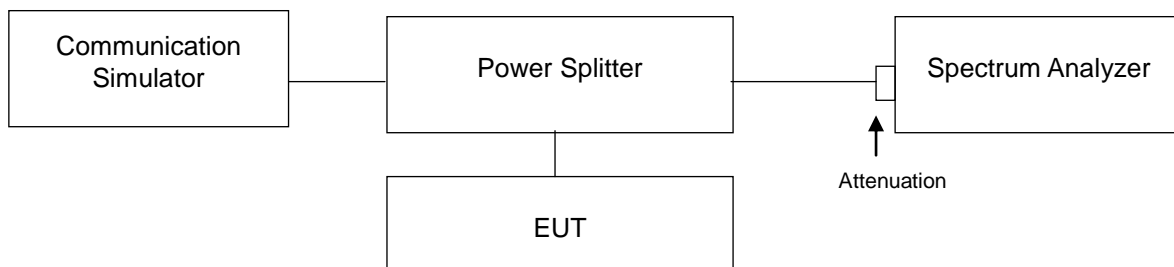


4.4 Band Edge Measurement

4.4.1 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.

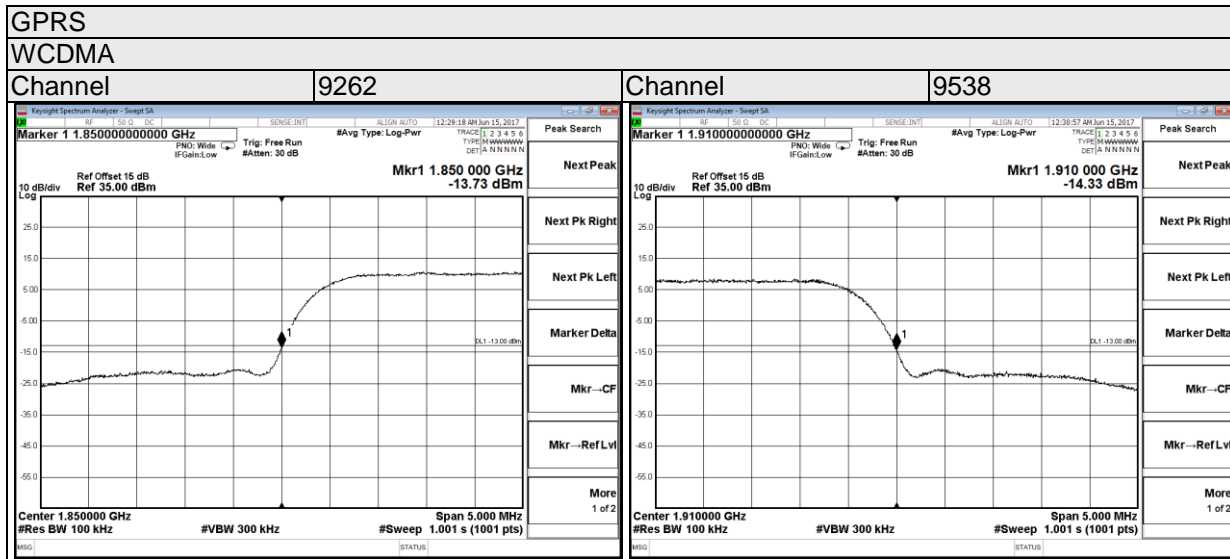
4.4.2 Test Setup



4.4.3 Test Procedures

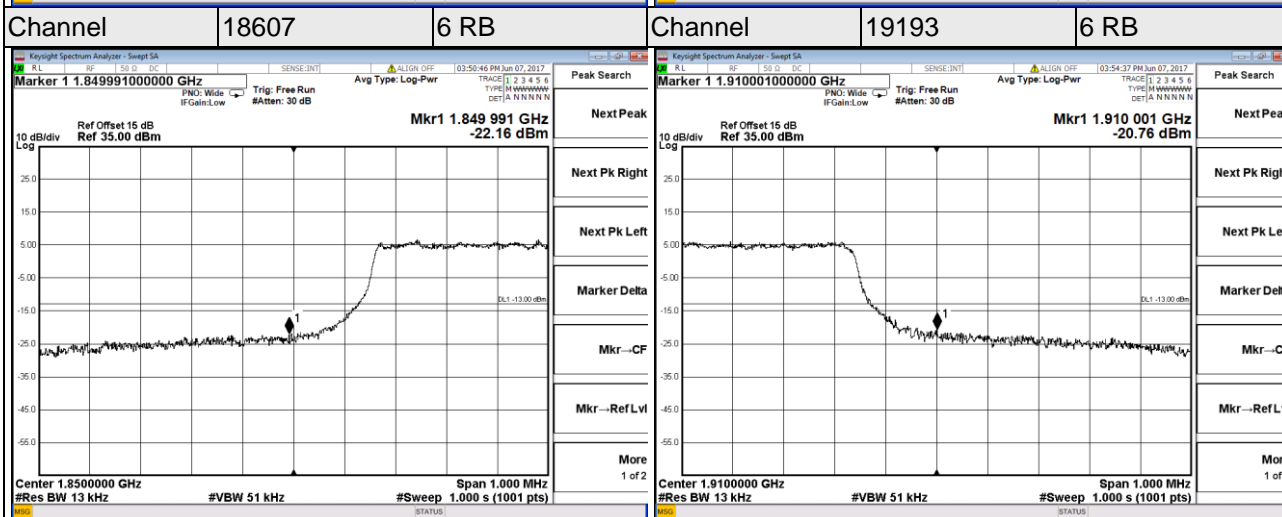
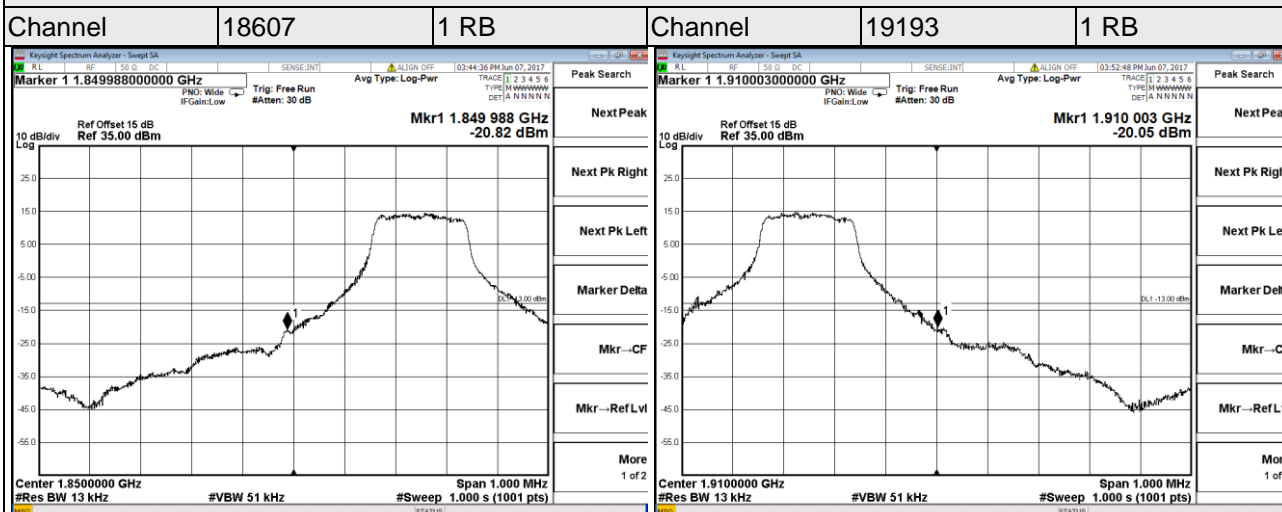
- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and s RB of the spectrum is $>1\%$ EMISSION BANDWIDTH and VB of the spectrum is $\geq 3*RB$.
- c. Record the max trace plot into the test report.

4.4.4 Test Results (Subcontract Item)



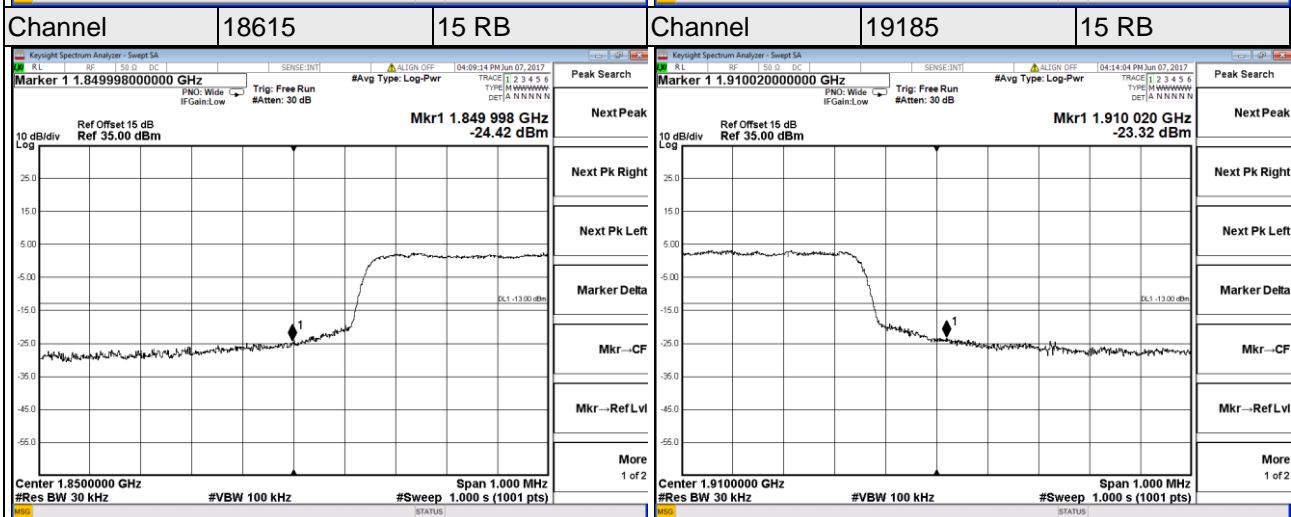
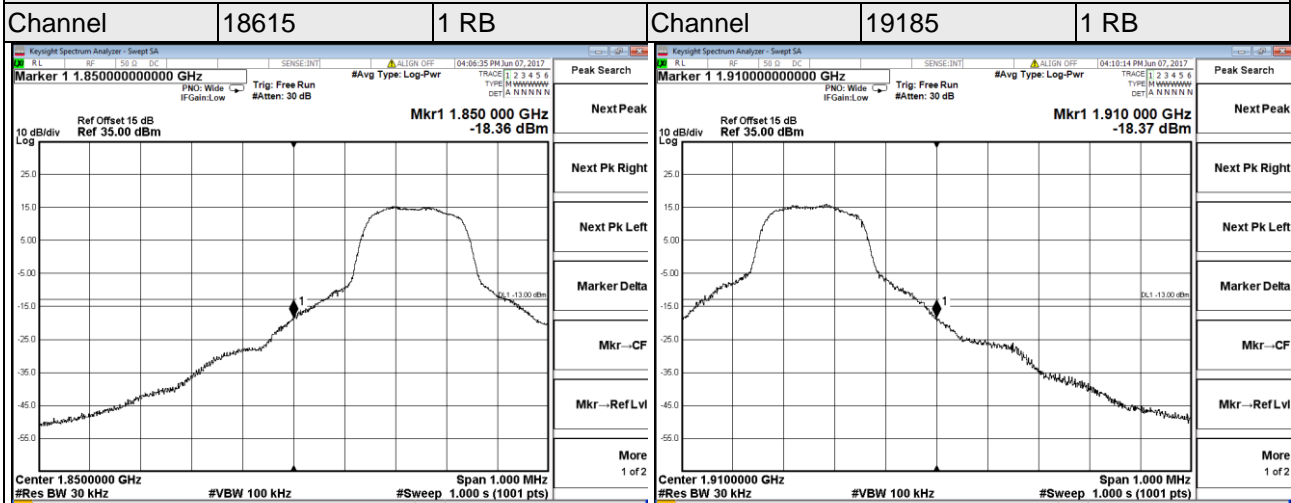
LTE Band 2

Channel Bandwidth 1.4MHz



LTE Band 2

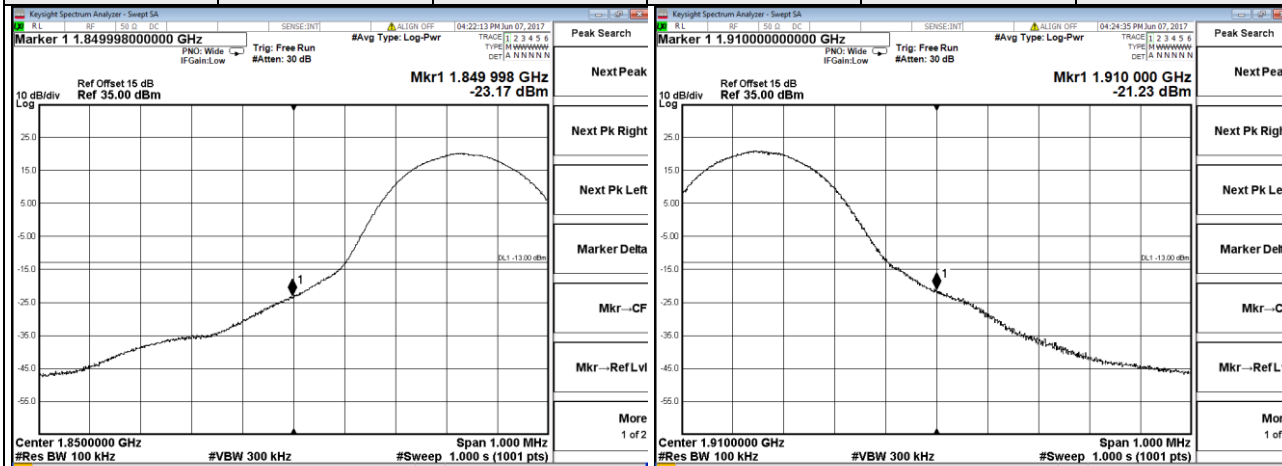
Channel Bandwidth 3MHz



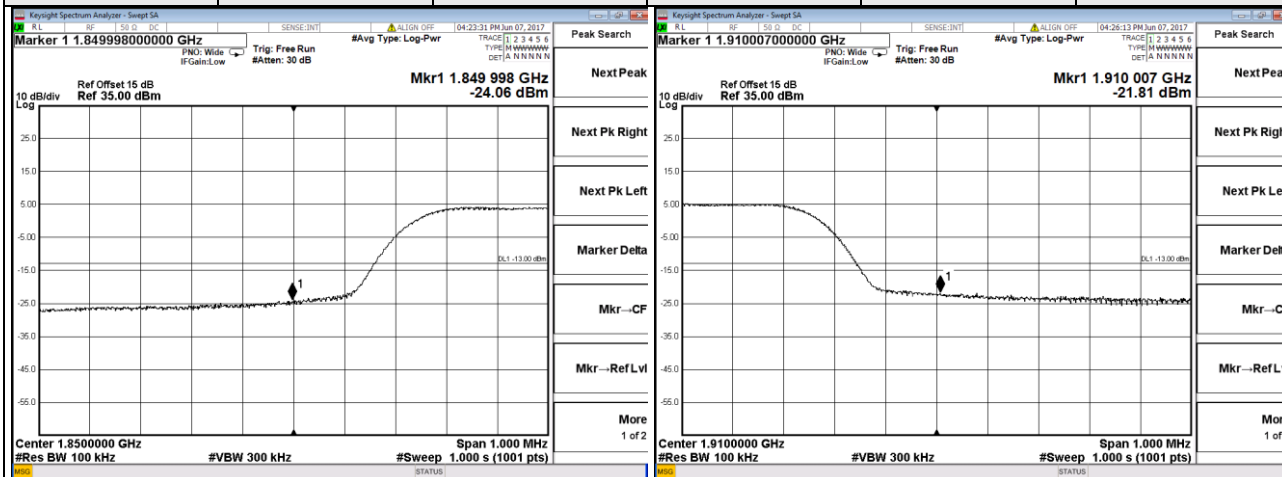
LTE Band 2

Channel Bandwidth 5MHz

Channel	18625	1 RB	Channel	19175	1 RB
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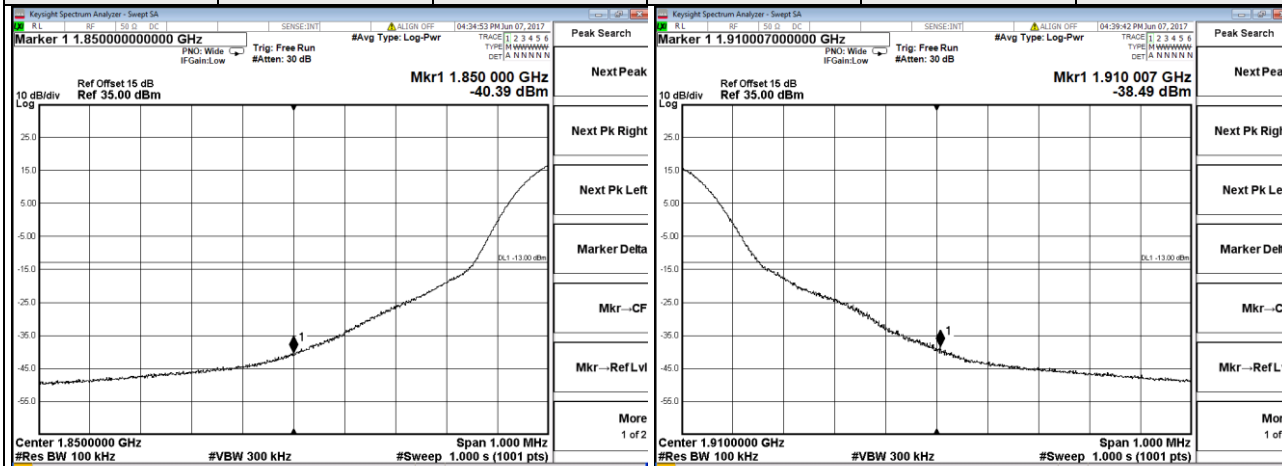
Channel	18625	25 RB	Channel	19175	25 RB
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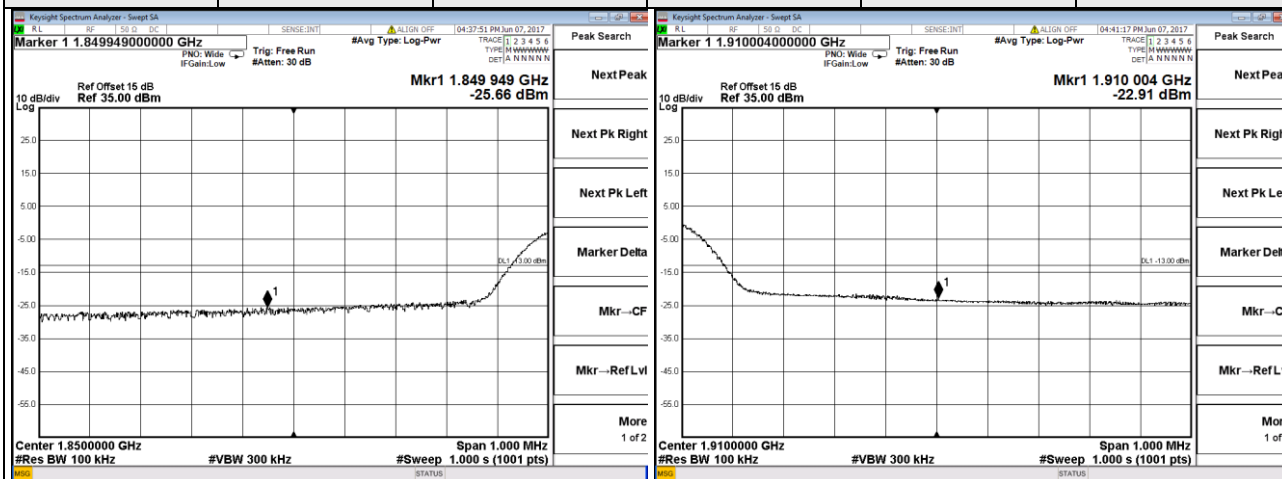
LTE Band 2

Channel Bandwidth 10MHz

Channel	18650	1 RB	Channel	19150	1 RB
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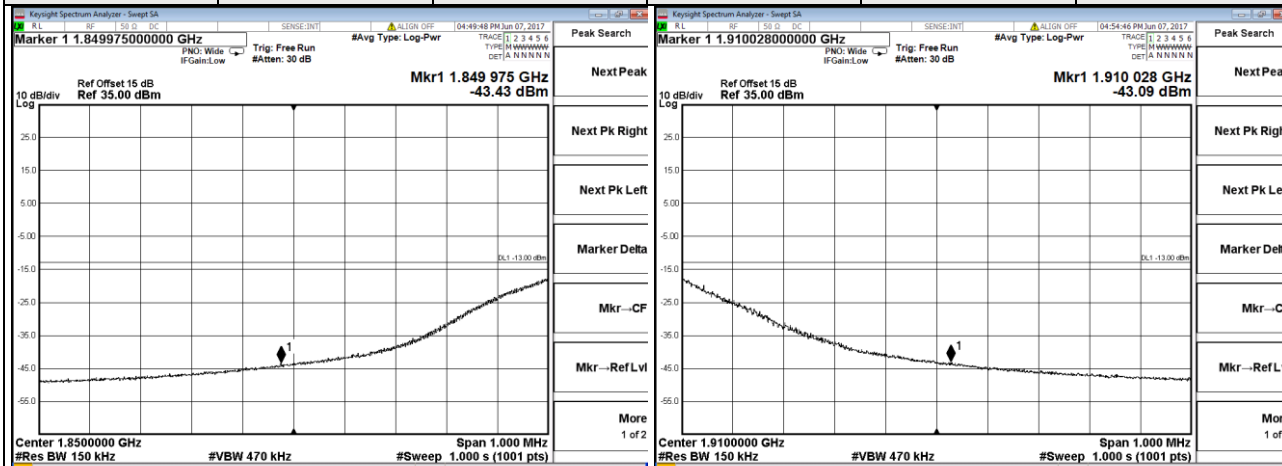
Channel	18650	50 RB	Channel	19150	50 RB
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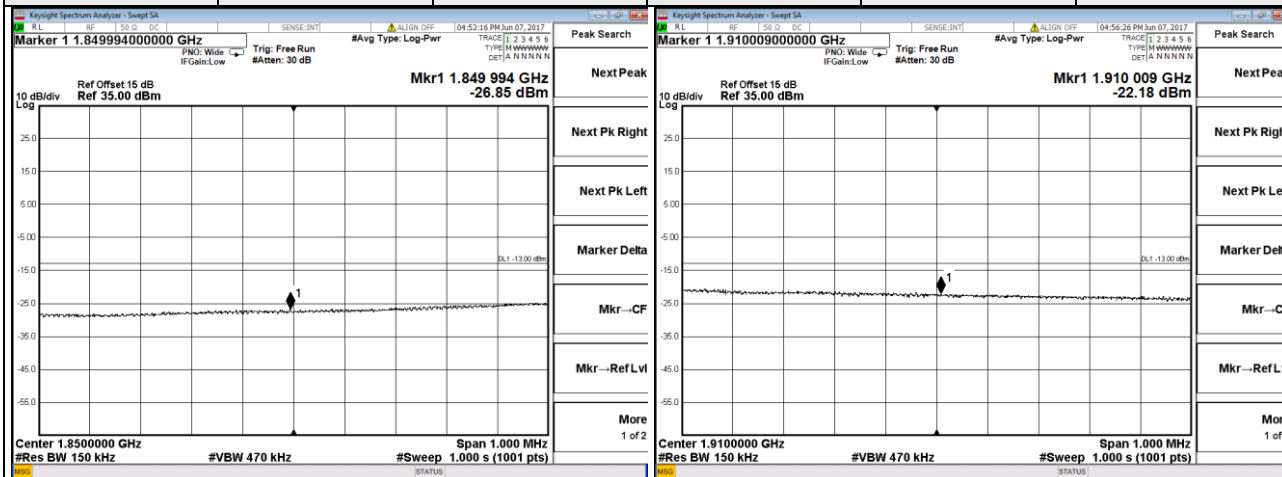
LTE Band 2

Channel Bandwidth 15MHz

Channel	18675	1 RB	Channel	19125	1 RB
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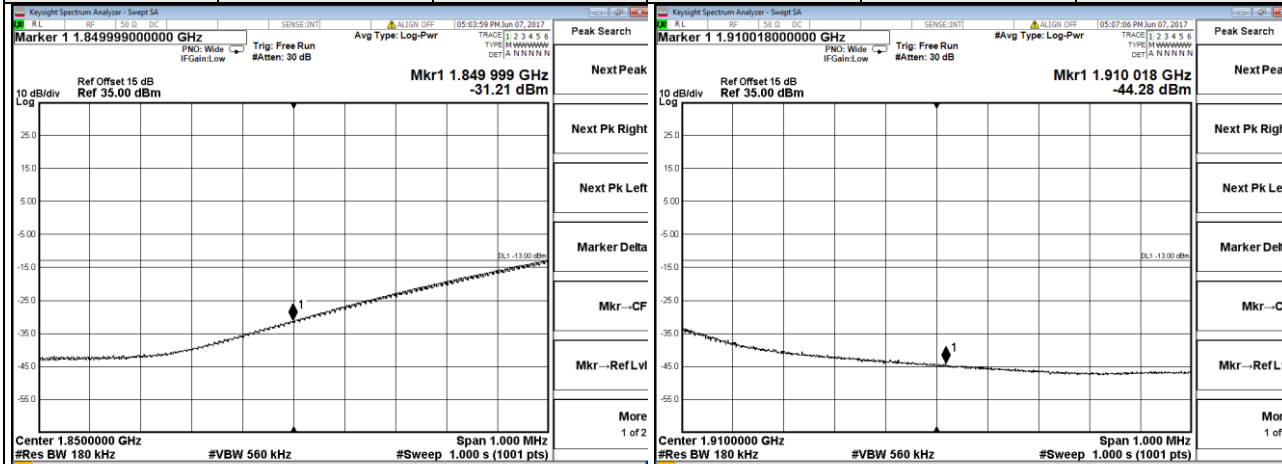
Channel	18675	75 RB	Channel	19125	75 RB
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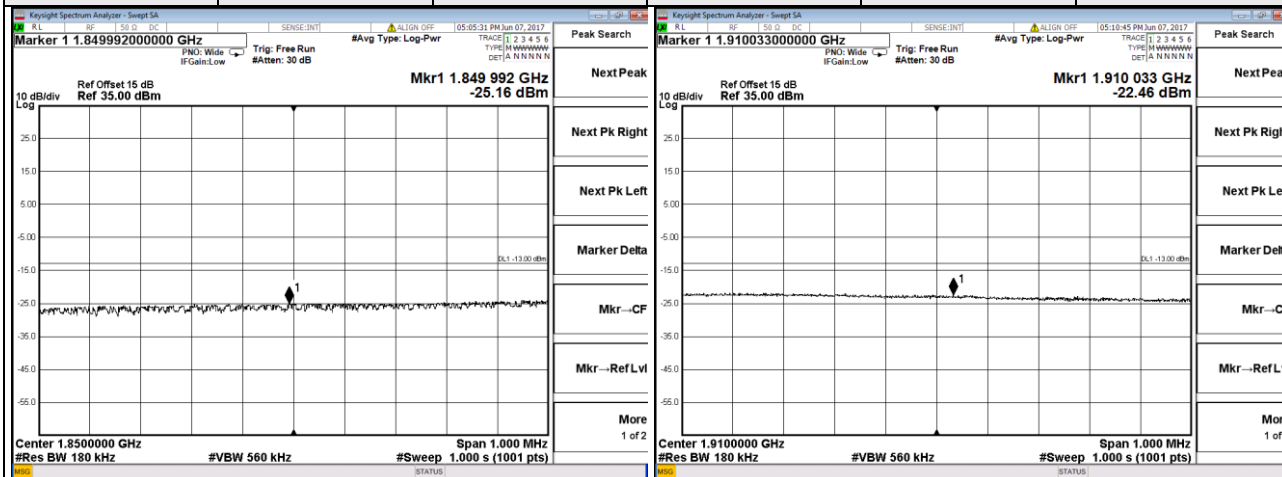
LTE Band 2

Channel Bandwidth 20MHz

Channel	18700	1 RB	Channel	19100	1 RB
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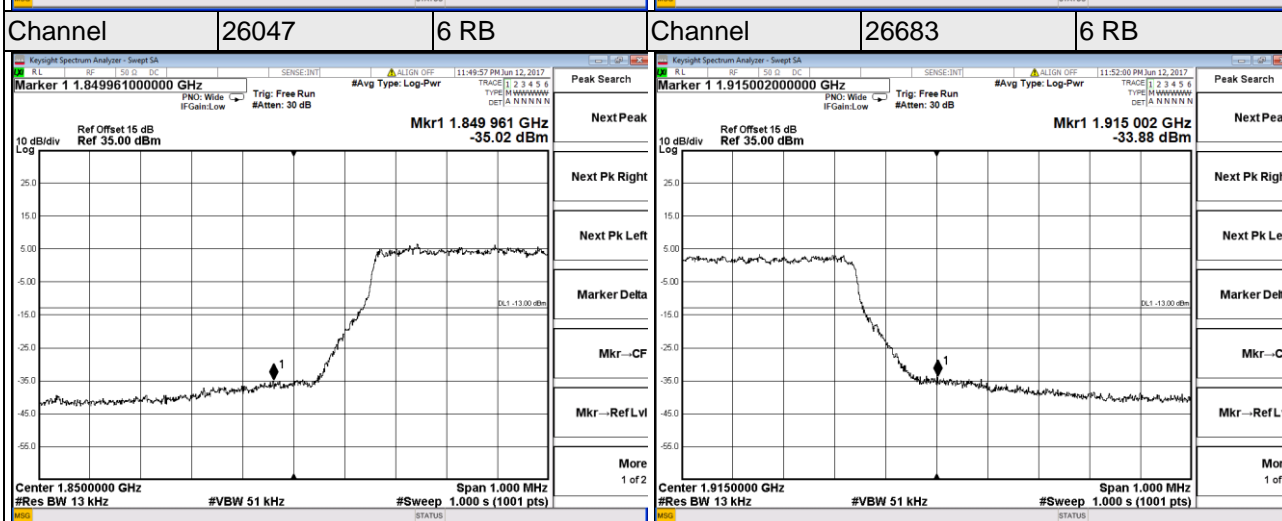
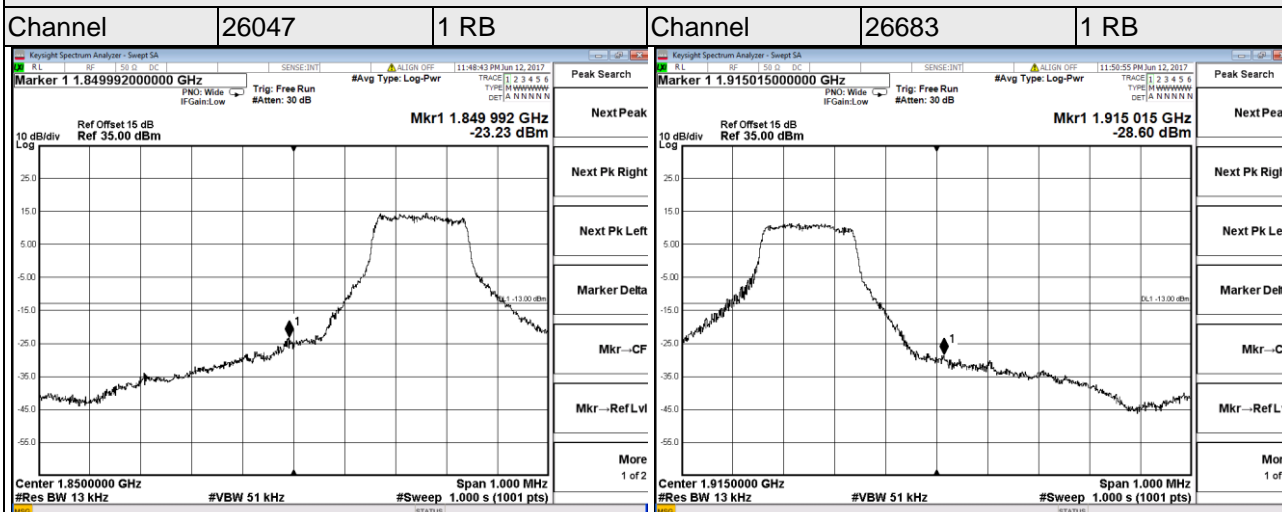


Channel	18700	100 RB	Channel	19100	100 RB
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LTE Band 25

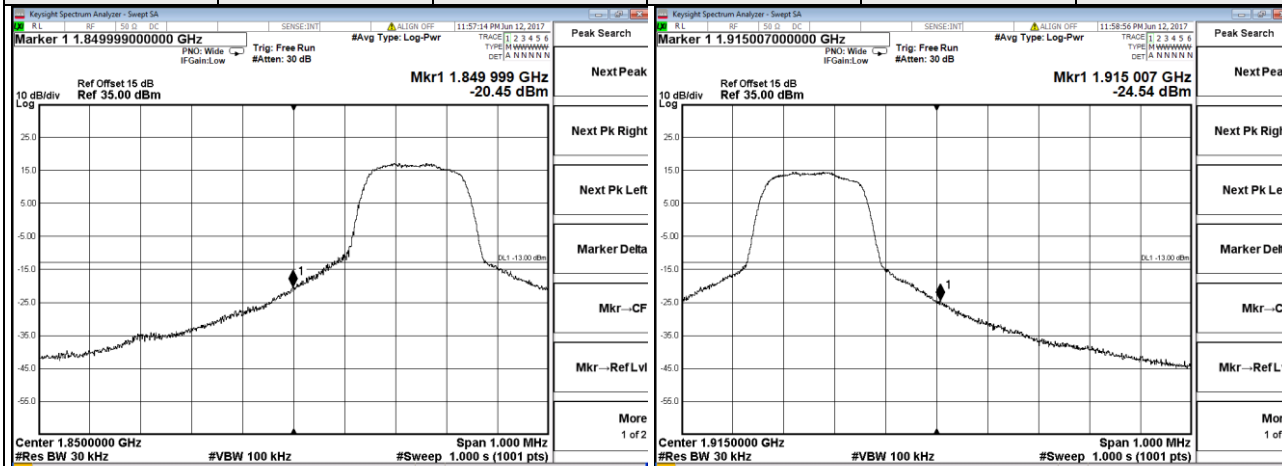
Channel Bandwidth 1.4MHz



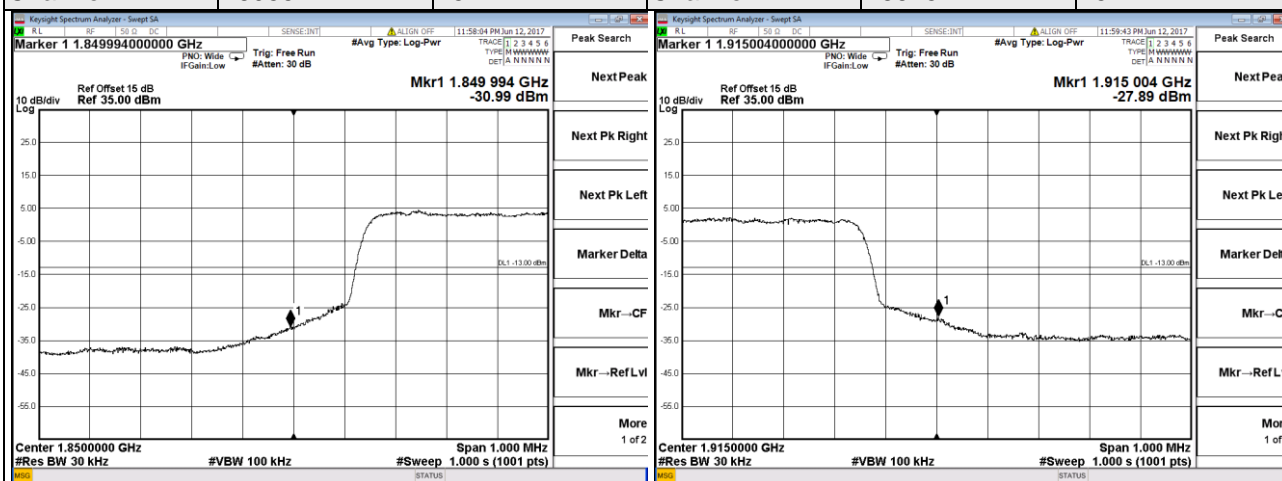
LTE Band 25

Channel Bandwidth 3MHz

Channel	26055	1 RB	Channel	26683	1 RB
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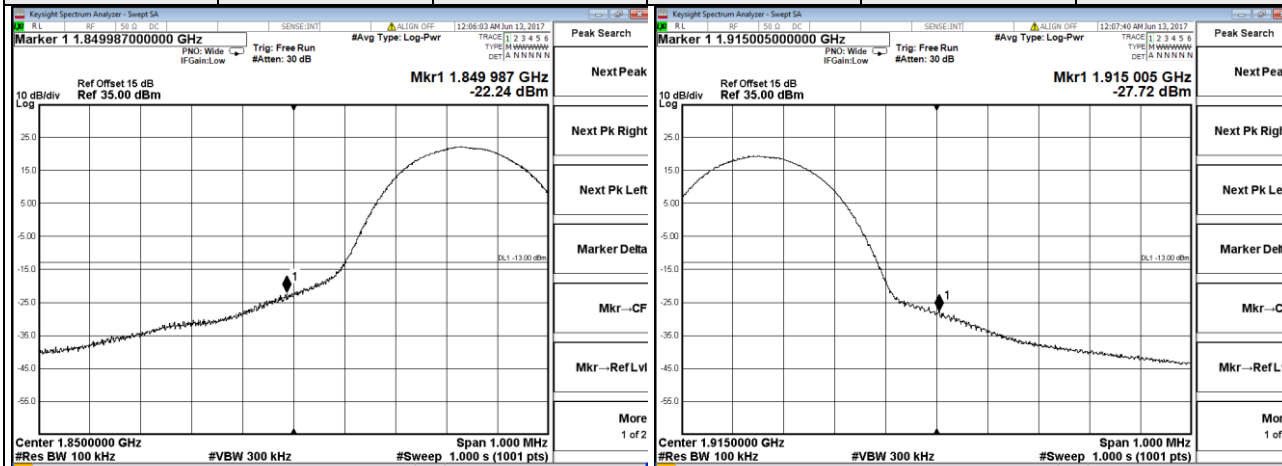
Channel	26055	15 RB	Channel	26675	15 RB
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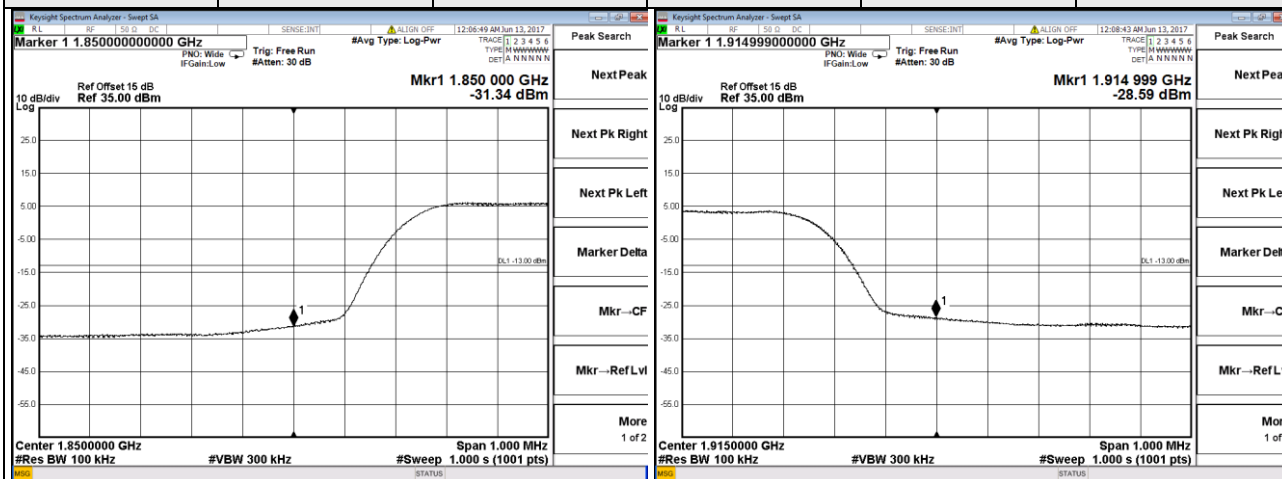
LTE Band 25

Channel Bandwidth 5MHz

Channel	26065	1 RB	Channel	26665	1 RB
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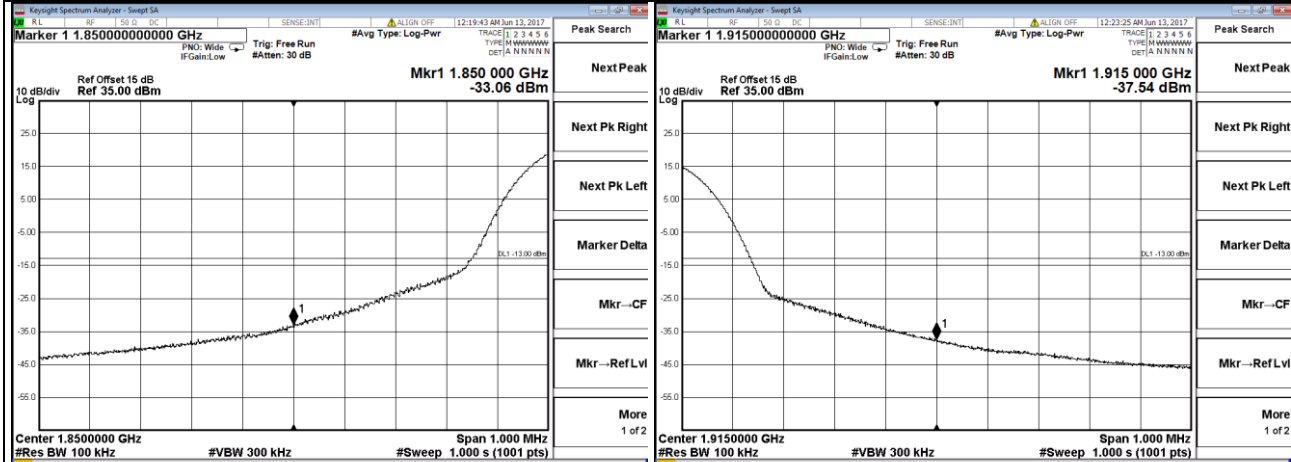
Channel	26065	25 RB	Channel	26665	25 RB
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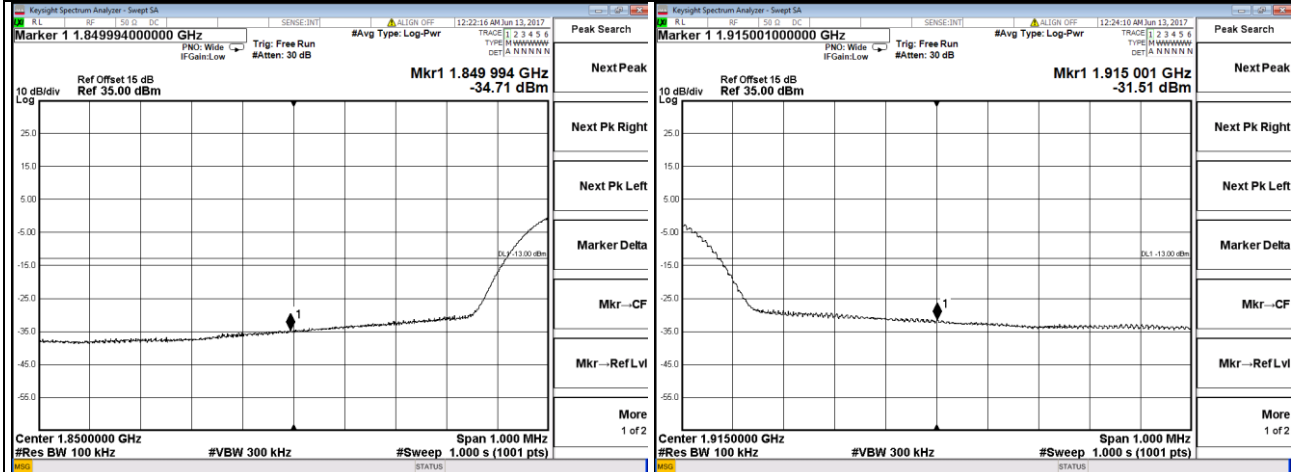
LTE Band 25

Channel Bandwidth 10MHz

Channel	26090	1 RB	Channel	26640	1 RB
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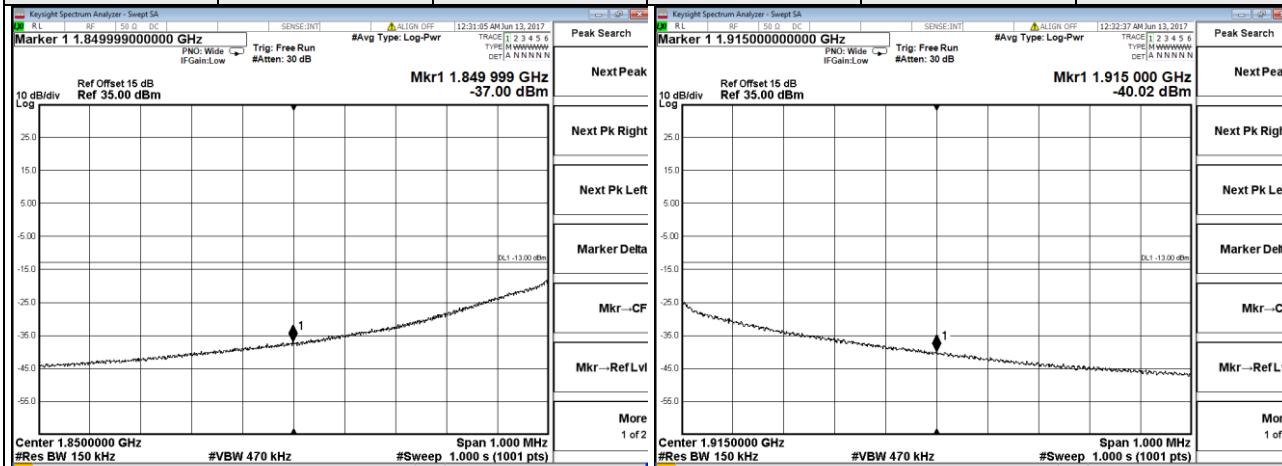
Channel	26090	50 RB	Channel	26640	50 RB
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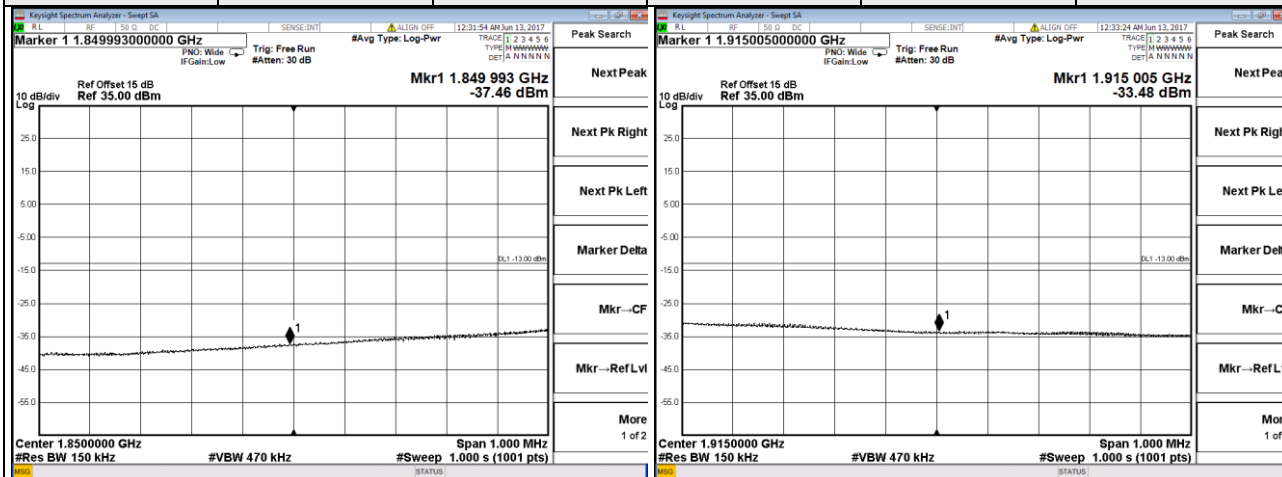
LTE Band 25

Channel Bandwidth 15MHz

Channel	26115	1 RB	Channel	26615	1 RB
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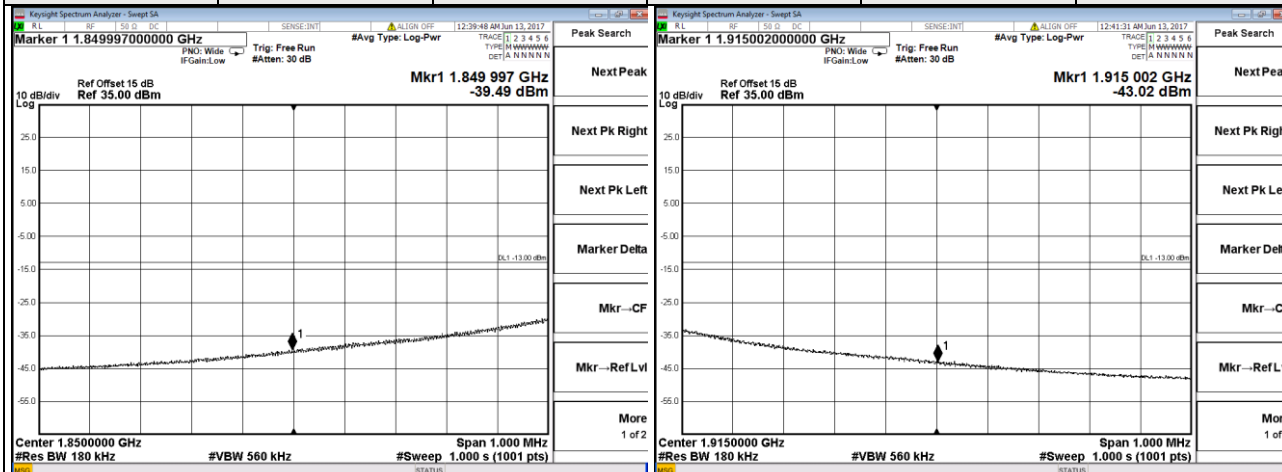
Channel	26115	75 RB	Channel	26615	75 RB
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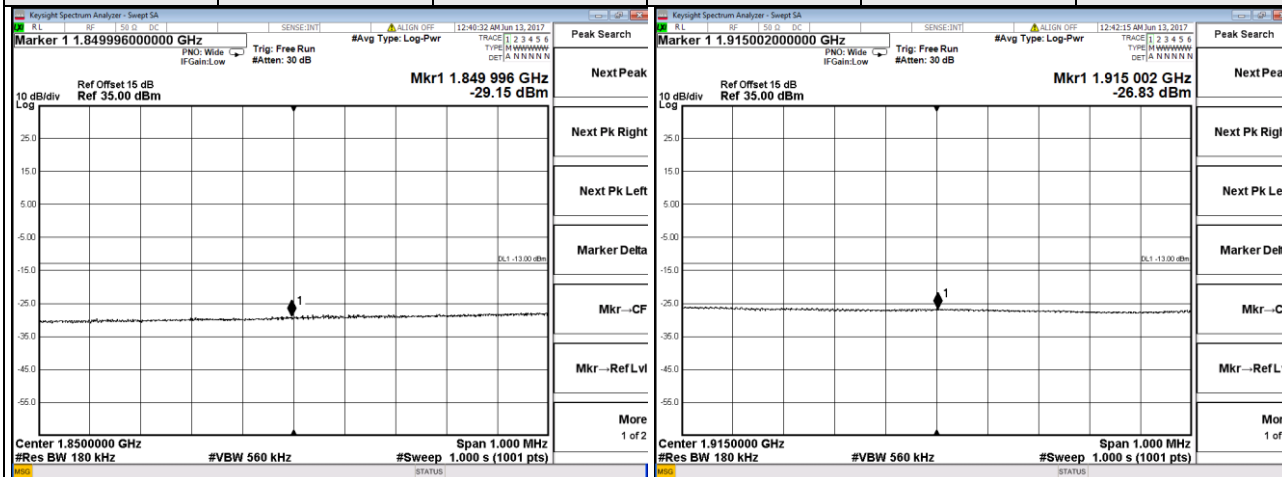
LTE Band 25

Channel Bandwidth 20MHz

Channel	26140	1 RB	Channel	26590	1 RB
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Channel	26140	100 RB	Channel	26590	100 RB
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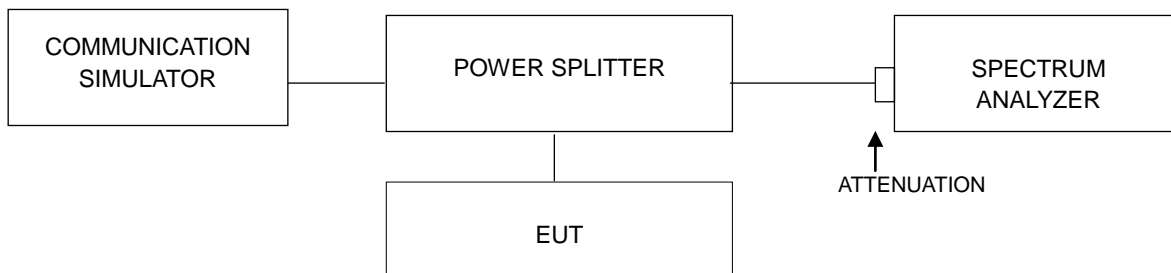


4.5 Peak to Average Ratio

4.5.1 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

4.5.2 Test Setup

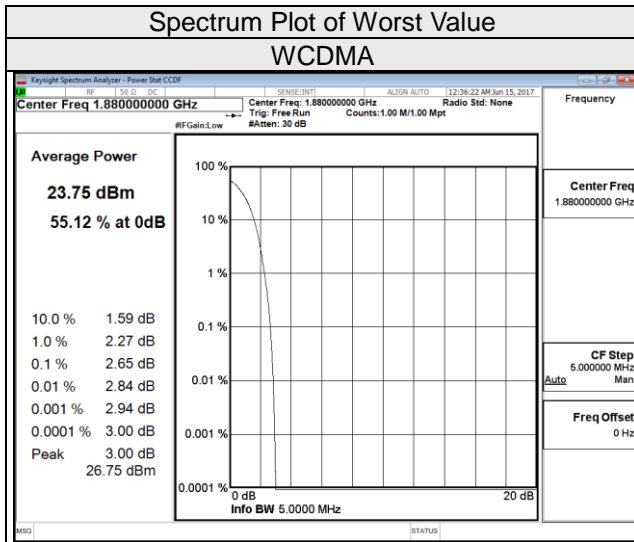


4.5.3 Test Procedures

1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

4.5.4 Test Results (Subcontract Item)

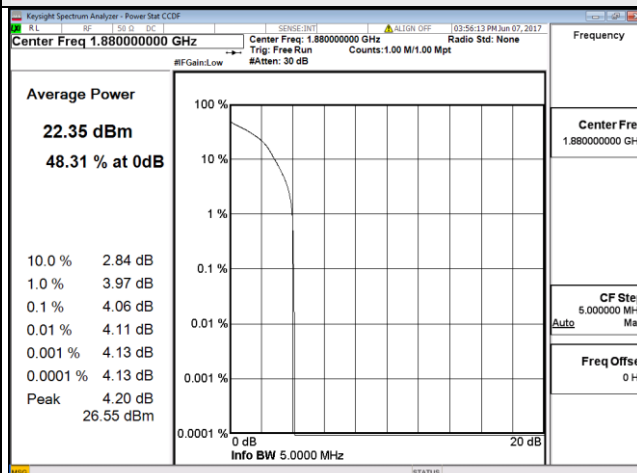
Channel	Freq. (MHz)	Peak to Average Ratio (dB)
		WCDMA
9262	1852.4	2.28
9400	1880	2.65
9538	1907.6	2.16



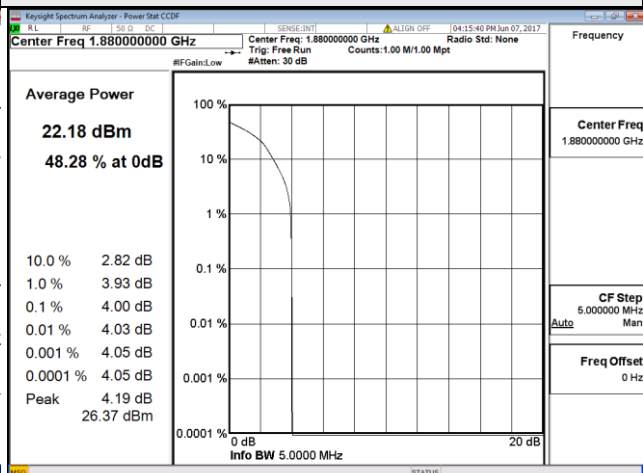
LTE Band 2							
Channel Bandwidth 1.4MHz				Channel Bandwidth 3MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	2.57	3.32	18615	1851.5	2.63	3.29
18900	1880	3.25	4.06	18900	1880	3.33	4.00
19193	1909.3	2.88	3.33	19185	1907.5	2.63	3.34
Channel Bandwidth 5MHz				Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	2.74	3.40	18650	1855	2.82	3.48
18900	1880	3.42	4.10	18900	1880	3.32	4.03
19175	1907.5	3.10	3.78	19150	1905	2.81	3.46
Channel Bandwidth 15MHz				Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	2.59	3.32	18700	1860	2.69	3.30
18900	1880	2.82	3.53	18900	1880	2.46	3.12
19125	1902.5	1.94	2.71	19100	1900	2.34	3.10

Spectrum Plot of Worst Value

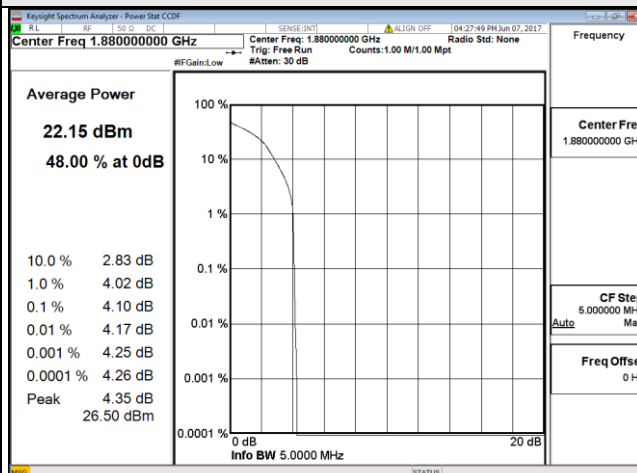
1.4MHz / 16QAM



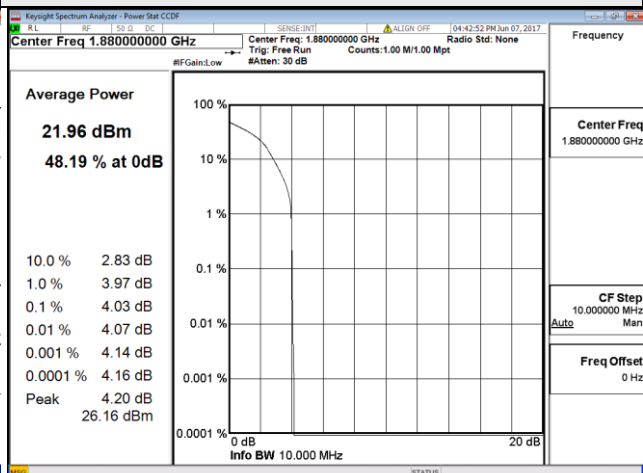
3MHz / 16QAM



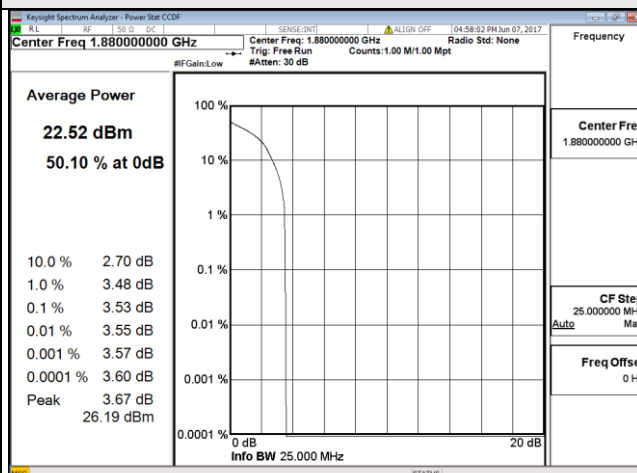
5MHz / 16QAM



10MHz / 16QAM



15MHz / 16QAM



20MHz / 16QAM

