3.4 Band Edge

3.4.1 Limit of Band Edge

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 equal to -13dBm.

3.4.2 Test Procedures

For WCDMA

1. Lowest and highest operating channels are tested for this item.
2. The center frequency of spectrum analyzer will be set to 824 and 849 MHz.
3. Set RBW = 100 kHz, VBW = 300 kHz, span = 5 MHz, detector = RMS, sweep time = auto.
4. Record the max trace value and capture the test plot.

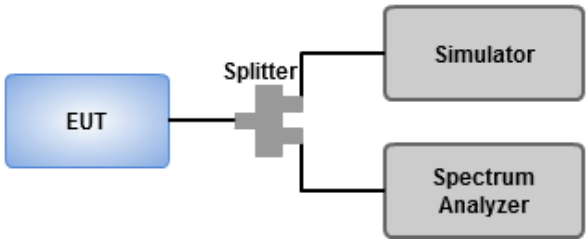
For LTE

1 Lowest and highest operating channels are tested for this item.

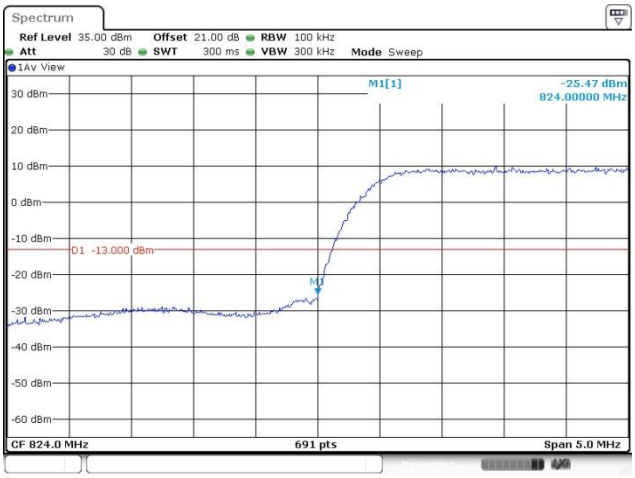
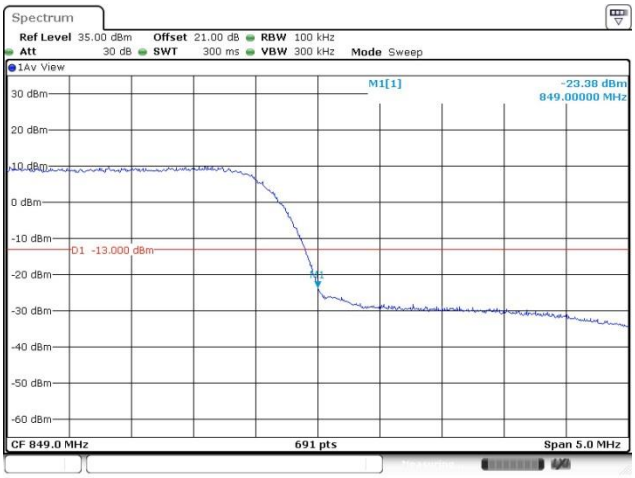
2 Set RBW = 15 / 39 / 56 / 110 kHz, VBW = 62 / 120 / 180 / 330 kHz for LTE channel bandwidth 1.4 / 3 / 5 / 10 MHz, detector = RMS, sweep time = auto to measure trace.

3 Set RBW = 20 / 50 / 100 / 200 kHz, VBW = 100 / 200 / 300 / 1000 kHz for LTE channel bandwidth 1.4 / 3 / 5 / 10 MHz, detector = RMS and use channel power measurement function of spectrum analyze to integrate power over 1MHz.

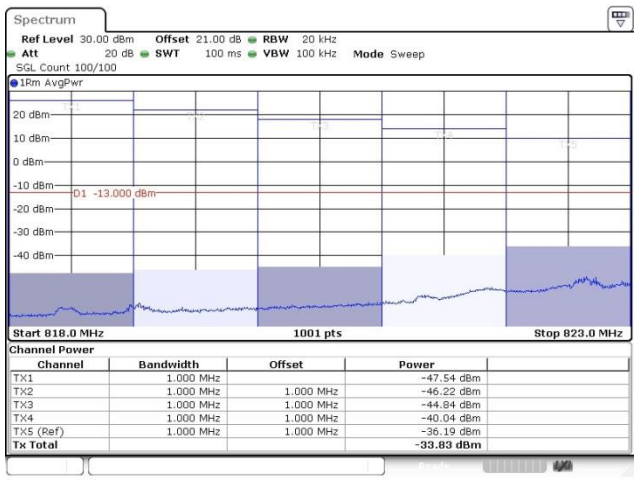
3.4.3 Test Setup



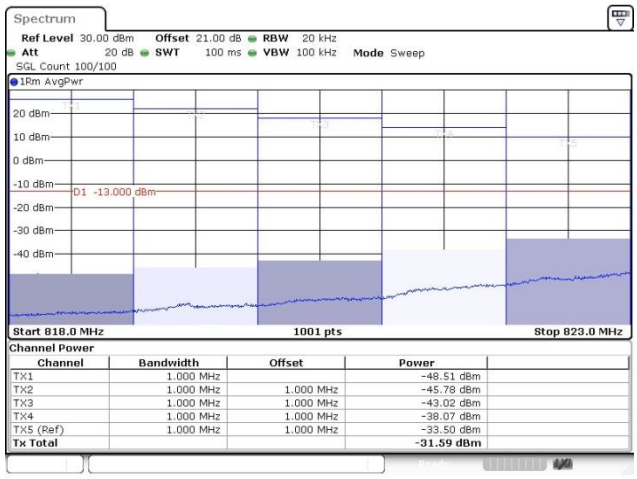
3.4.4 Test Result of Band Edge

Mode	WCDMA BAND 5		
Channel	4132	Channel	4233
			

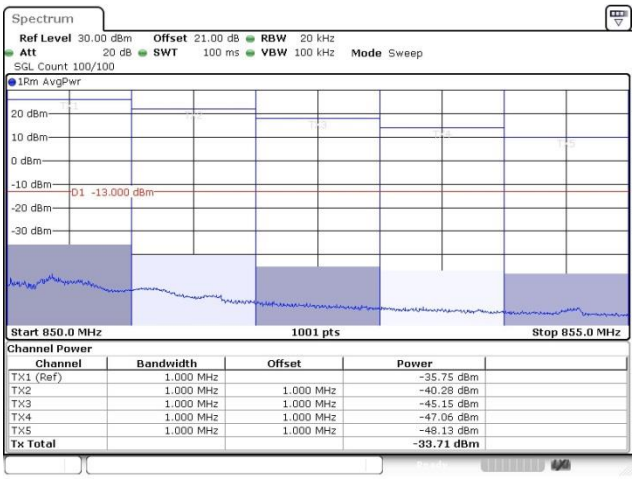
Mode	LTE Band 5, CB: 1.4MHz, QPSK				
Channel	20407	1 RB lower / Offset 0	**Channel**	20407	1 RB lower / Offset 0



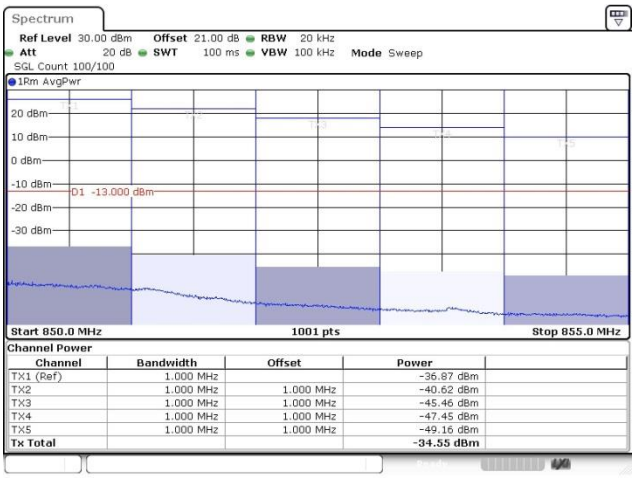
Channel	20407	100% RB / Offset 0	**Channel**	20407	100% RB / Offset 0

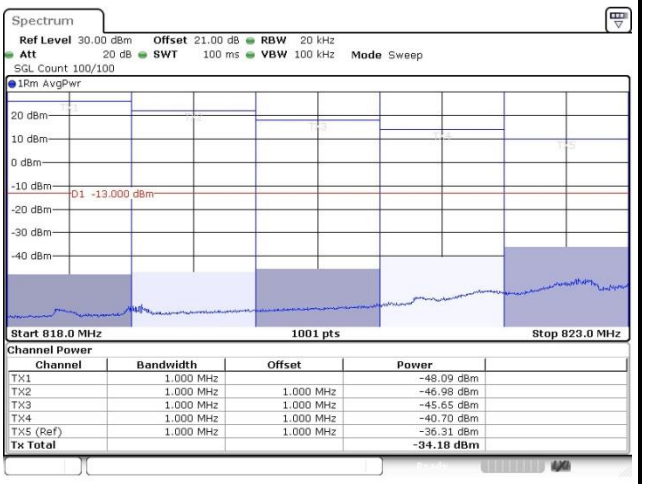
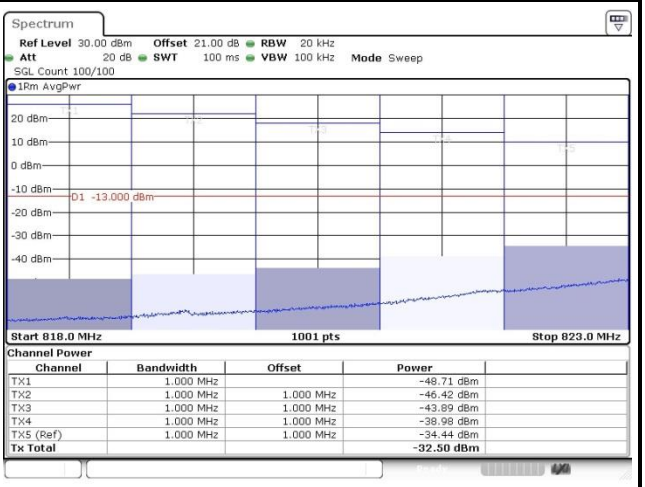


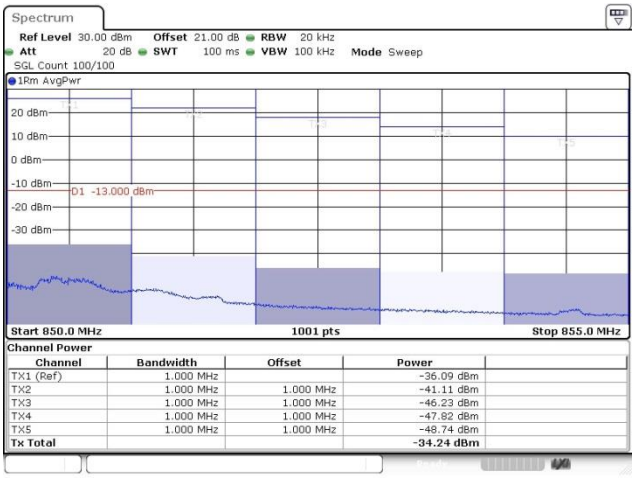
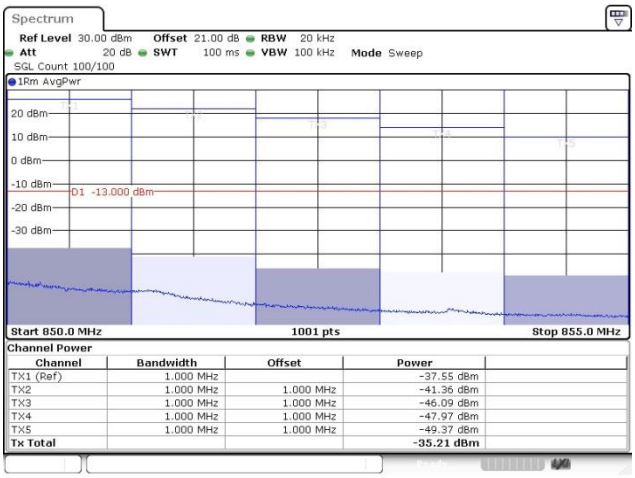
Mode	LTE Band 5, CB: 1.4MHz, QPSK				
Channel	20643	1 RB upper / Offset 0	**Channel**	20643	1 RB upper / Offset 0

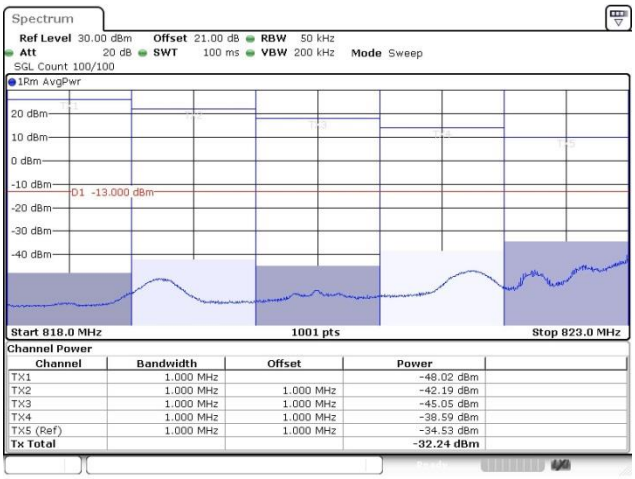
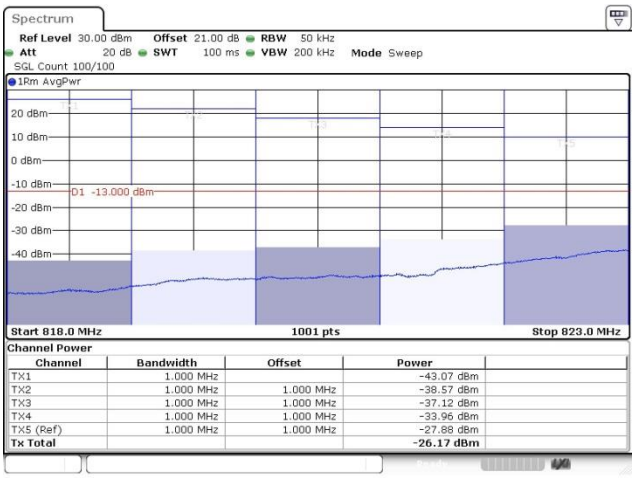


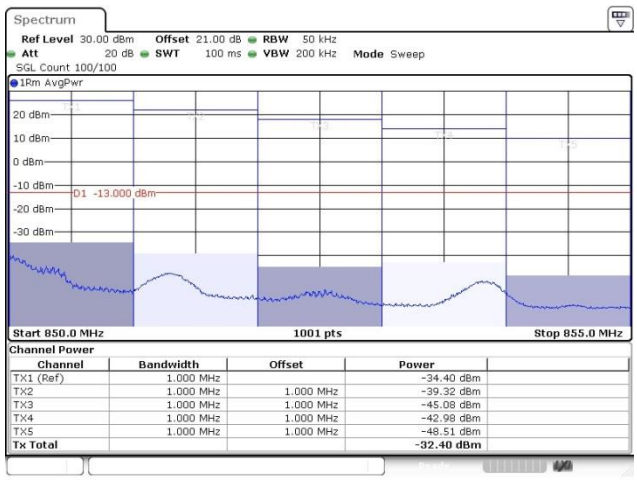
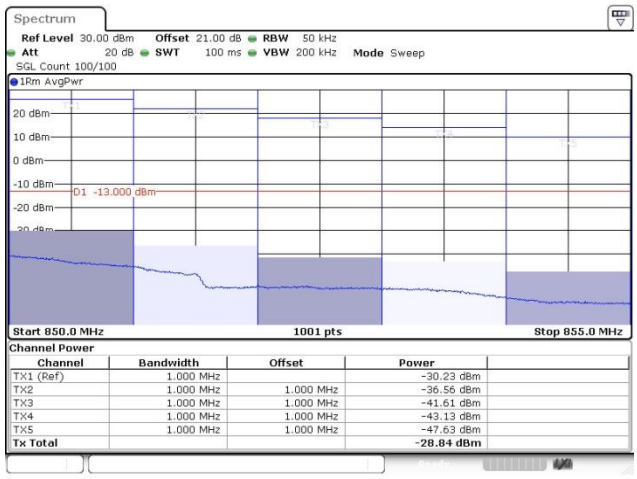
Channel	20643	100% RB / Offset 0	**Channel**	20643	100% RB / Offset 0

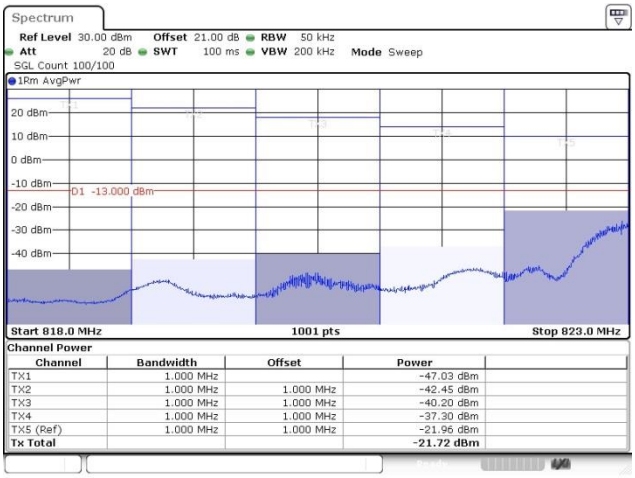
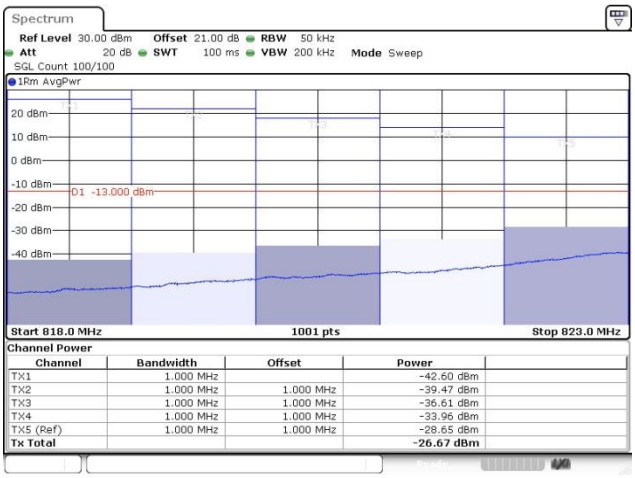


Mode	LTE Band 5, CB: 1.4MHz, 16QAM				
Channel	20407	1 RB lower / Offset 0	**Channel**	20407	1 RB lower / Offset 0
					
Channel	20407	100% RB / Offset 0	**Channel**	20407	100% RB / Offset 0
					

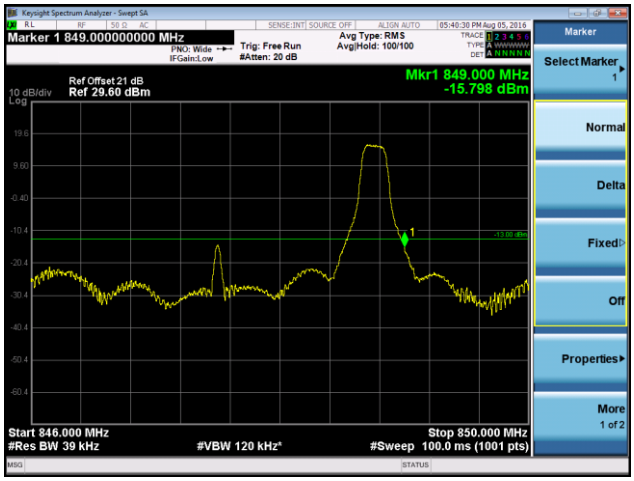
Mode	LTE Band 5, CB: 1.4MHz, 16QAM				
Channel	20643	1 RB upper / Offset 0	**Channel**	20643	1 RB upper / Offset 0
					
Channel	20643	100% RB / Offset 0	**Channel**	20643	100% RB / Offset 0
					

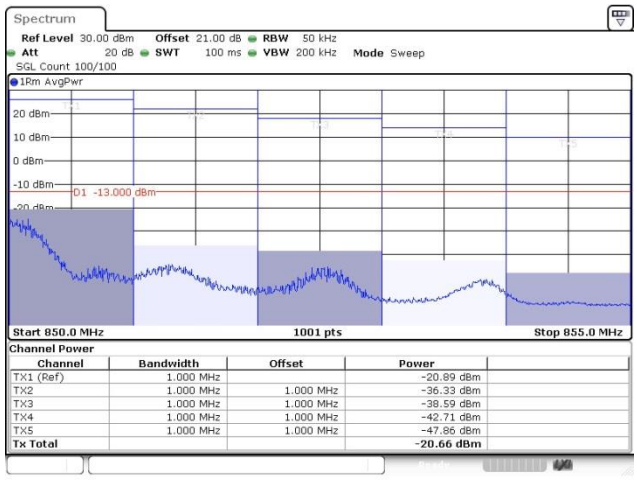
Mode	LTE Band 5, CB: 3MHz, QPSK				
Channel	20415	1 RB lower / Offset 0	**Channel**	20415	1 RB lower / Offset 0
					
Channel	20415	100% RB / Offset 0	**Channel**	20415	100% RB / Offset 0
					

Mode	LTE Band 5, CB: 3MHz, QPSK				
Channel	20635	1 RB upper / Offset 0	**Channel**	20635	1 RB upper / Offset 0
					
Channel	20635	100% RB / Offset 0	**Channel**	20635	100% RB / Offset 0
					

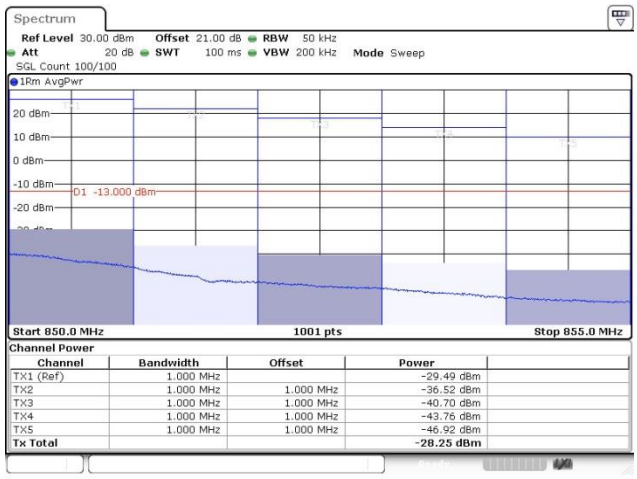
Mode	LTE Band 5, CB: 3MHz, 16QAM				
Channel	20415	1 RB lower / Offset 0	**Channel**	20415	1 RB lower / Offset 0
					
Channel	20415	100% RB / Offset 0	**Channel**	20415	100% RB / Offset 0
					

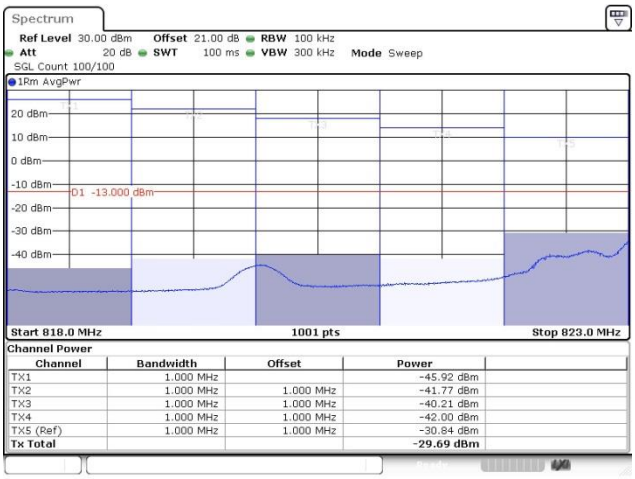
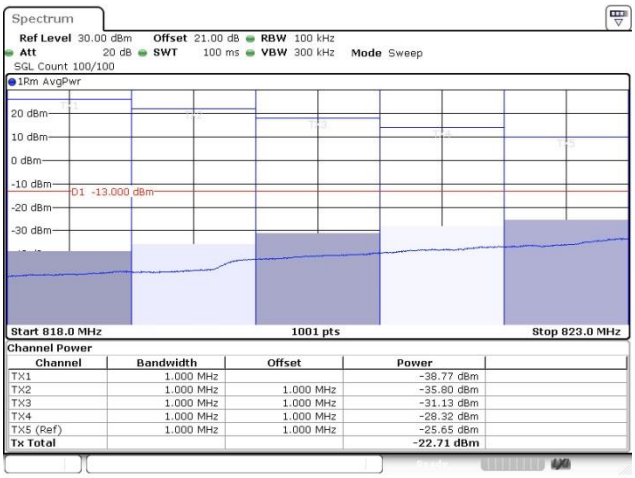
Mode	LTE Band 5, CB: 3MHz, 16QAM				
Channel	20635	1 RB upper / Offset 0	**Channel**	20635	1 RB upper / Offset 0

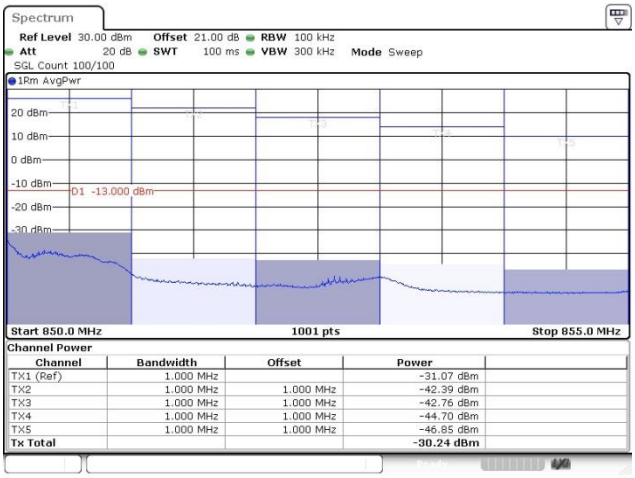
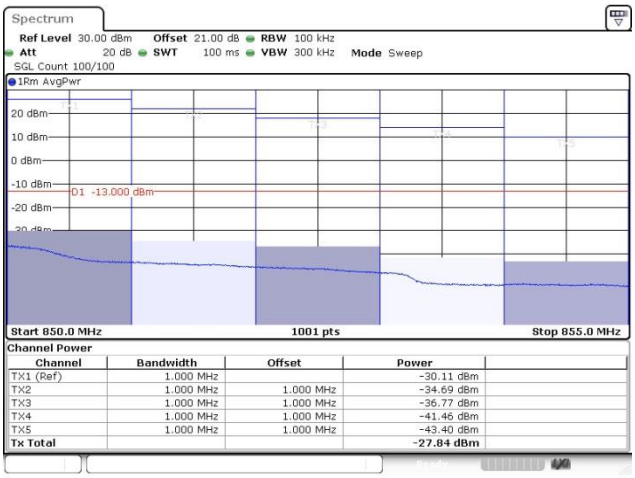


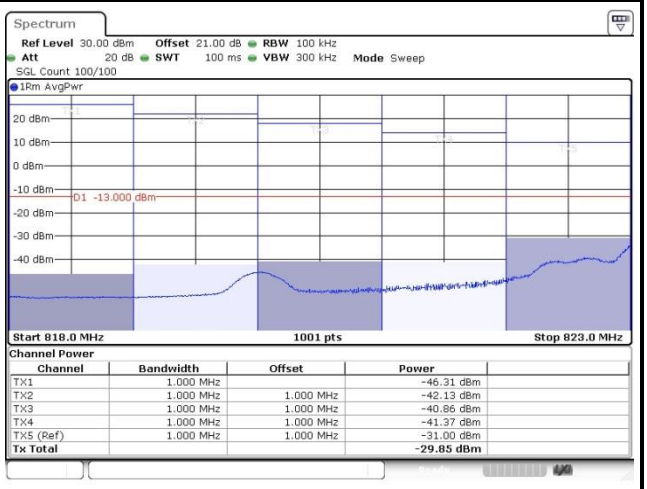
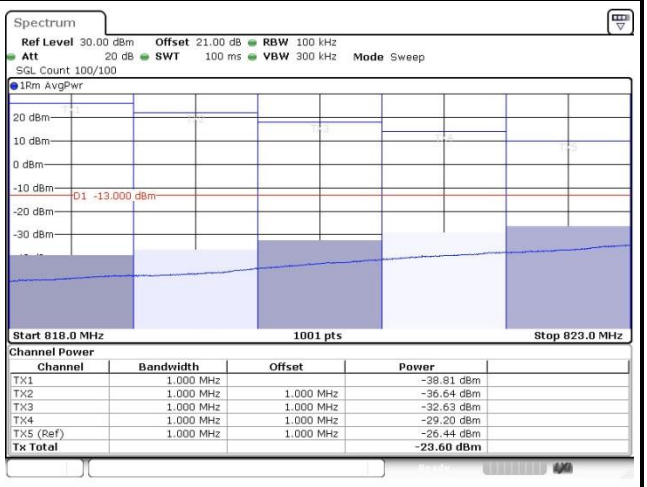


Channel	20635	100% RB / Offset 0	**Channel**	20635	100% RB / Offset 0

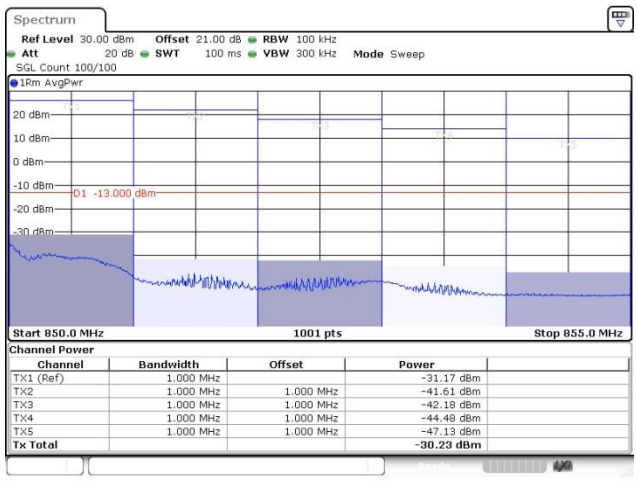


Mode	LTE Band 5, CB: 5MHz, QPSK				
Channel	20425	1 RB lower / Offset 0	**Channel**	20425	1 RB lower / Offset 0
					
Channel	20425	100% RB / Offset 0	**Channel**	20425	100% RB / Offset 0
					

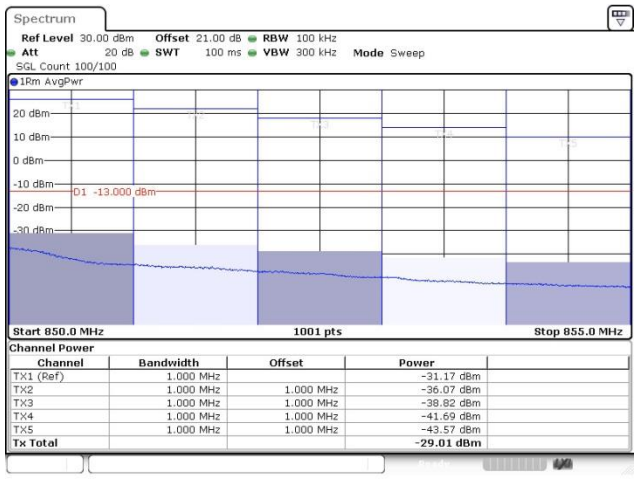
Mode	LTE Band 5, CB: 5MHz, QPSK				
Channel	20625	1 RB upper / Offset 0	**Channel**	20625	1 RB upper / Offset 0
					
Channel	20625	100% RB / Offset 0	**Channel**	20625	100% RB / Offset 0
					

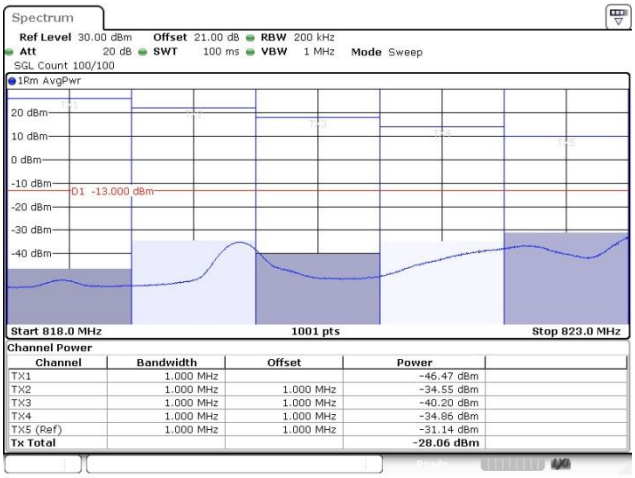
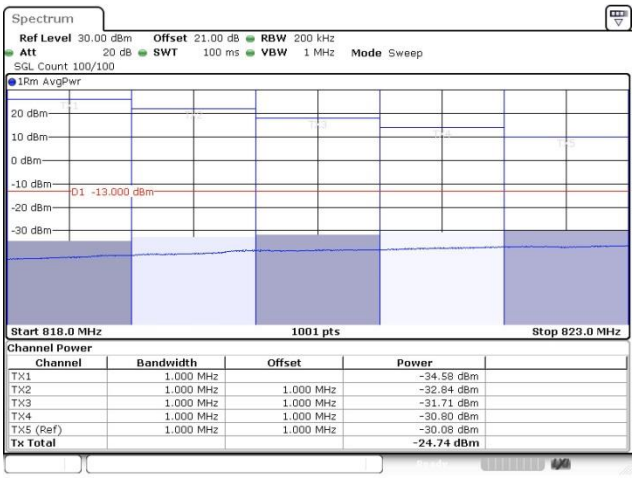
Mode	LTE Band 5, CB: 5MHz, 16QAM				
Channel	20425	1 RB lower / Offset 0	**Channel**	20425	1 RB lower / Offset 0
					
Channel	20425	100% RB / Offset 0	**Channel**	20425	100% RB / Offset 0
					

Mode	LTE Band 5, CB: 5MHz, 16QAM				
Channel	20625	1 RB upper / Offset 0	**Channel**	20625	1 RB upper / Offset 0

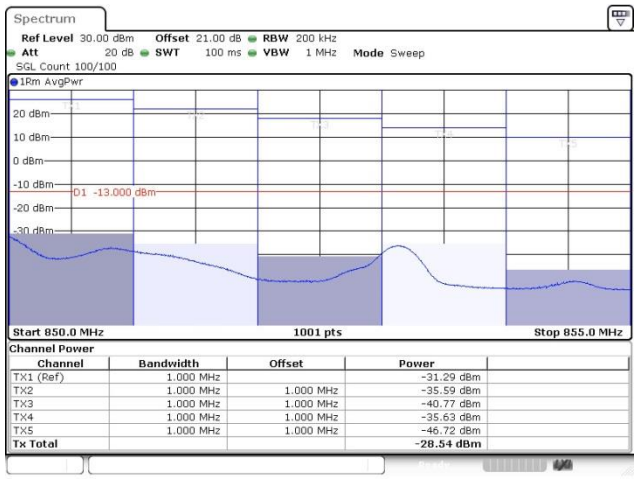


Channel	20625	100% RB / Offset 0	**Channel**	20625	100% RB / Offset 0

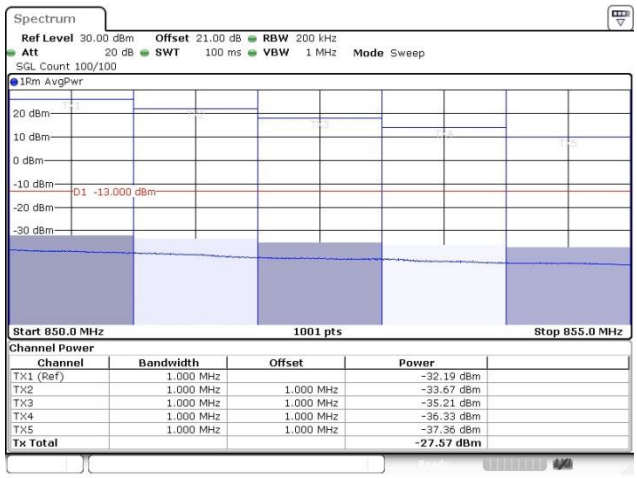


Mode	LTE Band 5, CB: 10MHz, QPSK				
Channel	20450	1 RB lower / Offset 0	**Channel**	20450	1 RB lower / Offset 0
					
Channel	20450	100% RB / Offset 0	**Channel**	20450	100% RB / Offset 0
					

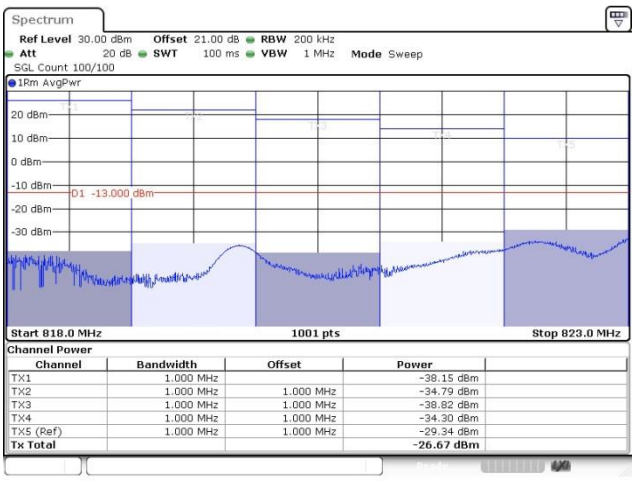
Mode	LTE Band 5, CB: 10MHz, QPSK				
Channel	20600	1 RB upper / Offset 0	**Channel**	20600	1 RB upper / Offset 0



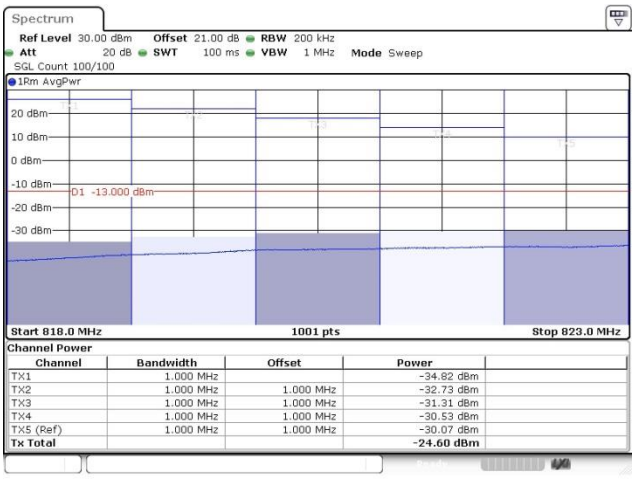
Channel	20600	100% RB / Offset 0	**Channel**	20600	100% RB / Offset 0



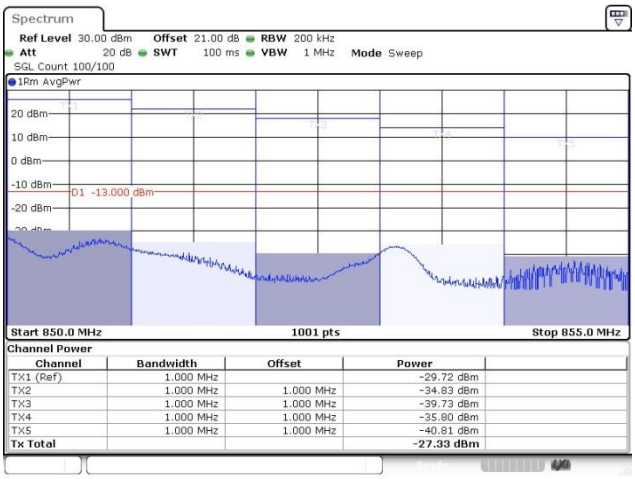
Mode	LTE Band 5, CB: 10MHz, 16QAM				
Channel	20450	1 RB lower / Offset 0	**Channel**	20450	1 RB lower / Offset 0



Channel	20450	100% RB / Offset 0	Channel	20450	100% RB / Offset 0



Mode	LTE Band 5, CB: 10MHz, 16QAM				
Channel	20600	1 RB upper / Offset 0	**Channel**	20600	1 RB upper / Offset 0



Channel	20600	100% RB / Offset 0	**Channel**	20600	100% RB / Offset 0