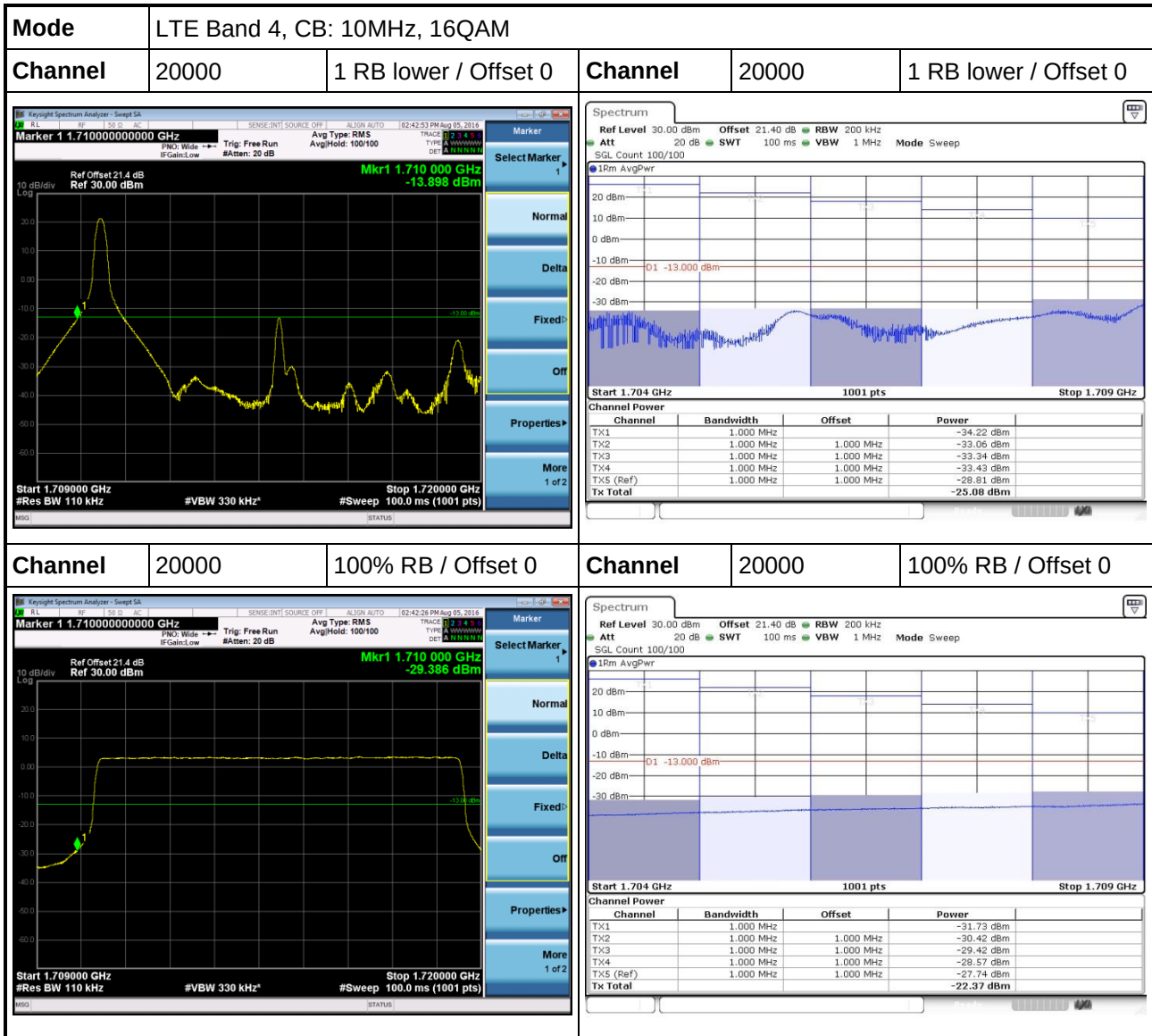




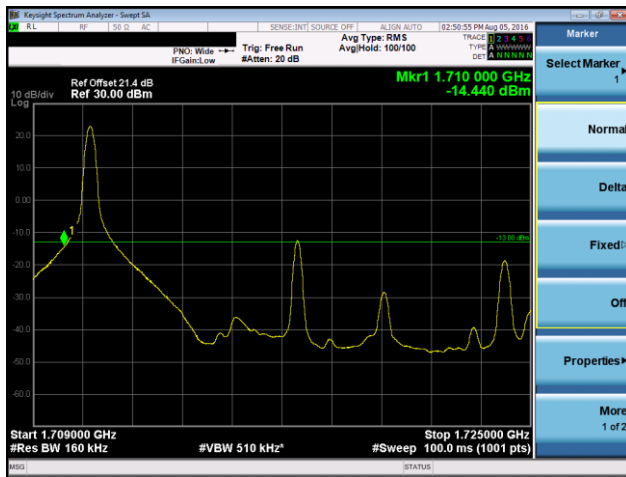
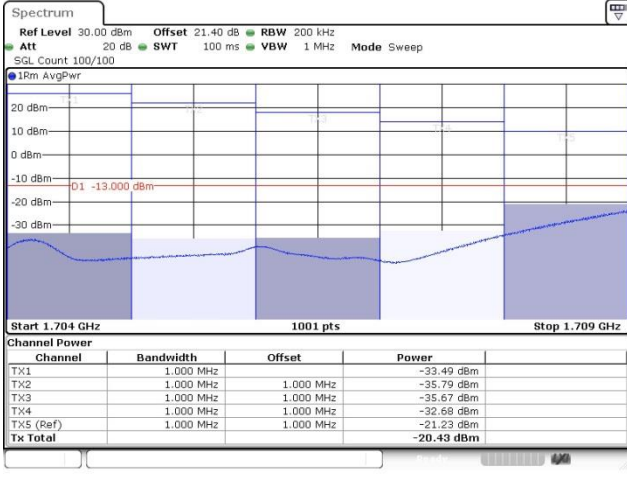
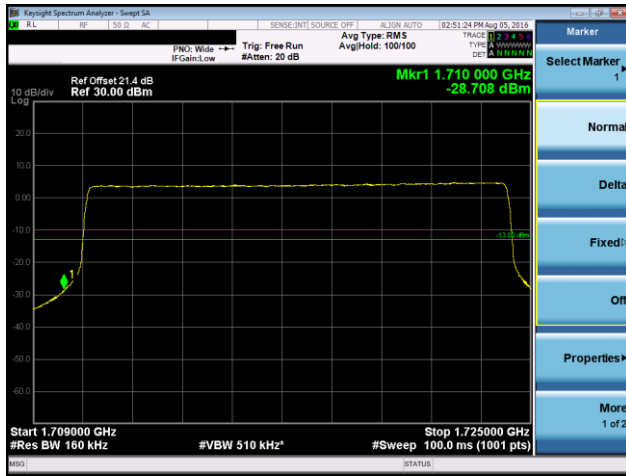
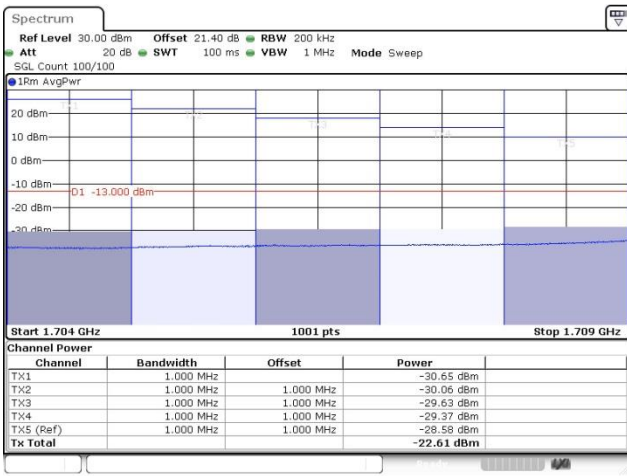


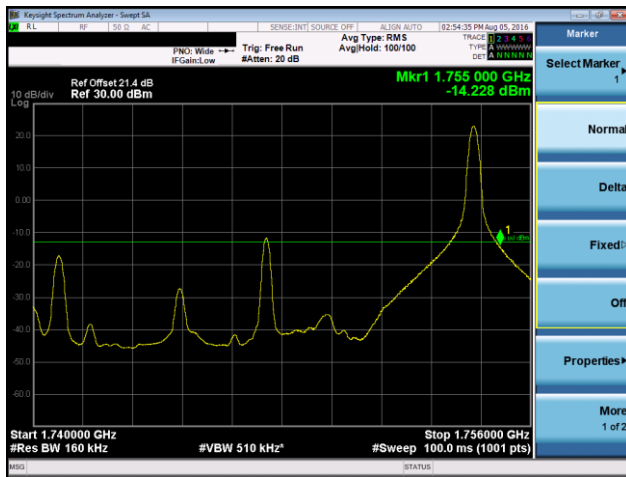
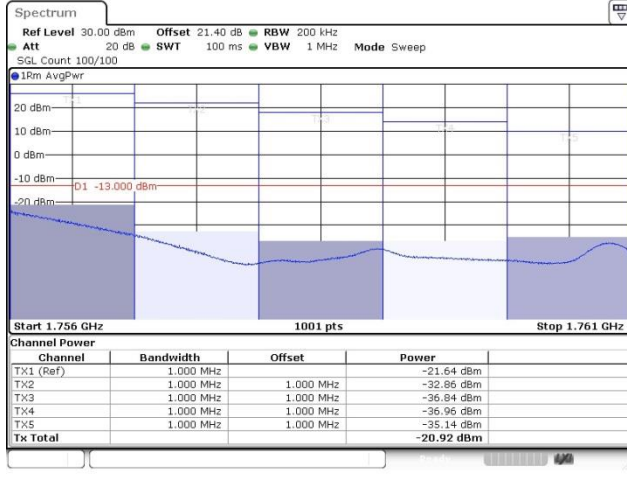
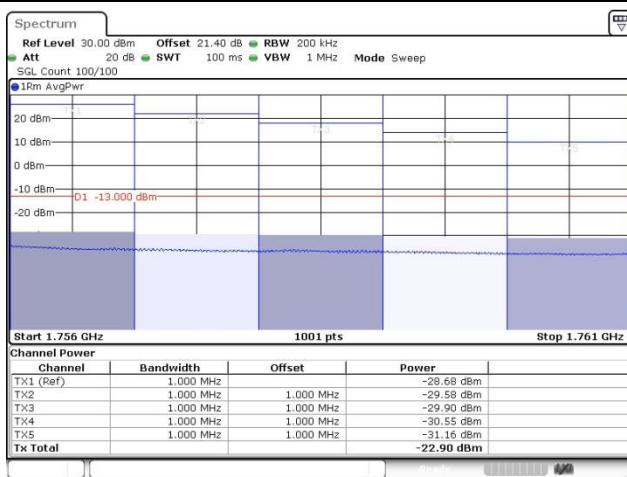


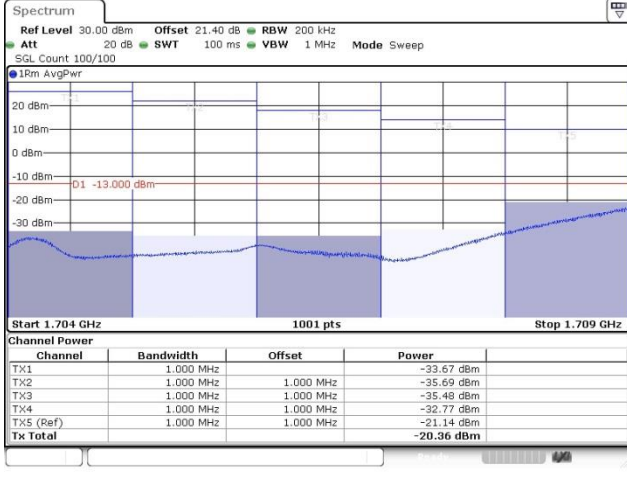
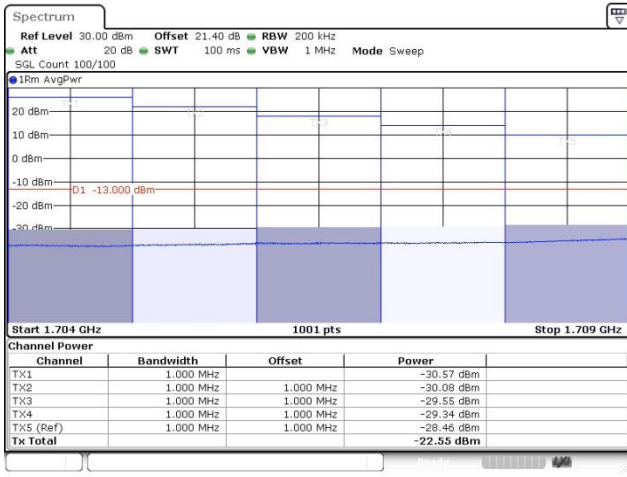






Mode		LTE Band 4, CB: 15MHz, QPSK						
Channel		20025	1 RB lower / Offset 0		Channel	20025	1 RB lower / Offset 0	
								
Channel		20025	100% RB / Offset 0		Channel	20025	100% RB / Offset 0	
								

Mode		LTE Band 4, CB: 15MHz, QPSK						
Channel		20325	1 RB upper / Offset 0		Channel	20325	1 RB upper / Offset 0	
								
Channel		20325	100% RB / Offset 0		Channel	20325	100% RB / Offset 0	
								

Mode			LTE Band 4, CB: 15MHz, 16QAM		
Channel			2025	1 RB lower / Offset 0	
					
Channel			2025	100% RB / Offset 0	
					









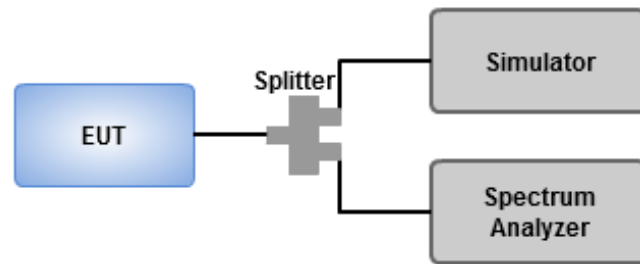


3.5 Occupied and 26 dB Bandwidth

3.5.1 Test Procedures

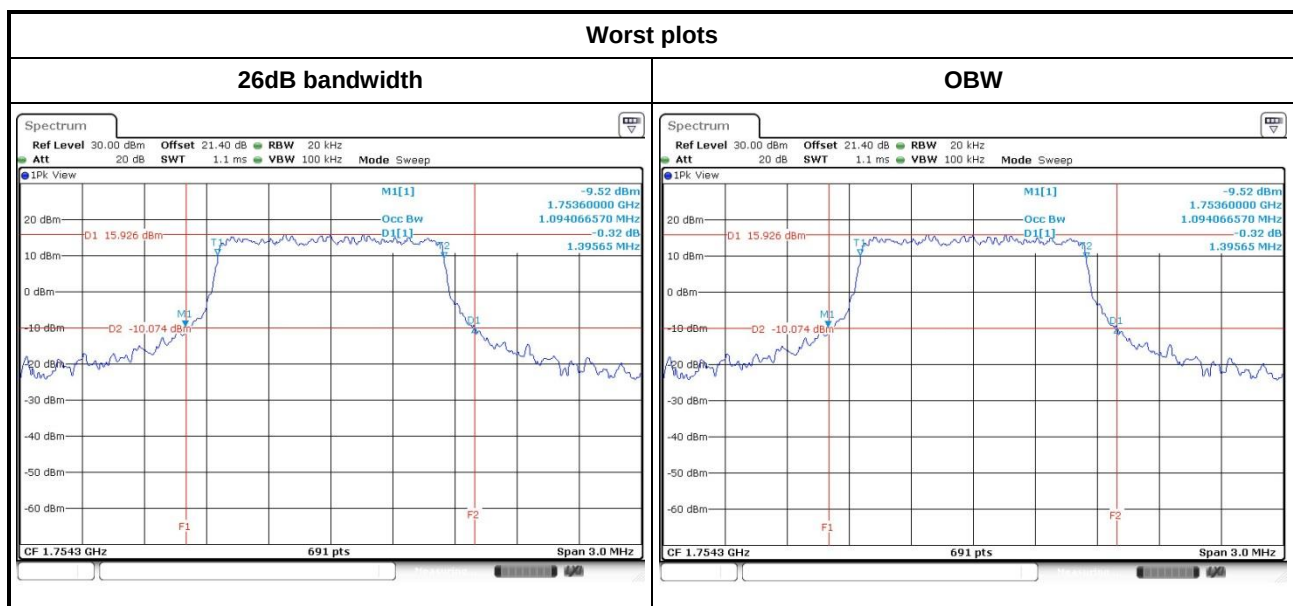
1. Set RBW = 20 / 50 / 100 / 200 / 200 / 300 kHz, VBW = 100 / 200 / 300 / 1000 / 1000 / 1000 kHz for channel bandwidth 1.4 / 3 / 5 / 10 / 15 / 20 MHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Using occupied bandwidth measurement function of spectrum analyzer to measure occupied bandwidth.
5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 26dB relative to the maximum level measured in the fundamental emission.

3.5.2 Test Setup

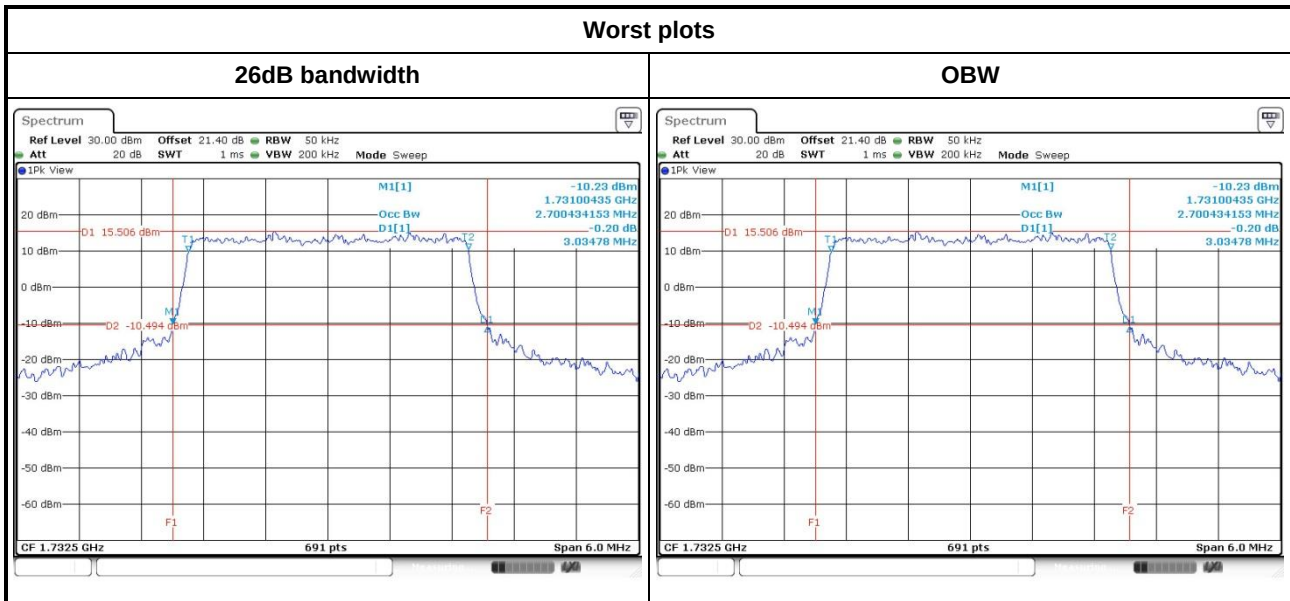


3.5.3 Test Result of Occupied Bandwidth

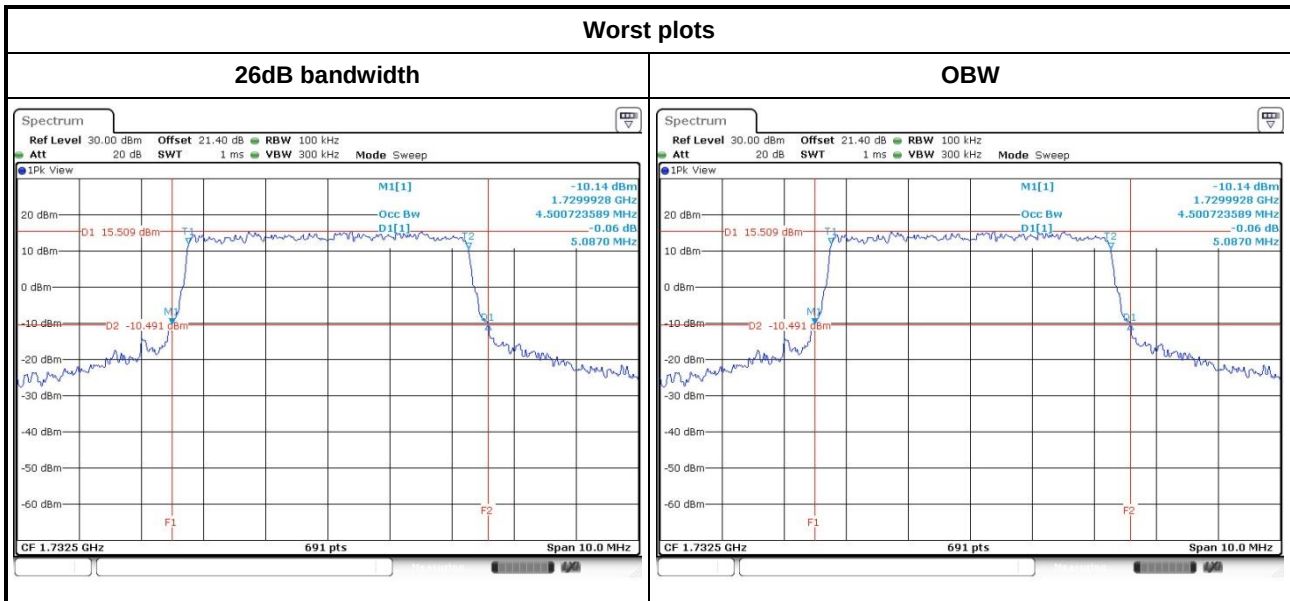
Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	26dB BW (MHz)	99% OBW (MHz)
LTE Band 4	1.4	QPSK	19957	1710.7	1.3261	1.09
LTE Band 4	1.4	QPSK	20175	1732.5	1.3739	1.09
LTE Band 4	1.4	QPSK	20393	1754.3	1.3957	1.09
LTE Band 4	1.4	16QAM	19957	1710.7	1.3957	1.09
LTE Band 4	1.4	16QAM	20175	1732.5	1.3696	1.09
LTE Band 4	1.4	16QAM	20393	1754.3	1.3739	1.09



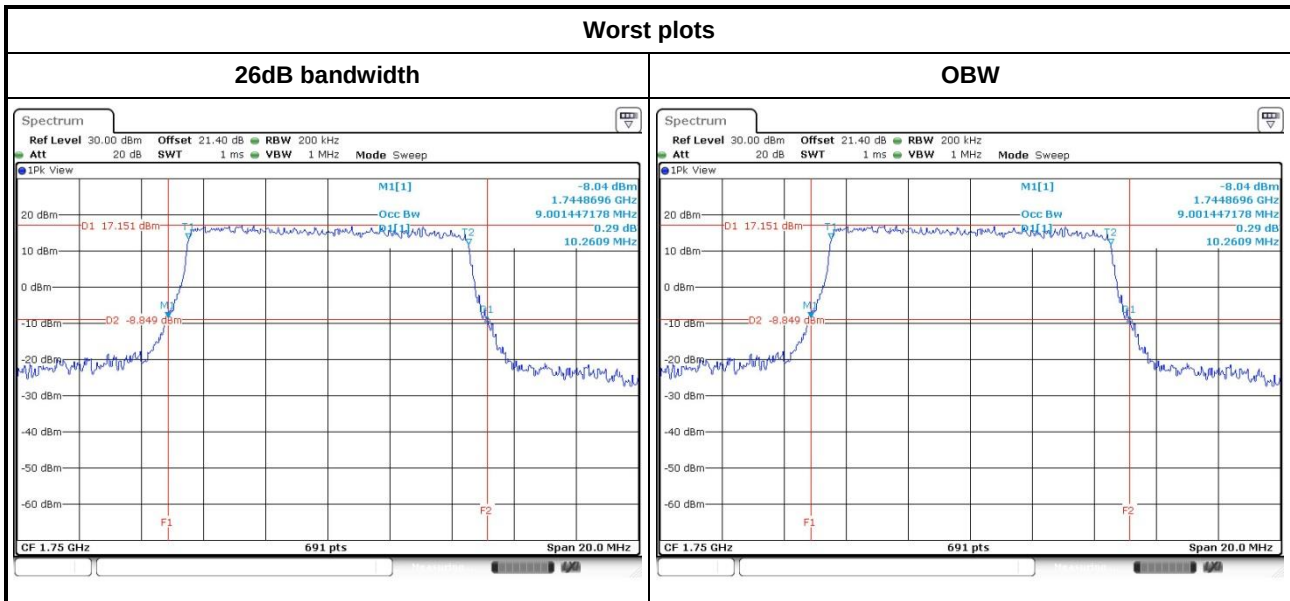
Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	26dB BW (MHz)	99% OBW (MHz)
LTE Band 4	3	QPSK	19965	1711.5	2.9826	2.69
LTE Band 4	3	QPSK	20175	1732.5	2.9739	2.69
LTE Band 4	3	QPSK	20385	1753.5	3.0000	2.69
LTE Band 4	3	16QAM	19965	1711.5	3.0000	2.70
LTE Band 4	3	16QAM	20175	1732.5	3.0348	2.70
LTE Band 4	3	16QAM	20385	1753.5	3.0000	2.69



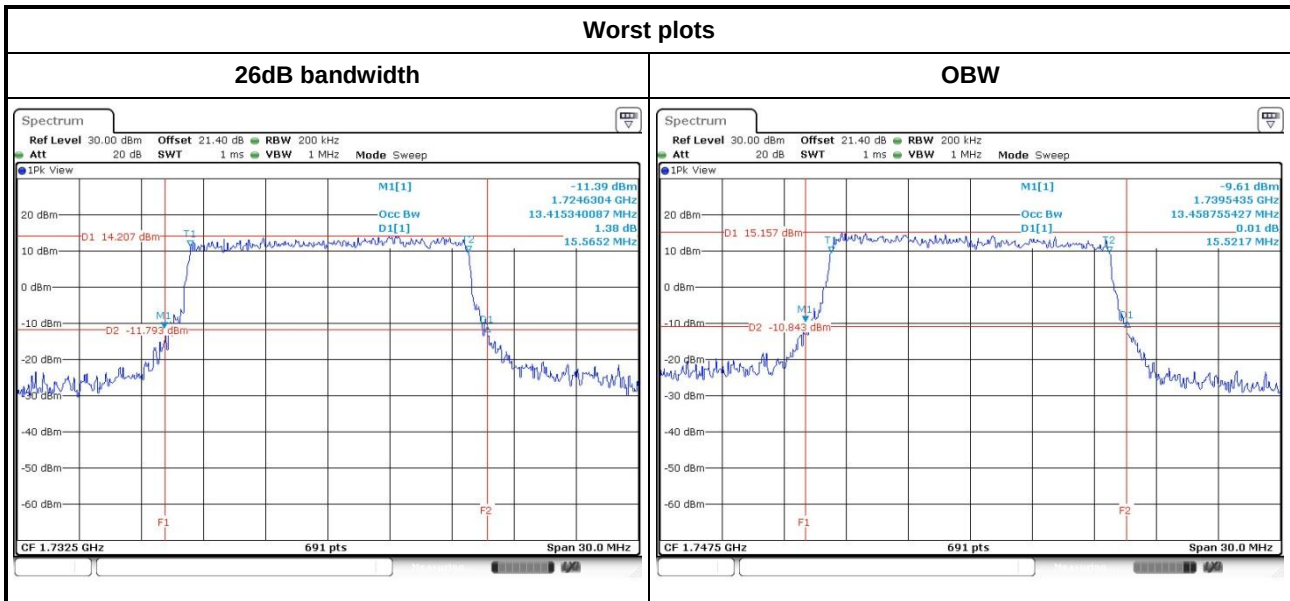
Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	26dB BW (MHz)	99% OBW (MHz)
LTE Band 4	5	QPSK	19975	1712.5	5.0145	4.50
LTE Band 4	5	QPSK	20175	1732.5	5.0290	4.50
LTE Band 4	5	QPSK	20375	1752.5	5.0435	4.50
LTE Band 4	5	16QAM	19975	1712.5	4.9710	4.50
LTE Band 4	5	16QAM	20175	1732.5	5.0870	4.50
LTE Band 4	5	16QAM	20375	1752.5	5.0145	4.49



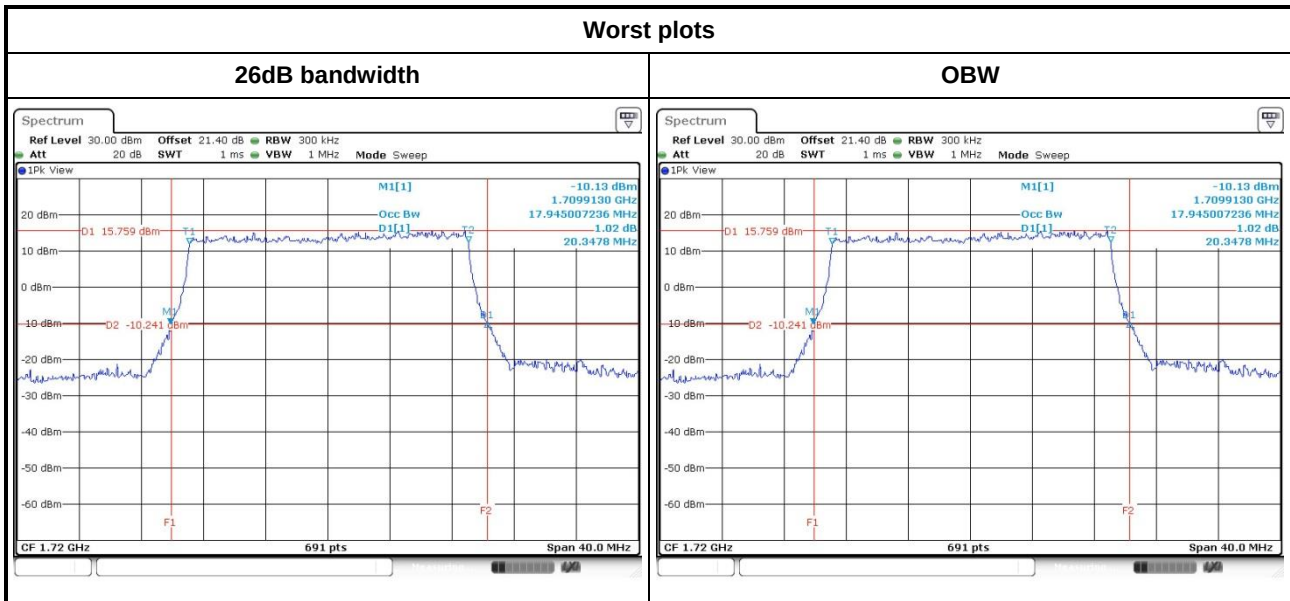
Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	26dB BW (MHz)	99% OBW (MHz)
LTE Band 4	10	QPSK	20000	1715.0	10.1739	9.00
LTE Band 4	10	QPSK	20175	1732.5	10.0870	8.97
LTE Band 4	10	QPSK	20350	1750.0	10.2609	9.00
LTE Band 4	10	16QAM	20000	1715.0	10.1739	9.00
LTE Band 4	10	16QAM	20175	1732.5	10.0870	9.00
LTE Band 4	10	16QAM	20350	1750.0	10.0870	8.97



Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	26dB BW (MHz)	99% OBW (MHz)
LTE Band 4	15	QPSK	20025	1717.5	15.3043	13.42
LTE Band 4	15	QPSK	20175	1732.5	15.0000	13.42
LTE Band 4	15	QPSK	20325	1747.5	15.1304	13.46
LTE Band 4	15	16QAM	20025	1717.5	15.3043	13.42
LTE Band 4	15	16QAM	20175	1732.5	15.5652	13.42
LTE Band 4	15	16QAM	20325	1747.5	15.5217	13.46



Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	26dB BW (MHz)	99% OBW (MHz)
LTE Band 4	20	QPSK	20050	1720.0	20.3478	17.95
LTE Band 4	20	QPSK	20175	1732.5	20.0000	17.95
LTE Band 4	20	QPSK	20300	1745.0	20.1159	17.95
LTE Band 4	20	16QAM	20050	1720.0	20.3478	17.95
LTE Band 4	20	16QAM	20175	1732.5	20.1159	17.95
LTE Band 4	20	16QAM	20300	1745.0	20.0000	17.95



3.6 Peak to Average Ratio

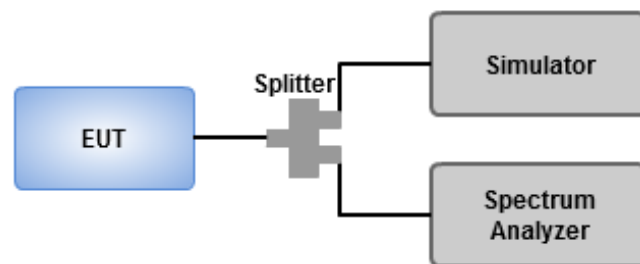
3.6.1 Limit of Peak to Average Ratio

The Peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.6.2 Test Procedures

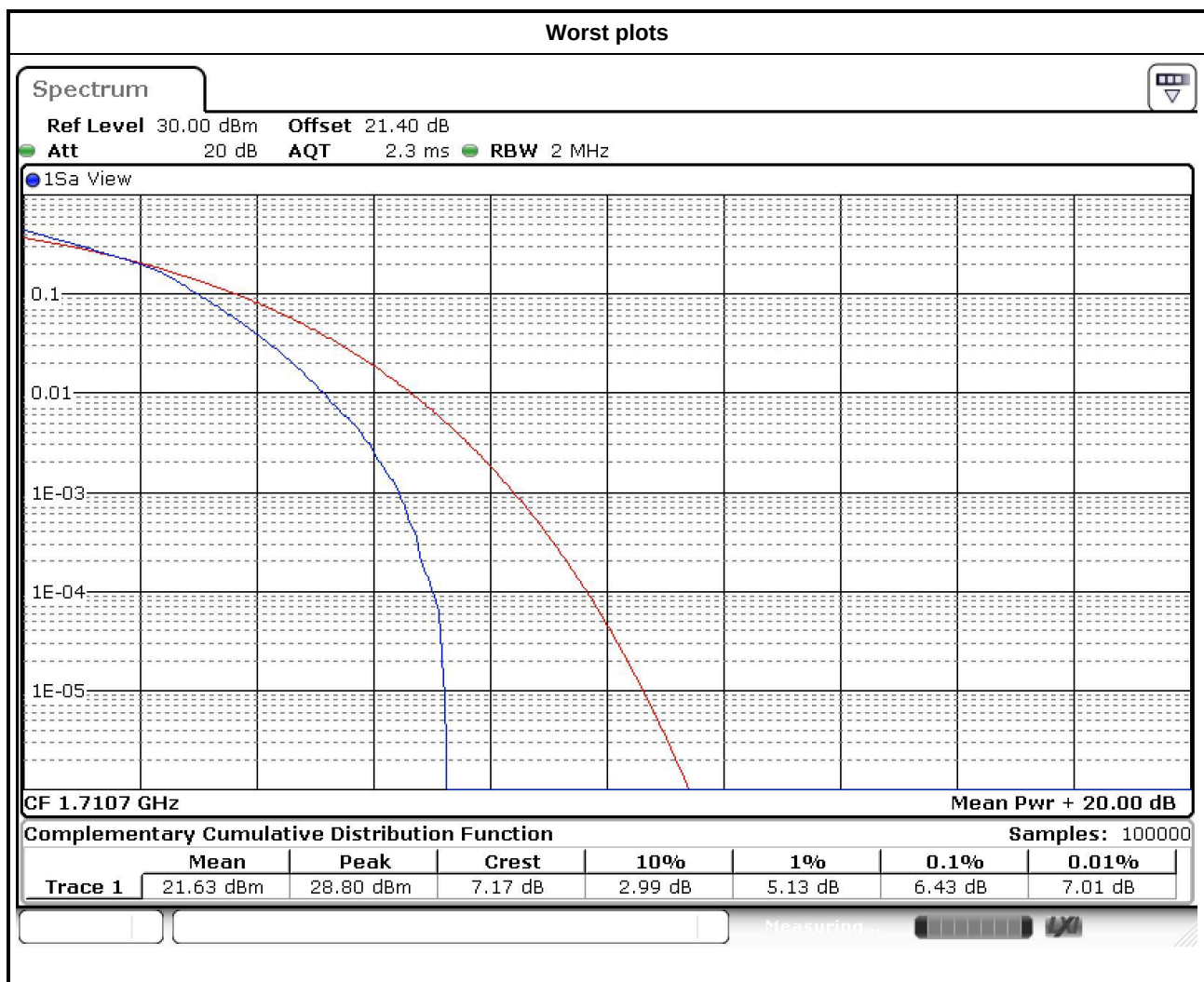
1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth.
2. Set the number of counts to a value that stabilizes the measured CCDF curve.
3. Set the measurement interval to 1 ms.
4. Record the maximum PAPR level associated with a probability of 0.1%.

3.6.3 Test Setup

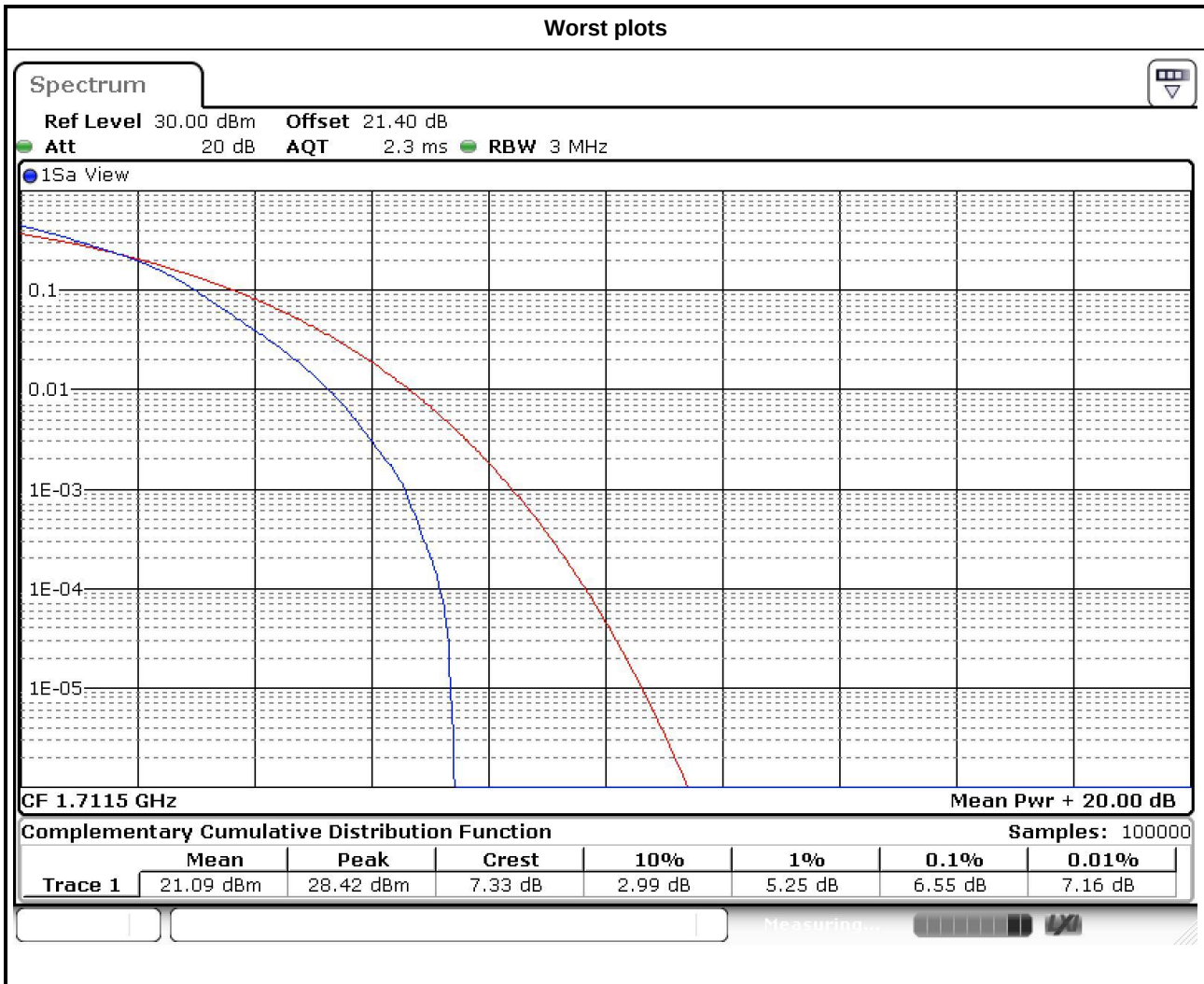


3.6.4 Test Result of Peak to Average Ratio

Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average ratio (dB)
LTE Band 4	1.4	QPSK	19957	1710.7	5.68
LTE Band 4	1.4	QPSK	20175	1732.5	5.42
LTE Band 4	1.4	QPSK	20393	1754.3	5.68
LTE Band 4	1.4	16QAM	19957	1710.7	6.43
LTE Band 4	1.4	16QAM	20175	1732.5	6.14
LTE Band 4	1.4	16QAM	20393	1754.3	6.41



Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average ratio (dB)
LTE Band 4	3	QPSK	19965	1711.5	5.57
LTE Band 4	3	QPSK	20175	1732.5	5.25
LTE Band 4	3	QPSK	20385	1753.5	5.42
LTE Band 4	3	16QAM	19965	1711.5	6.55
LTE Band 4	3	16QAM	20175	1732.5	6.17
LTE Band 4	3	16QAM	20385	1753.5	6.46



Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average ratio (dB)
LTE Band 4	5	QPSK	19975	1712.5	5.39
LTE Band 4	5	QPSK	20175	1732.5	5.10
LTE Band 4	5	QPSK	20375	1752.5	5.30
LTE Band 4	5	16QAM	19975	1712.5	6.29
LTE Band 4	5	16QAM	20175	1732.5	6.06
LTE Band 4	5	16QAM	20375	1752.5	6.35

