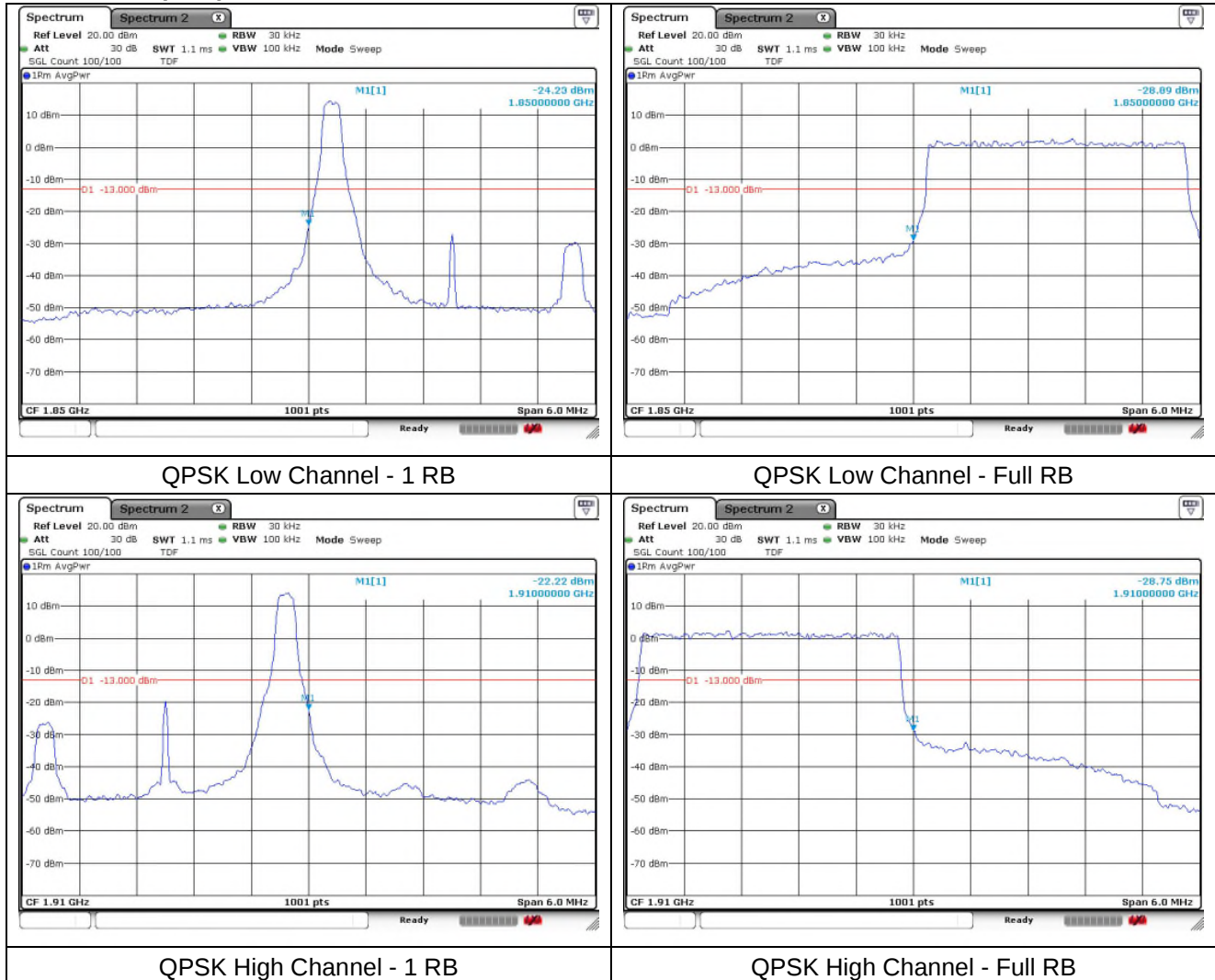
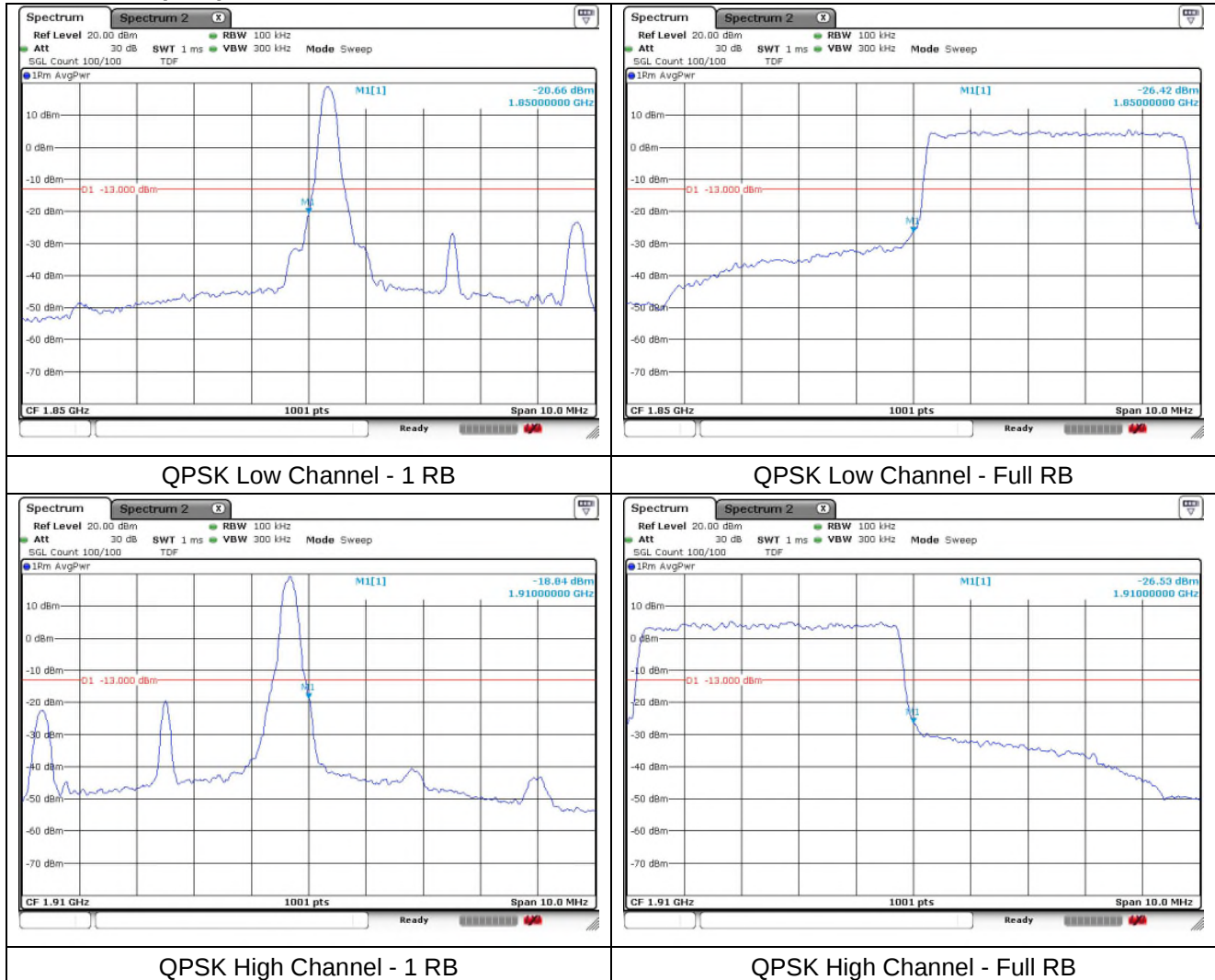


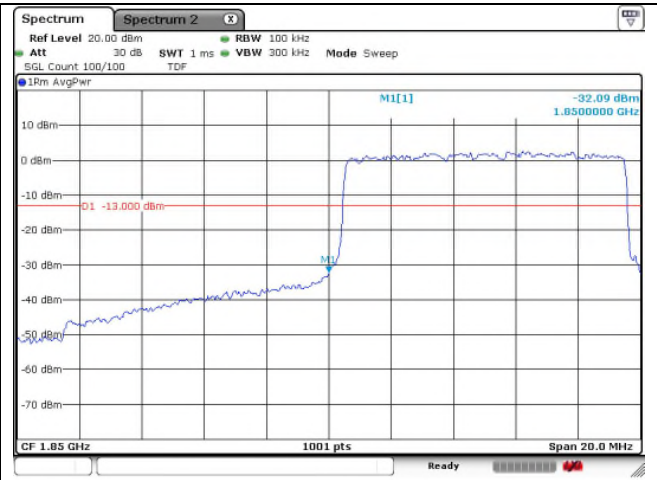
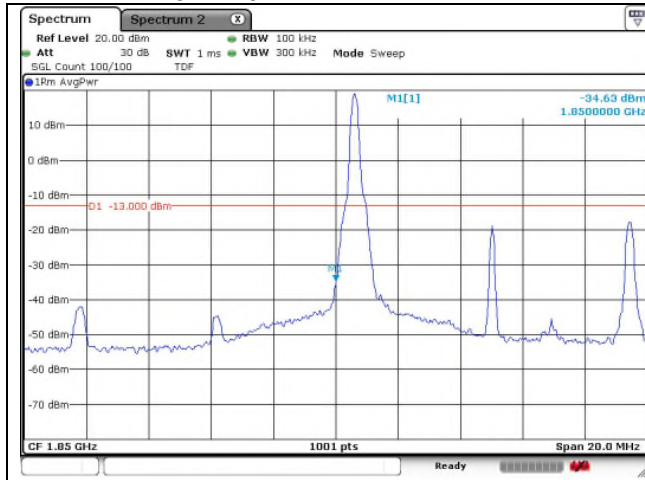
LTE band 2 (3 MHz)



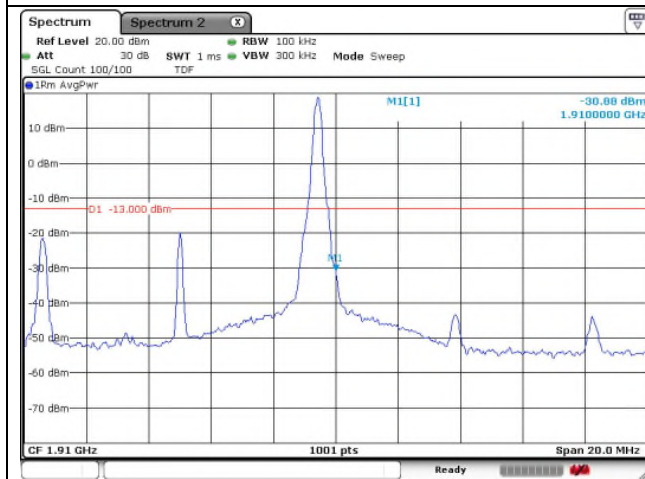
LTE band 2 (5 MHz)



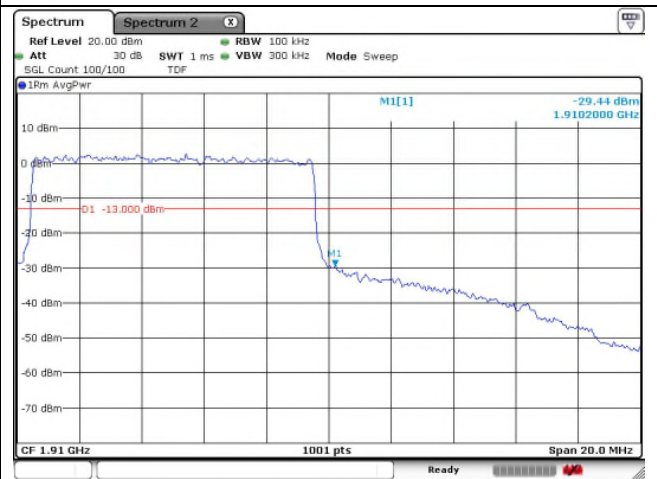
LTE band 2 (10 MHz)



QPSK Low Channel - 1 RB



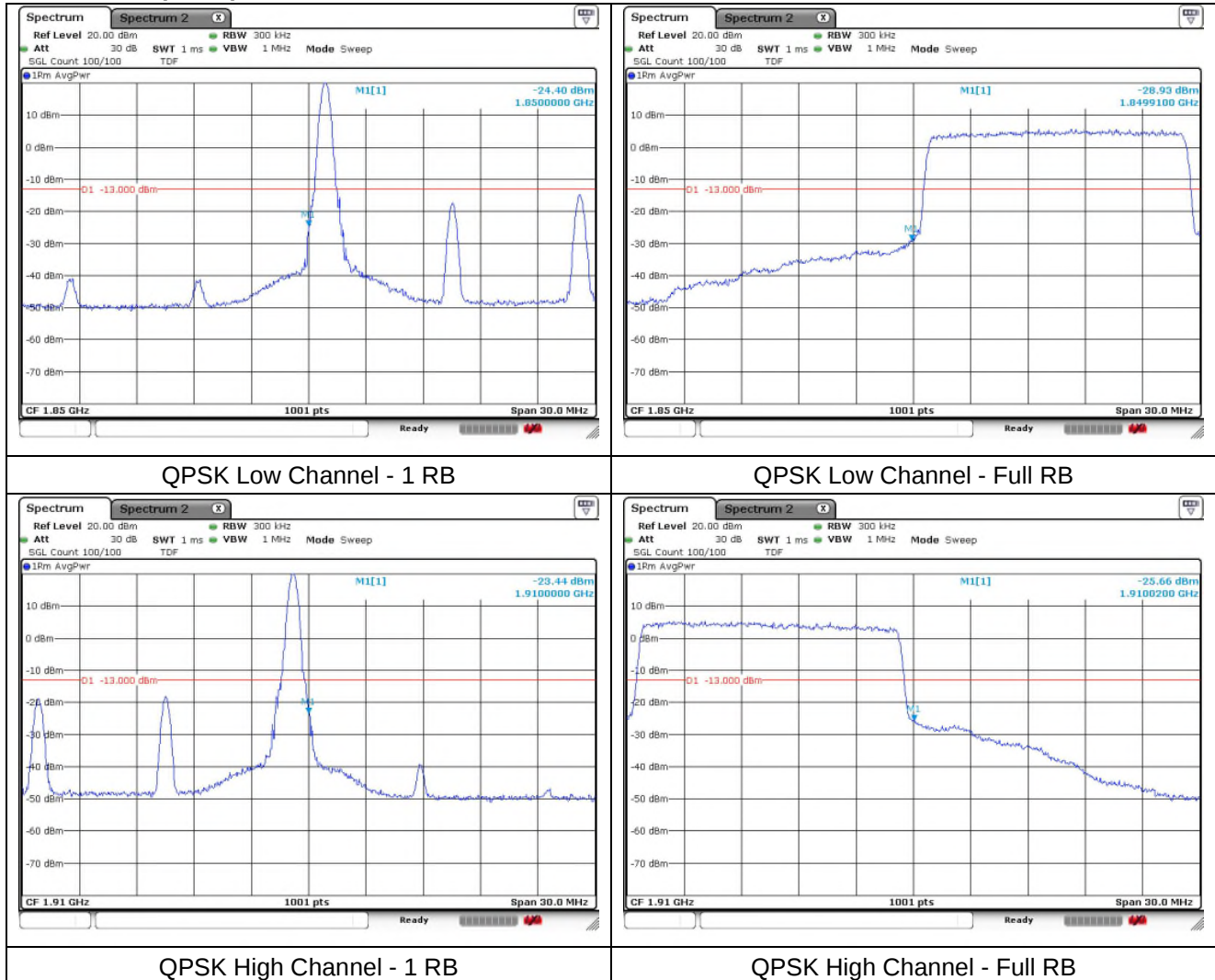
QPSK Low Channel - Full RB



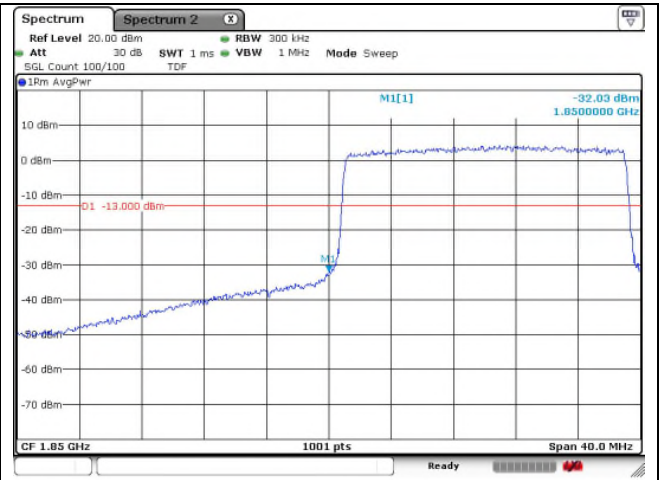
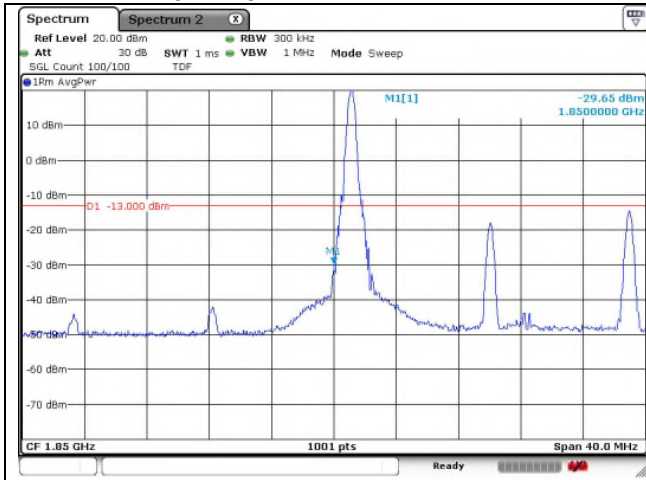
QPSK High Channel - 1 RB

QPSK High Channel - Full RB

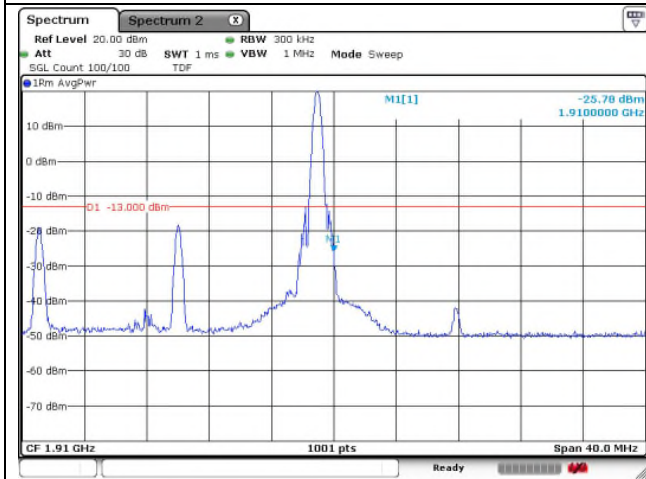
LTE band 2 (15 MHz)



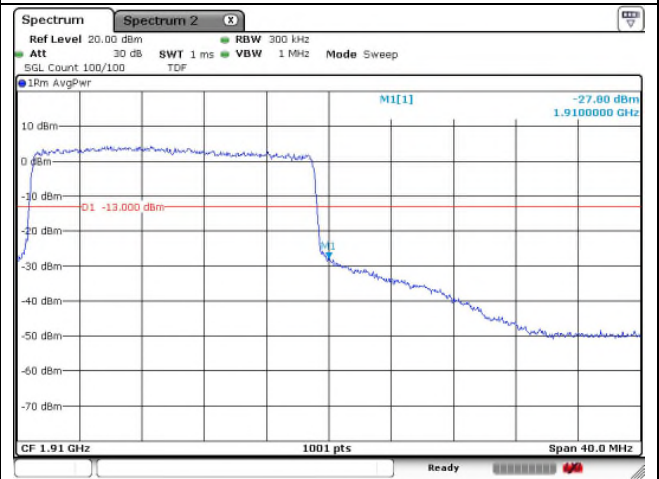
LTE band 2 (20 MHz)



QPSK Low Channel - 1 RB



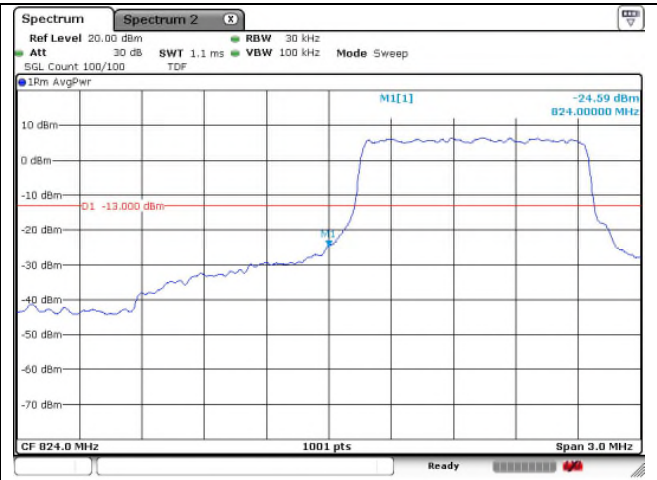
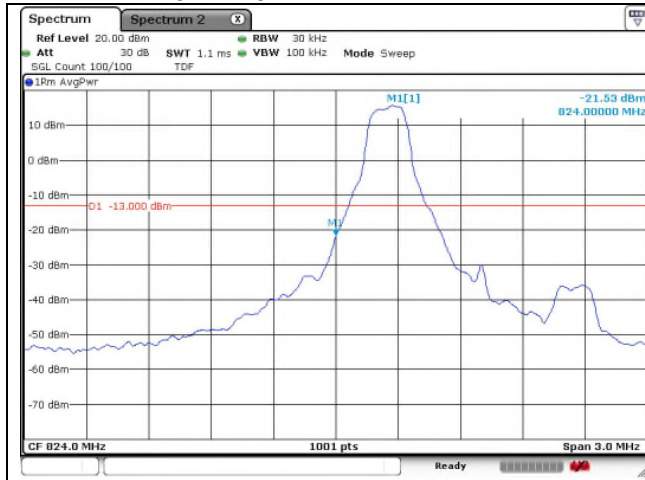
QPSK Low Channel - Full RB



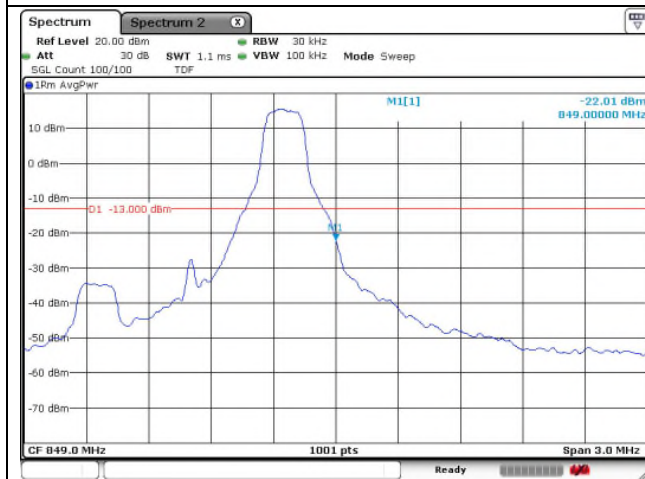
QPSK High Channel - 1 RB

QPSK High Channel - Full RB

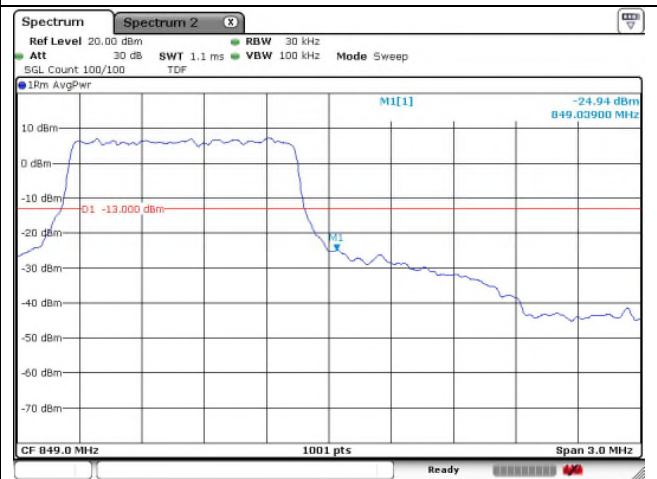
LTE band 5 (1.4 MHz)



QPSK Low Channel - 1 RB



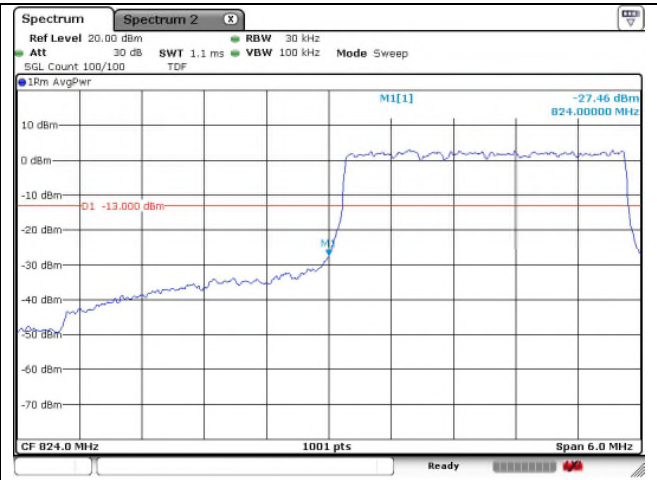
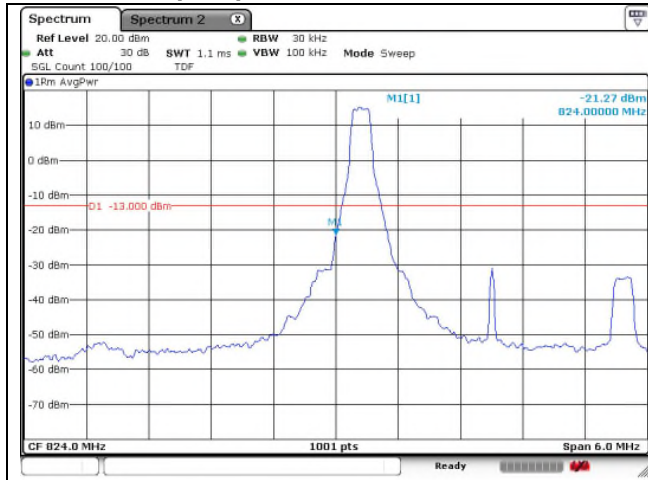
QPSK Low Channel - Full RB



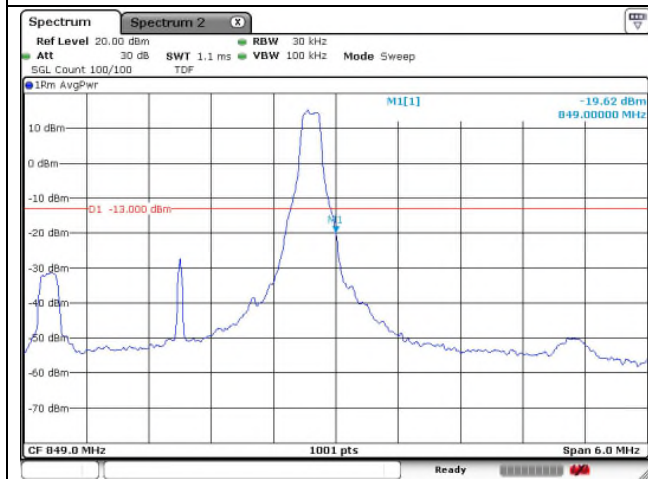
QPSK High Channel - 1 RB

QPSK High Channel - Full RB

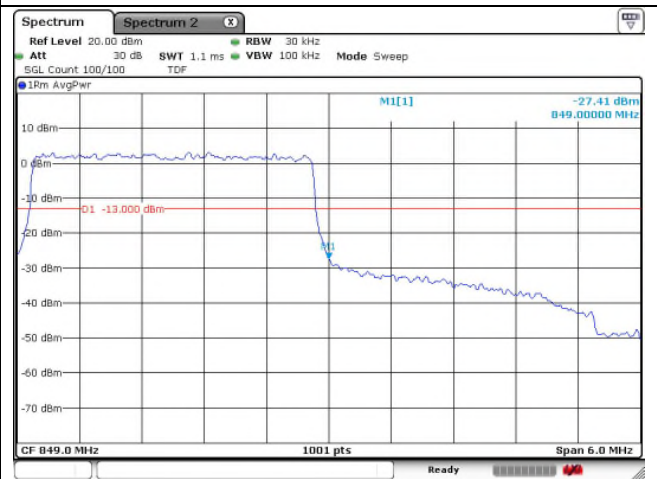
LTE band 5 (3 MHz)



QPSK Low Channel - 1 RB



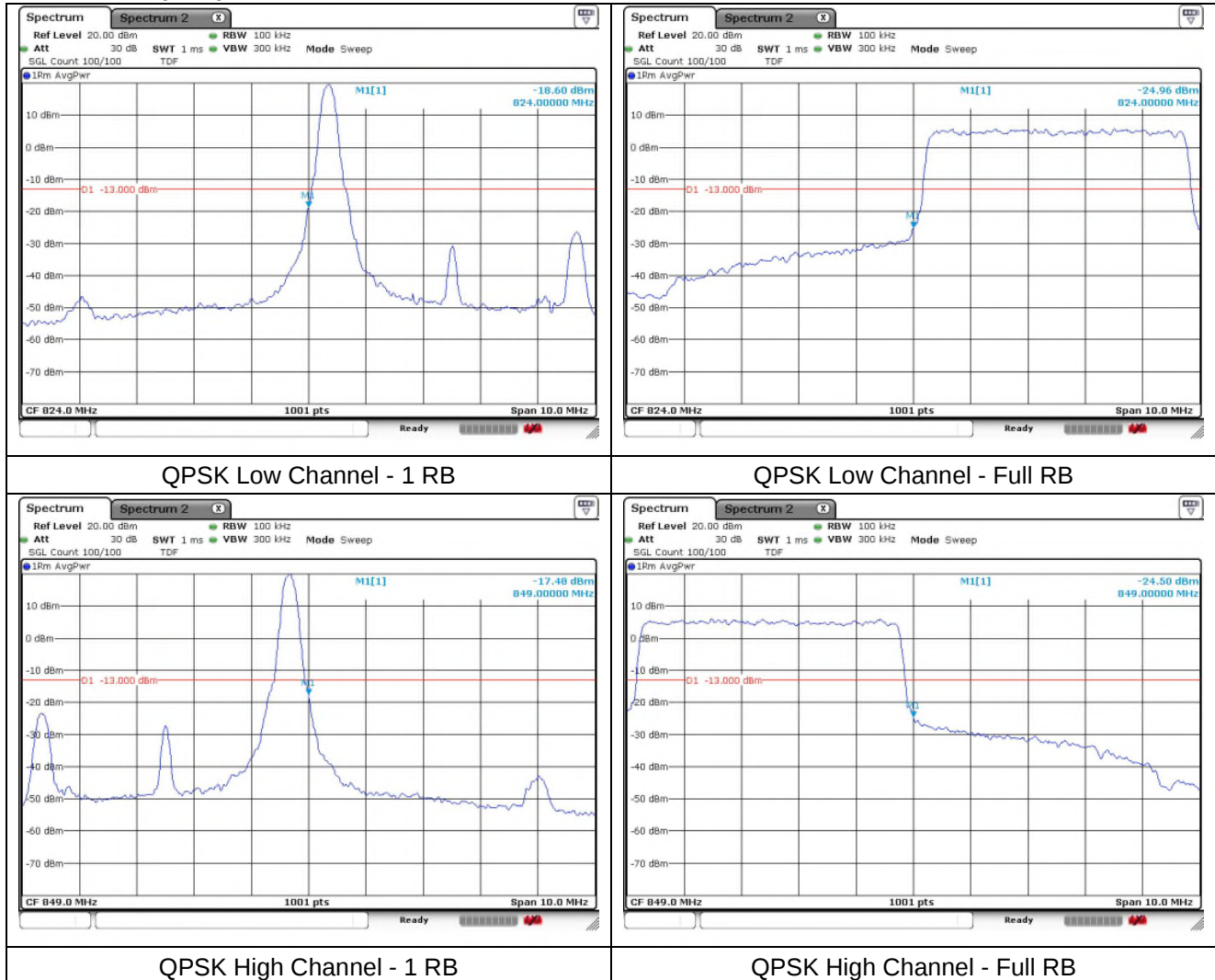
QPSK Low Channel - Full RB



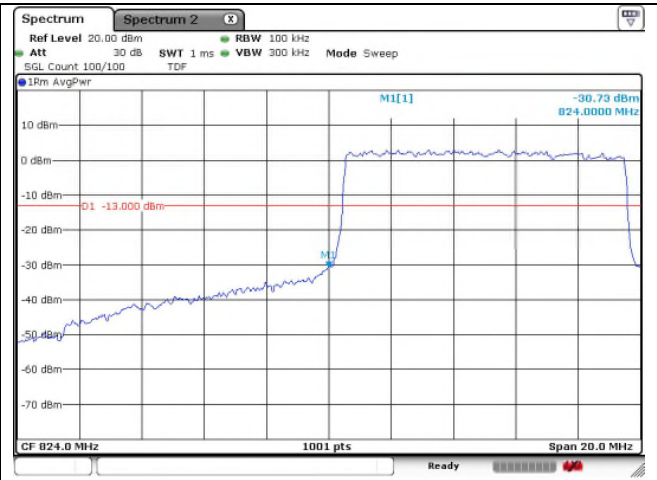
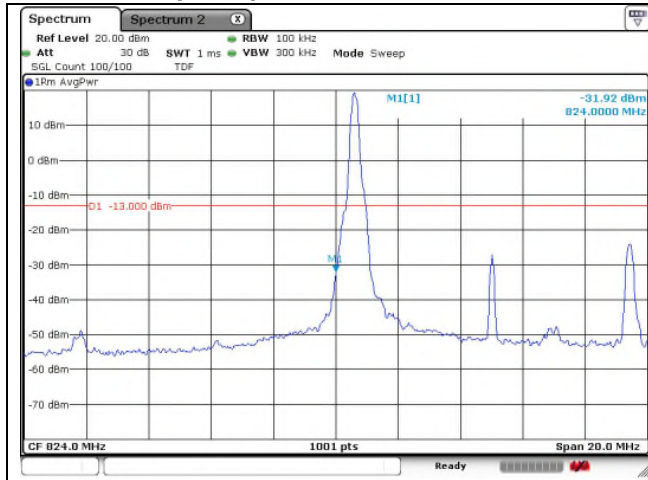
QPSK High Channel - 1 RB

QPSK High Channel - Full RB

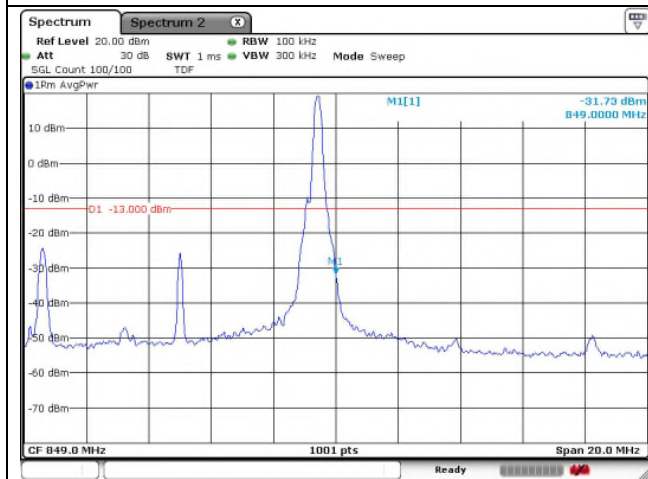
LTE band 5 (5 MHz)



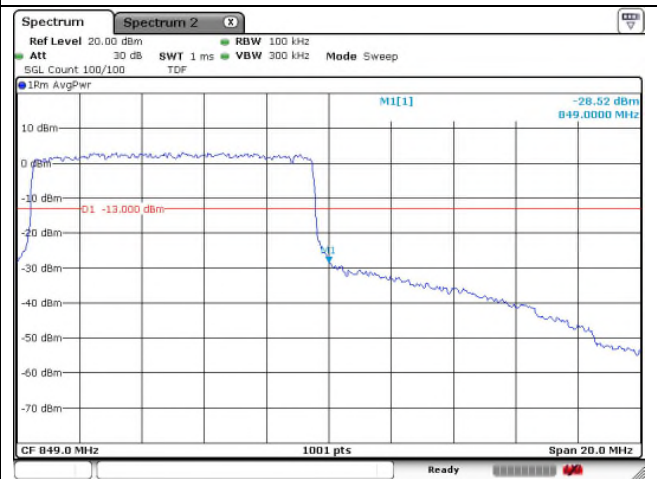
LTE band 5 (10 MHz)



QPSK Low Channel - 1 RB



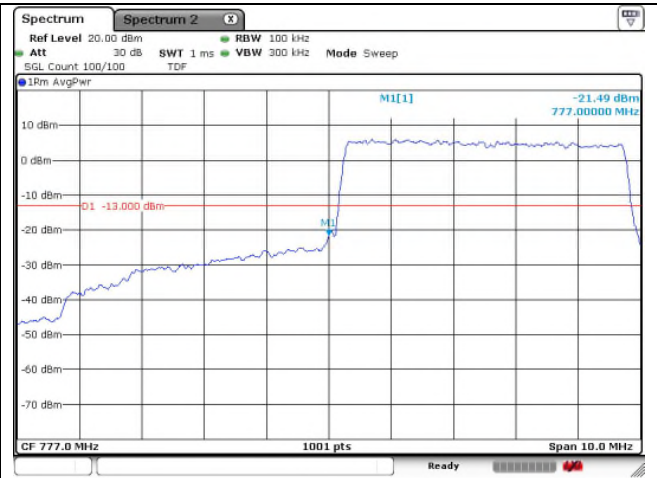
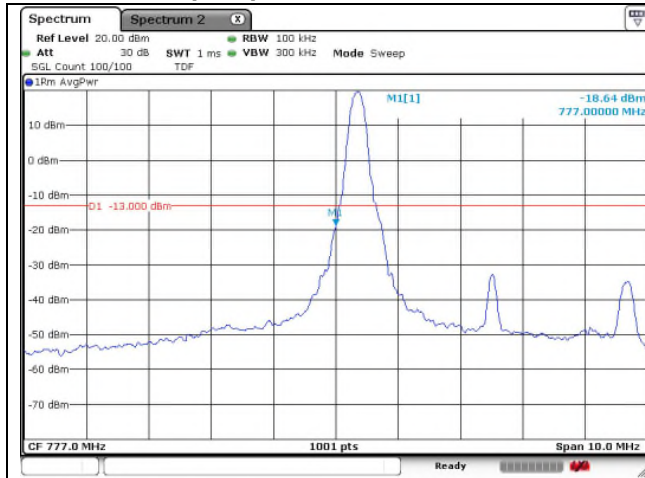
QPSK Low Channel - Full RB



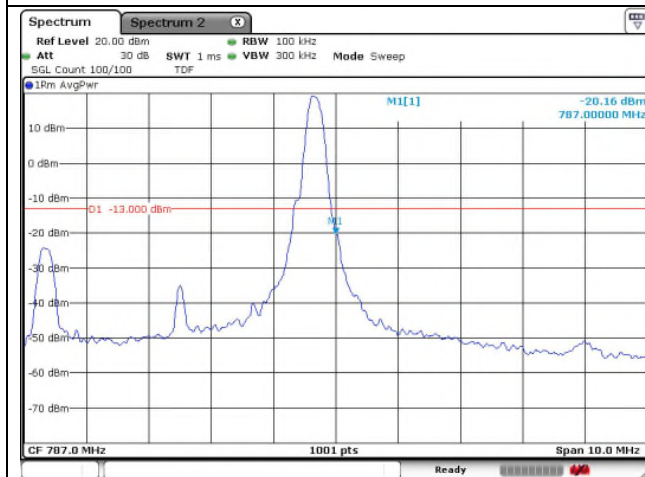
QPSK High Channel - 1 RB

QPSK High Channel - Full RB

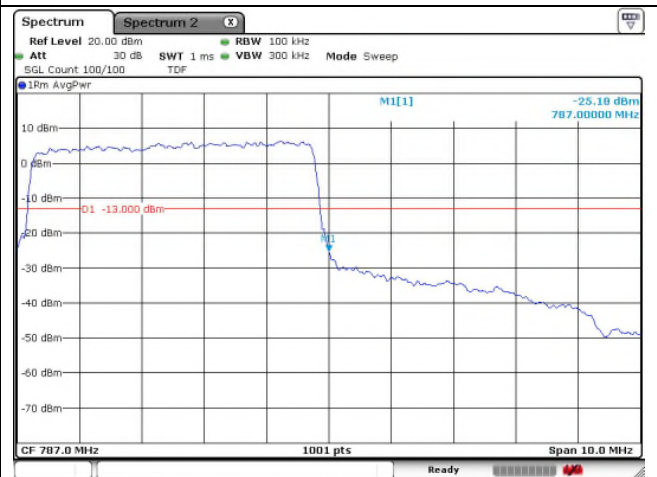
LTE band 13 (5 MHz)



QPSK Low Channel - 1 RB



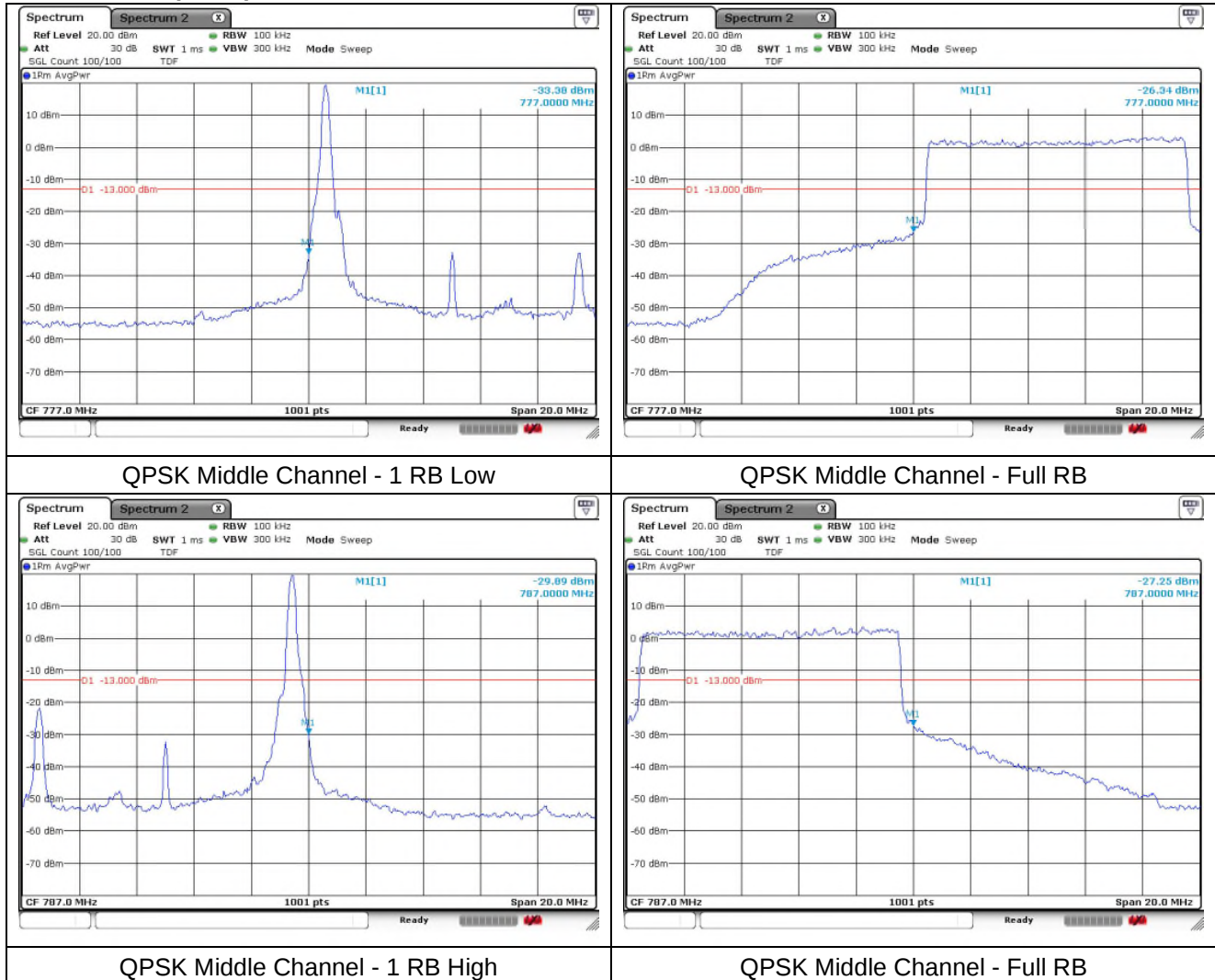
QPSK Low Channel - Full RB



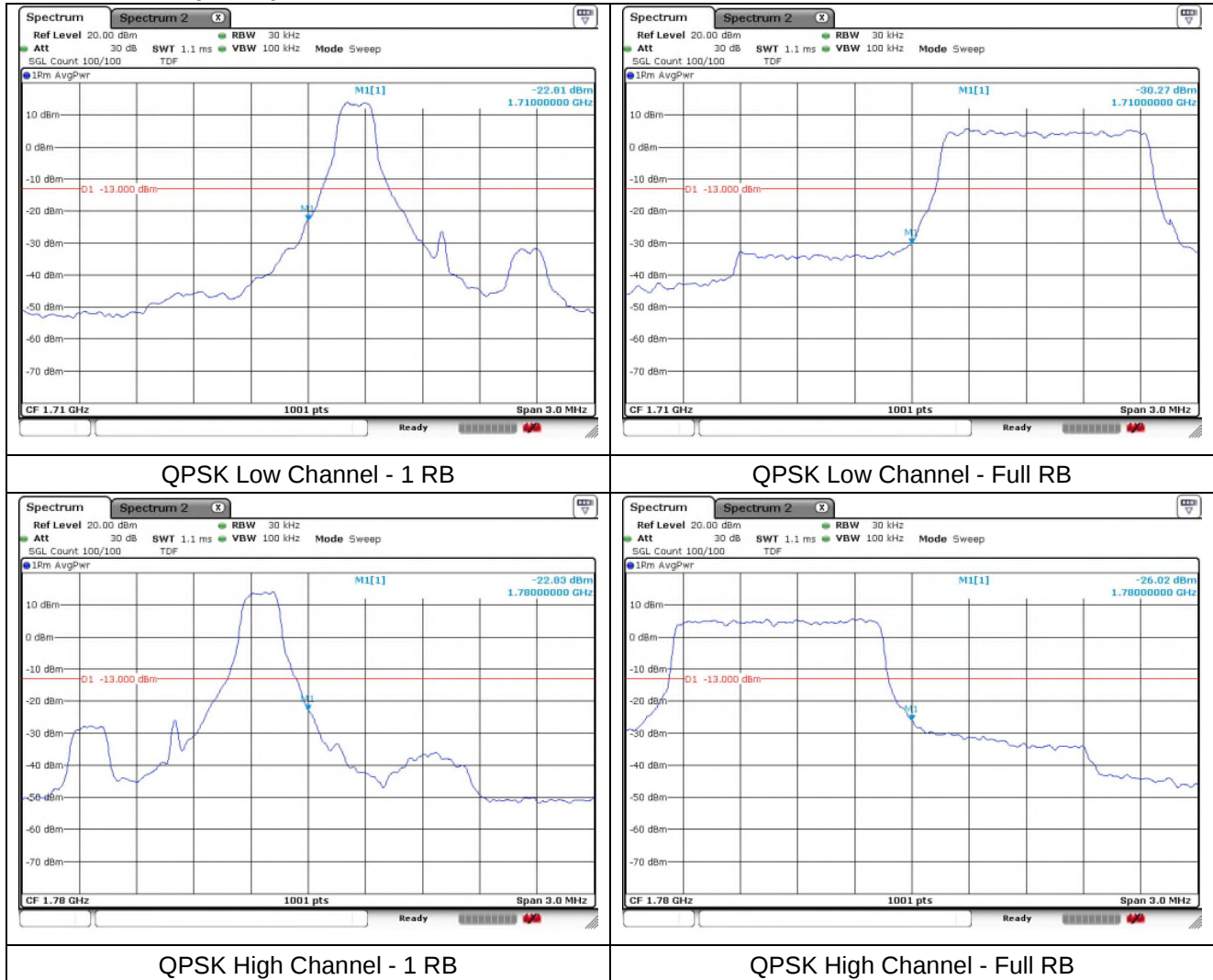
QPSK High Channel - 1 RB

QPSK High Channel - Full RB

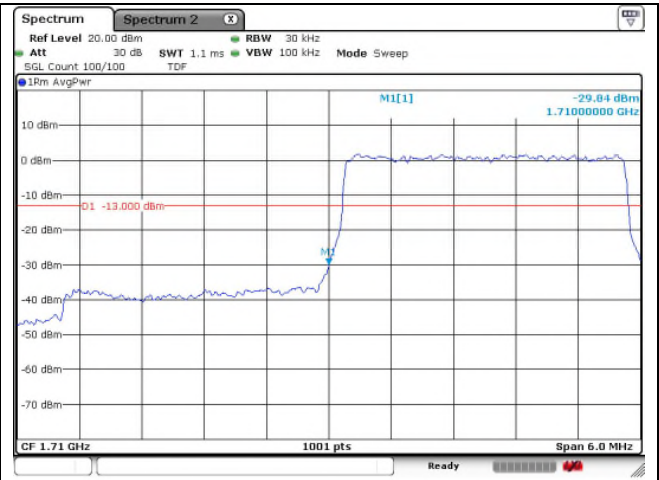
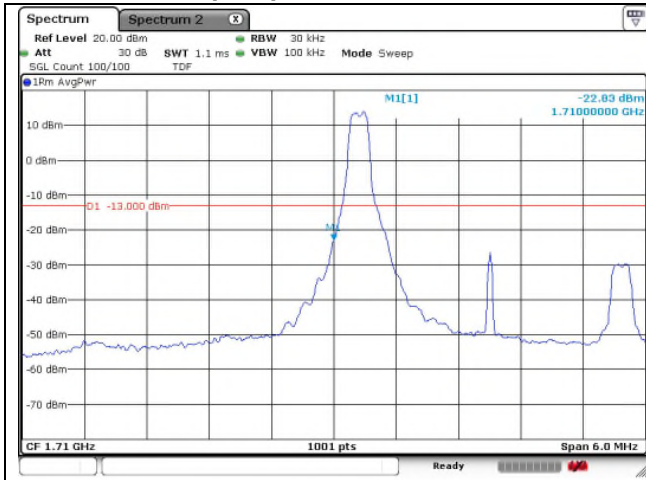
LTE band 13 (10 MHz)



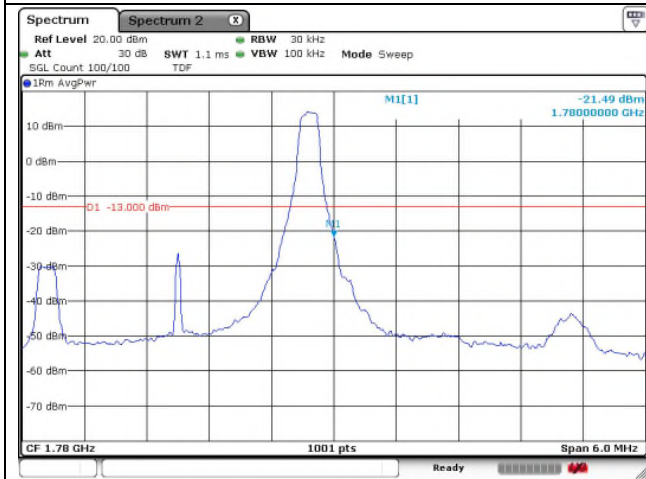
LTE band 66/4 (1.4 MHz)



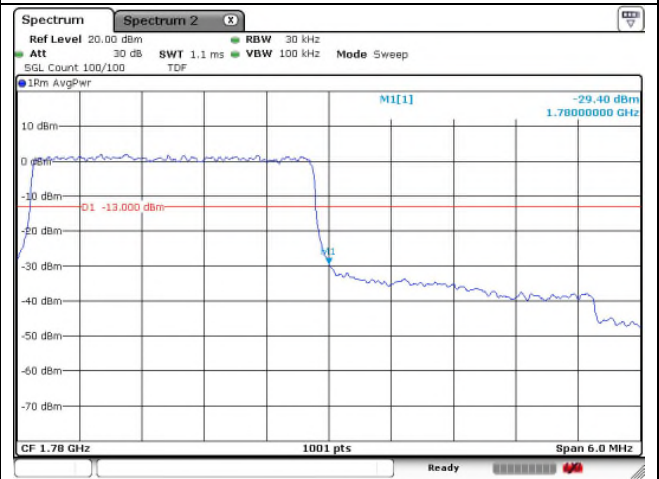
LTE band 66/4 (3 MHz)



QPSK Low Channel - 1 RB



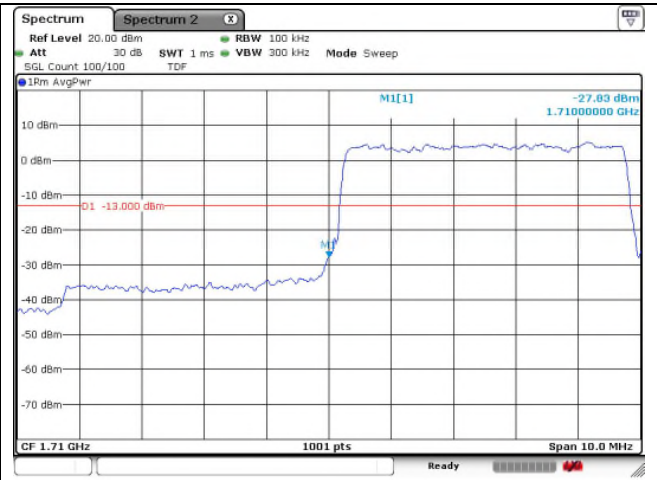
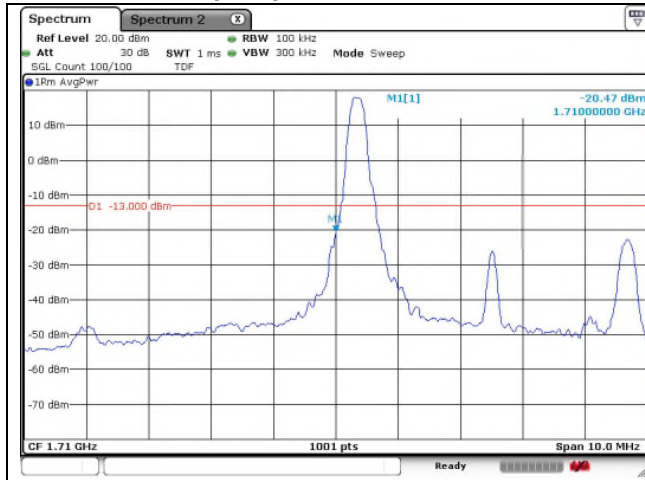
QPSK Low Channel - Full RB



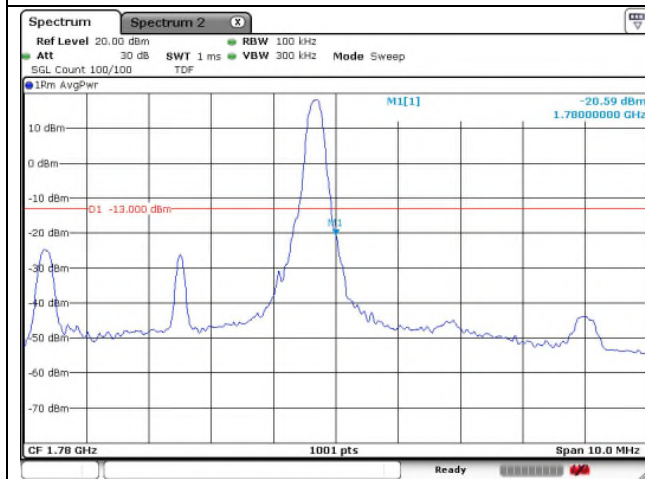
QPSK High Channel - 1 RB

QPSK High Channel - Full RB

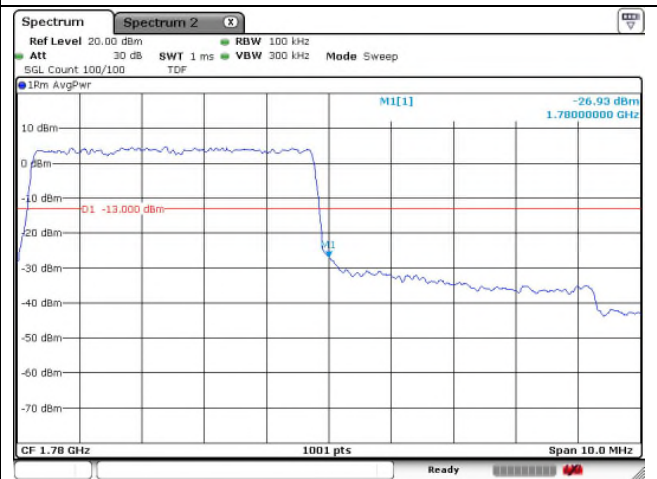
LTE band 66/4 (5 MHz)



QPSK Low Channel - 1 RB



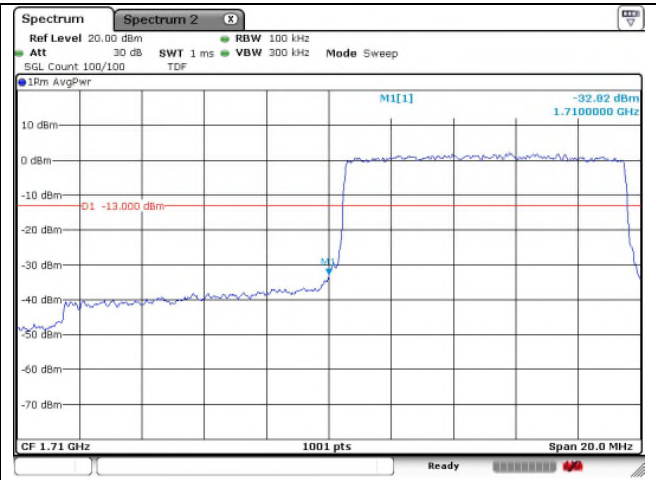
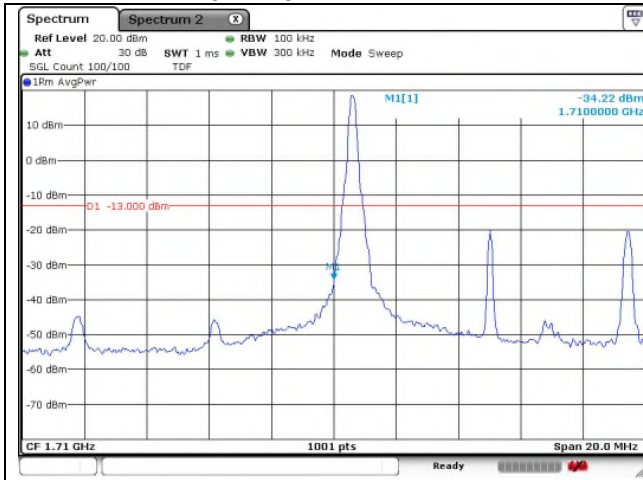
QPSK Low Channel - Full RB



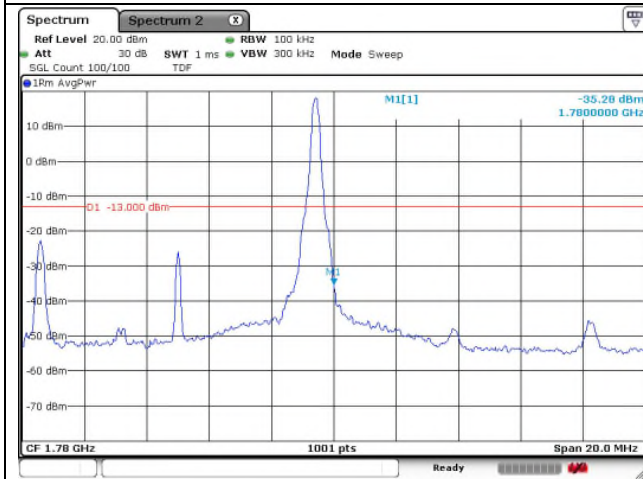
QPSK High Channel - 1 RB

QPSK High Channel - Full RB

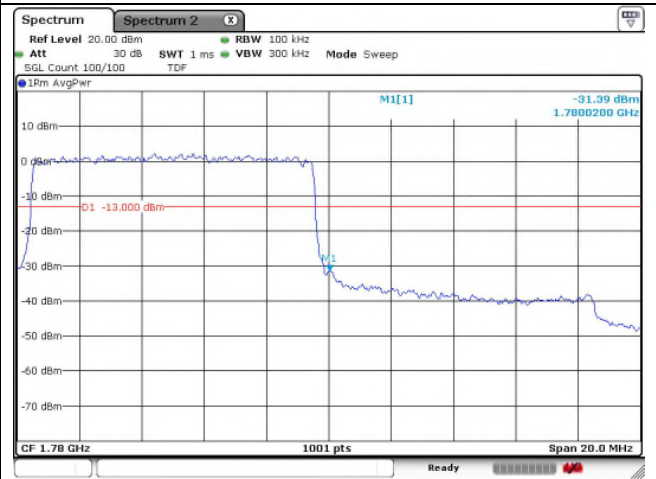
LTE band 66/4 (10 MHz)



QPSK Low Channel - 1 RB



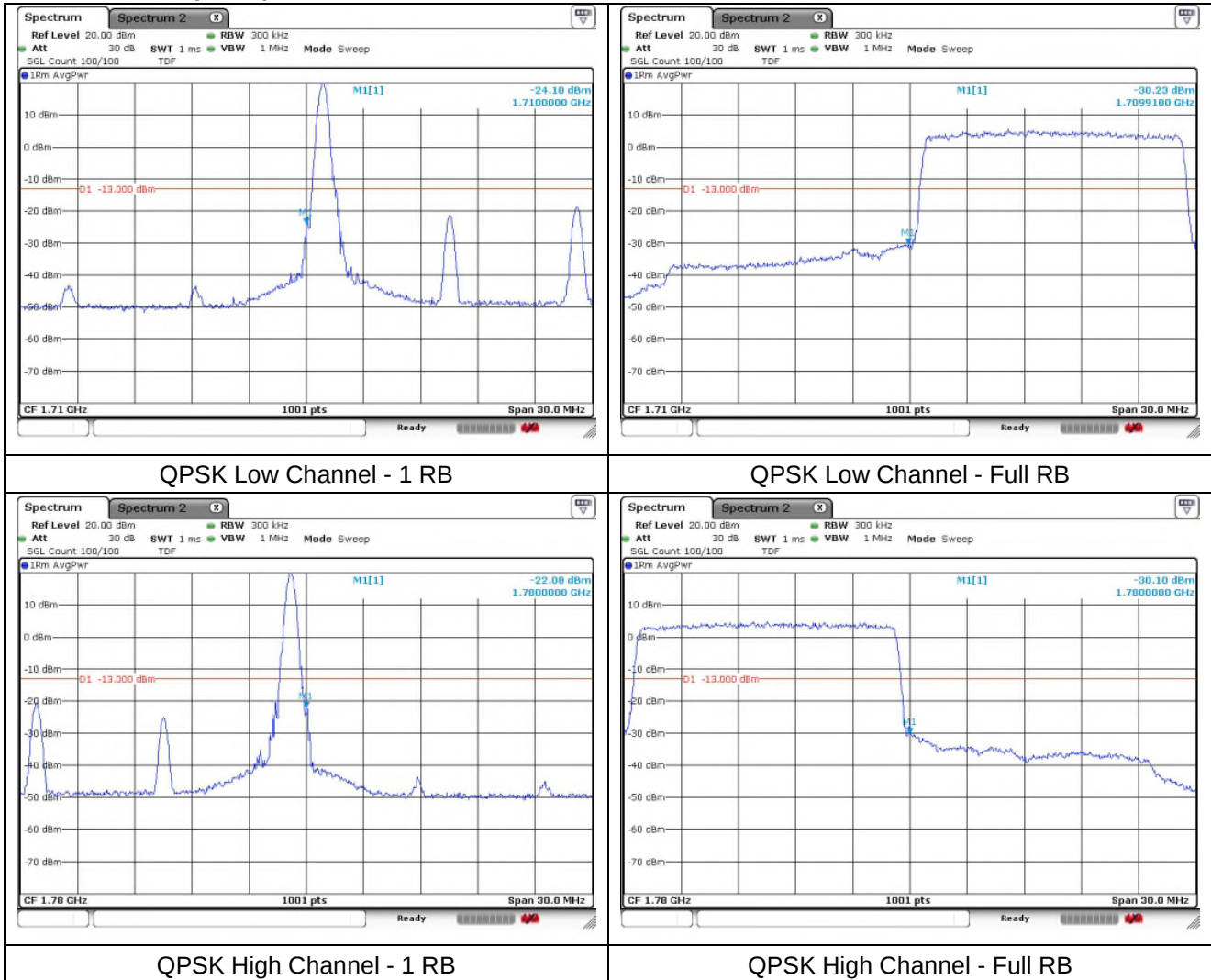
QPSK Low Channel - Full RB



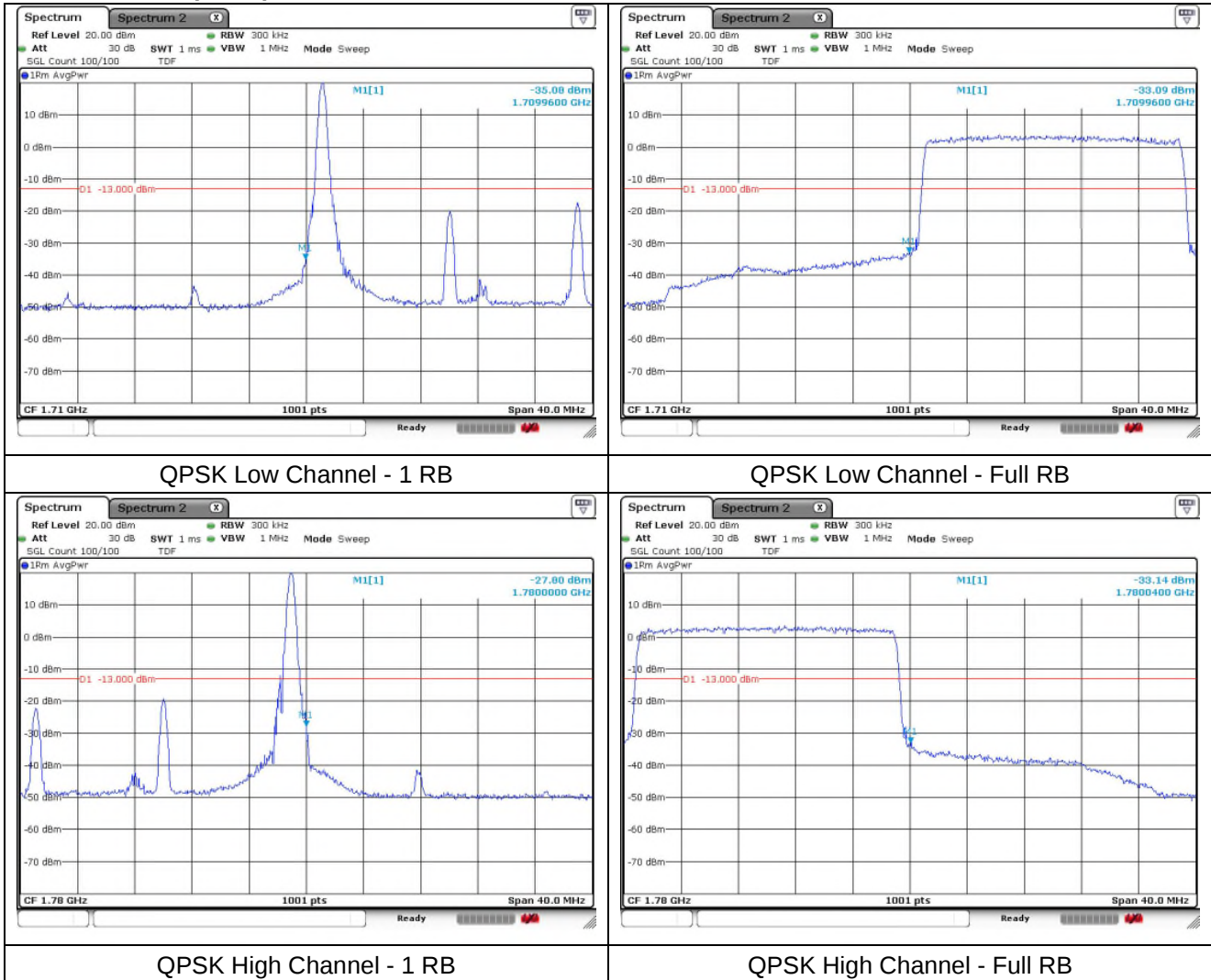
QPSK High Channel - 1 RB

QPSK High Channel - Full RB

LTE band 66/4 (15 MHz)



LTE band 66/4 (20 MHz)



7. Frequency Stability

7.1. Limit

- § 2.1055 (a), § 2.1055 (d) & following:

- §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table of this section.

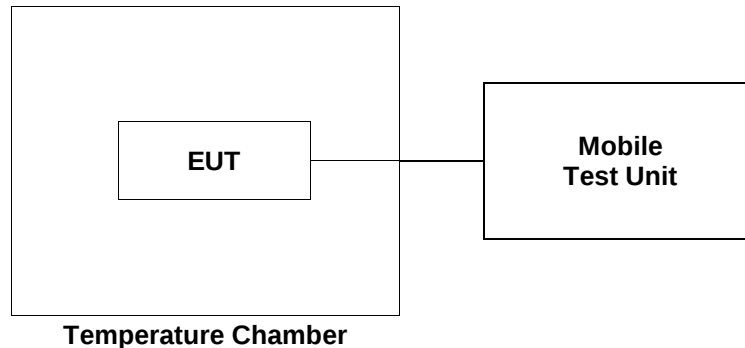
For Mobile devices operating in the 824 to 849 MHz band at a power level less than or equal to 3 Watts, the limit specified in Table C-1 is +/- 2.5 ppm.

- §24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

- §27.54, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

7.2. Test Procedure

1. Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a Mobile Test Unit via feed-through attenuators.
2. The EUT was placed inside the temperature chamber.
3. After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from Mobile Test Unit.



7.3. Test Results

Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

LTE band 2 at middle channel

Reference Frequency: 1 880.0 MHz			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (V _{dc})	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	3.8	-2.92	-0.001 6
40		-2.44	-0.001 3
30		-2.87	-0.001 5
23		-3.59	-0.001 9
10		-3.61	-0.001 9
0		-2.48	-0.001 3
-10		-2.87	-0.001 5
-20		-1.45	-0.000 8
-30		-1.88	-0.001 0
Frequency Stability versus Power Supply			
Environment Temperature (°C)	Power Supplied (V _{dc})	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
23	4.37	-1.11	-0.000 6
	3.23	-2.54	-0.001 4

LTE band 5 at middle channel

Reference Frequency: 836.5 MHz			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (V _{dc})	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	3.8	-1.07	-0.001 3
40		-1.11	-0.001 3
30		0.46	0.000 5
23		-0.94	-0.001 1
10		-1.11	-0.001 3
0		0.37	0.000 4
-10		-0.33	-0.000 4
-20		0.54	0.000 6
-30		0.21	0.000 3
Frequency Stability versus Power Supply			
Environment Temperature (°C)	Power Supplied (V _{dc})	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
23	4.37	-1.24	-0.001 5
	3.23	0.71	0.000 8

LTE band 13 at middle channel

Reference Frequency: 782 MHz			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (V _{dc})	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	3.8	2.21	0.002 8
40		1.49	0.001 9
30		1.61	0.002 1
23		0.33	0.000 4
10		0.45	0.000 6
0		-0.61	-0.000 8
-10		-1.57	-0.002 0
-20		-1.24	-0.001 6
-30		-2.02	-0.002 6
Frequency Stability versus Power Supply			
Environment Temperature (°C)	Power Supplied (V _{dc})	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
23	4.37	2.01	0.002 6
	3.23	-1.48	-0.001 9

LTE band 66/4 at middle channel

Reference Frequency: 1 745 MHz			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (V _{dc})	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	3.8	-2.44	-0.001 4
40		-3.16	-0.001 8
30		-4.28	-0.002 5
23		-3.92	-0.002 2
10		-1.28	-0.000 7
0		-2.24	-0.001 3
-10		-3.36	-0.001 9
-20		-2.85	-0.001 6
-30		-2.21	-0.001 3
Frequency Stability versus Power Supply			
Environment Temperature (°C)	Power Supplied (V _{dc})	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
23	4.37	-3.22	-0.001 8
	3.23	-1.47	-0.000 8

- End of the Test Report -