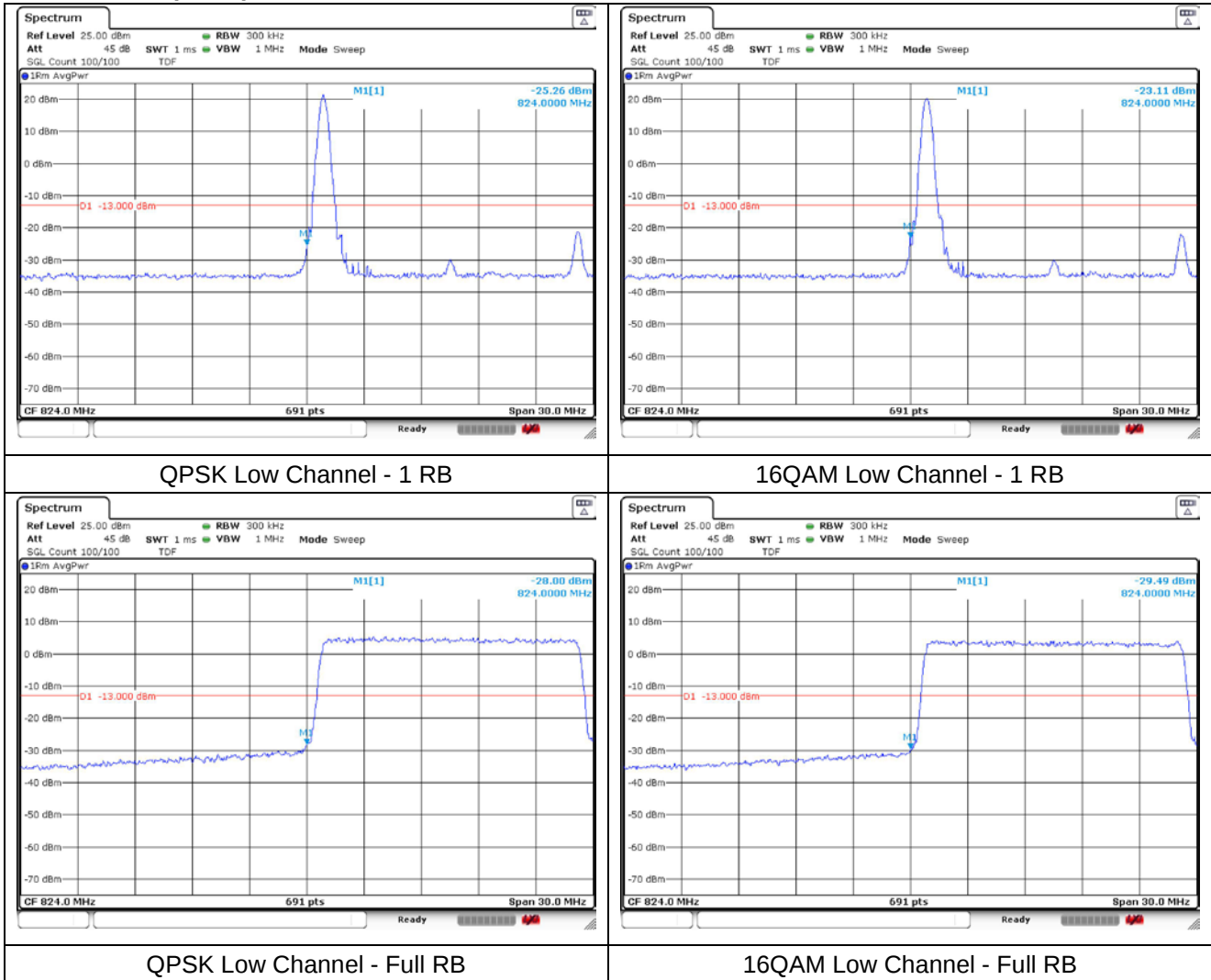
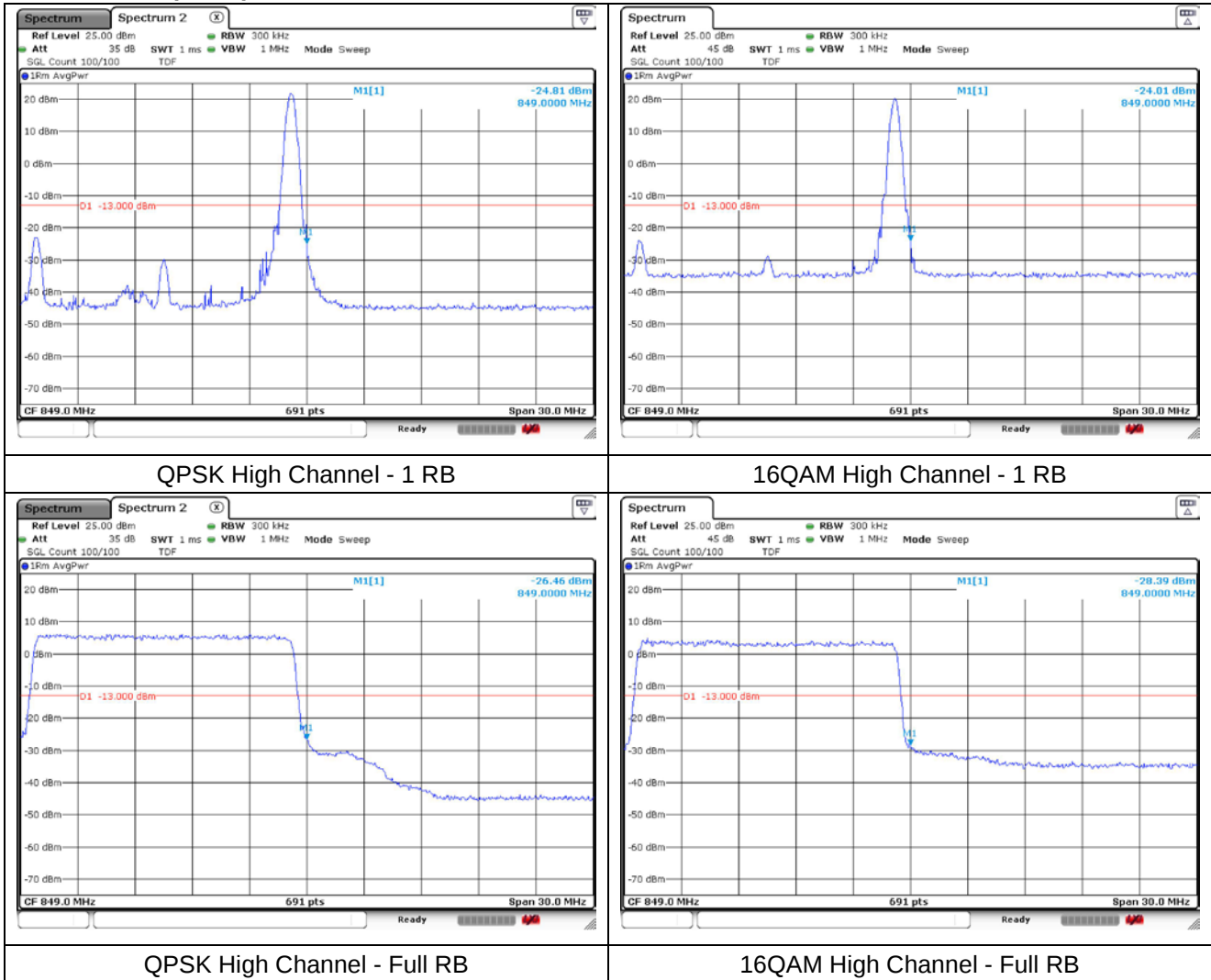


LTE band 26 (15 MHz)



LTE band 26 (15 MHz)



8. Frequency Stability

8.1. Limit

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

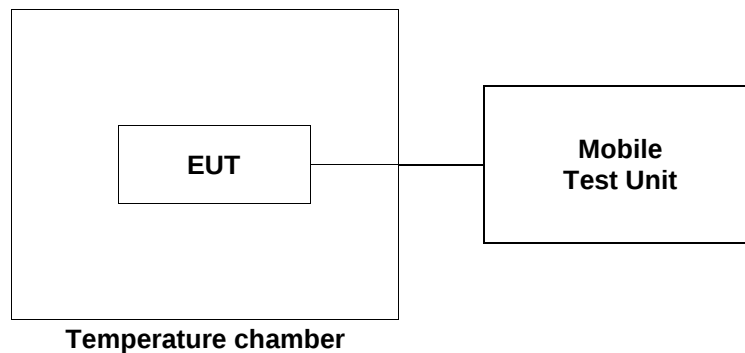
- §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table of this section.

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.

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

8.2. 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.



8.3. Test Results

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

LTE band 7 at middle channel

Operating Frequency: 2 535.0 MHz			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (V)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	12.0	-3.95	0.000 37
40		-3.16	0.000 68
30		-3.45	0.000 56
20 (Ref.)		-4.88	-
10		-2.26	0.001 03
0		-1.87	0.001 19
-10		-1.10	0.001 49
-20		-2.35	0.001 00
-30		-3.12	0.000 69
Frequency Stability versus Power Supply			
Environment Temperature (°C)	Power Supplied (V)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
20	13.8	-1.56	0.001 31
	10.2	-2.93	0.000 77

LTE band 26/5 at middle channel

Operating Frequency: 836.5 MHz			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (V)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	12.0	-0.30	0.000 63
40		-0.69	0.000 17
30		-1.16	-0.000 39
20 (Ref.)		-0.83	-
10		1.16	0.002 38
0		-0.54	0.000 35
-10		-0.92	-0.000 11
-20		0.24	0.001 28
-30		0.64	0.001 76
Frequency Stability versus Power Supply			
Environment Temperature (°C)	Power Supplied (V)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
20	13.8	0.46	0.001 54
	10.2	0.13	0.001 15

- End of the Test Report -