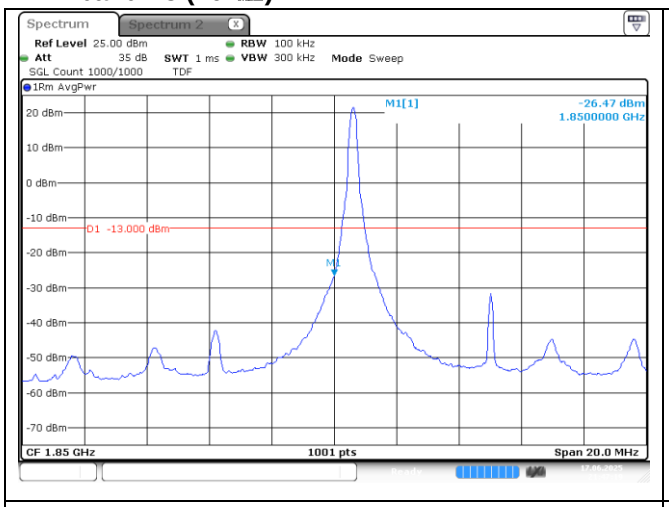
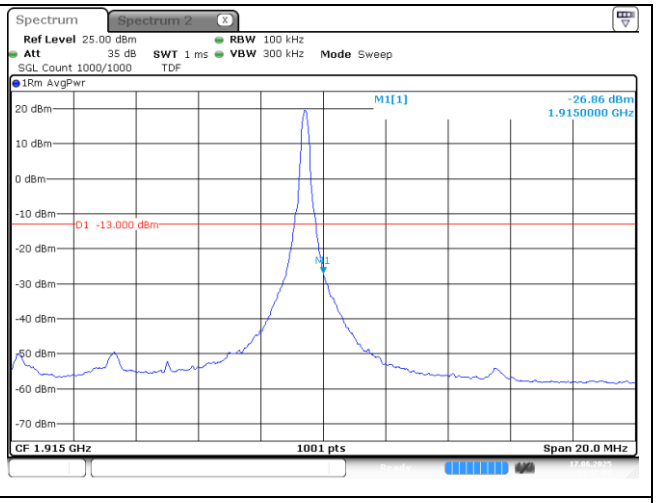
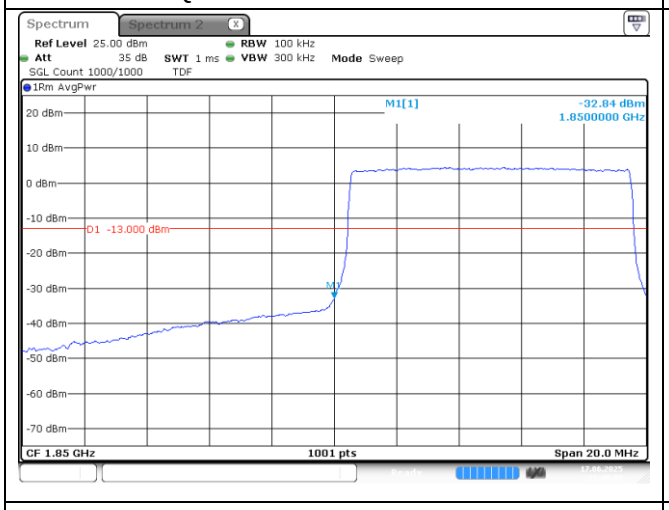
LTE band 25 (10 ㎒)



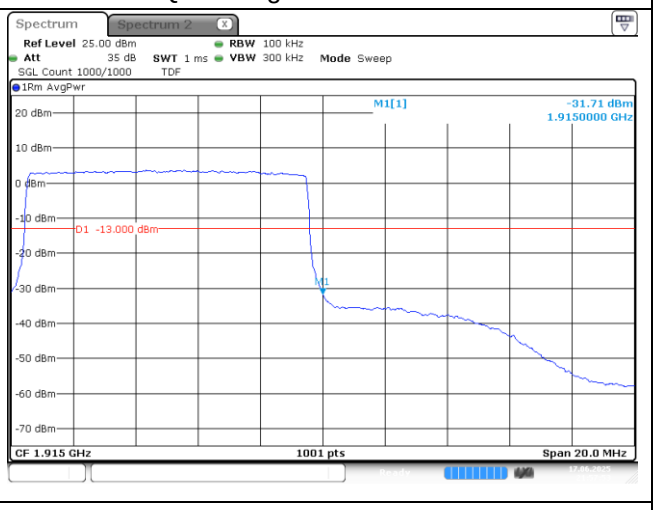
QPSK Low Channel - 1 RB



QPSK High Channel - 1 RB

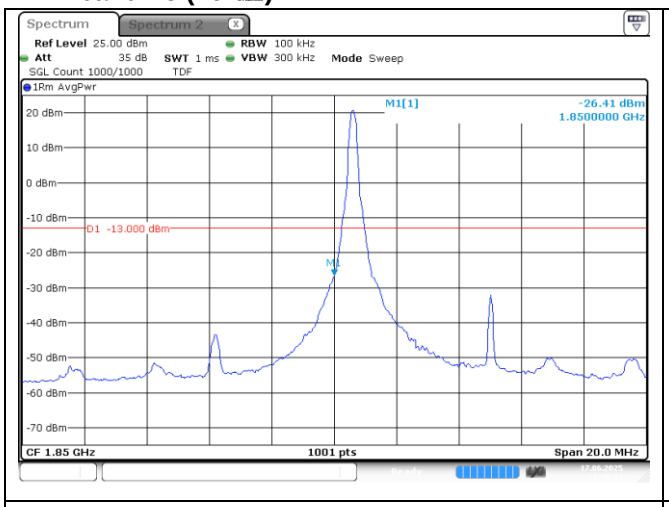


QPSK Low Channel - Full RB

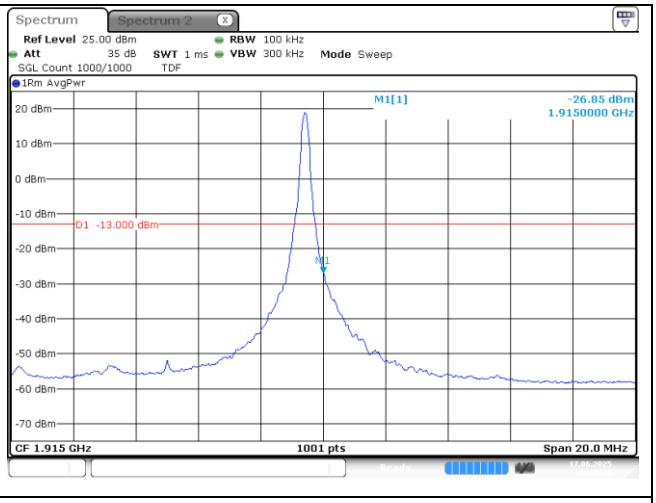


QPSK High Channel - Full RB

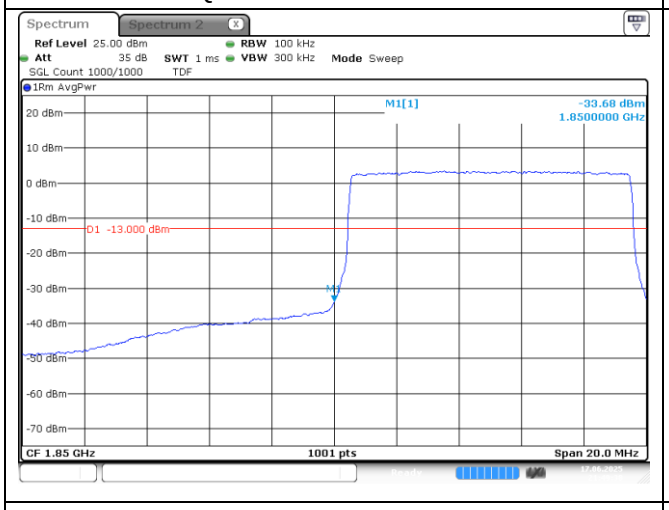
LTE band 25 (10 ㎒)



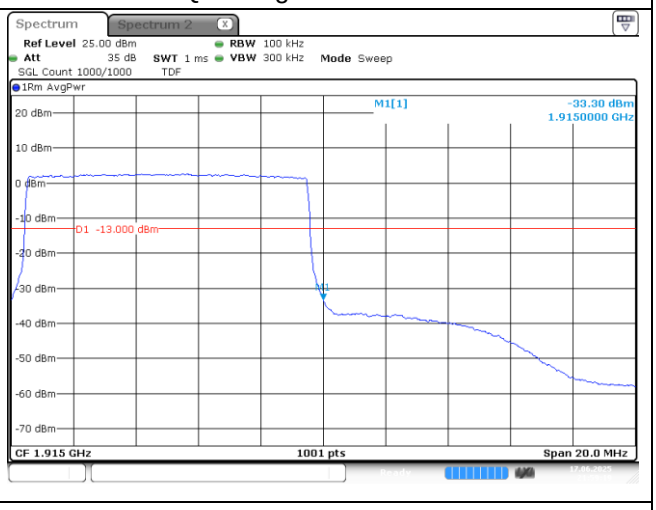
16QAM Low Channel - 1 RB



16QAM High Channel - 1 RB

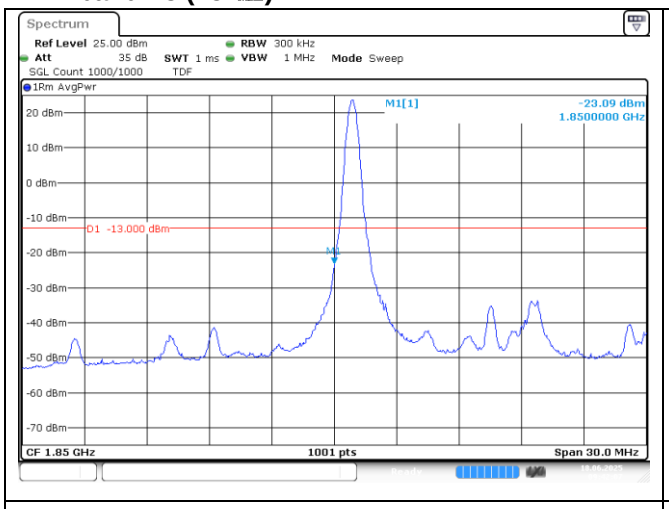


16QAM Low Channel - Full RB

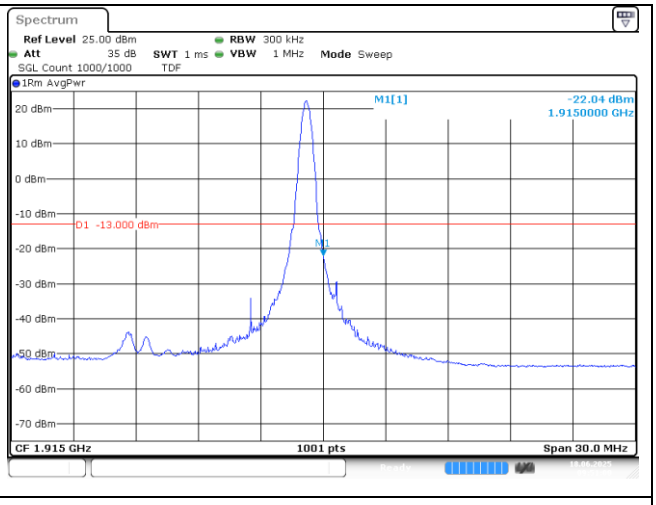


16QAM High Channel - Full RB

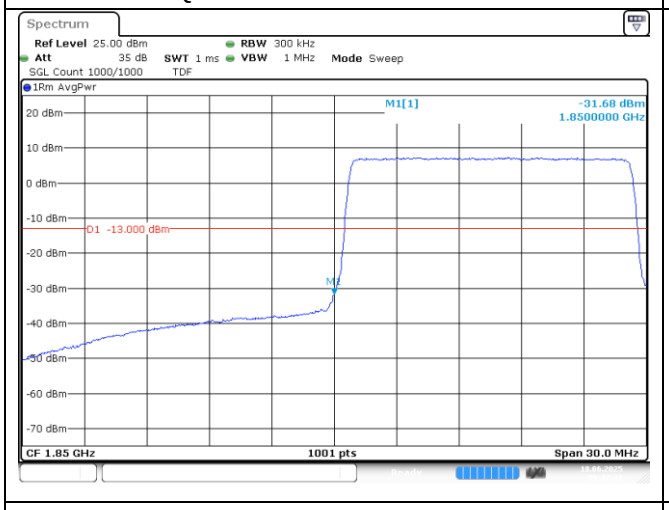
LTE band 25 (15 ㎒)



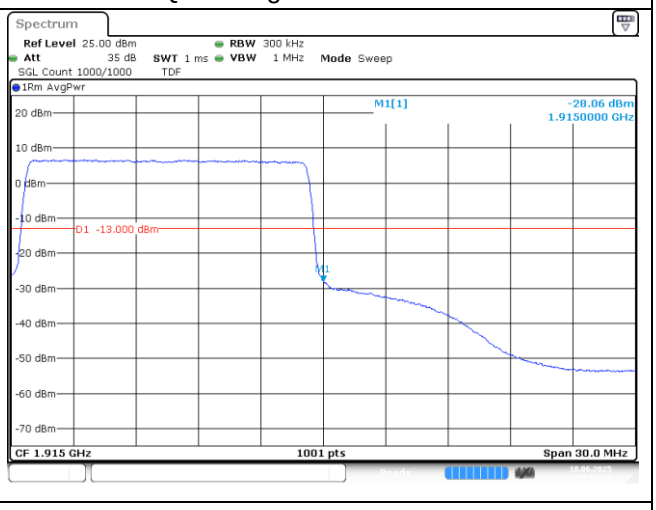
QPSK Low Channel - 1 RB



QPSK High Channel - 1 RB

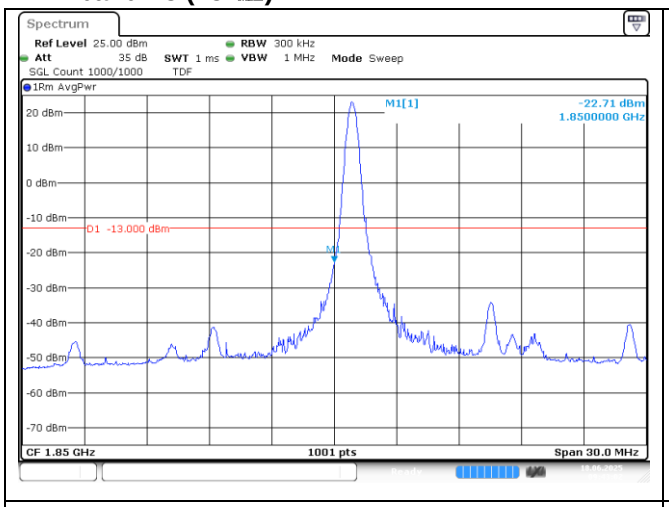


QPSK Low Channel - Full RB

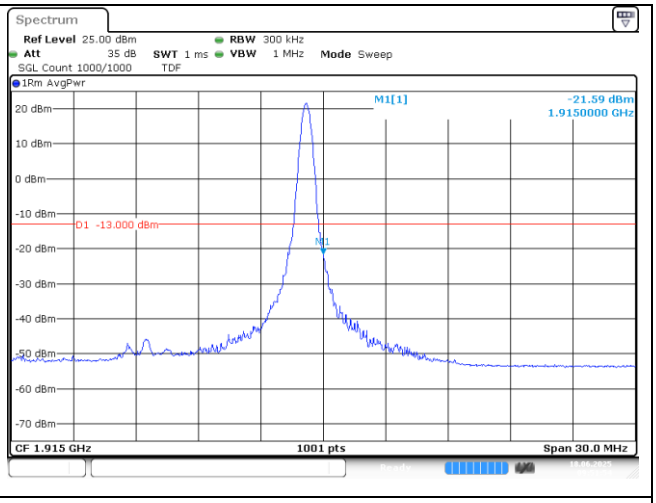


QPSK High Channel - Full RB

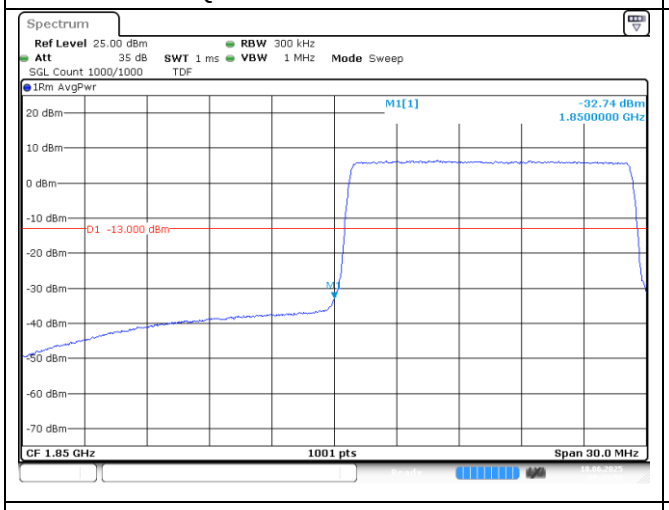
LTE band 25 (15 ㎒)



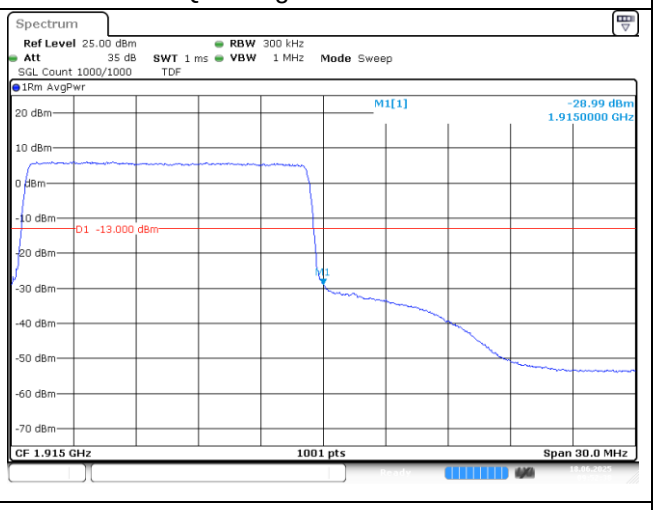
16QAM Low Channel - 1 RB



16QAM High Channel - 1 RB

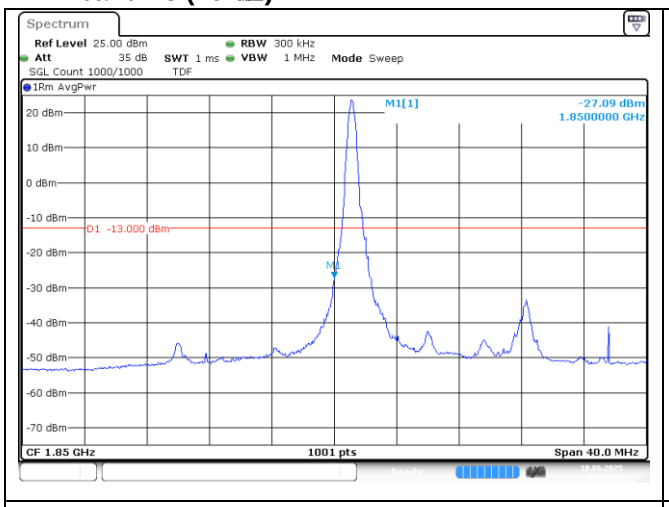


16QAM Low Channel - Full RB

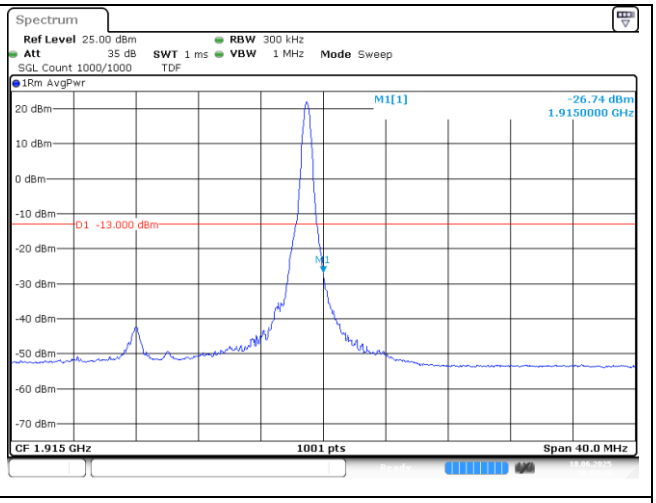


16QAM High Channel - Full RB

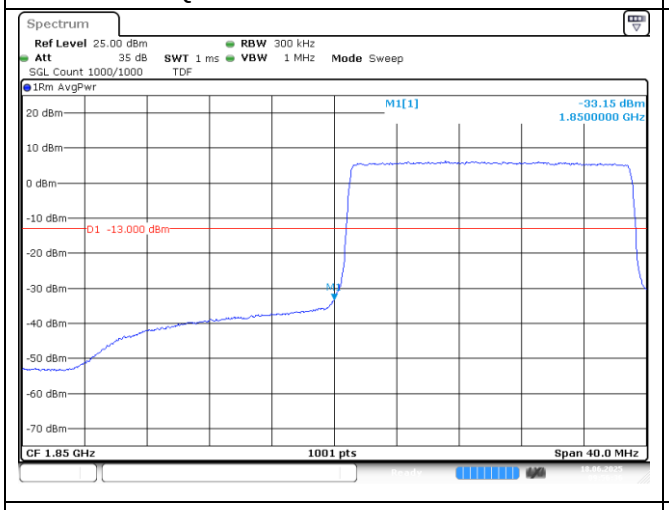
LTE band 25 (20 ㎒)



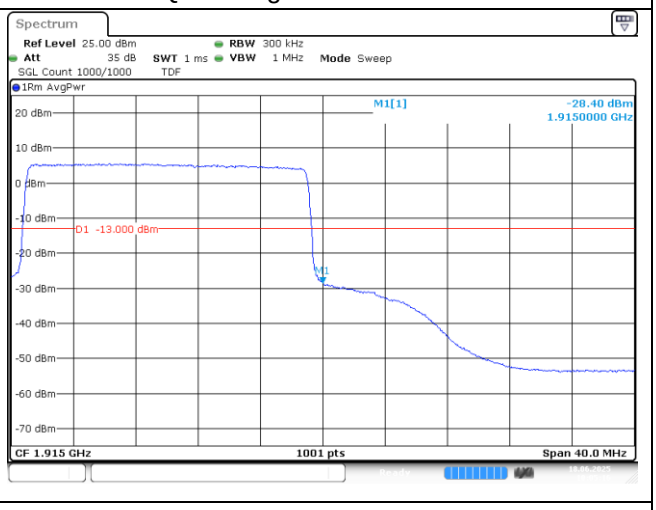
QPSK Low Channel - 1 RB



QPSK High Channel - 1 RB

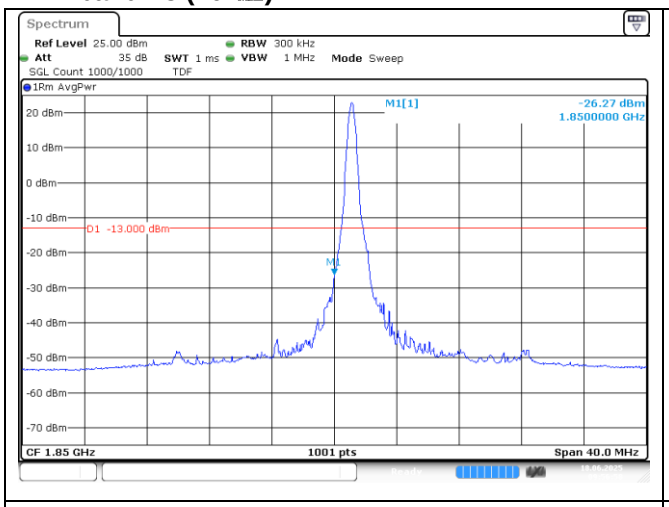


QPSK Low Channel - Full RB



QPSK High Channel - Full RB

LTE band 25 (20 ㎒)



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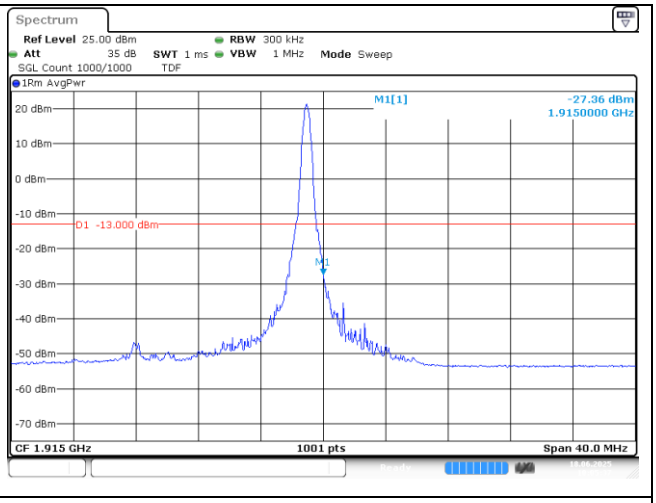

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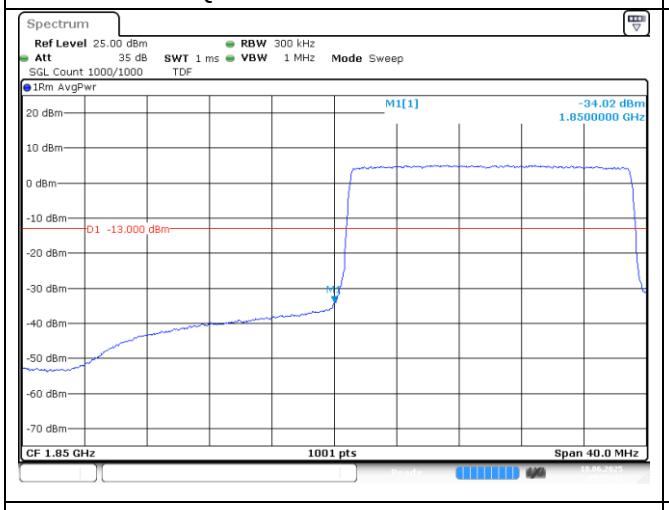

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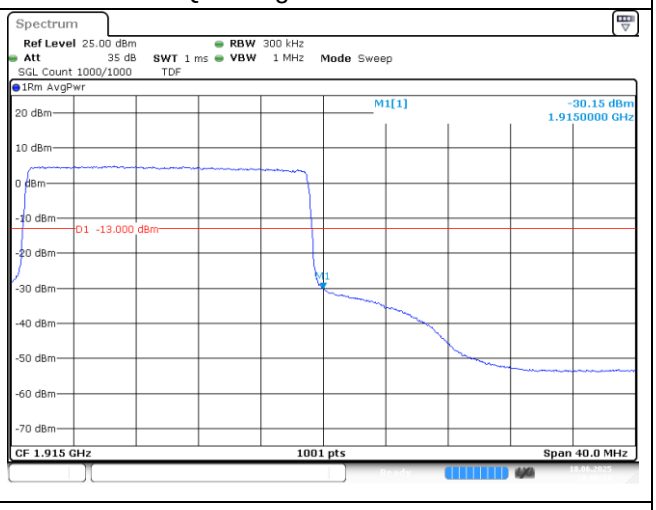
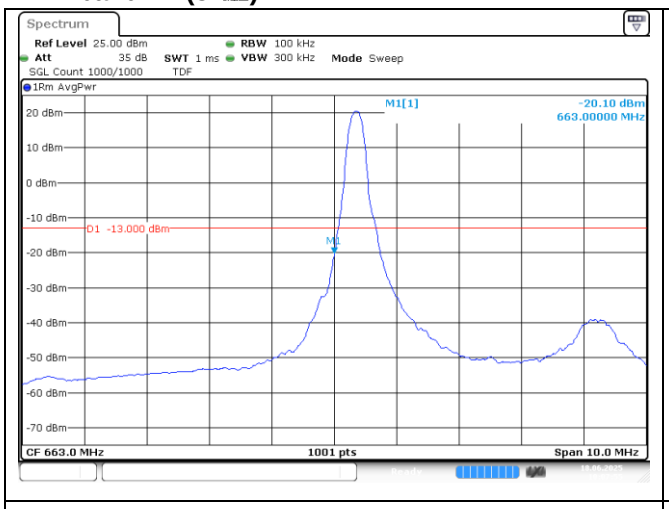
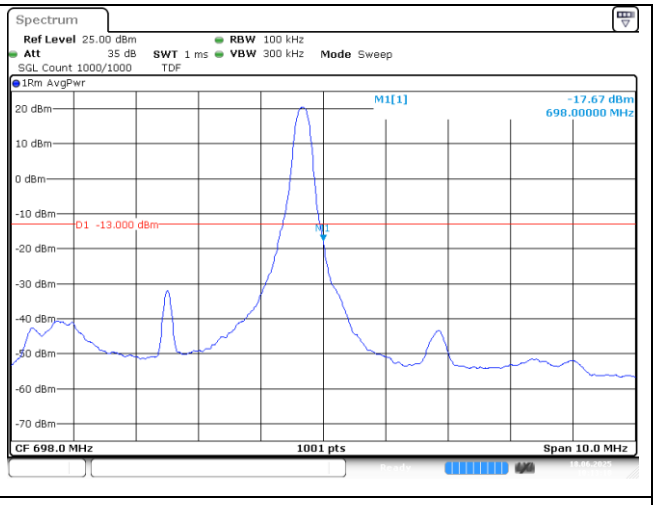


16QAM High Channel - Full RB

LTE band 71 (5 ㎒)



QPSK Low Channel - 1 RB



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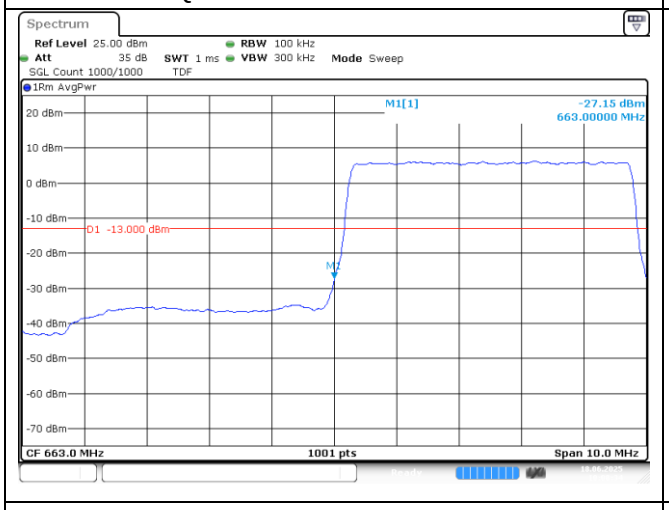
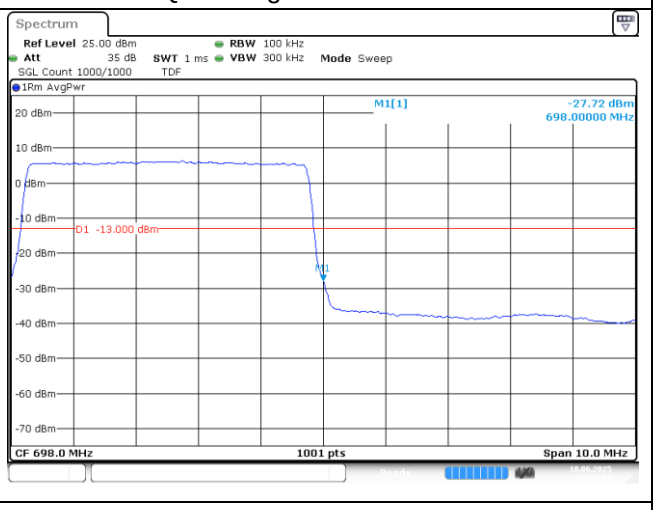
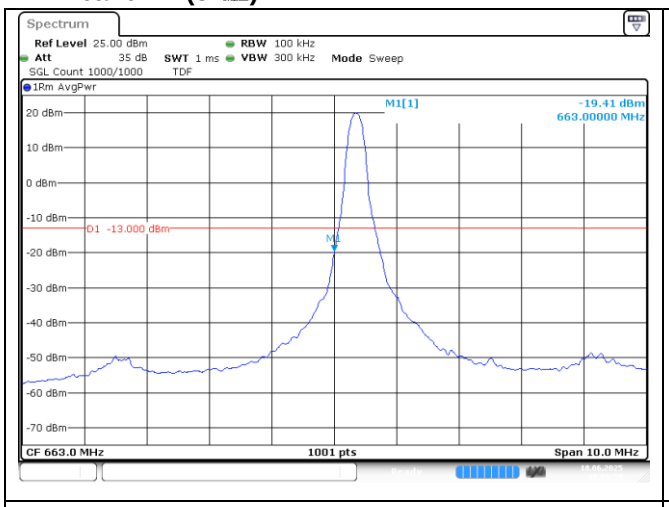


QPSK Low Channel - Full RB



QPSK High Channel - Full RB

LTE band 71 (5 ㎒)



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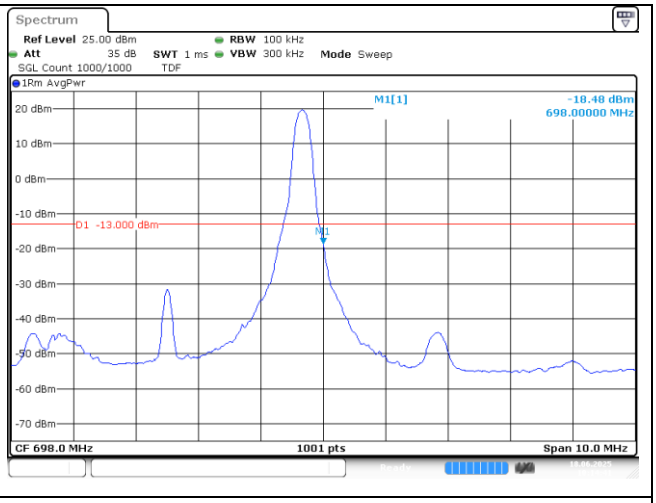

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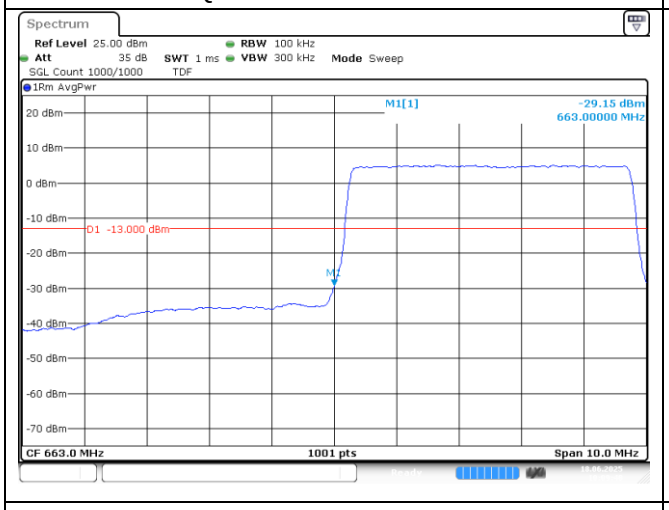

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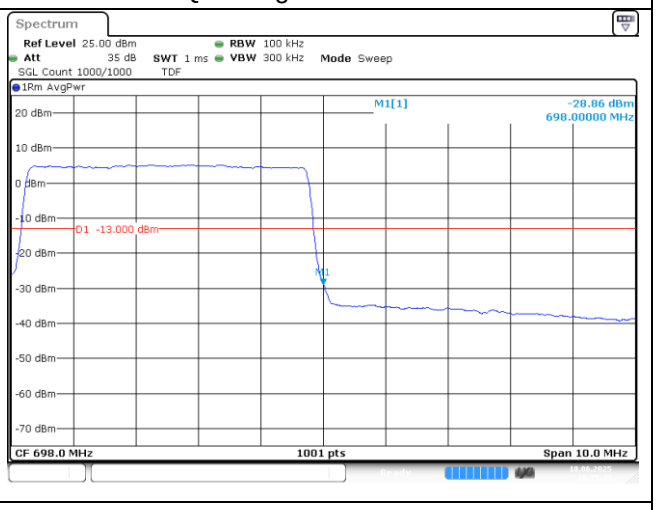
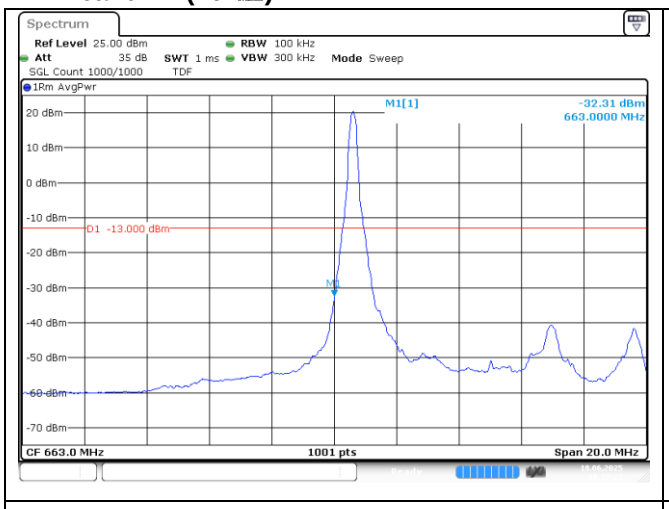
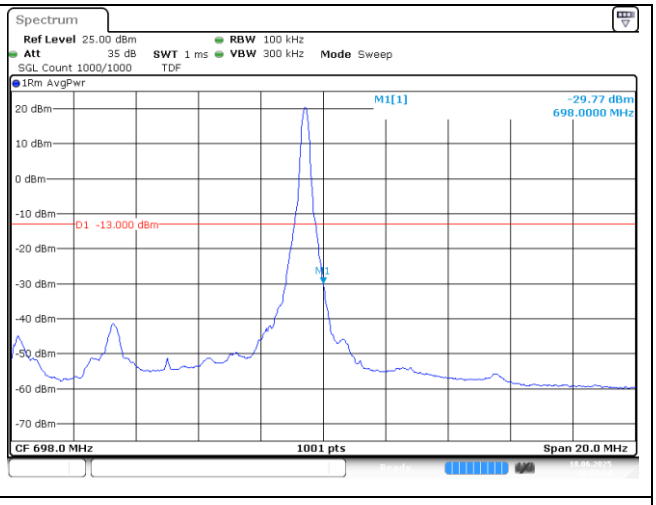


16QAM High Channel - Full RB

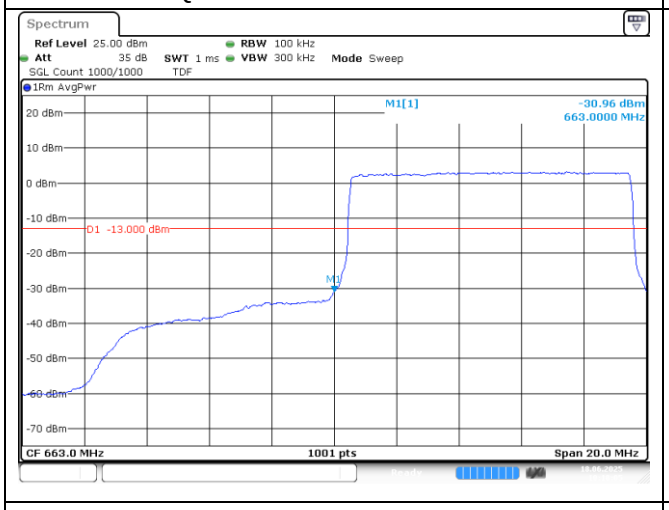
LTE band 71 (10 ㎒)



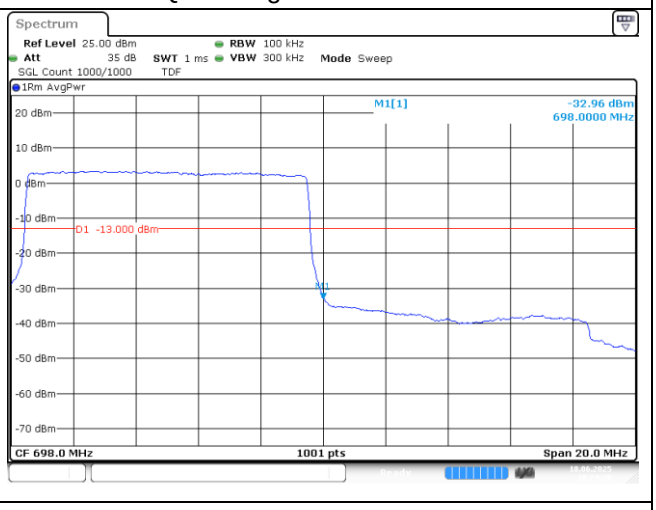
QPSK Low Channel - 1 RB



QPSK High Channel - 1 RB

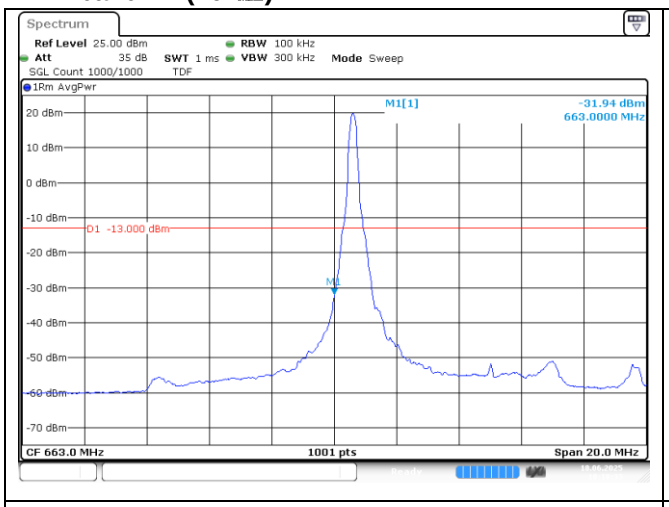


QPSK Low Channel - Full RB

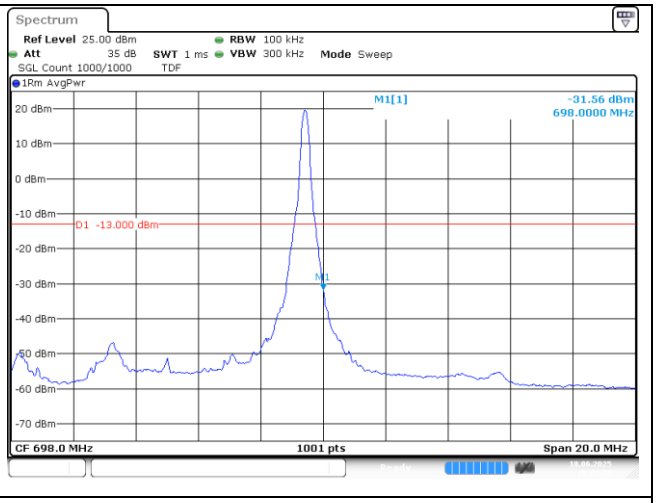


QPSK High Channel - Full RB

LTE band 71 (10 ㎒)



16QAM Low Channel - 1 RB



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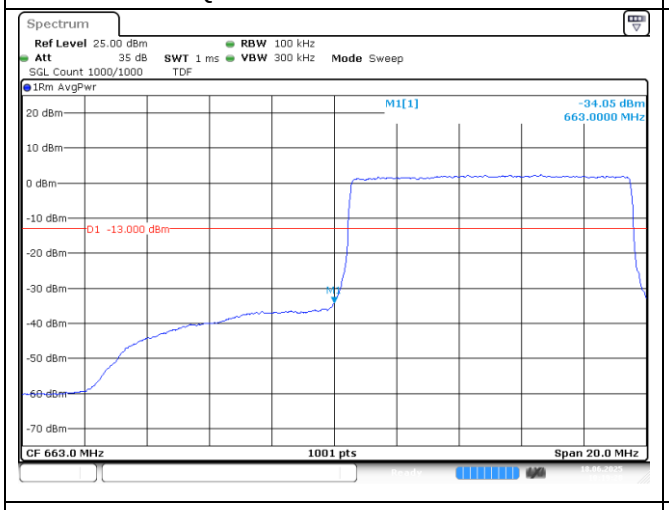
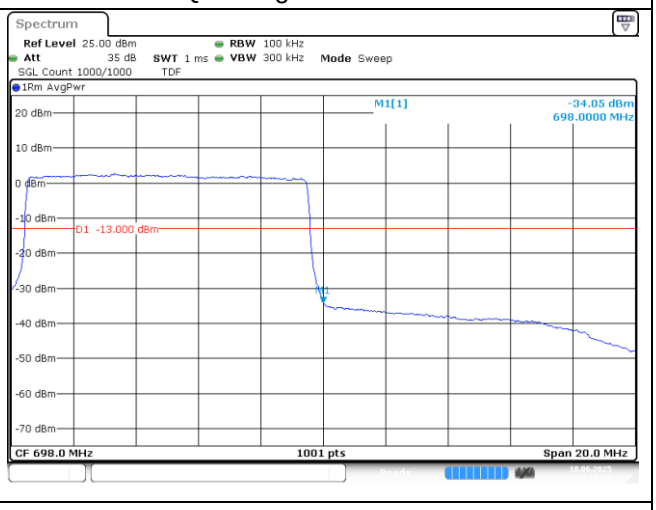
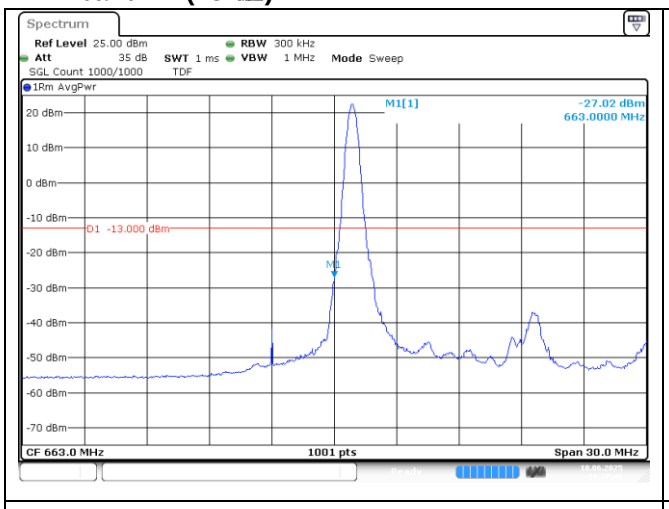


16QAM Low Channel - Full RB

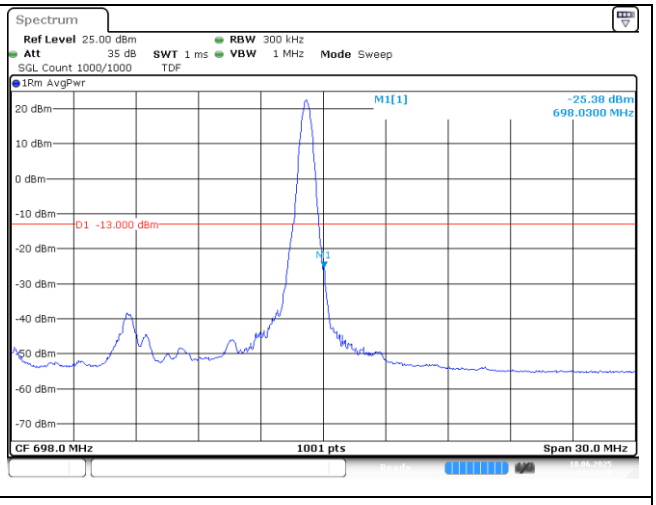


16QAM High Channel - Full RB

LTE band 71 (15 ㎒)



QPSK Low Channel - 1 RB



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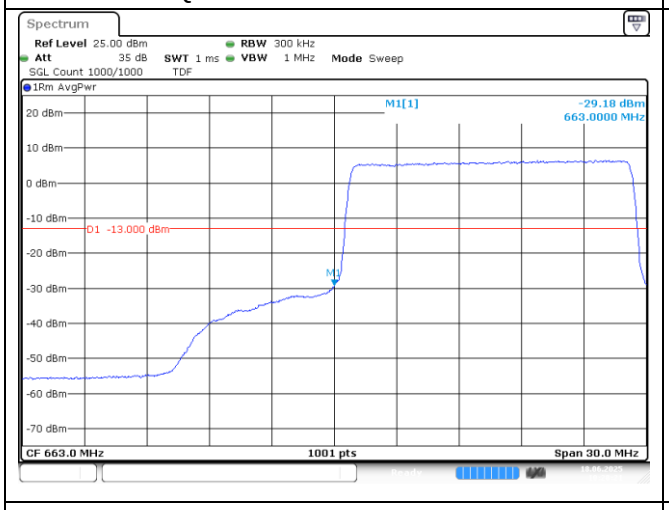
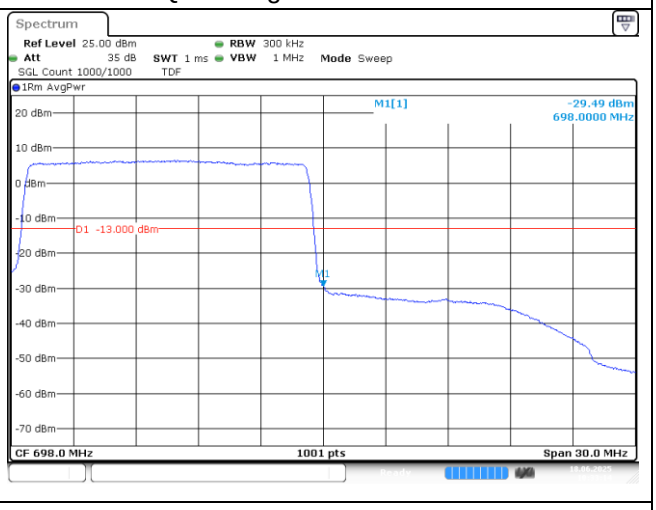
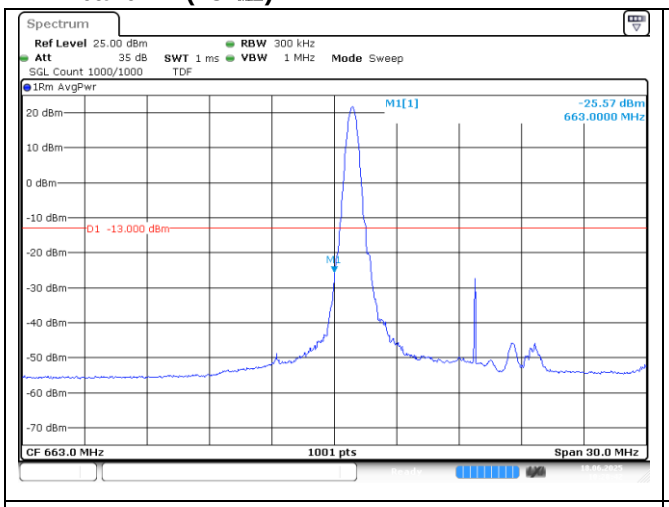


QPSK Low Channel - Full RB



QPSK High Channel - Full RB

LTE band 71 (15 ㎒)



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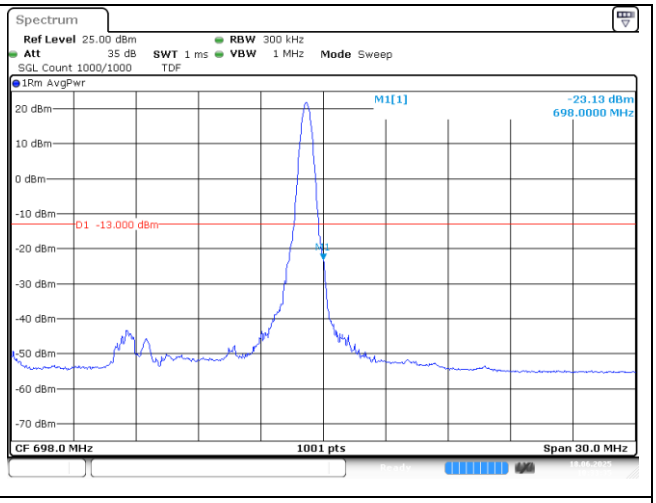

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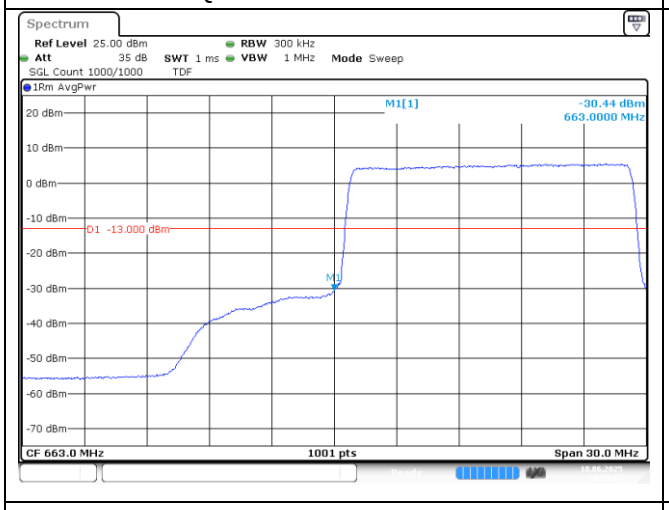
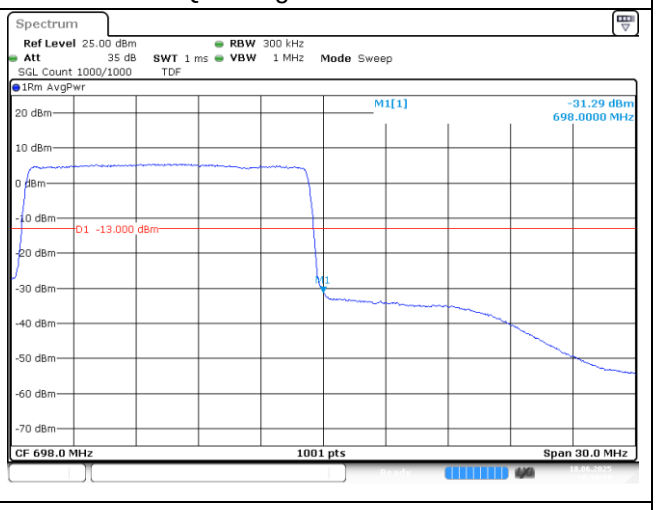
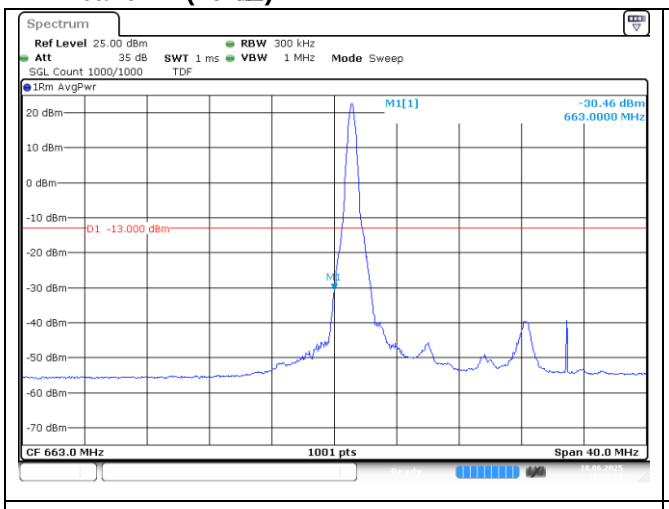


16QAM Low Channel - Full RB

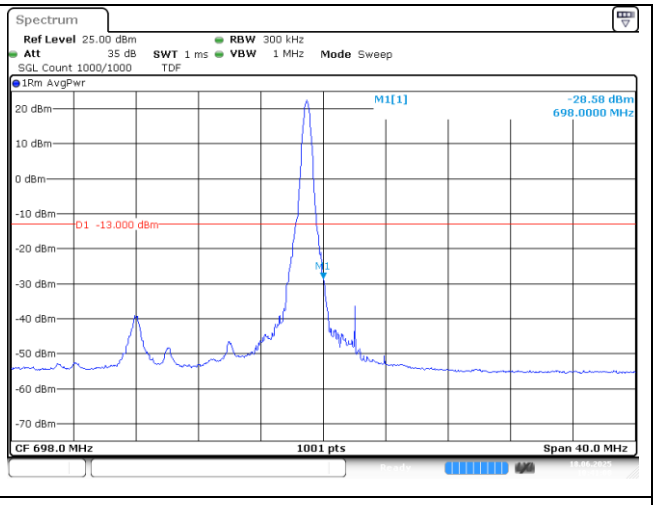


16QAM High Channel - Full RB

LTE band 71 (20 ㎒)



QPSK Low Channel - 1 RB



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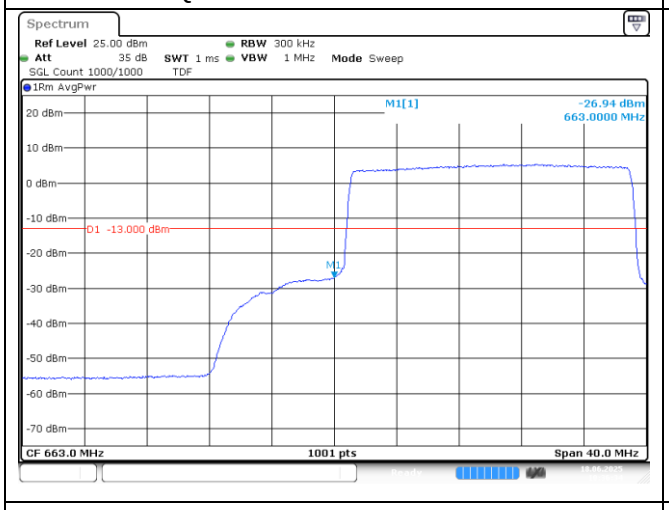
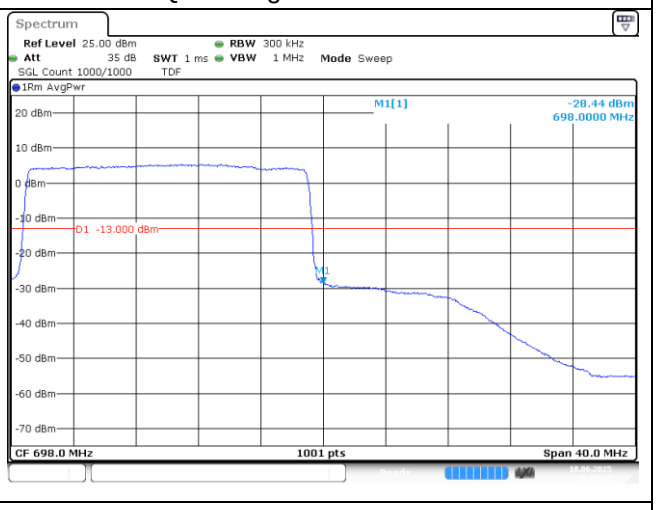
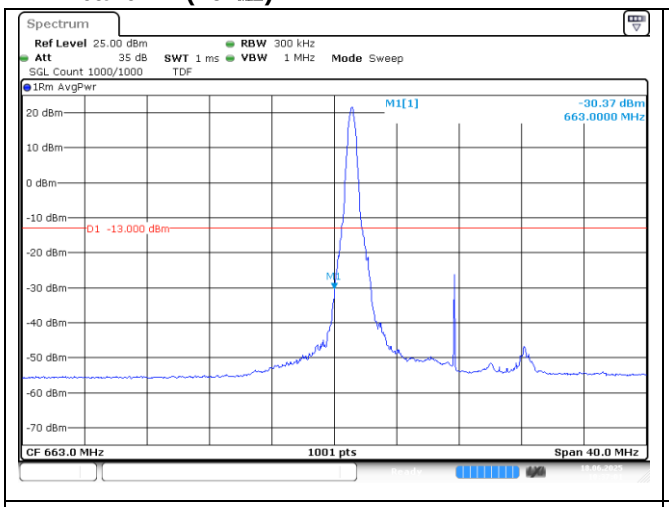


QPSK Low Channel - Full RB

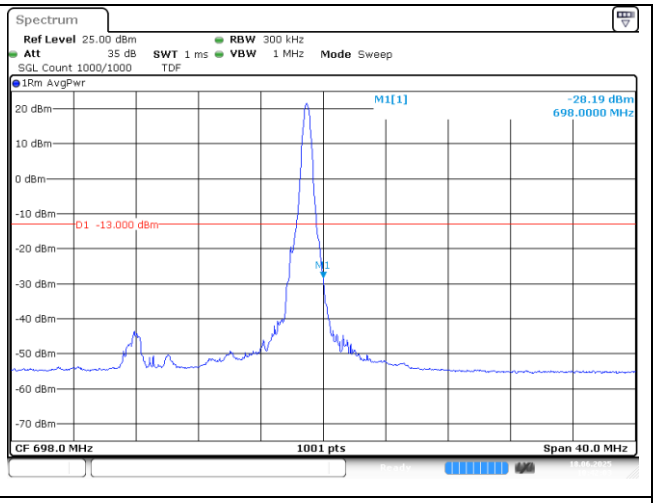


QPSK High Channel - Full RB

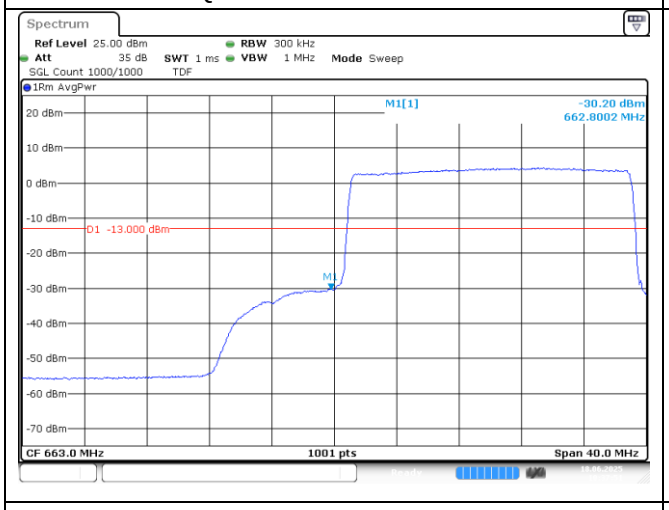
LTE band 71 (20 ㎒)



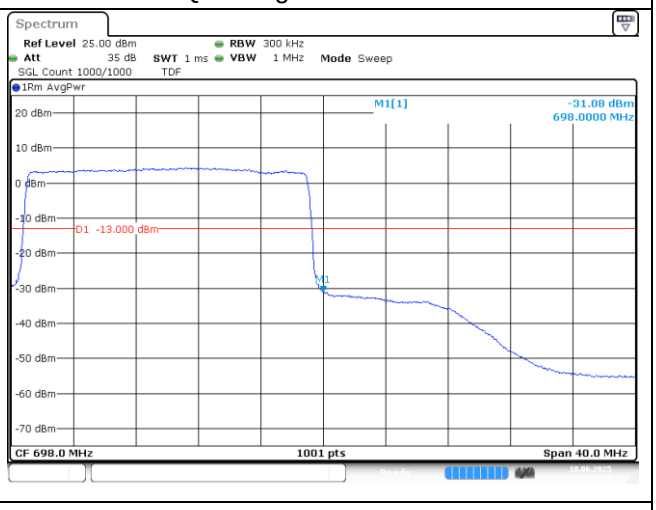
16QAM Low Channel - 1 RB



16QAM High Channel - 1 RB



16QAM Low Channel - Full RB



16QAM High Channel - Full RB

8. Frequency Stability

8.1. Limit

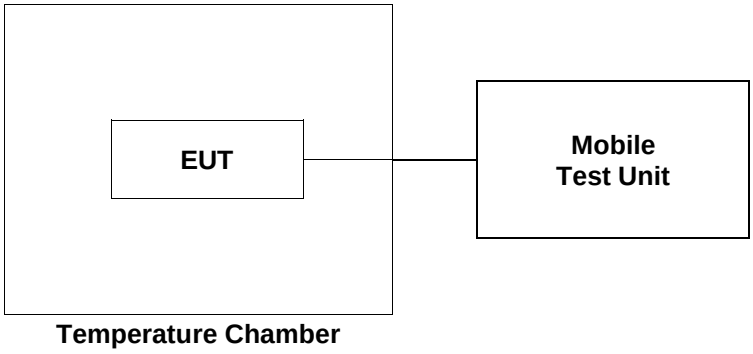
- § 2.1055 (a), § 2.1055 (d) & following:

- §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.

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) ℃
Relative humidity : 47 % R.H.

LTE band 25

Reference Frequency: 1 882.5 ㎒			
Frequency Stability versus Temperature			
Environment Temperature (℃)	**Power Supplied (V)**	**Frequency Measure with Time Elapse**	
		Frequency Error (㎐)	**ppm**
50	3.90	12.44	0.001 86
40		10.18	0.000 66
30		10.64	0.000 91
20(Ref.)		8.93	-
10		7.76	-0.000 62
0		5.28	-0.001 94
-10		6.30	-0.001 40
-20		9.48	0.000 29
-30		9.01	0.000 04
Frequency Stability versus Power Supply			
Environment Temperature (℃)	**Power Supplied (V)**	**Frequency Measure with Time Elapse**	
		Frequency Error (㎐)	**ppm**
20	3.315 (85%)	10.62	0.000 90
	4.485 (115%)	11.63	0.001 43

LTE band 71

Reference Frequency: 680.5 ㎒			
Frequency Stability versus Temperature			
Environment Temperature (℃)	**Power Supplied (V)**	**Frequency Measure with Time Elapse**	
		Frequency Error (㎐)	**ppm**
50	3.90	7.32	0.001 06
40		5.58	-0.001 50
30		9.40	0.004 11
20(Ref.)		6.60	-
10		3.94	-0.003 91
0		8.49	0.002 78
-10		9.52	0.004 29
-20		5.95	-0.000 96
-30		7.02	0.000 62
Frequency Stability versus Power Supply			
Environment Temperature (℃)	**Power Supplied (V)**	**Frequency Measure with Time Elapse**	
		Frequency Error (㎐)	**ppm**
20	3.315 (85%)	8.69	0.003 07
	4.485 (115%)	7.05	0.000 66

- End of the Test Report -