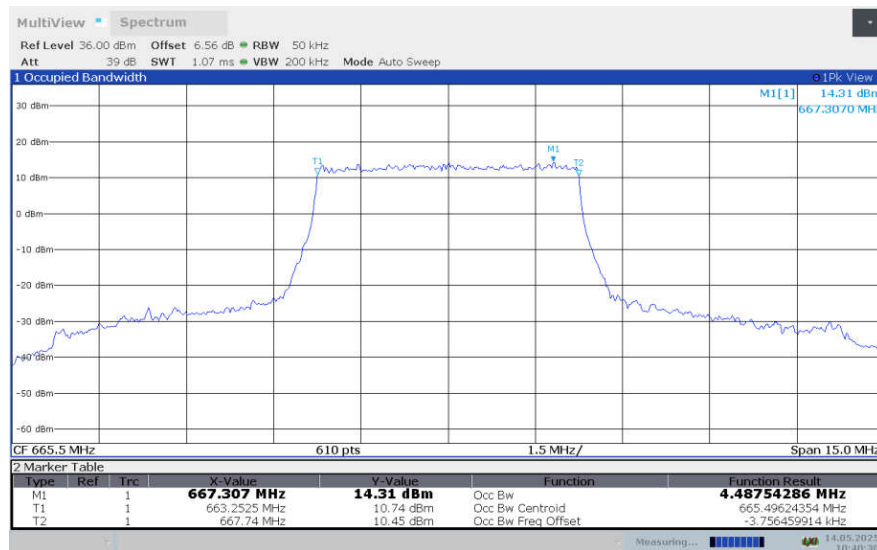


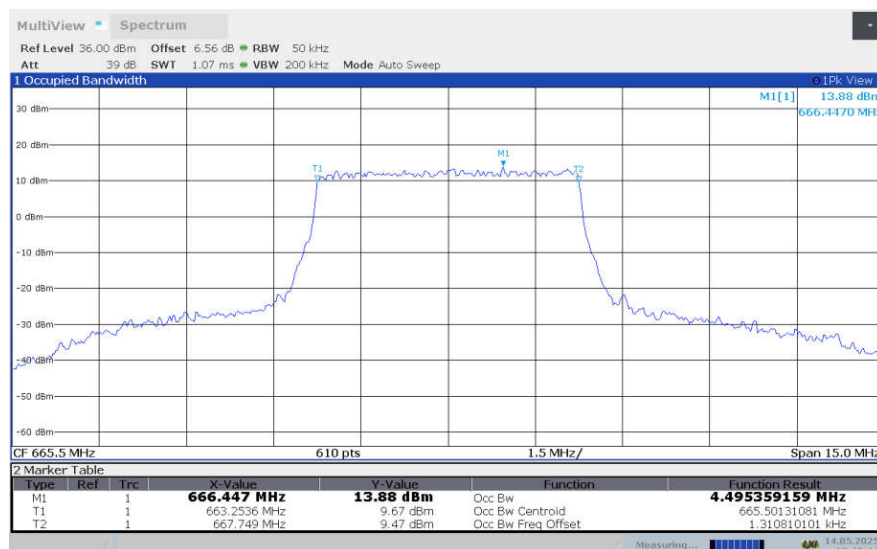
LTE band 71,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
665.5	4.488	4.495	4.500	4.496
680.5	4.494	4.498	4.495	4.509
695.5	4.490	4.495	4.499	4.505

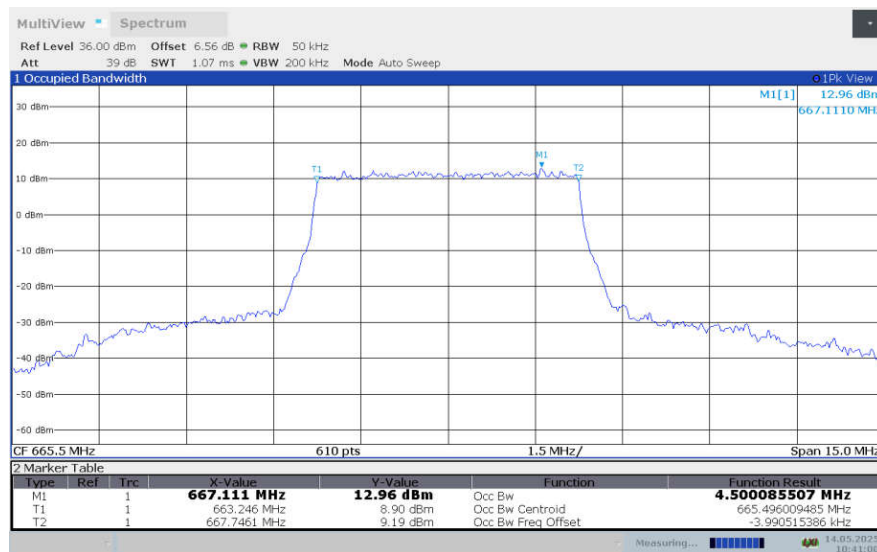
LTE band 71 , 5MHz Bandwidth,LOW,QPSK (99% BW)



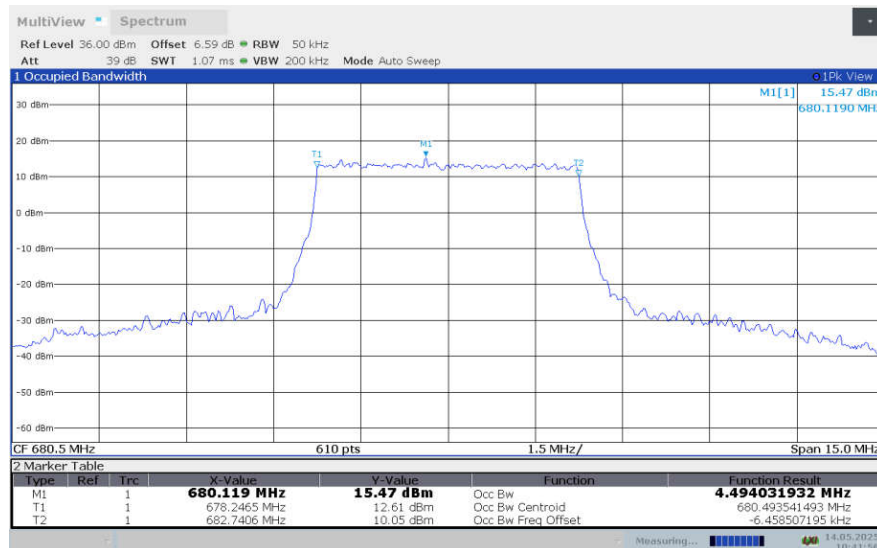
LTE band 71 , 5MHz Bandwidth,LOW,16QAM (99% BW)



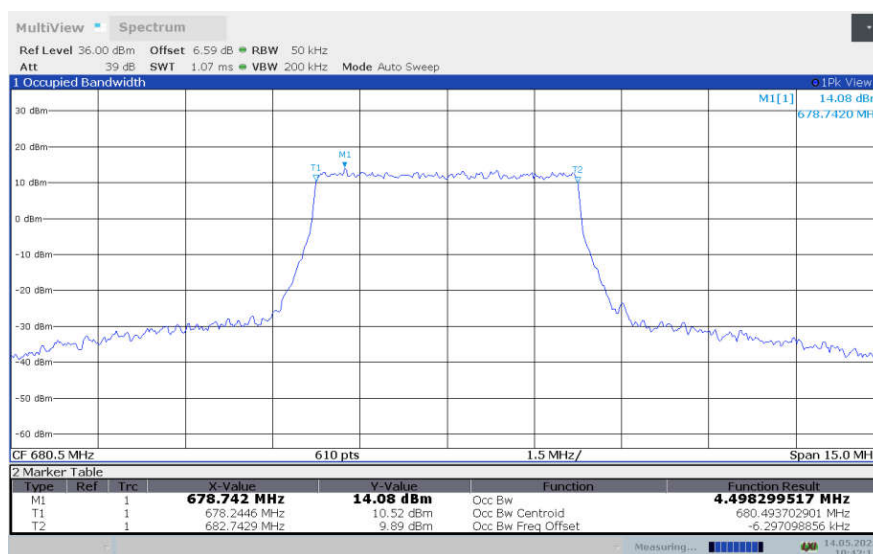
LTE band 71 , 5MHz Bandwidth,LOW,64QAM (99% BW)



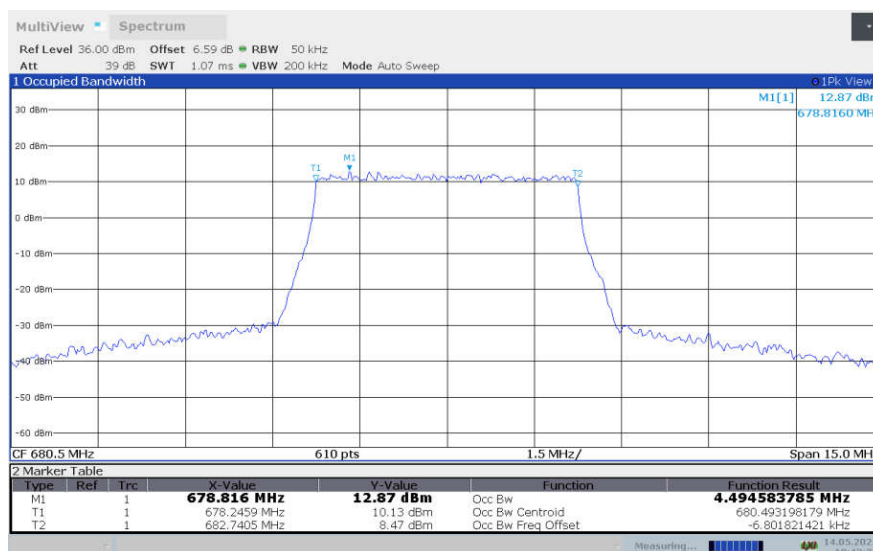
LTE band 71 , 5MHz Bandwidth,MID,QPSK (99% BW)



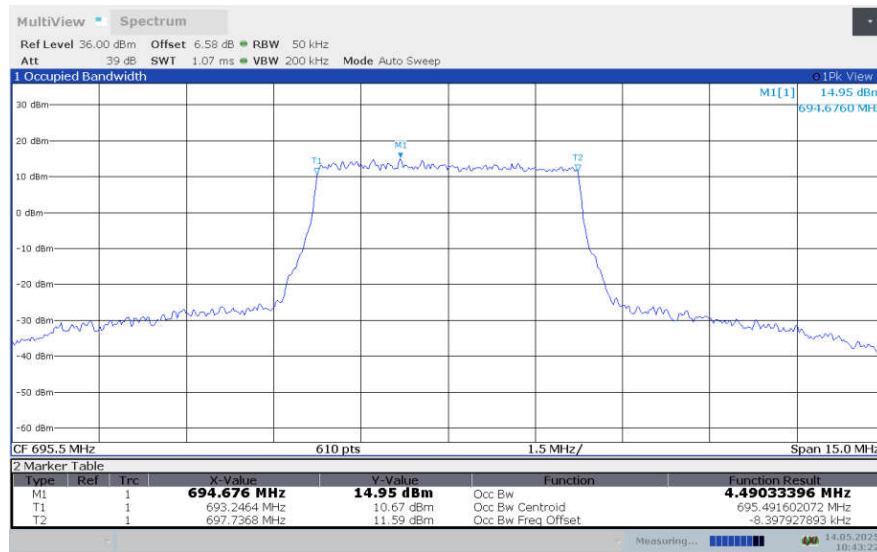
LTE band 71 , 5MHz Bandwidth,MID,16QAM (99% BW)



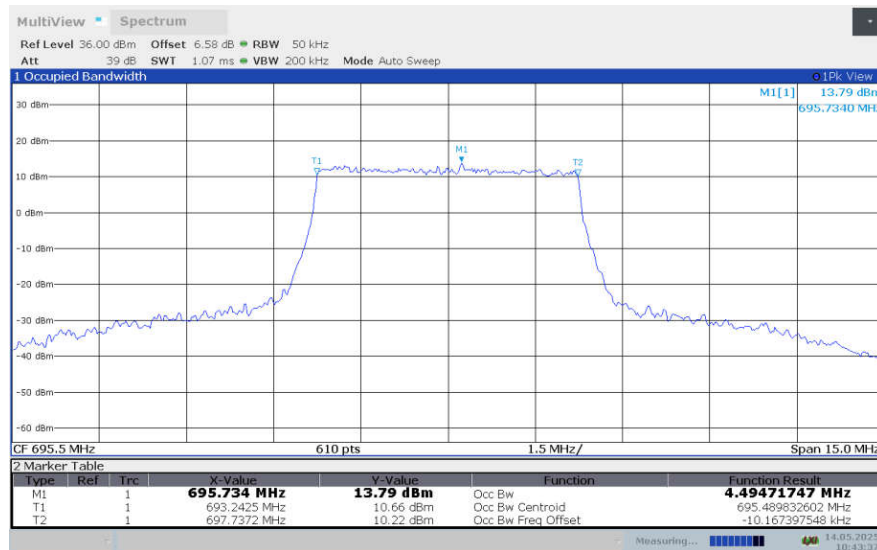
LTE band 71 , 5MHz Bandwidth,MID,64QAM (99% BW)



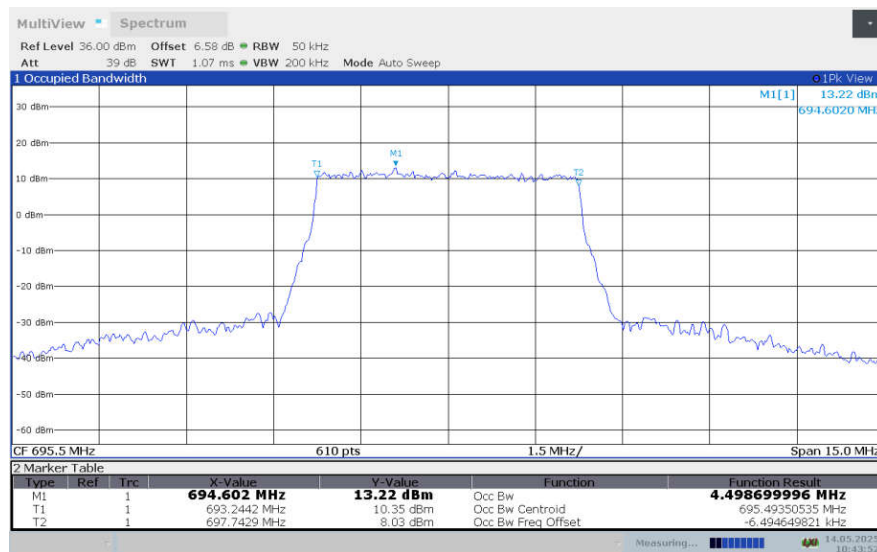
LTE band 71 , 5MHz Bandwidth,HIGH,QPSK (99% BW)



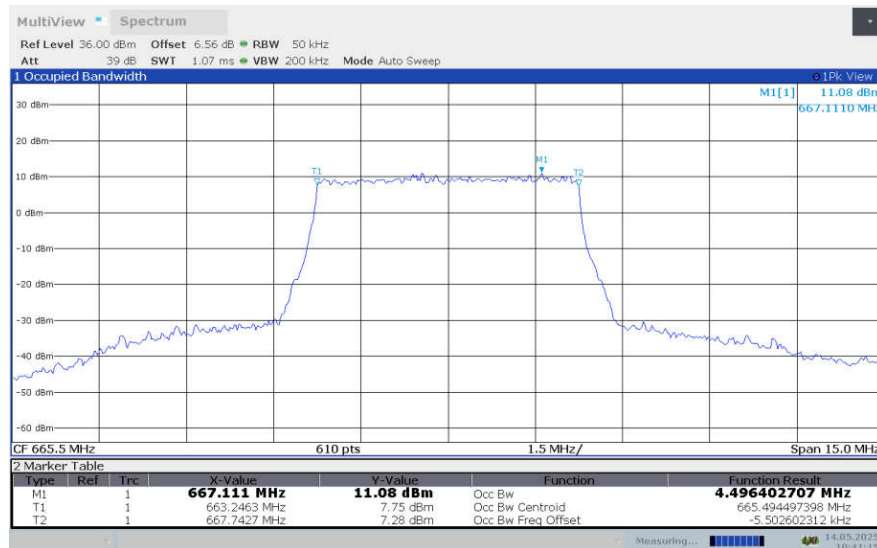
LTE band 71 , 5MHz Bandwidth,HIGH,16QAM (99% BW)



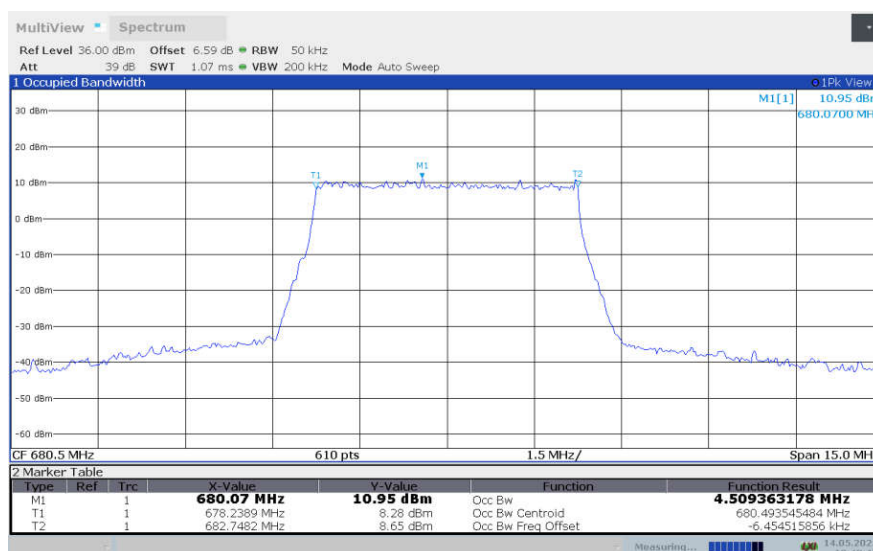
LTE band 71 , 5MHz Bandwidth,HIGH,64QAM (99% BW)



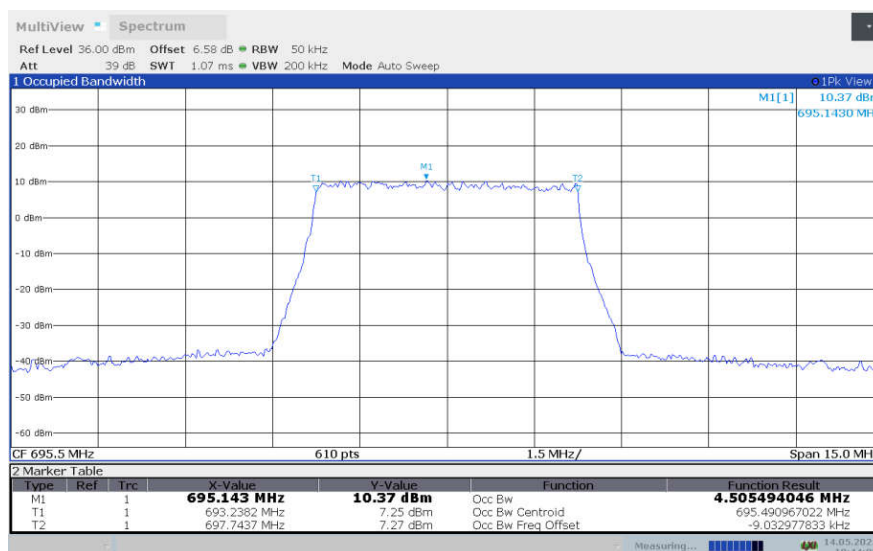
LTE band 71 , 5MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 71 , 5MHz Bandwidth,MID,256QAM (99% BW)



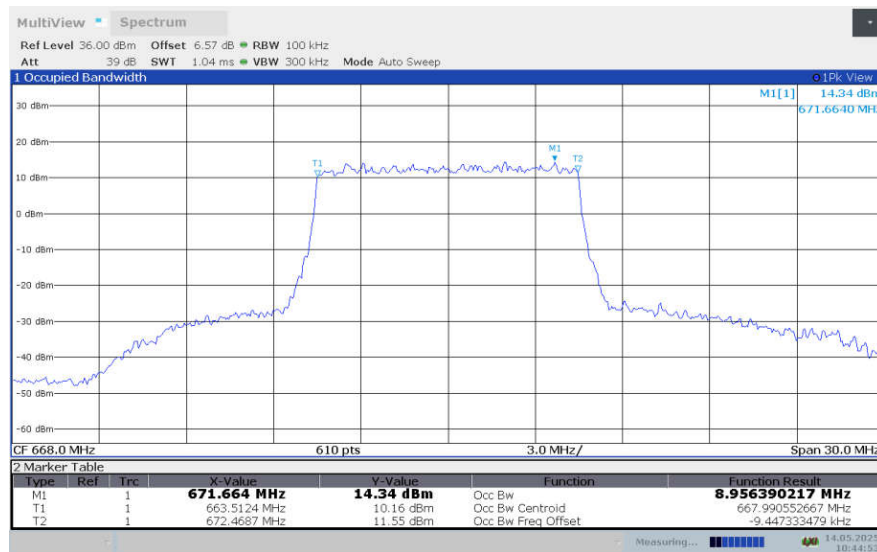
LTE band 71 , 5MHz Bandwidth,HIGH,256QAM (99% BW)



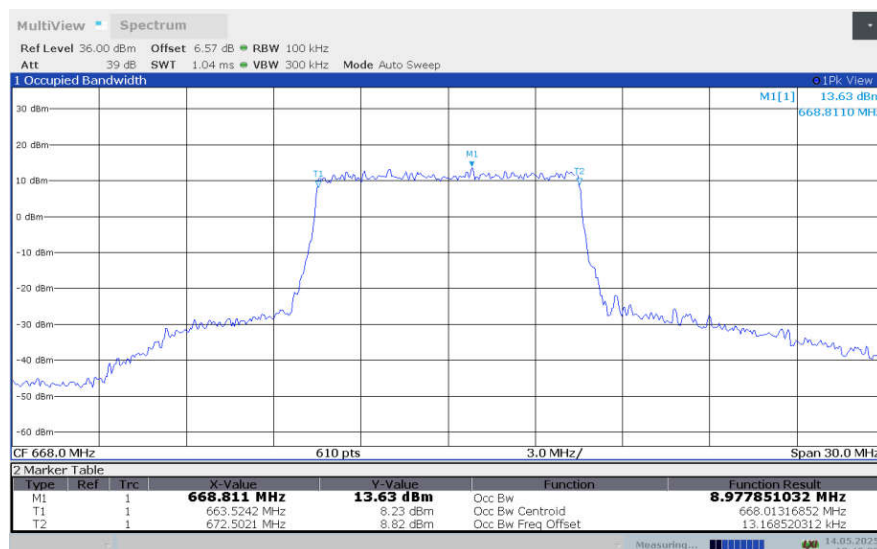
LTE band 71,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
668	8.956	8.978	8.952	8.972
680.5	8.982	8.967	8.961	8.974
693	8.962	8.968	8.957	8.971

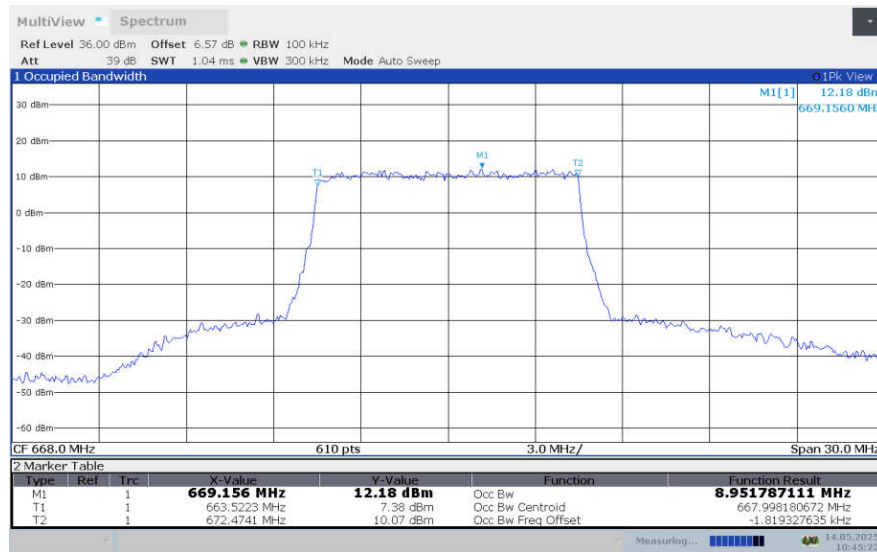
LTE band 71 , 10MHz Bandwidth,LOW,QPSK (99% BW)



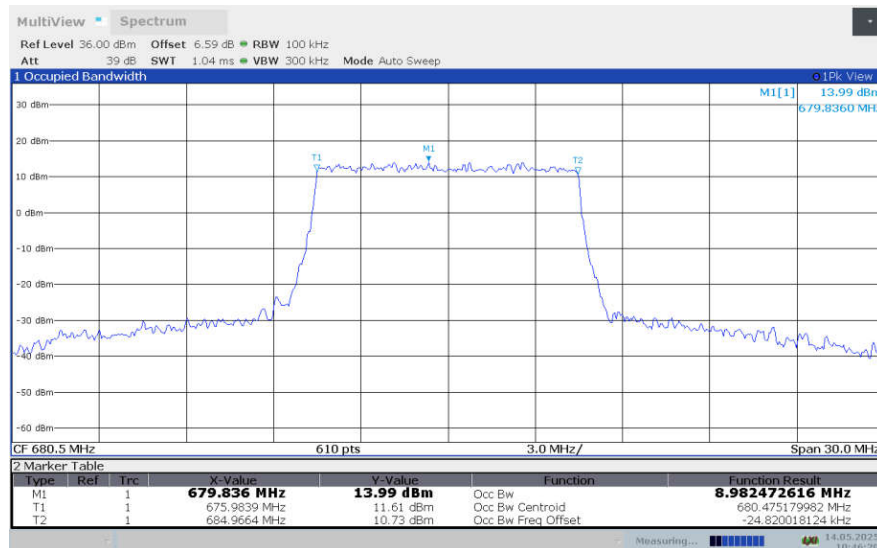
LTE band 71 , 10MHz Bandwidth,LOW,16QAM (99% BW)



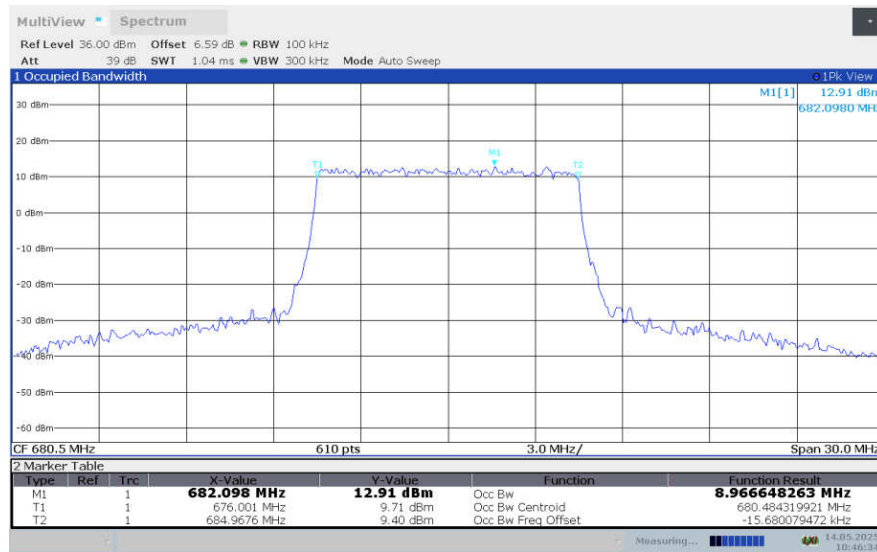
LTE band 71 , 10MHz Bandwidth,LOW,64QAM (99% BW)



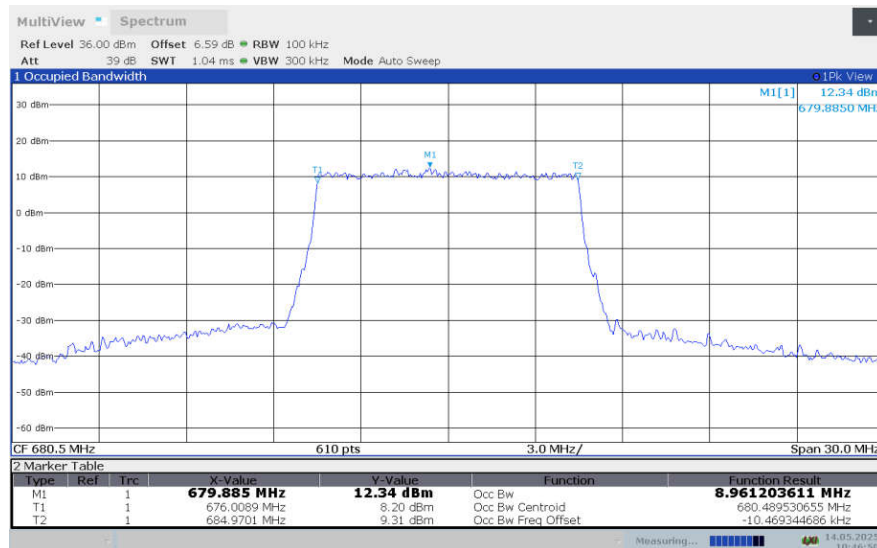
LTE band 71 , 10MHz Bandwidth,MID,QPSK (99% BW)



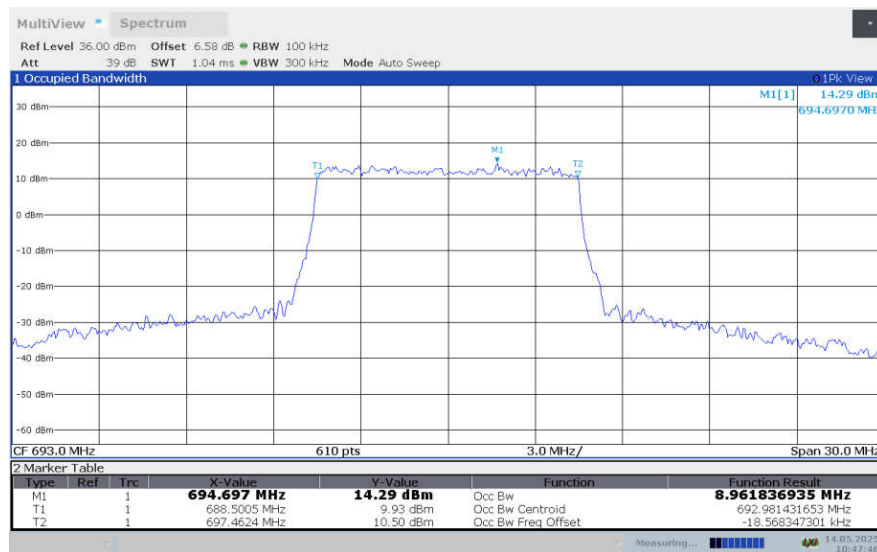
LTE band 71 , 10MHz Bandwidth,MID,16QAM (99% BW)



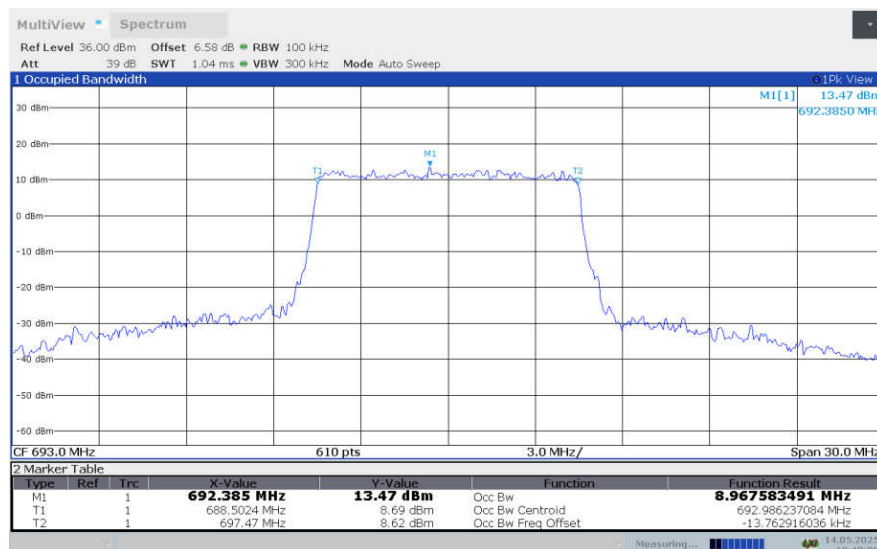
LTE band 71 , 10MHz Bandwidth,MID,64QAM (99% BW)



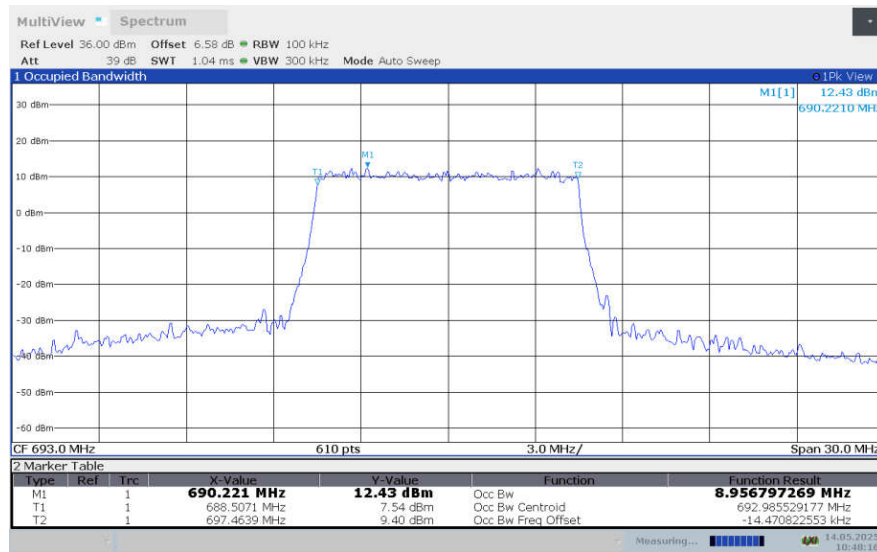
LTE band 71 , 10MHz Bandwidth,HIGH,QPSK (99% BW)



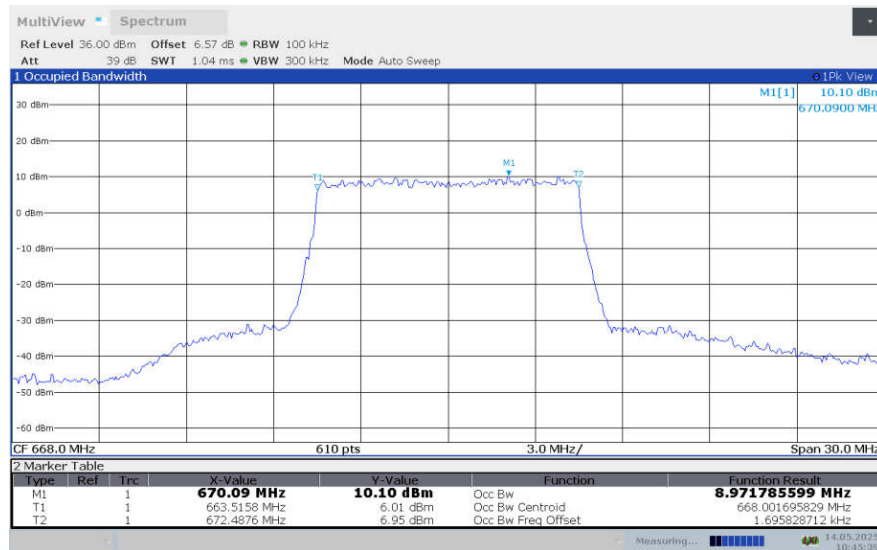
LTE band 71 , 10MHz Bandwidth,HIGH,16QAM (99% BW)



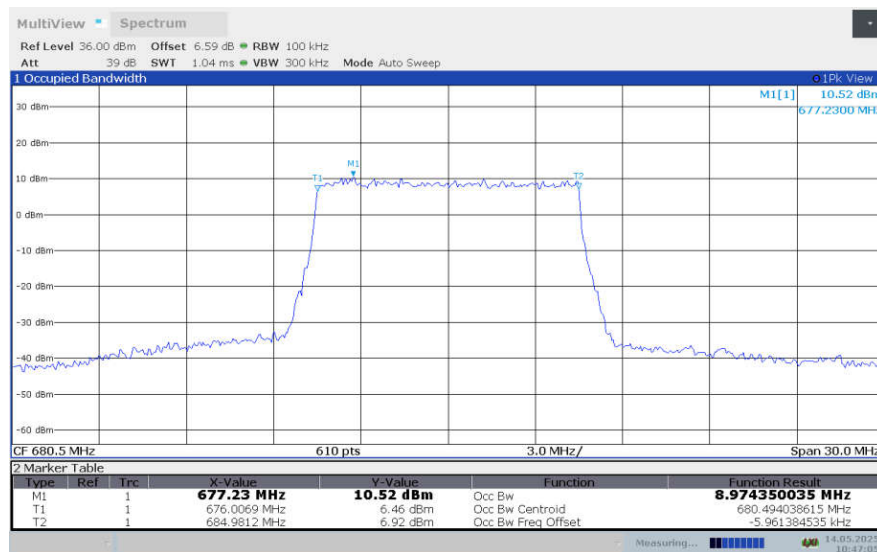
LTE band 71 , 10MHz Bandwidth,HIGH,64QAM (99% BW)



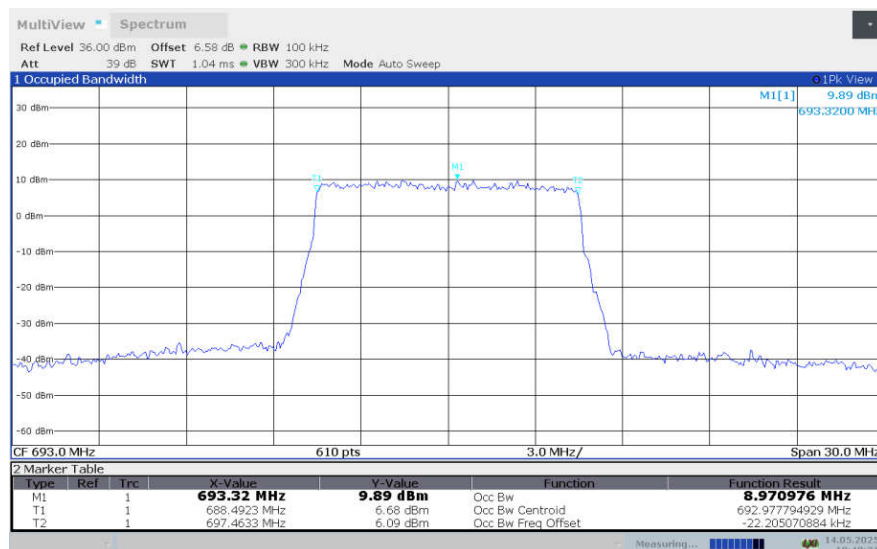
LTE band 71 , 10MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 71 , 10MHz Bandwidth,MID,256QAM (99% BW)



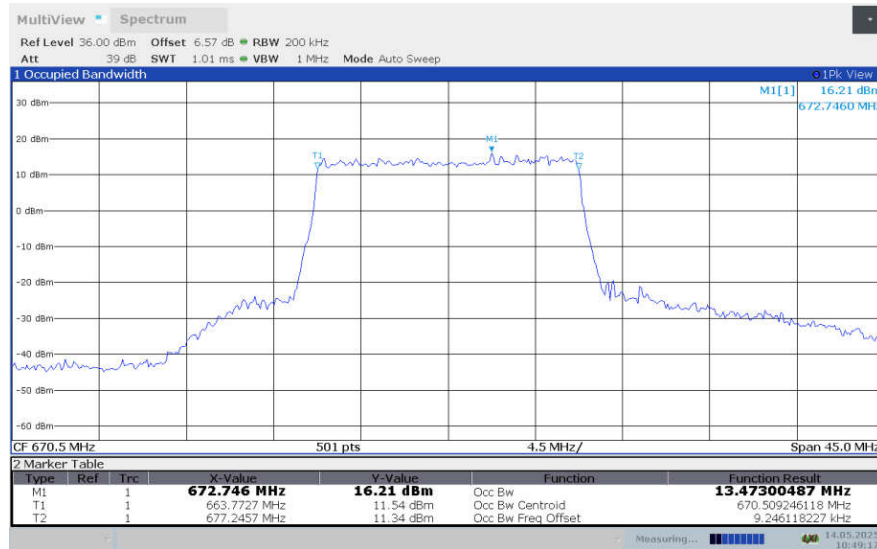
LTE band 71 , 10MHz Bandwidth,HIGH,256QAM (99% BW)



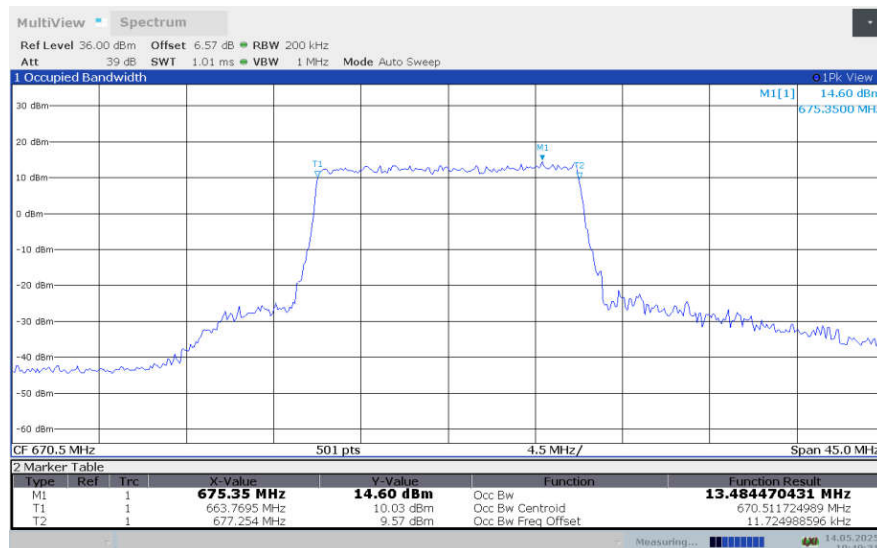
LTE band 71,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
670.5	13.473	13.484	13.484	13.471
680.5	13.460	13.478	13.460	13.481
690.5	13.466	13.484	13.486	13.448

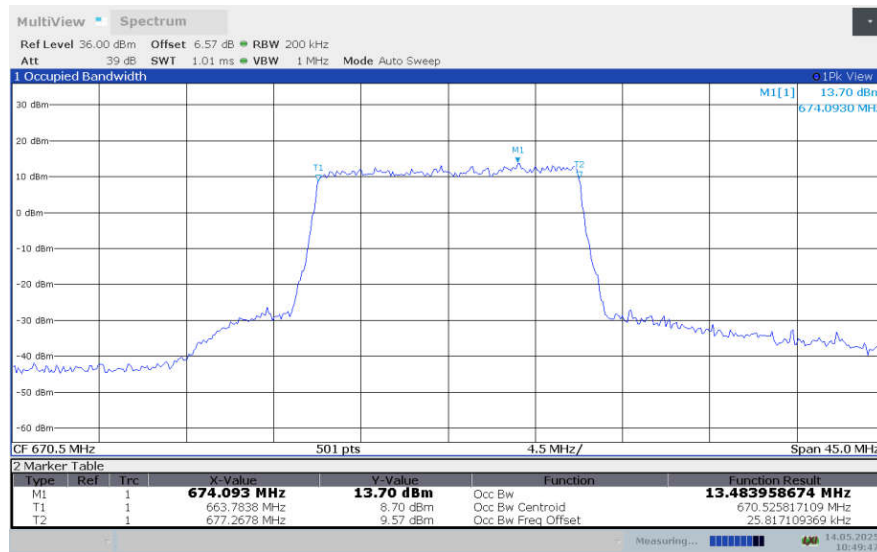
LTE band 71 , 15MHz Bandwidth,LOW,QPSK (99% BW)



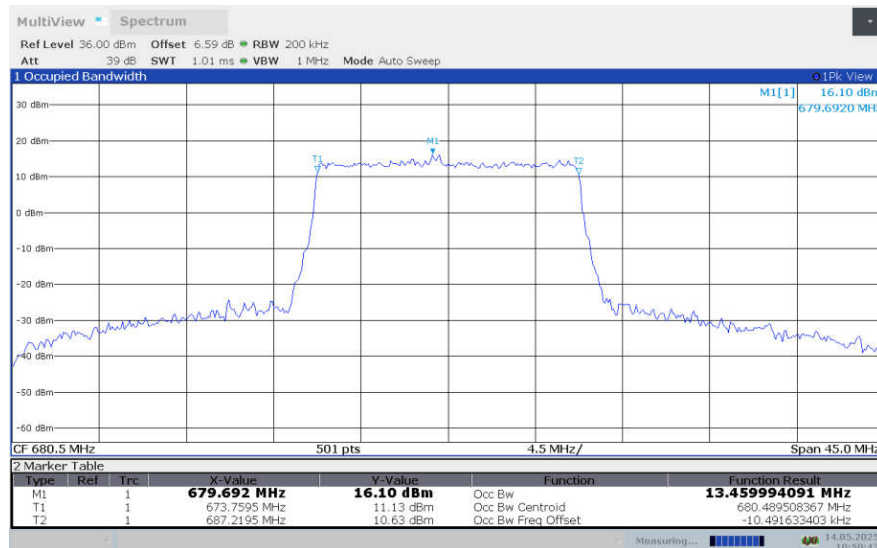
LTE band 71 , 15MHz Bandwidth,LOW,16QAM (99% BW)



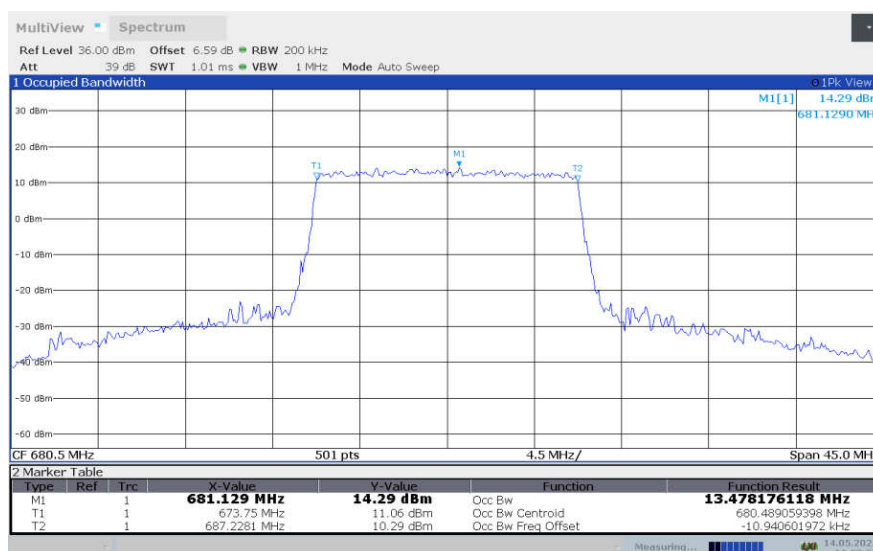
LTE band 71 , 15MHz Bandwidth,LOW,64QAM (99% BW)



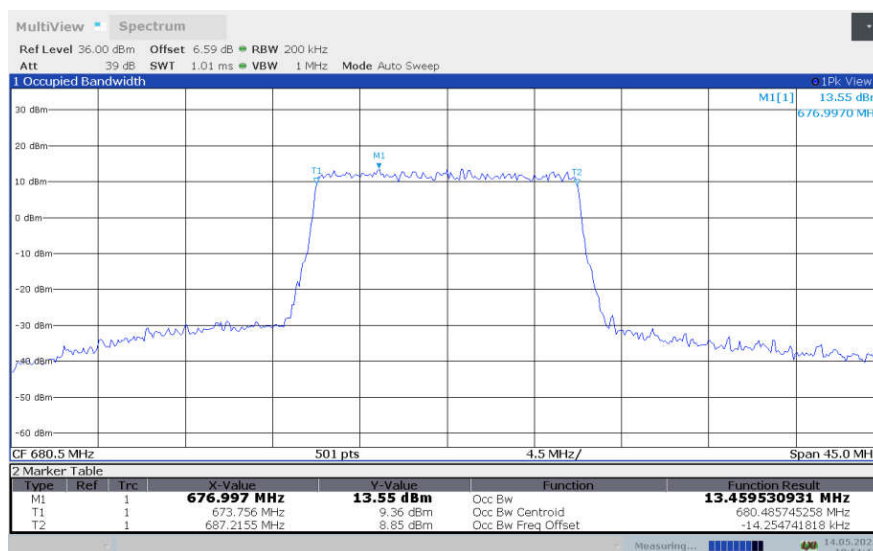
LTE band 71 , 15MHz Bandwidth,MID,QPSK (99% BW)



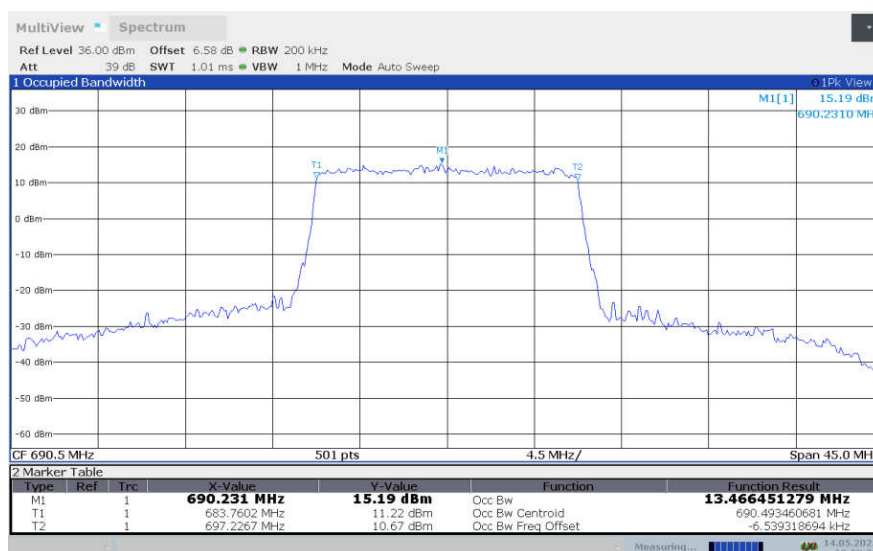
LTE band 71 , 15MHz Bandwidth,MID,16QAM (99% BW)



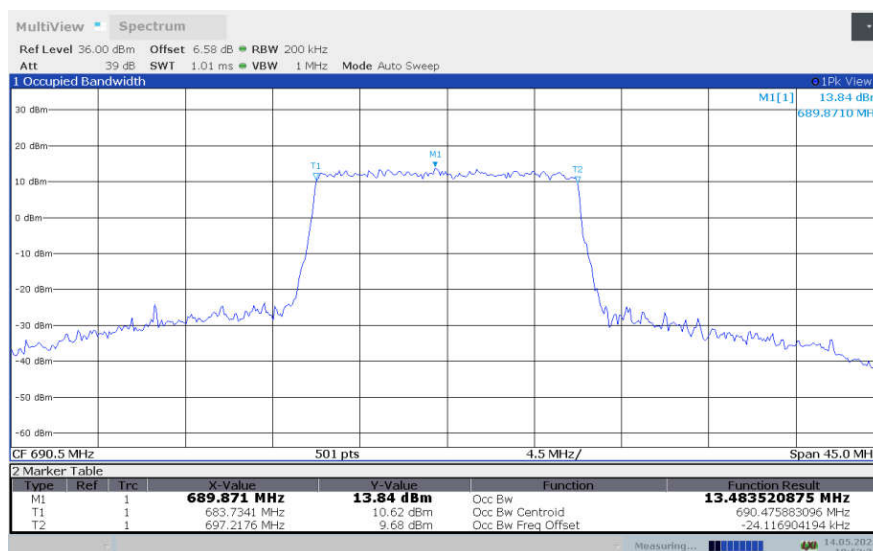
LTE band 71 , 15MHz Bandwidth,MID,64QAM (99% BW)



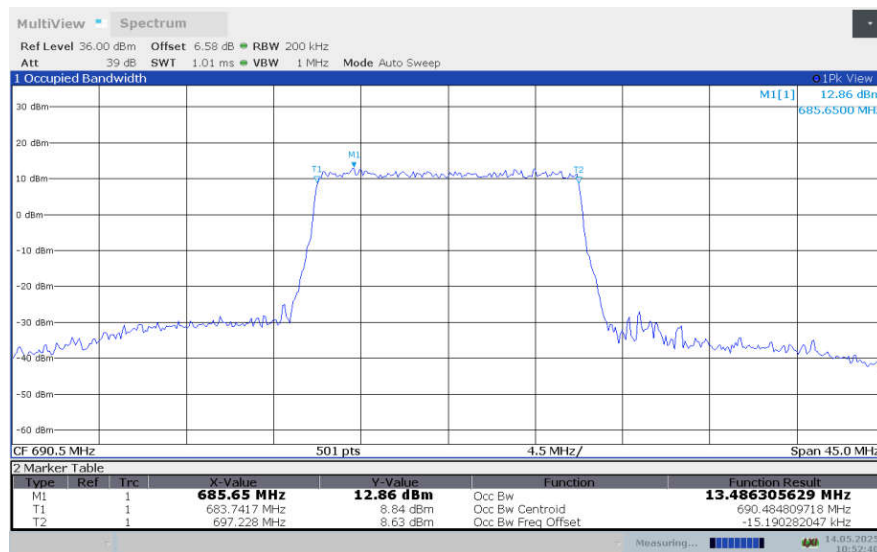
LTE band 71 , 15MHz Bandwidth,HIGH,QPSK (99% BW)



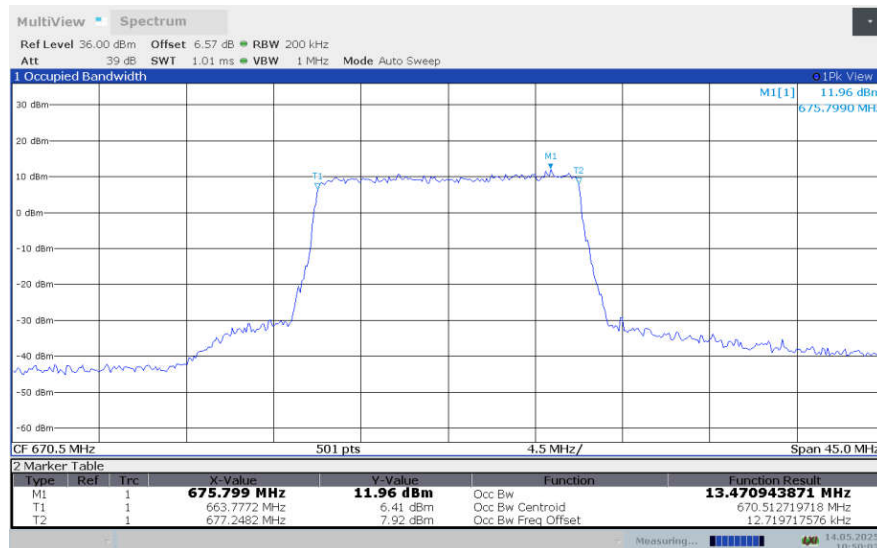
LTE band 71 , 15MHz Bandwidth,HIGH,16QAM (99% BW)



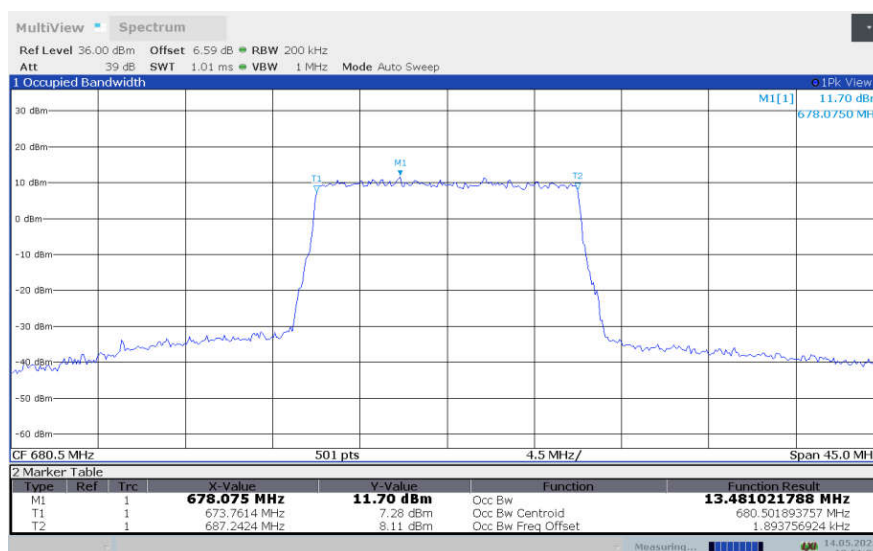
LTE band 71 , 15MHz Bandwidth,HIGH,64QAM (99% BW)



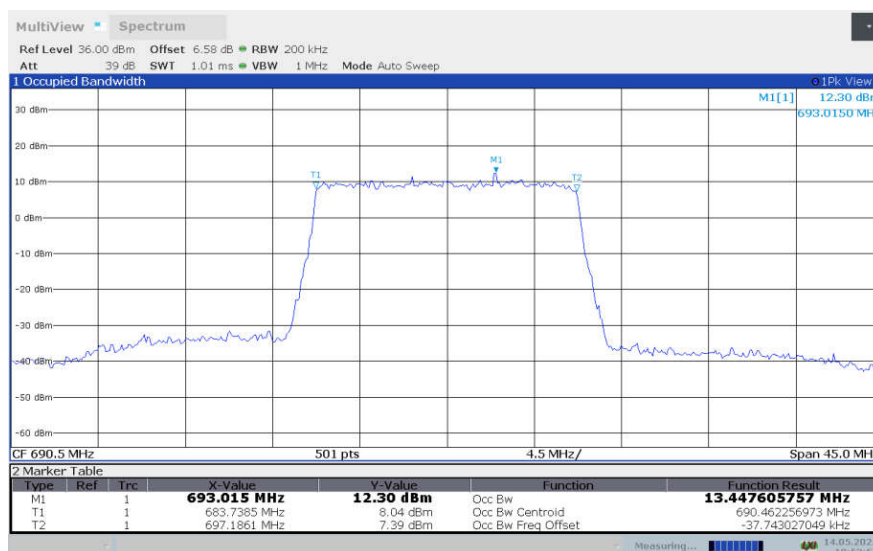
LTE band 71 , 15MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 71 , 15MHz Bandwidth,MID,256QAM (99% BW)



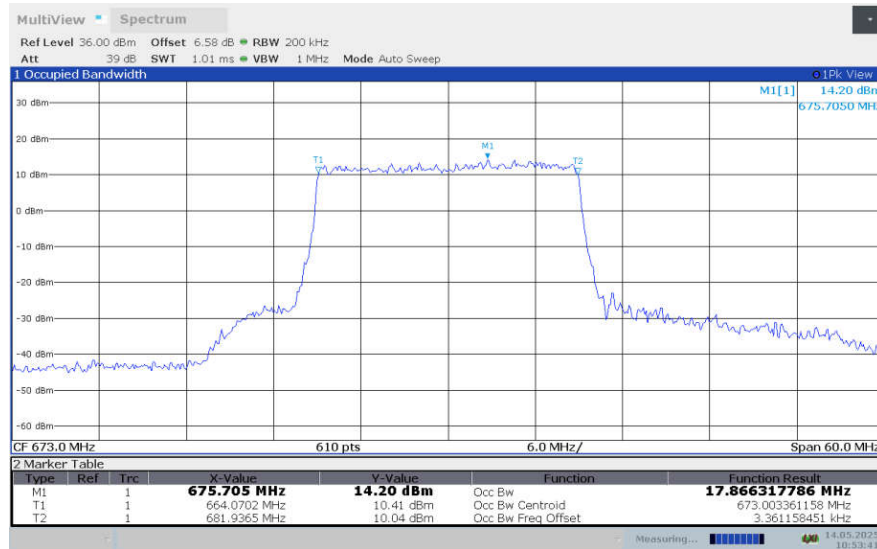
LTE band 71 , 15MHz Bandwidth,HIGH,256QAM (99% BW)



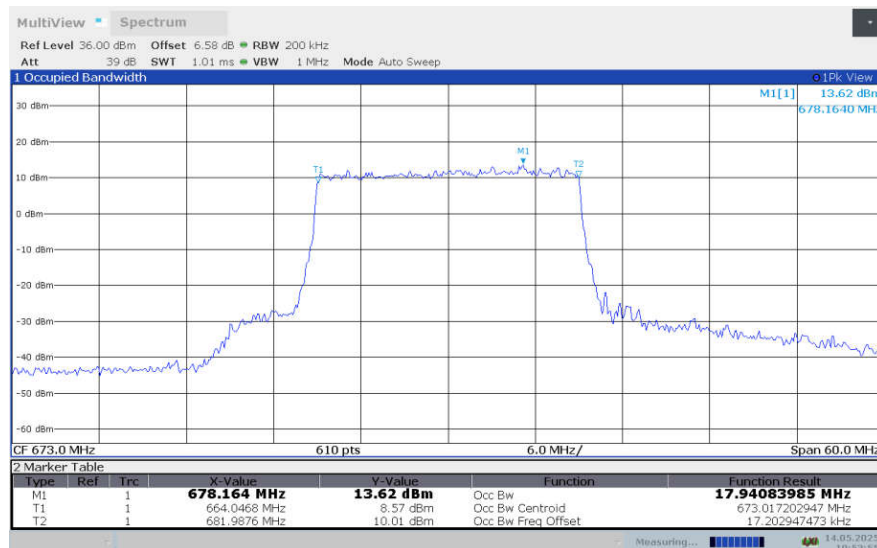
LTE band 71,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
673	17.866	17.941	17.903	17.908
683	17.928	17.957	17.923	17.925
688	17.911	17.949	17.949	17.931

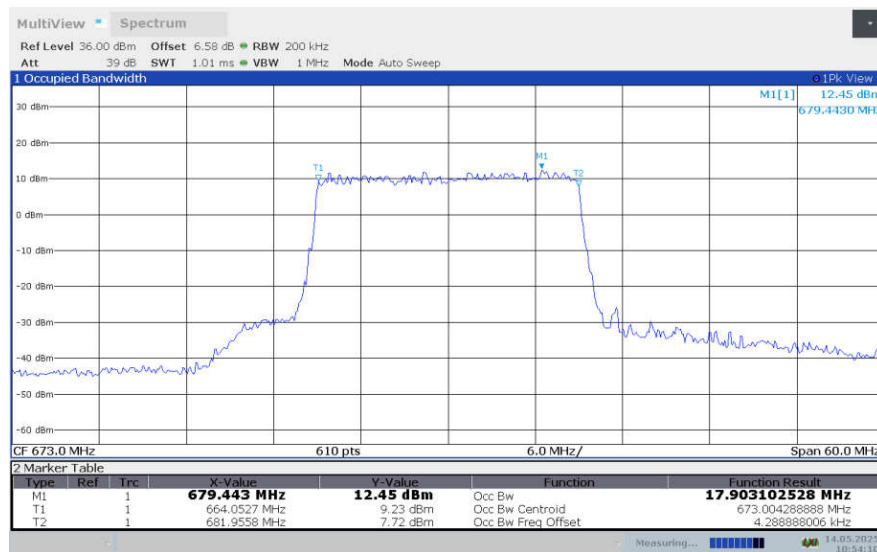
LTE band 71 , 20MHz Bandwidth,LOW,QPSK (99% BW)



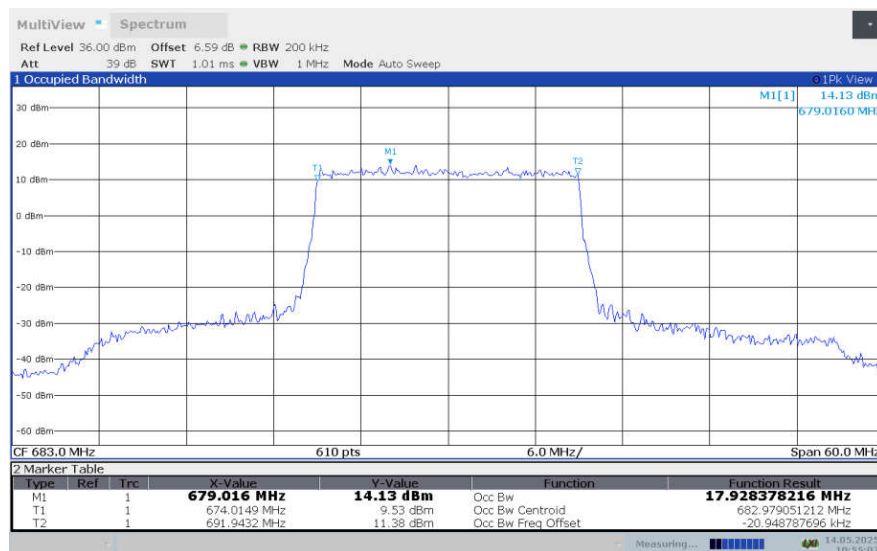
LTE band 71 , 20MHz Bandwidth,LOW,16QAM (99% BW)



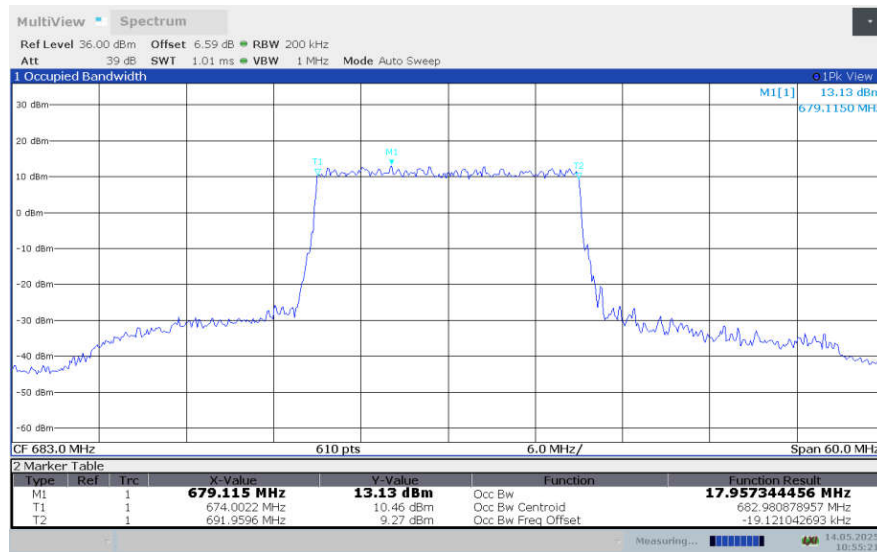
LTE band 71 , 20MHz Bandwidth,LOW,64QAM (99% BW)



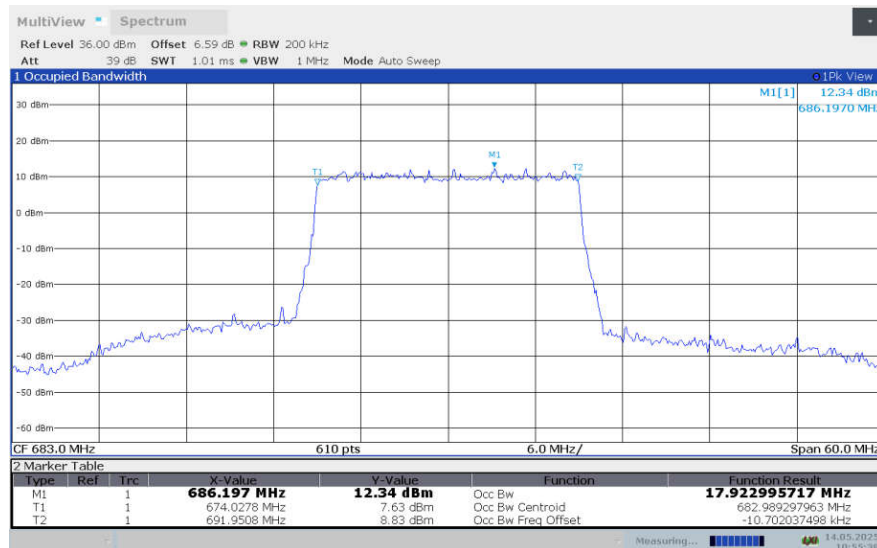
LTE band 71 , 20MHz Bandwidth,MID,QPSK (99% BW)



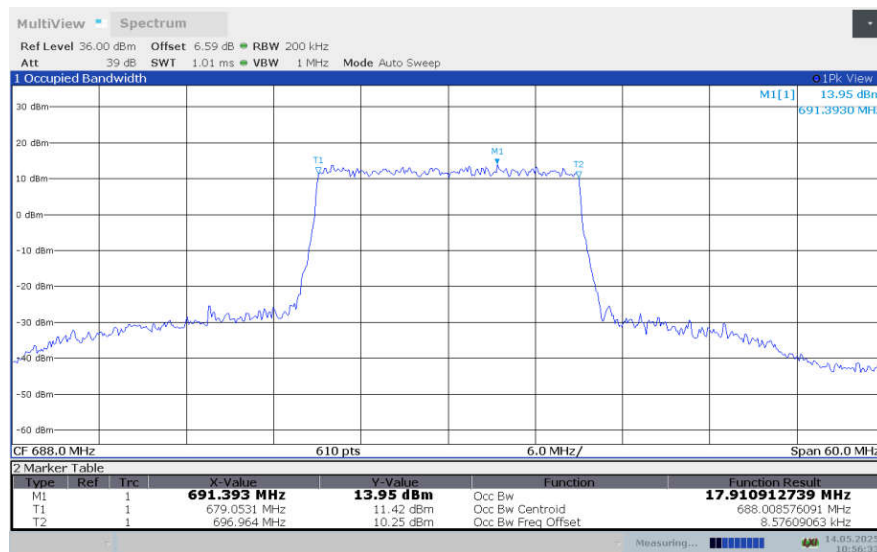
LTE band 71 , 20MHz Bandwidth,MID,16QAM (99% BW)



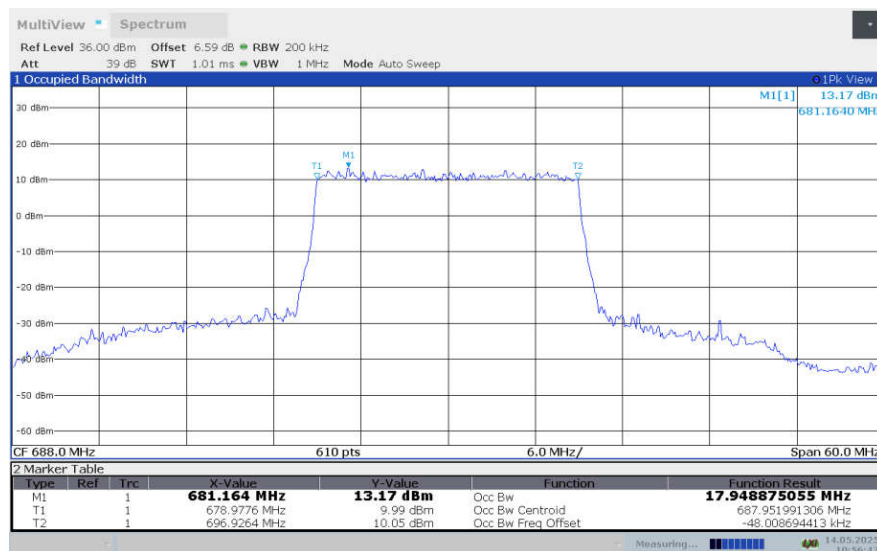
LTE band 71 , 20MHz Bandwidth,MID,64QAM (99% BW)



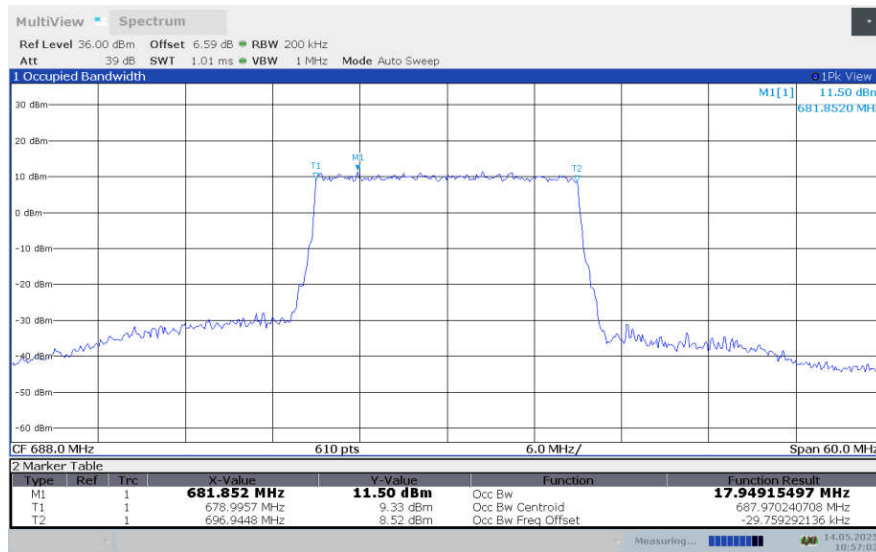
LTE band 71 , 20MHz Bandwidth,HIGH,QPSK (99% BW)



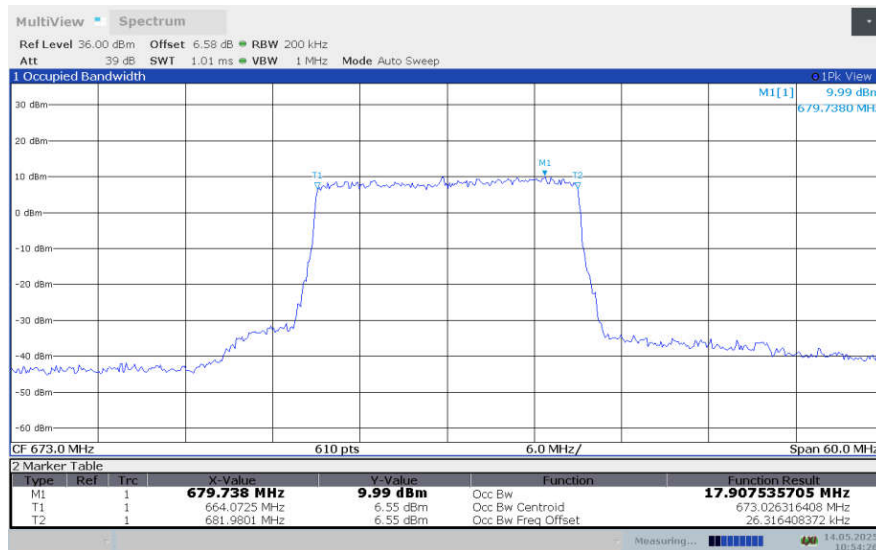
LTE band 71 , 20MHz Bandwidth,HIGH,16QAM (99% BW)



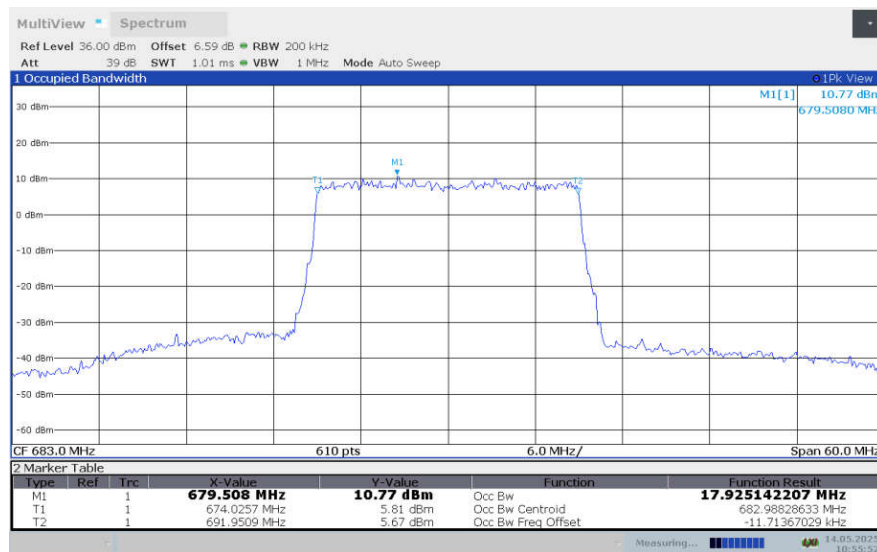
LTE band 71 , 20MHz Bandwidth,HIGH,64QAM (99% BW)



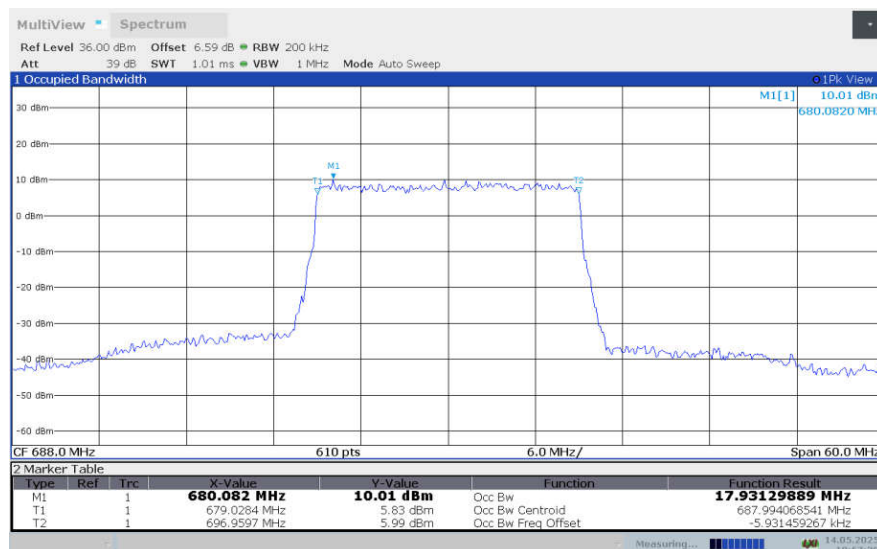
LTE band 71 , 20MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 71 , 20MHz Bandwidth,MID,256QAM (99% BW)



LTE band 71 , 20MHz Bandwidth,HIGH,256QAM (99% BW)



Note: Expanded measurement uncertainty is $U = 3428$ Hz, $k = 2$

A.5 EMISSION BANDWIDTH

A.5.1 Measurement Procedure

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- Set the reference level of the instrument as required to keep the signal from exceeding the

maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least 10log (OBW / RBW) below the reference level.

d) Set the detection mode to peak, and the trace mode to max hold.

e) Use the 26dB bandwidth function of the spectrum analyzer and report the measured bandwidth.

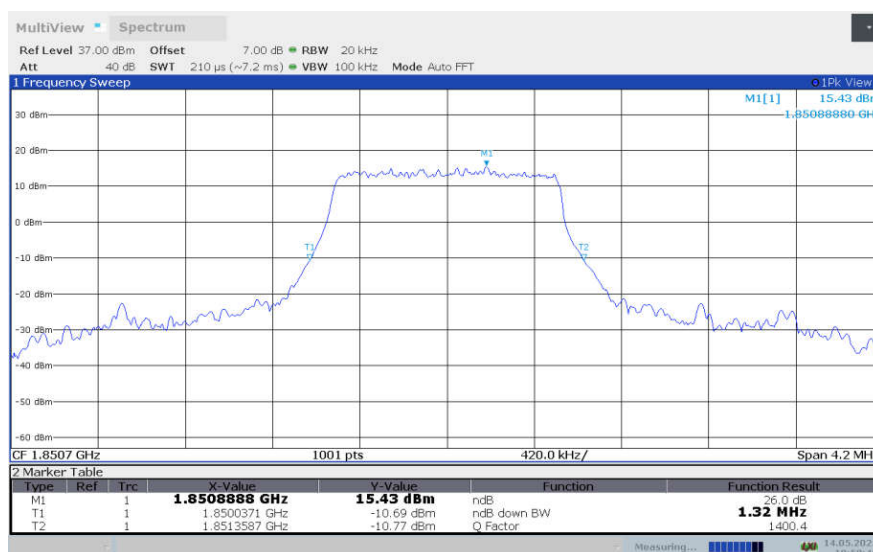
A.5.2 Emission Bandwidth Results

Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

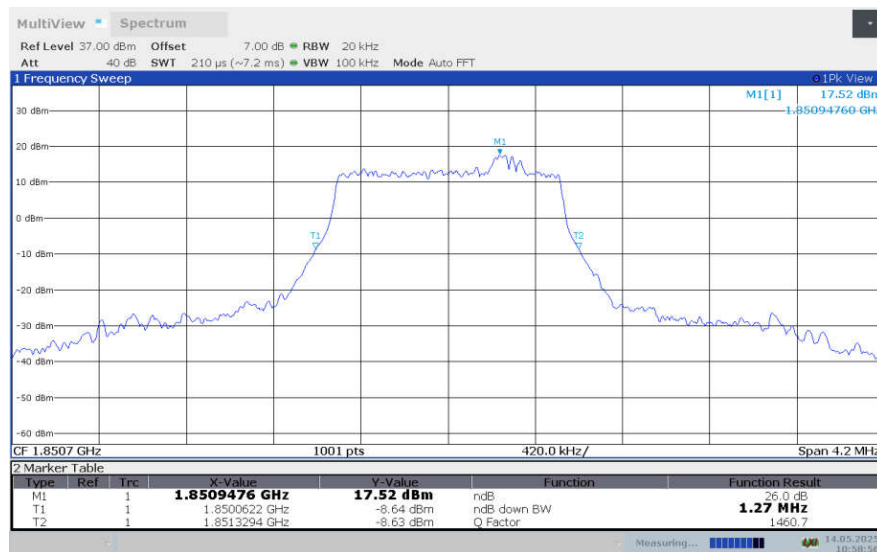
LTE band 2, 1.4MHz (-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)			
	QPSK	16QAM	64QAM	256QAM
1850.7	1.322	1.267	1.254	1.208
1880	1.322	1.338	1.322	1.326
1909.3	1.296	1.309	1.334	1.326

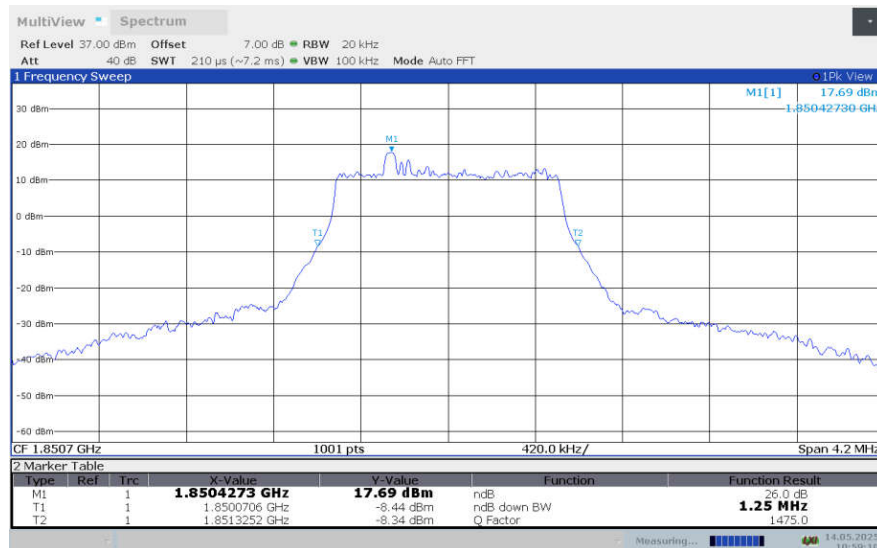
LTE band 2 , 1.4MHz Bandwidth, LOW, QPSK (-26dBc BW)



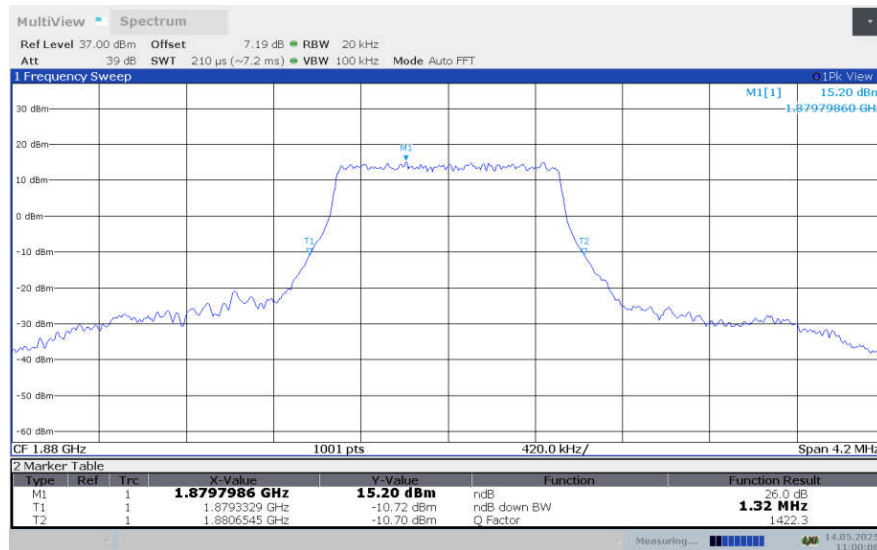
LTE band 2 , 1.4MHz Bandwidth, LOW, 16QAM (-26dBc BW)



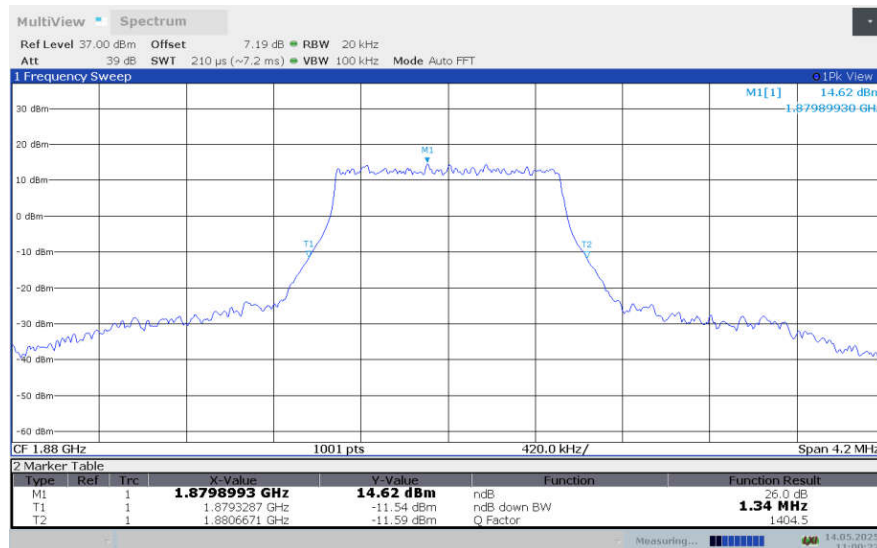
LTE band 2 , 1.4MHz Bandwidth,LOW,64QAM (-26dBc BW)



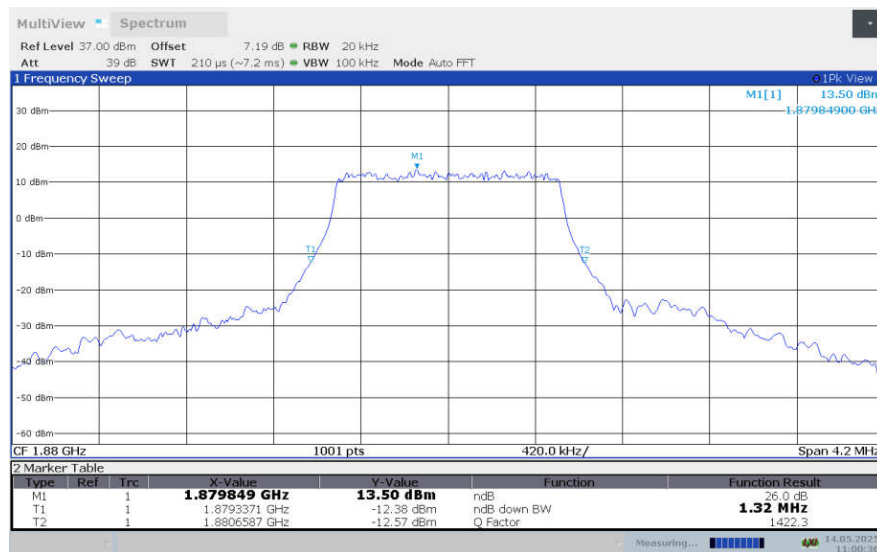
LTE band 2 , 1.4MHz Bandwidth,MID,QPSK (-26dBc BW)



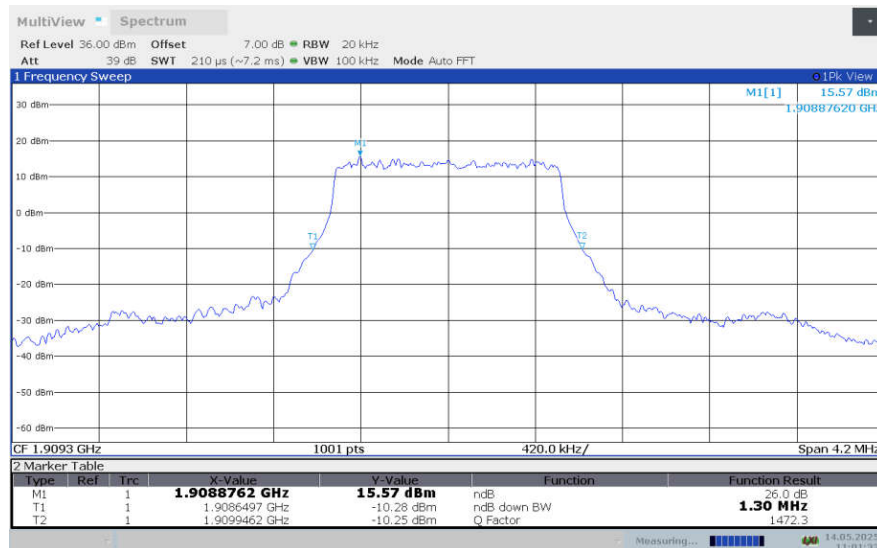
LTE band 2 , 1.4MHz Bandwidth,MID,16QAM (-26dBc BW)



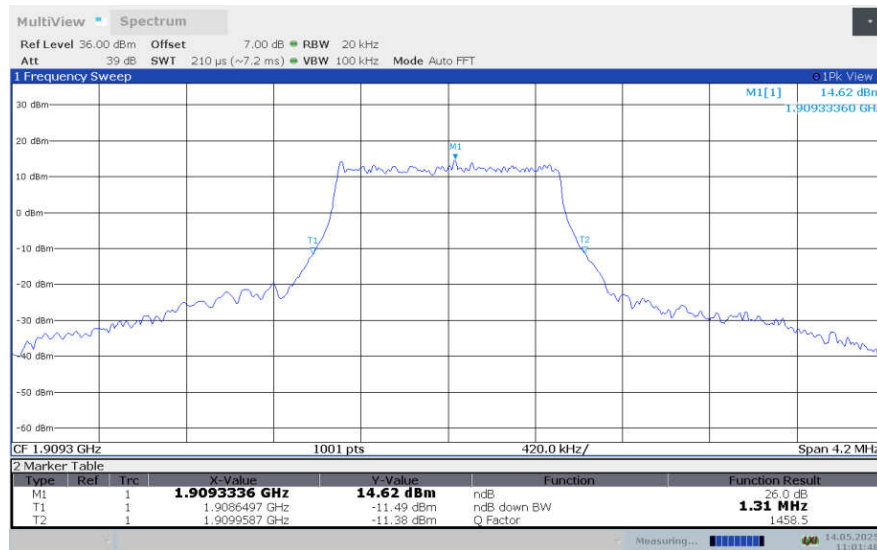
LTE band 2 , 1.4MHz Bandwidth,MID,64QAM (-26dBc BW)



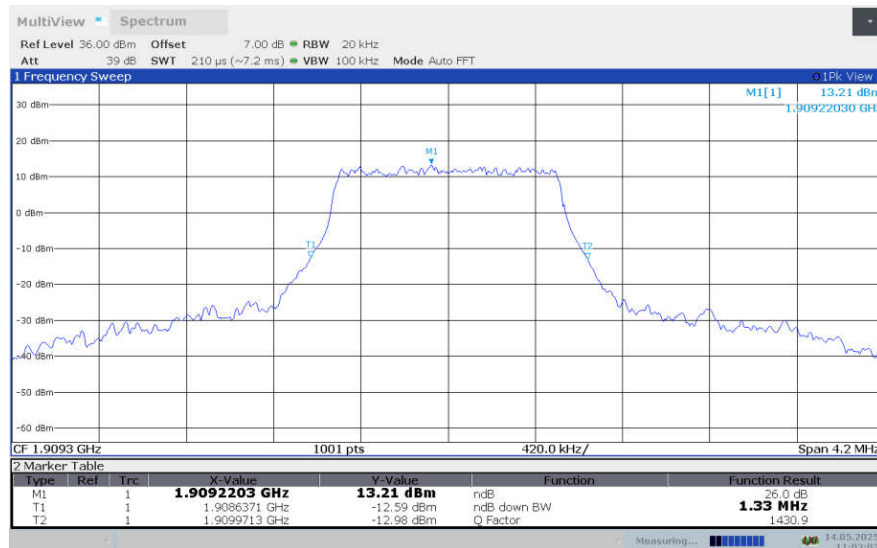
LTE band 2 , 1.4MHz Bandwidth,HIGH,QPSK (-26dBc BW)



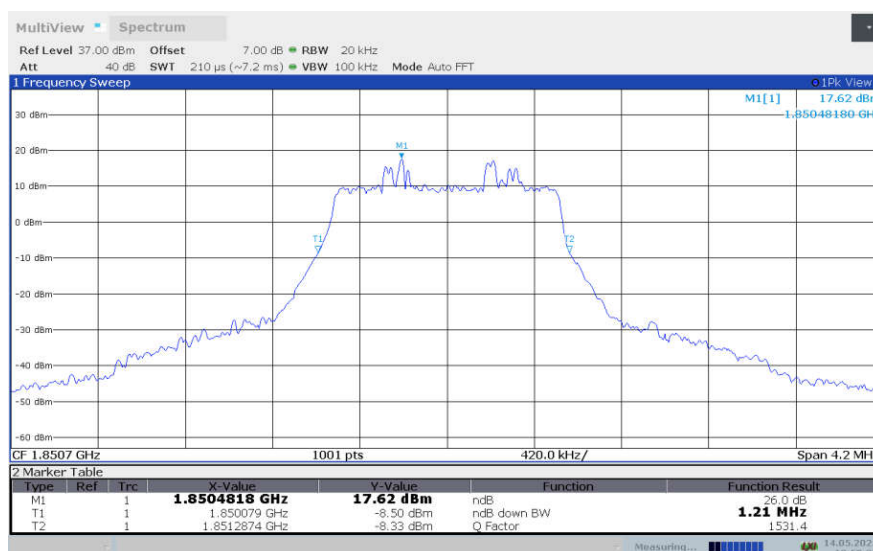
LTE band 2 , 1.4MHz Bandwidth,HIGH,16QAM (-26dBc BW)



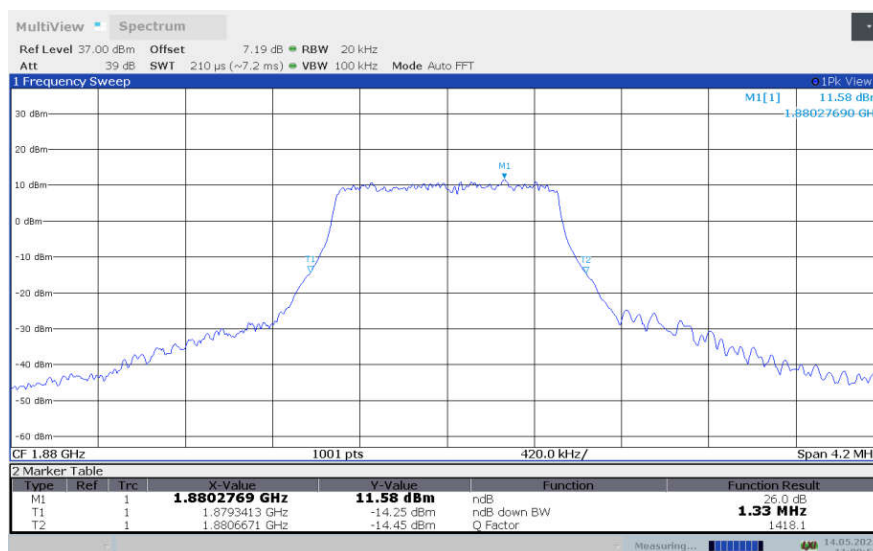
LTE band 2 , 1.4MHz Bandwidth,HIGH,64QAM (-26dBc BW)



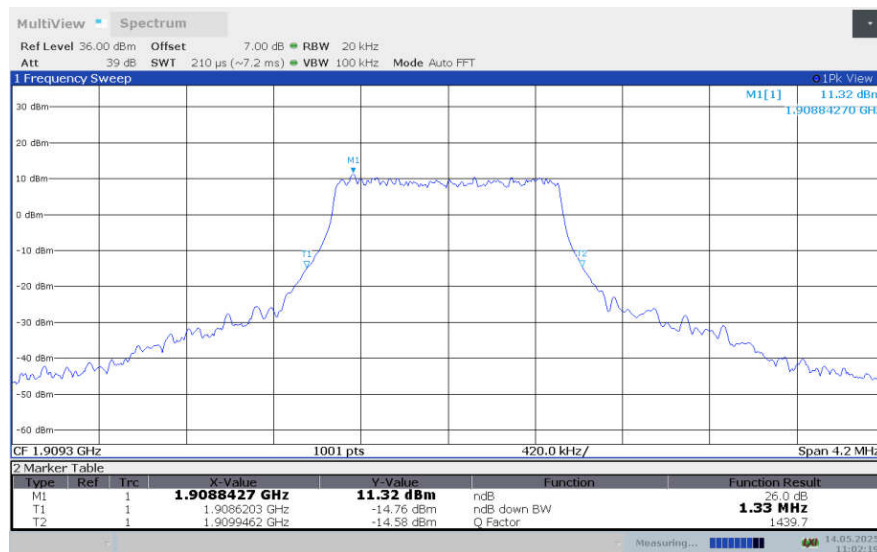
LTE band 2 , 1.4MHz Bandwidth,LOW,256QAM (-26dBc BW)



LTE band 2 , 1.4MHz Bandwidth,MID,256QAM (-26dBc BW)



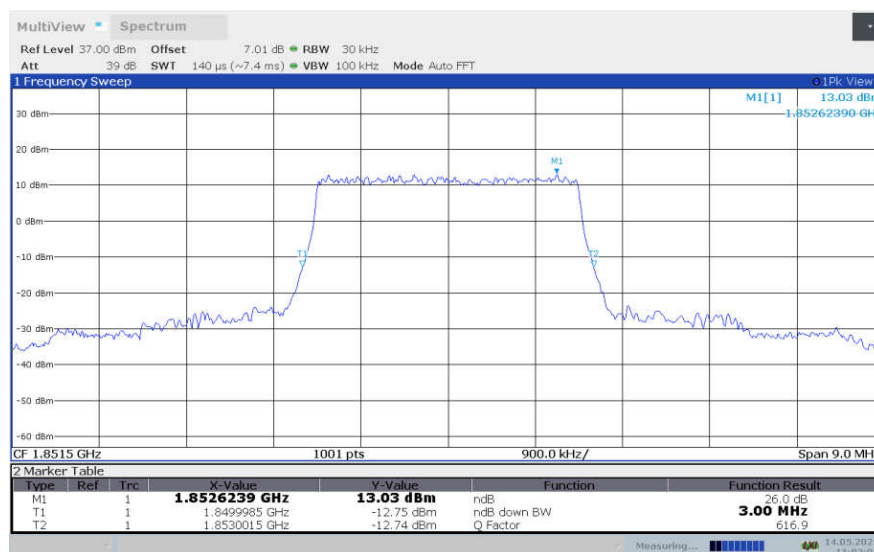
LTE band 2 , 1.4MHz Bandwidth,HIGH,256QAM (-26dBc BW)



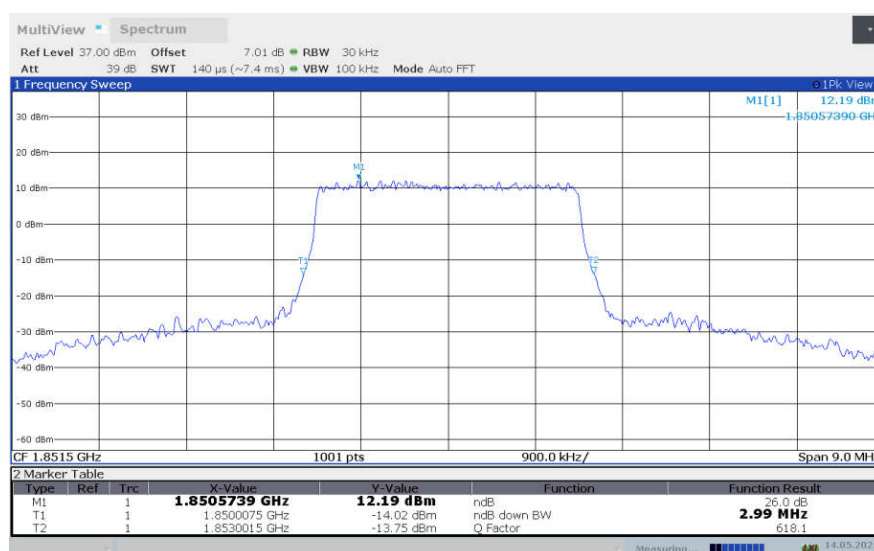
LTE band 2,3MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)			
	QPSK	16QAM	64QAM	256QAM
1851.5	3.003	2.994	3.012	3.012
1880	3.012	3.021	3.012	2.994
1908.5	2.994	2.976	2.994	3.048

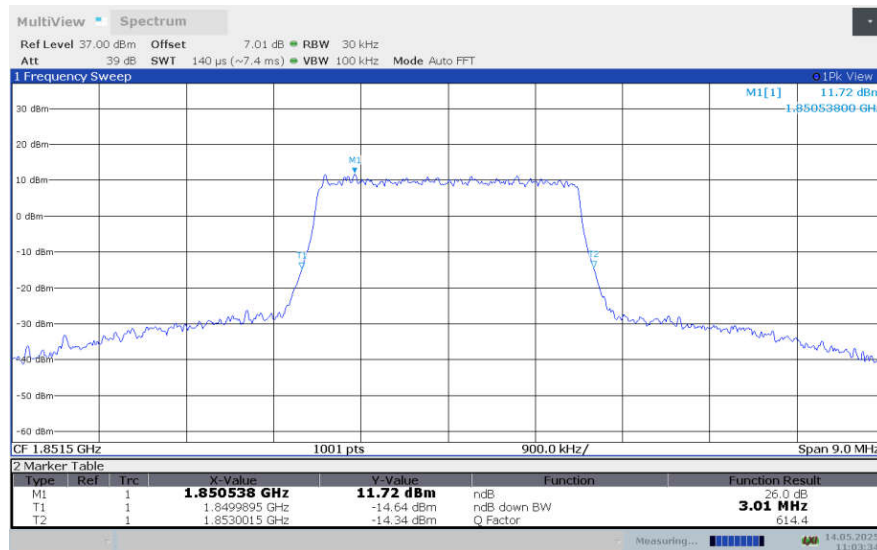
LTE band 2 , 3MHz Bandwidth,LOW,QPSK (-26dBc BW)



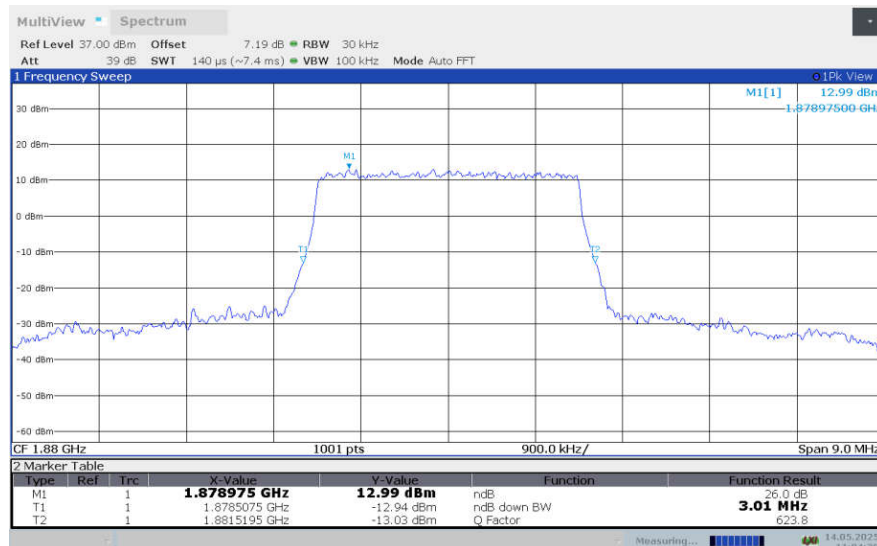
LTE band 2 , 3MHz Bandwidth,LOW,16QAM (-26dBc BW)



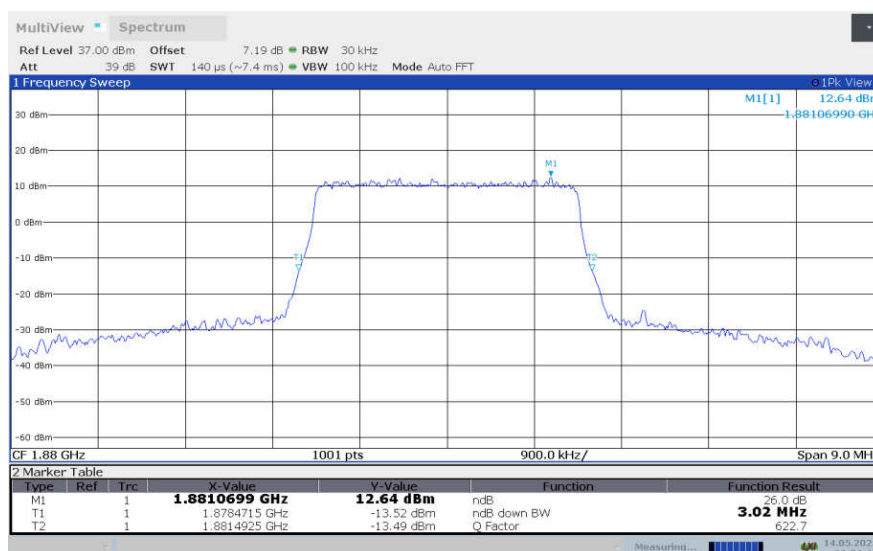
LTE band 2 , 3MHz Bandwidth,LOW,64QAM (-26dBc BW)



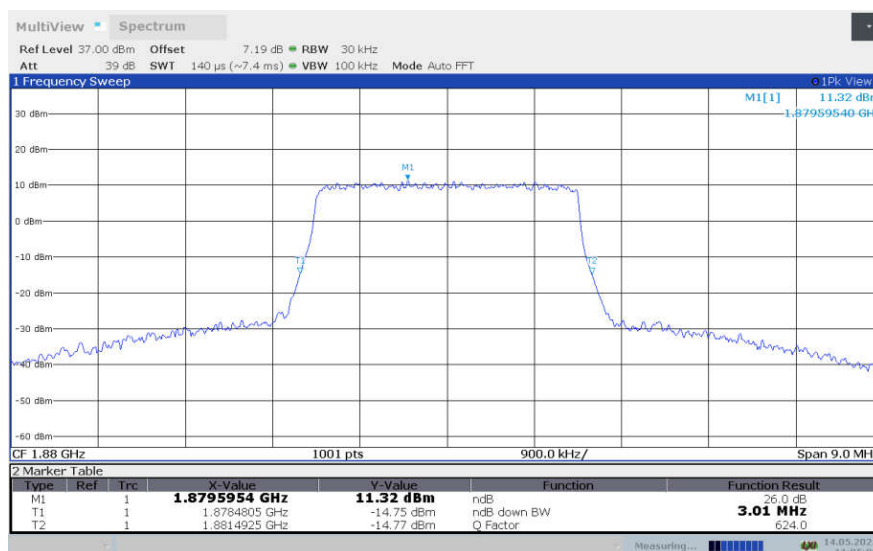
LTE band 2 , 3MHz Bandwidth,MID,QPSK (-26dBc BW)



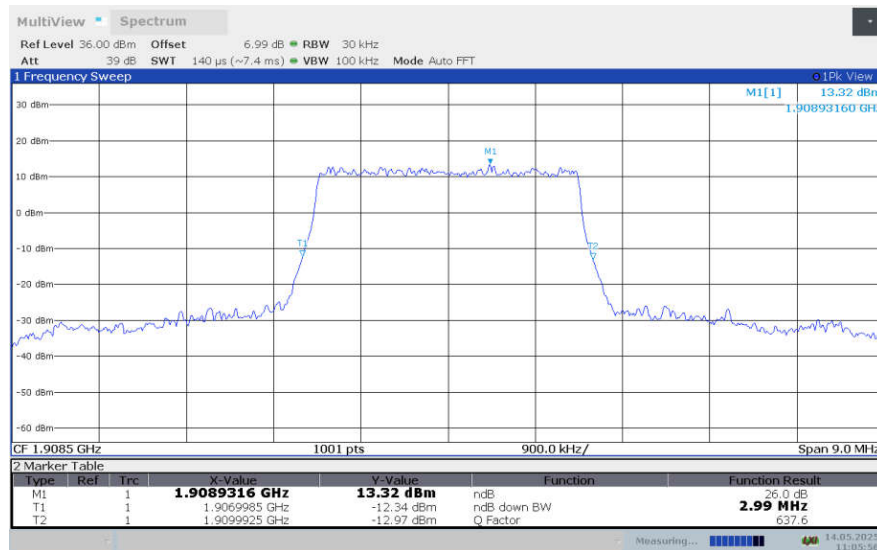
LTE band 2 , 3MHz Bandwidth,MID,16QAM (-26dBc BW)



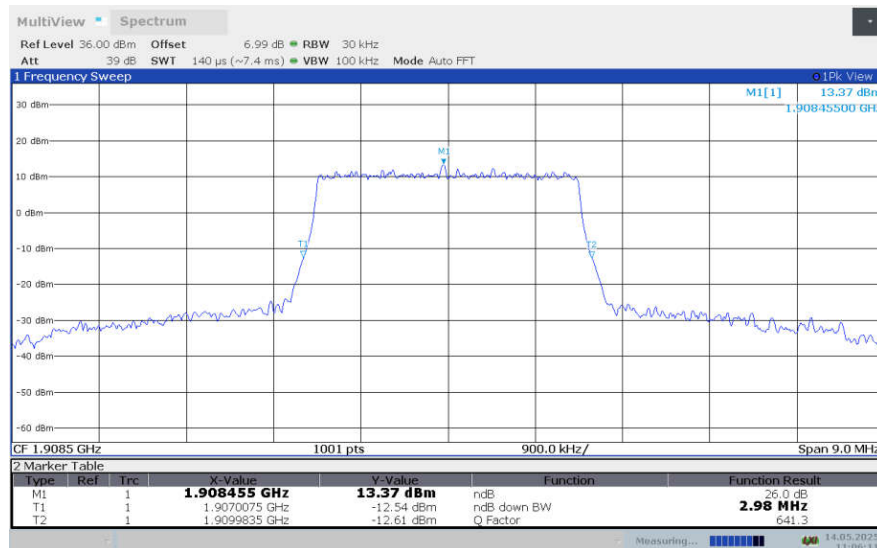
LTE band 2 , 3MHz Bandwidth,MID,64QAM (-26dBc BW)



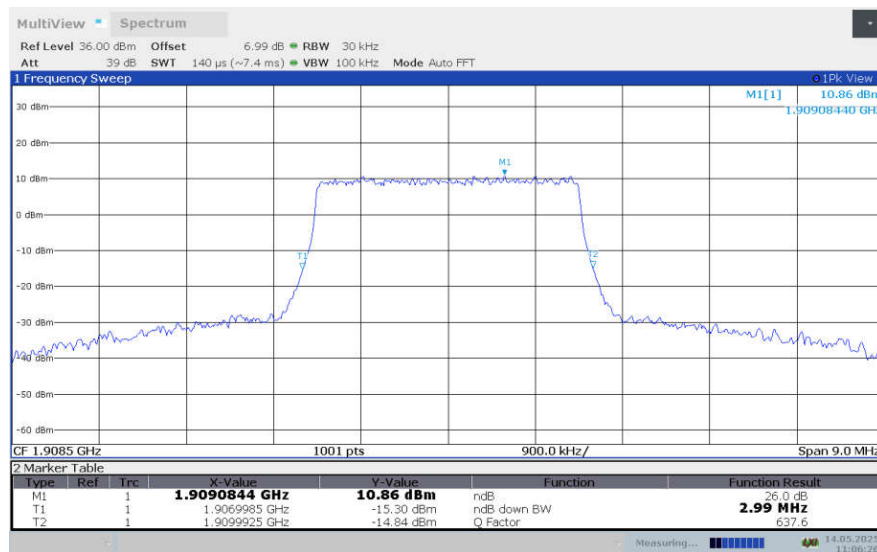
LTE band 2 , 3MHz Bandwidth,HIGH,QPSK (-26dBc BW)



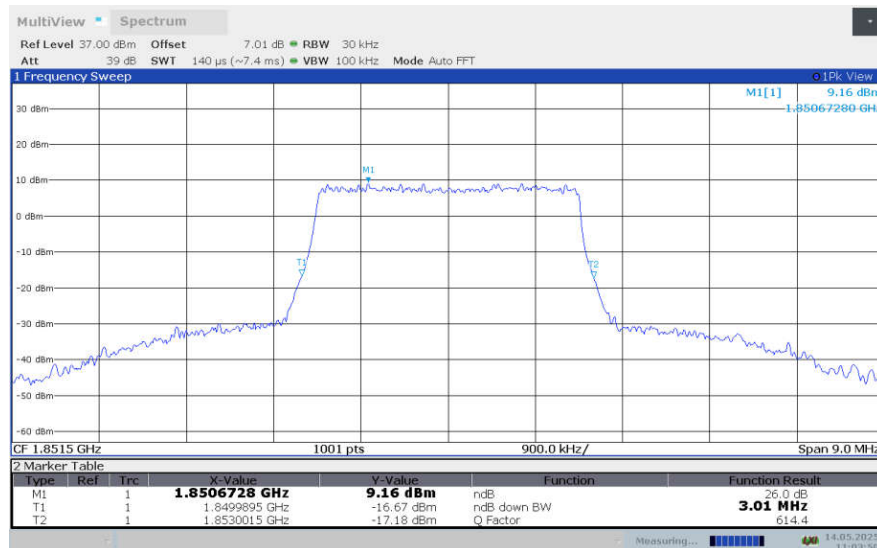
LTE band 2 , 3MHz Bandwidth,HIGH,16QAM (-26dBc BW)



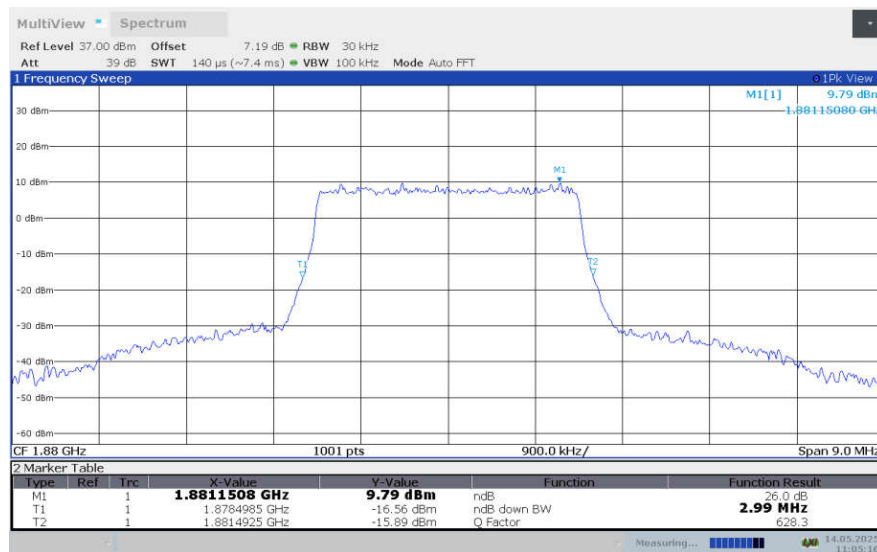
LTE band 2 , 3MHz Bandwidth,HIGH,64QAM (-26dBc BW)



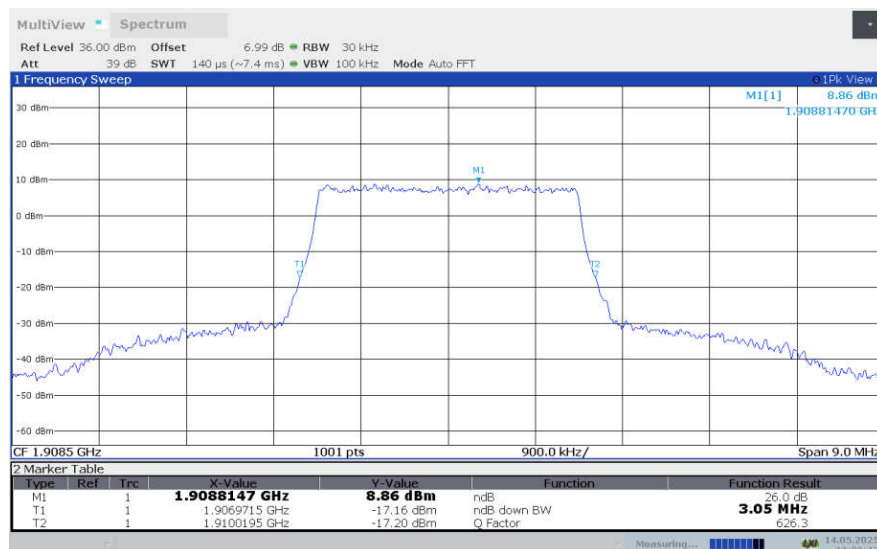
LTE band 2 , 3MHz Bandwidth,LOW,256QAM (-26dBc BW)



LTE band 2 , 3MHz Bandwidth,MID,256QAM (-26dBc BW)



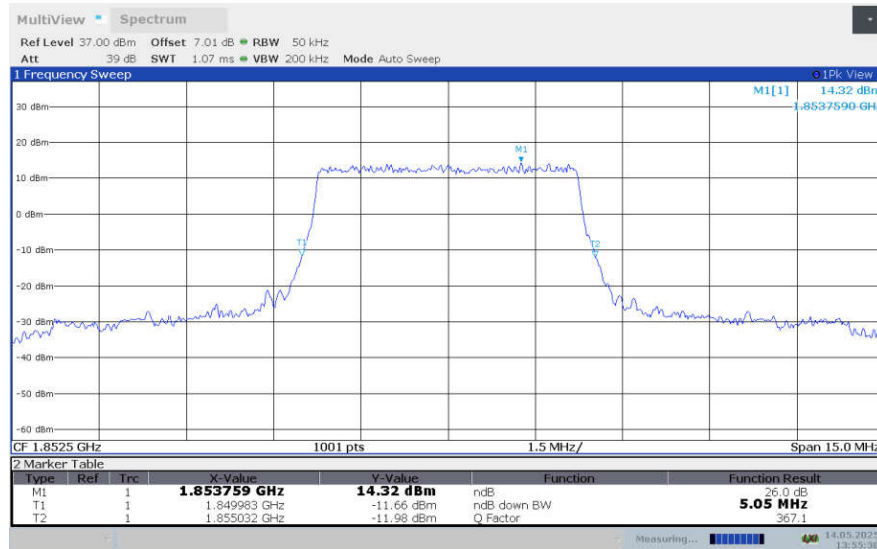
LTE band 2 , 3MHz Bandwidth,HIGH,256QAM (-26dBc BW)



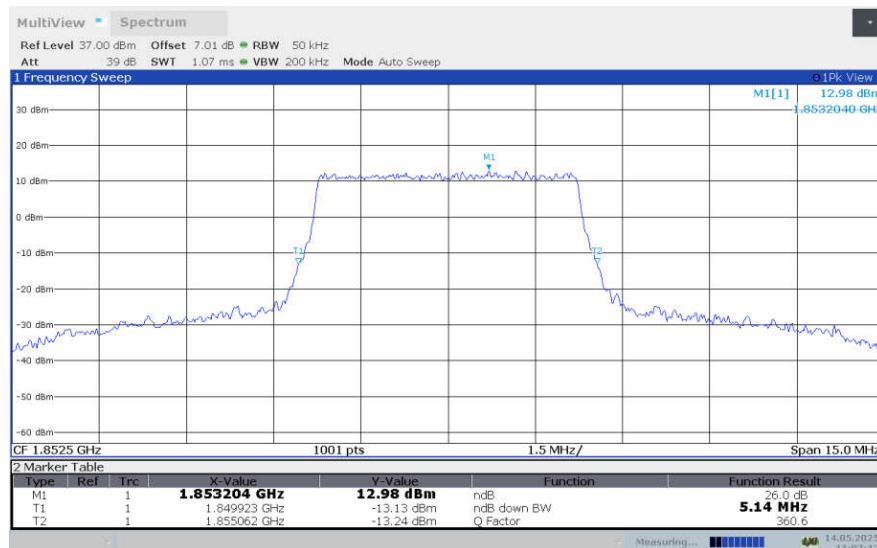
LTE band 2,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)			
	QPSK	16QAM	64QAM	256QAM
1852.5	5.050	5.140	5.095	5.065
1880	5.065	5.035	5.080	5.095
1907.5	5.020	5.020	5.065	5.035

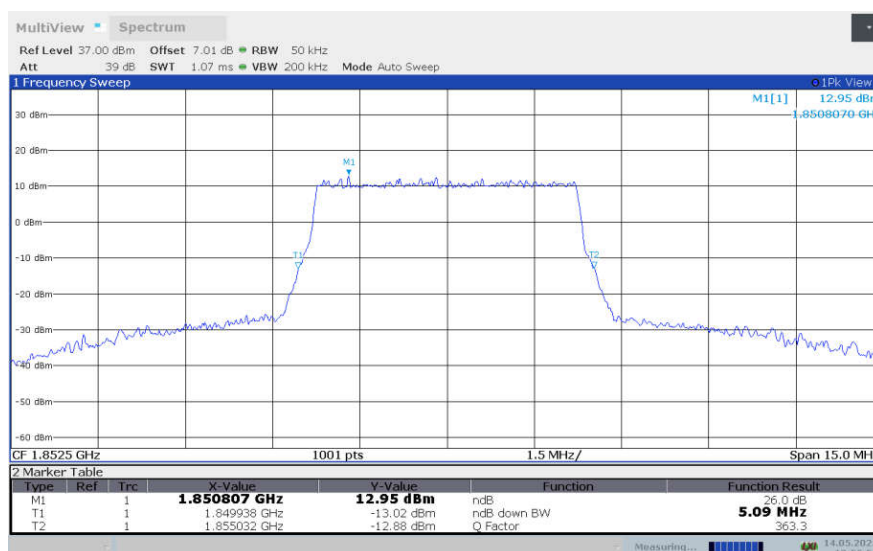
LTE band 2 , 5MHz Bandwidth,LOW,QPSK (-26dBc BW)



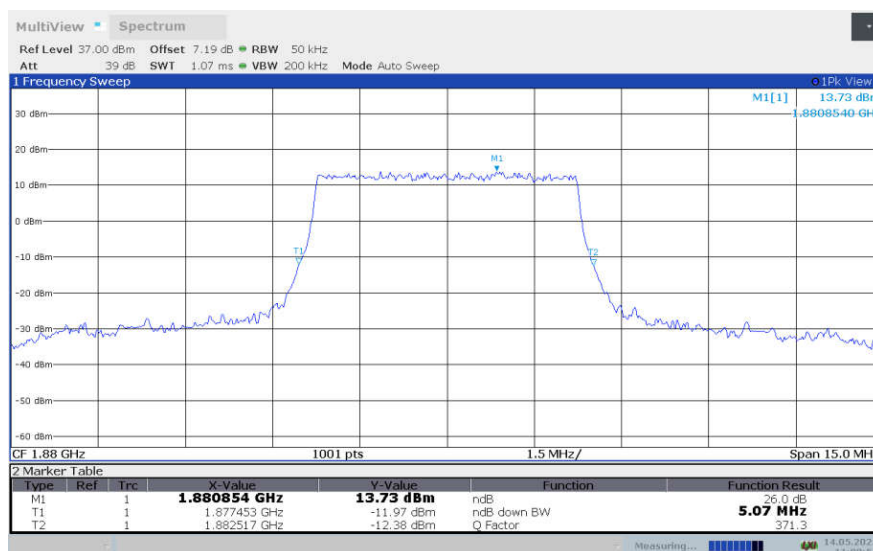
LTE band 2 , 5MHz Bandwidth,LOW,16QAM (-26dBc BW)



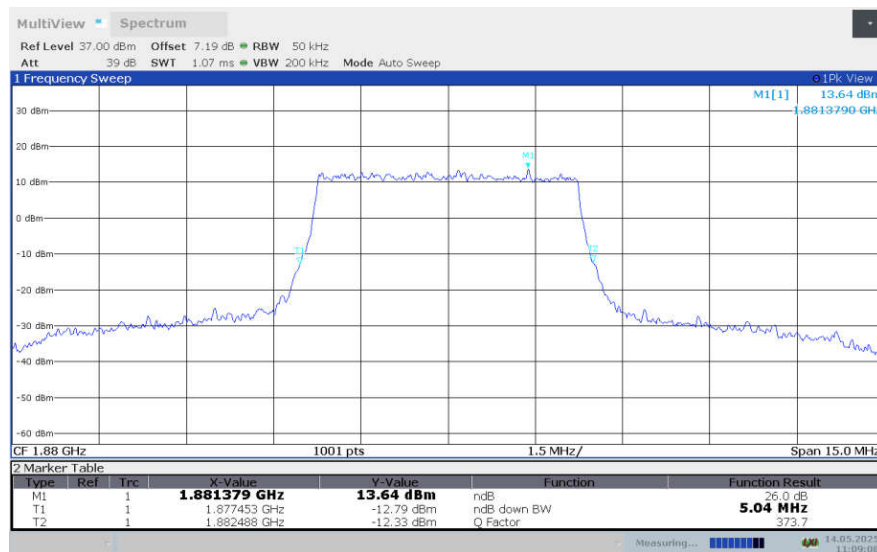
LTE band 2 , 5MHz Bandwidth,LOW,64QAM (-26dBc BW)



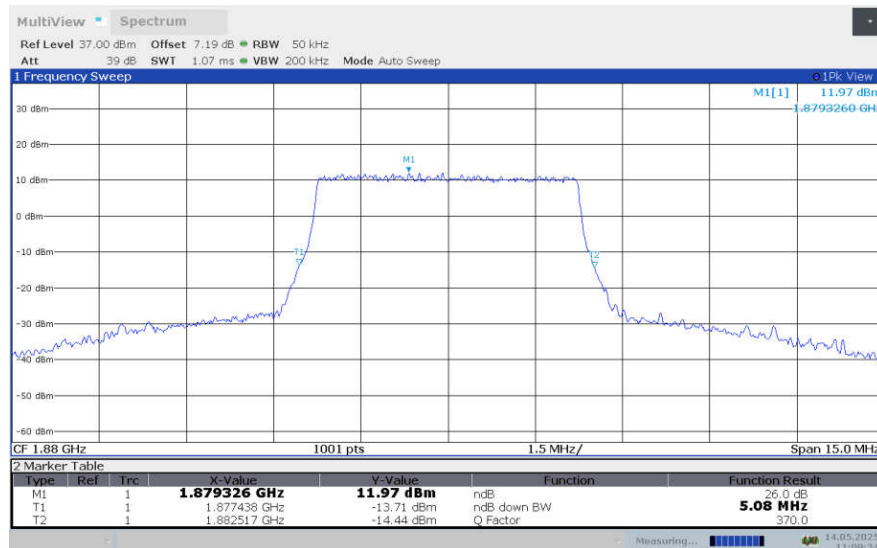
LTE band 2 , 5MHz Bandwidth,MID,QPSK (-26dBc BW)



LTE band 2 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)



LTE band 2 , 5MHz Bandwidth,MID,64QAM (-26dBc BW)



LTE band 2 , 5MHz Bandwidth,HIGH,QPSK (-26dBc BW)