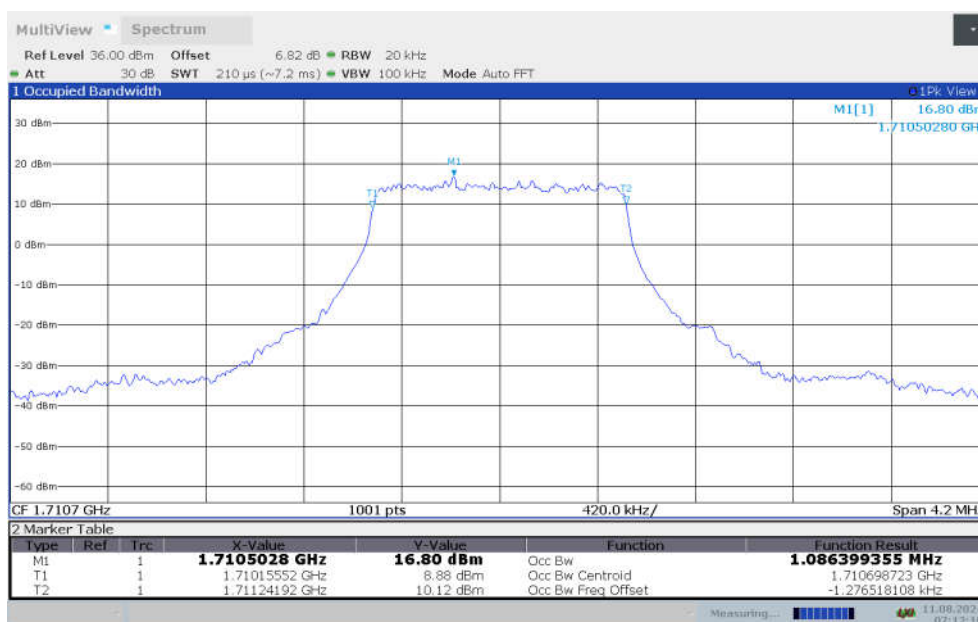




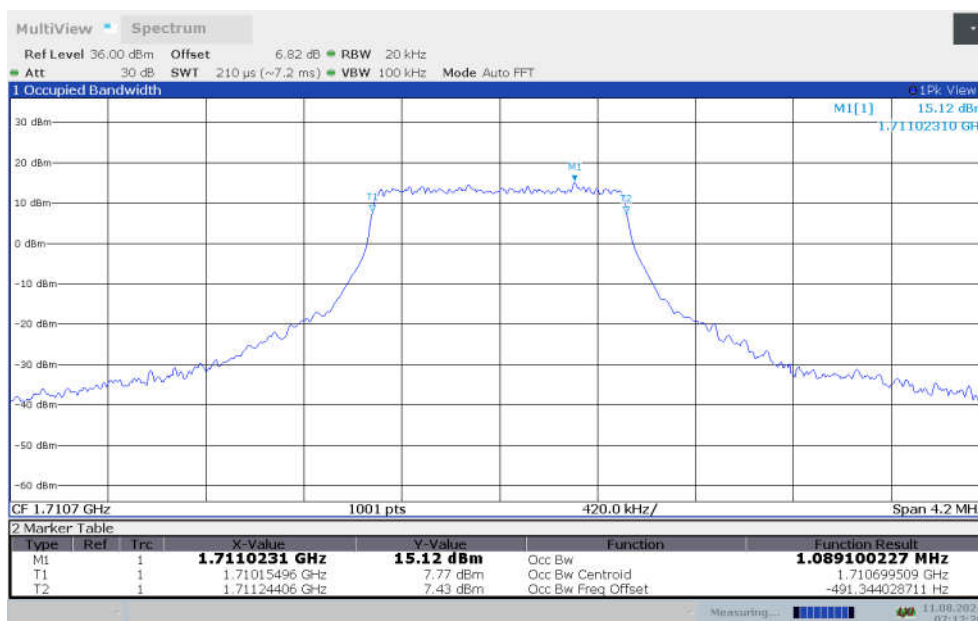
LTE Band 66,1.4MHz(99% BW)

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1710.7	1.086	1.089
1745	1.092	1.092
1779.3	1.094	1.086

LTE Band 66 , 1.4MHz Bandwidth,LOW,QPSK (99% BW)



LTE Band 66 , 1.4MHz Bandwidth,LOW,16QAM (99% BW)

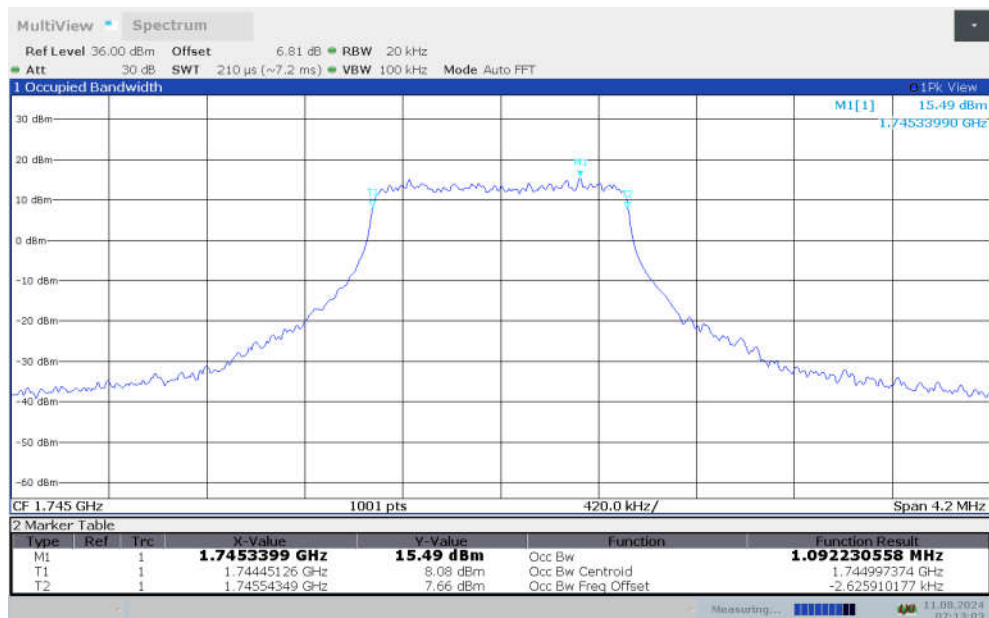




LTE Band 66 , 1.4MHz Bandwidth,MID,QPSK (99% BW)

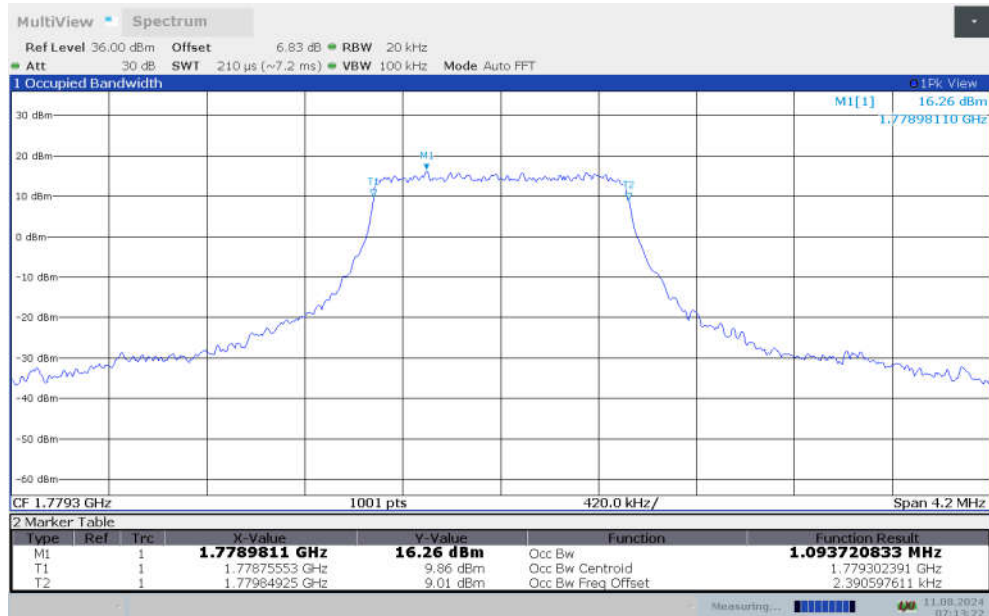


LTE Band 66 , 1.4MHz Bandwidth,MID,16QAM (99% BW)

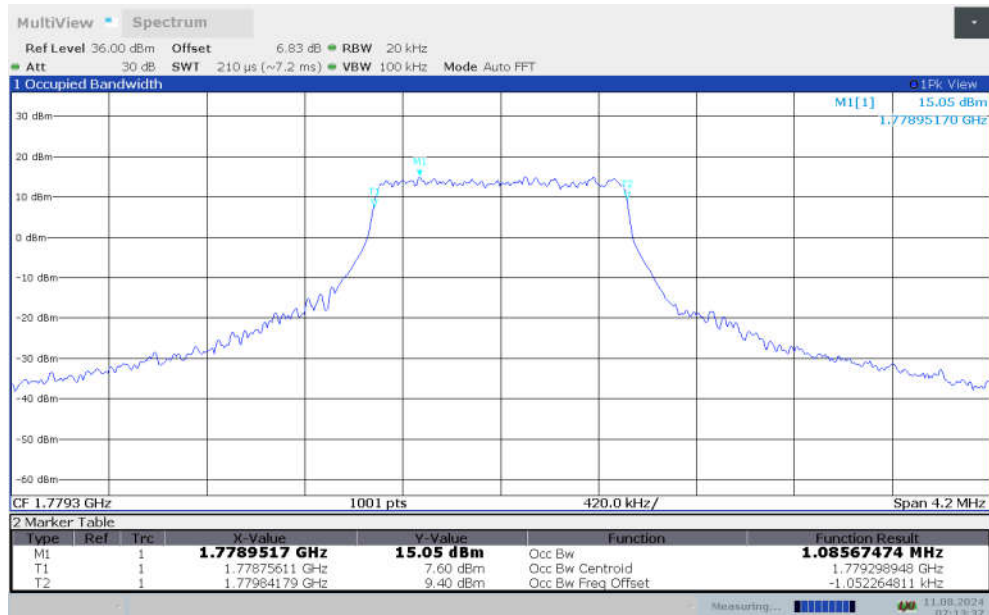




LTE Band 66 , 1.4MHz Bandwidth,HIGH,QPSK (99% BW)



LTE Band 66 , 1.4MHz Bandwidth,HIGH,16QAM (99% BW)

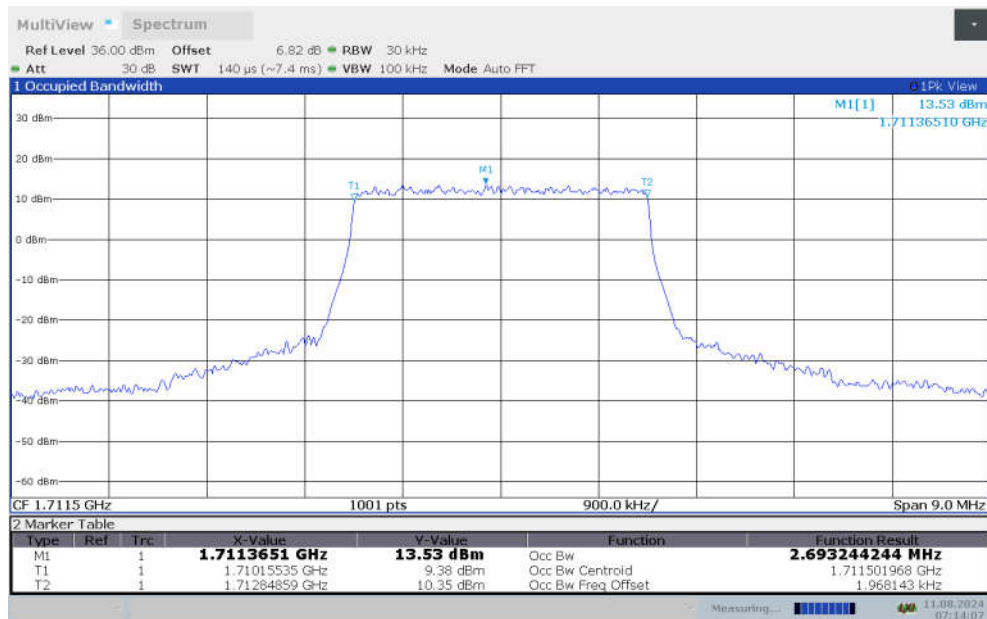




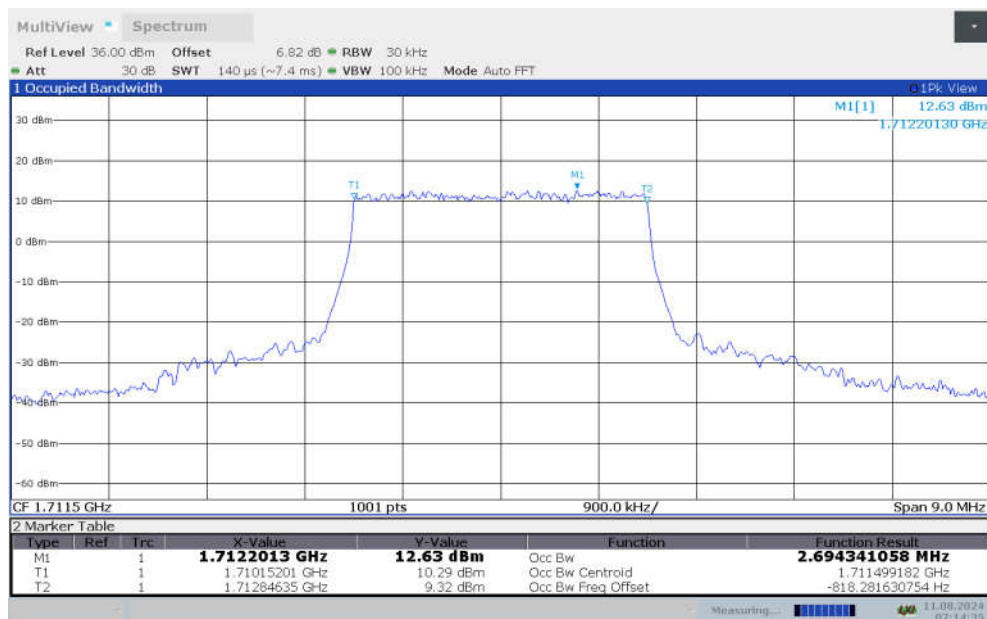
LTE Band 66,3MHz(99% BW)

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1711.5	2.693	2.694
1745	2.694	2.698
1778.5	2.693	2.688

LTE Band 66 , 3MHz Bandwidth,LOW,QPSK (99% BW)

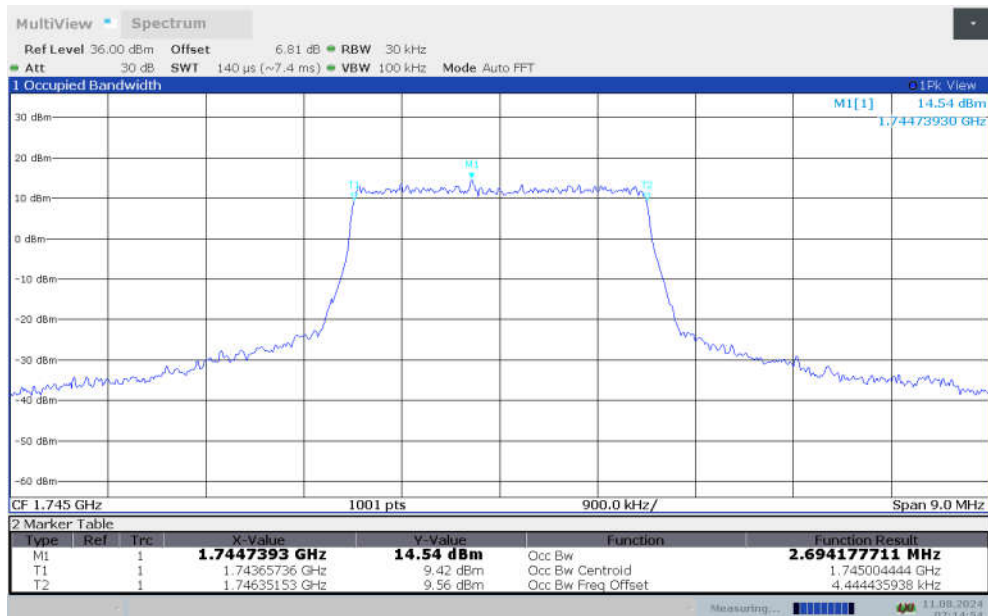


LTE Band 66 , 3MHz Bandwidth,LOW,16QAM (99% BW)

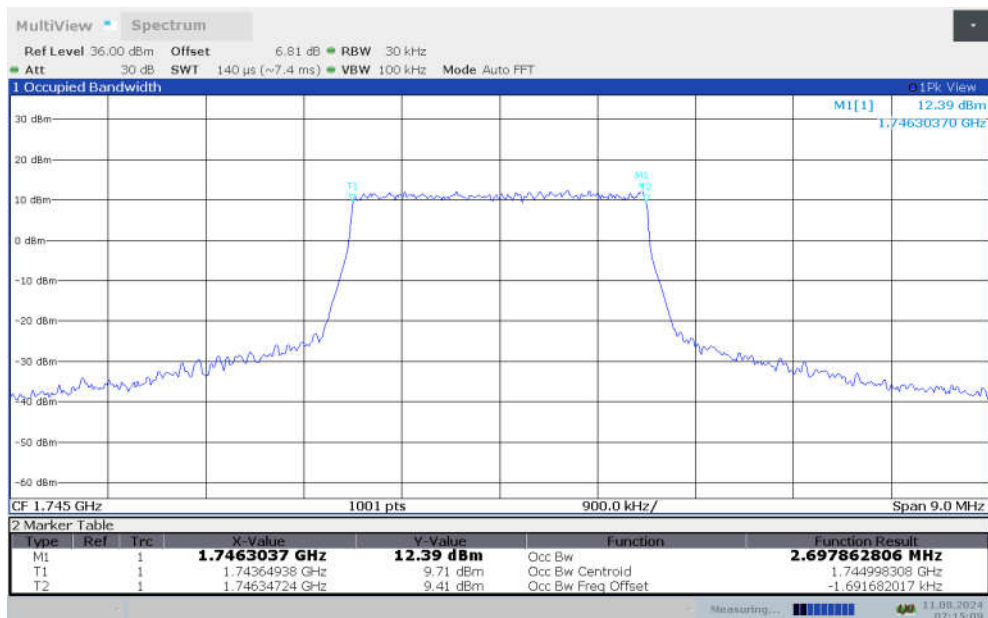




LTE Band 66 , 3MHz Bandwidth,MID,QPSK (99% BW)

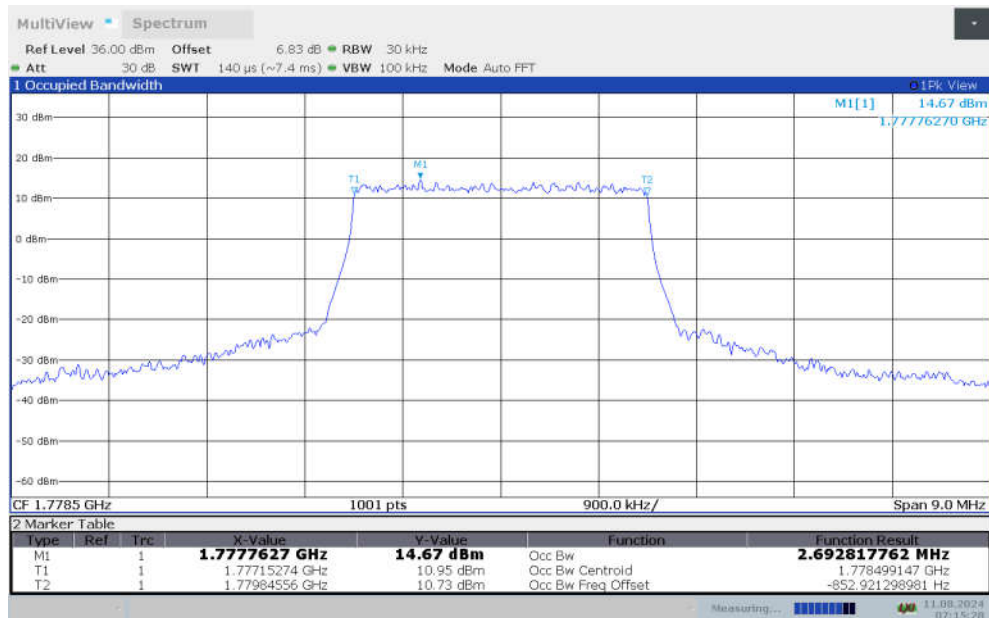


LTE Band 66 , 3MHz Bandwidth,MID,16QAM (99% BW)

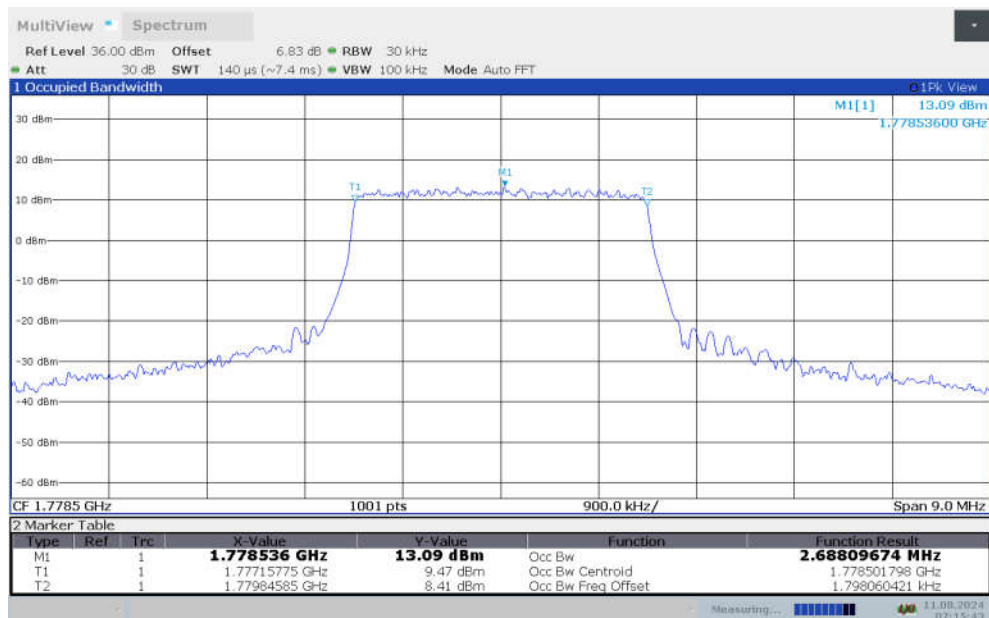




LTE Band 66 , 3MHz Bandwidth,HIGH,QPSK (99% BW)



LTE Band 66 , 3MHz Bandwidth,HIGH,16QAM (99% BW)

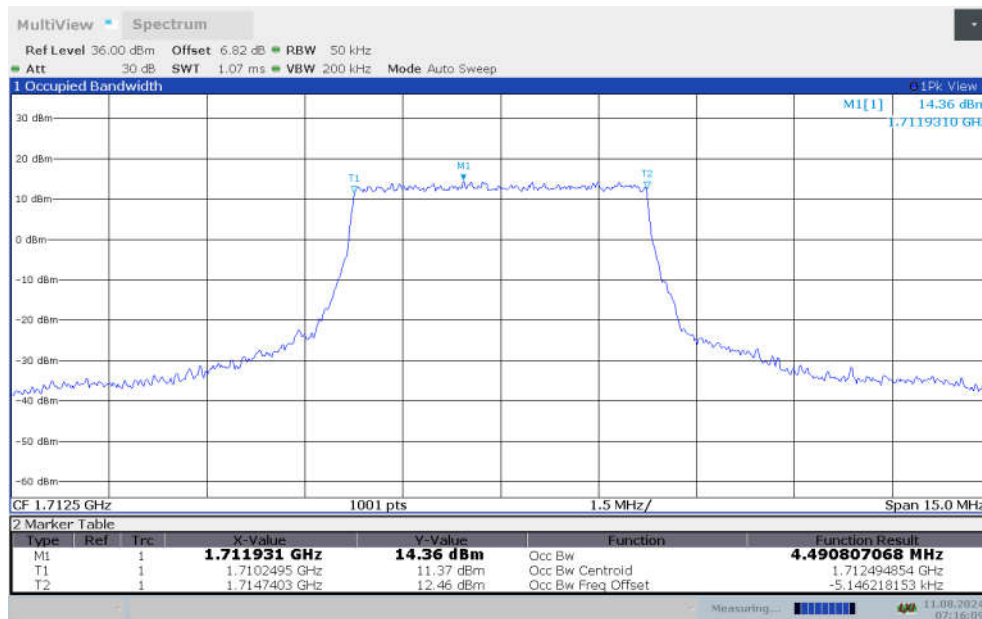




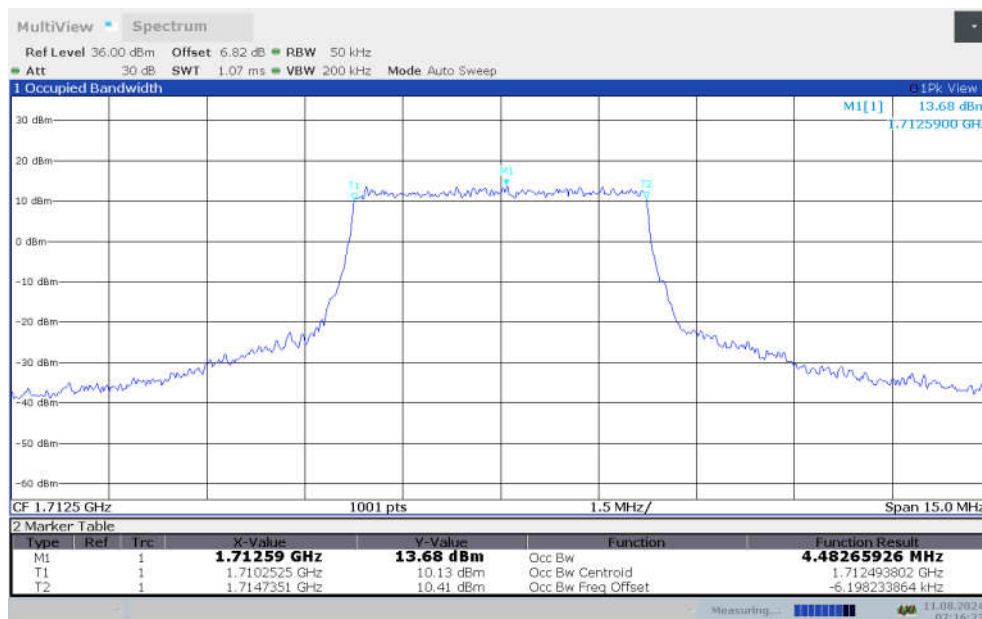
LTE Band 66,5MHz(99% BW)

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1712.5	4.491	4.483
1745	4.480	4.480
1777.5	4.485	4.487

LTE Band 66 , 5MHz Bandwidth,LOW,QPSK (99% BW)

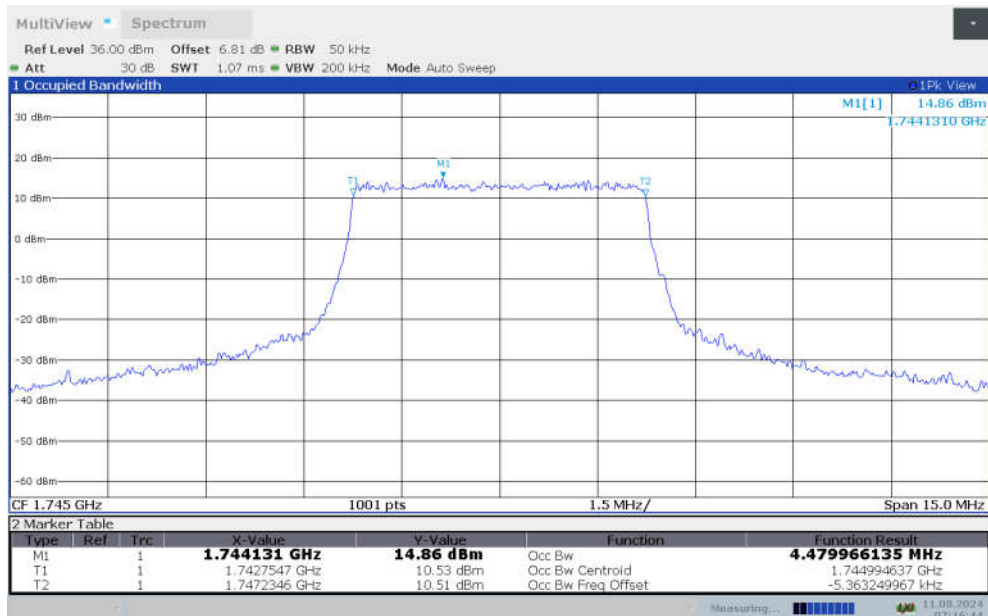


LTE Band 66 , 5MHz Bandwidth,LOW,16QAM (99% BW)

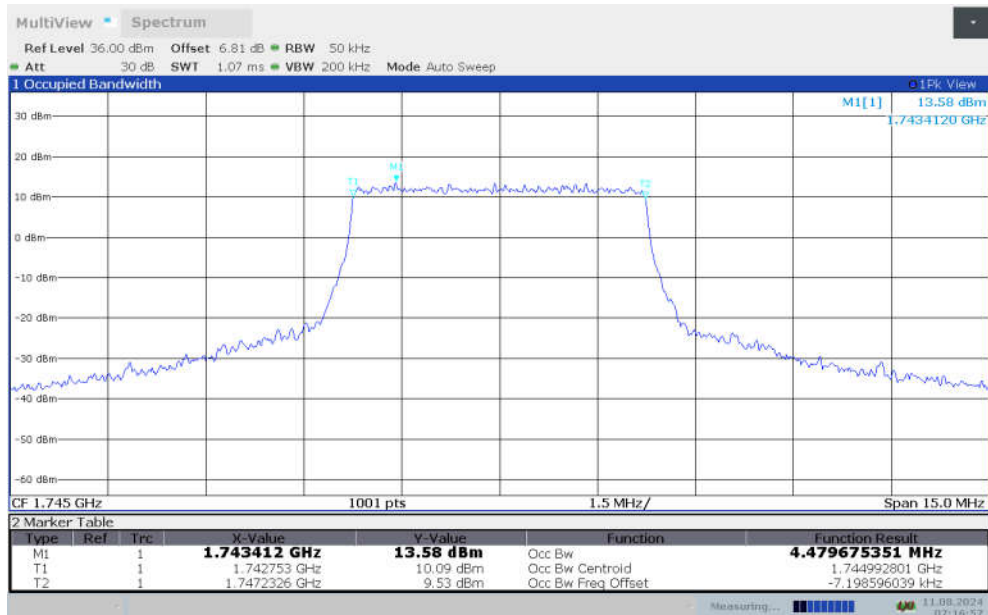




LTE Band 66 , 5MHz Bandwidth,MID,QPSK (99% BW)

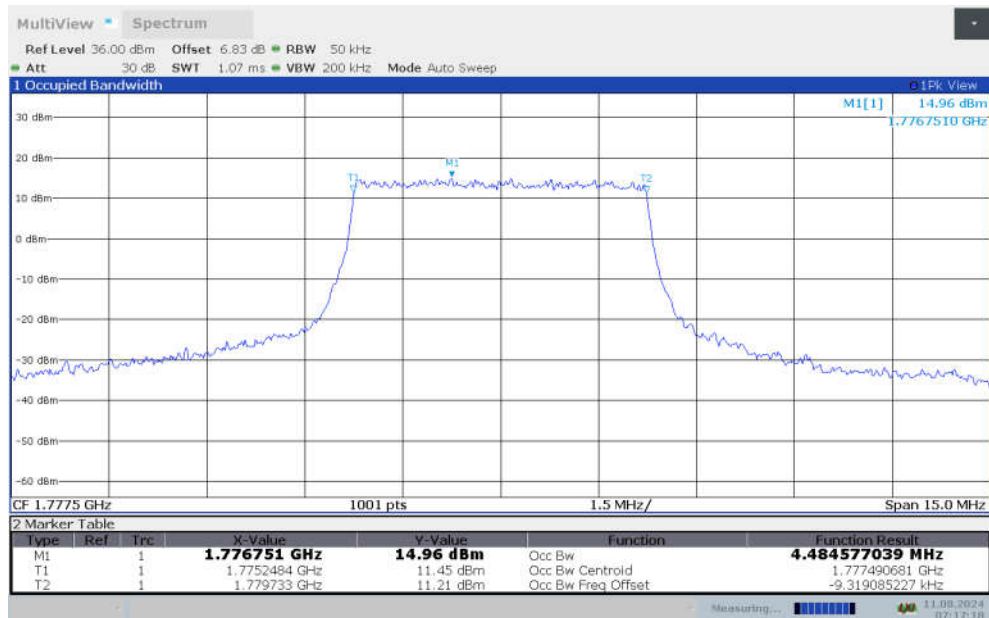


LTE Band 66 , 5MHz Bandwidth,MID,16QAM (99% BW)

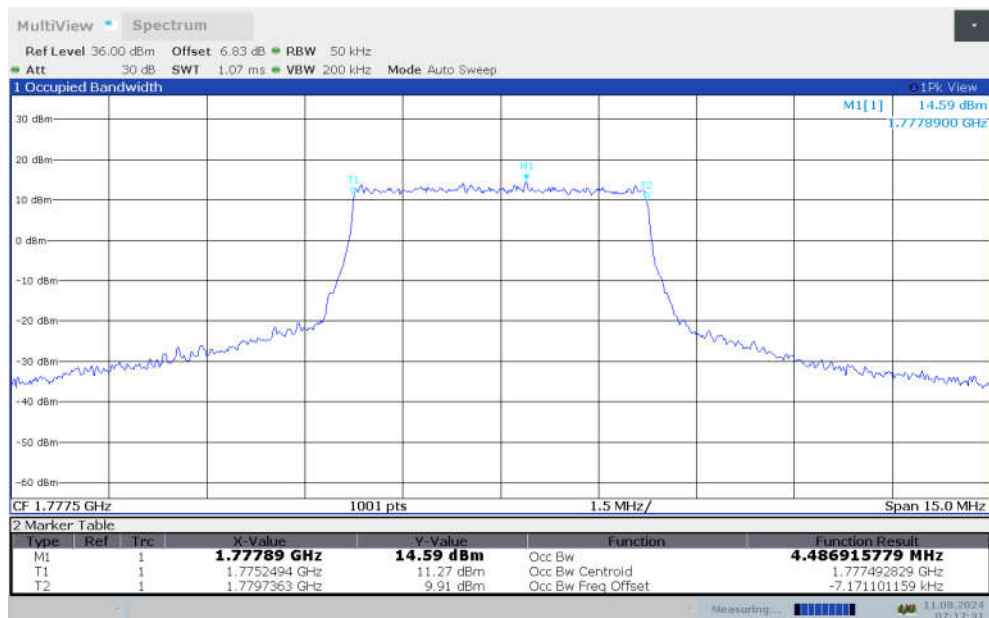




LTE Band 66 , 5MHz Bandwidth,HIGH,QPSK (99% BW)



LTE Band 66 , 5MHz Bandwidth,HIGH,16QAM (99% BW)

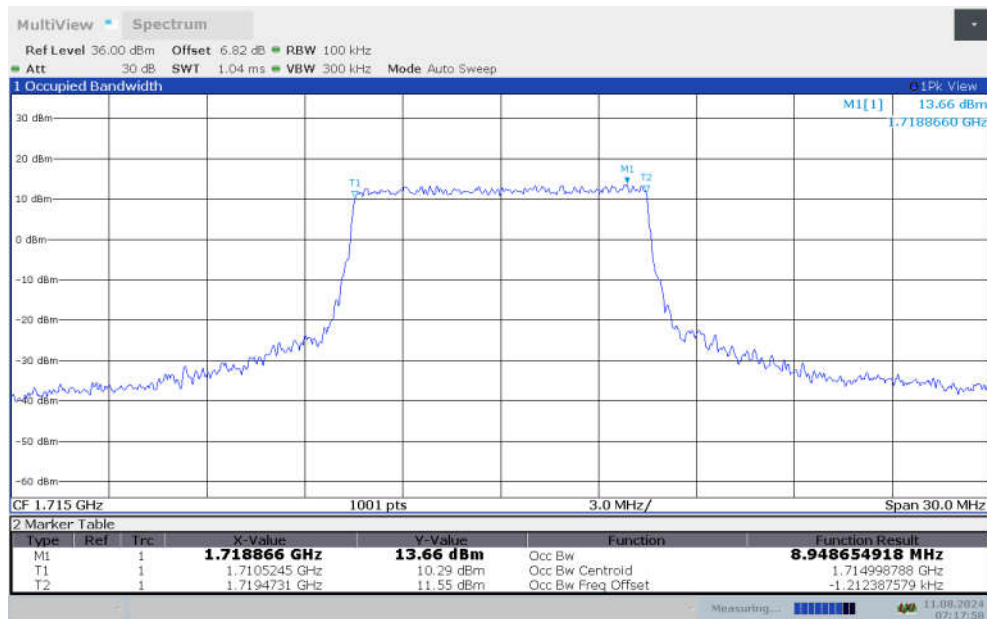




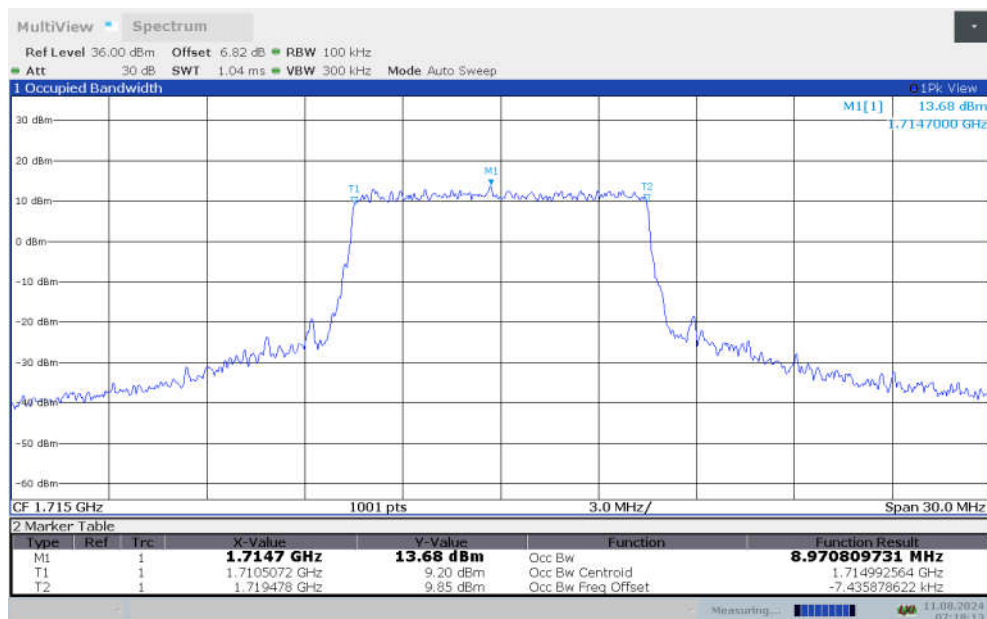
LTE Band 66,10MHz(99% BW)

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1715	8.949	8.971
1745	8.956	8.965
1775	8.969	8.962

LTE Band 66 , 10MHz Bandwidth,LOW,QPSK (99% BW)

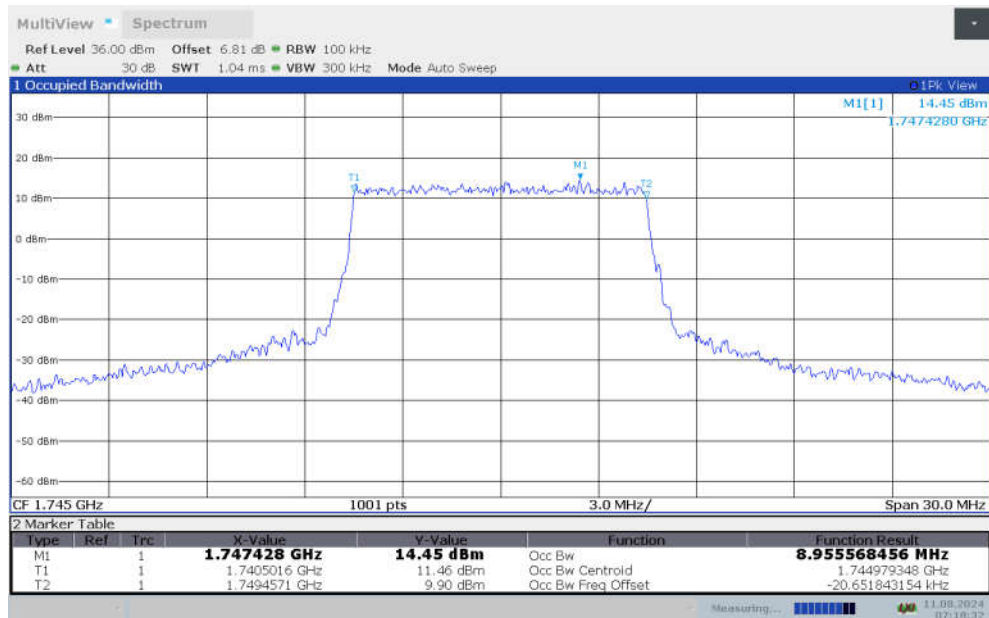


LTE Band 66 , 10MHz Bandwidth,LOW,16QAM (99% BW)

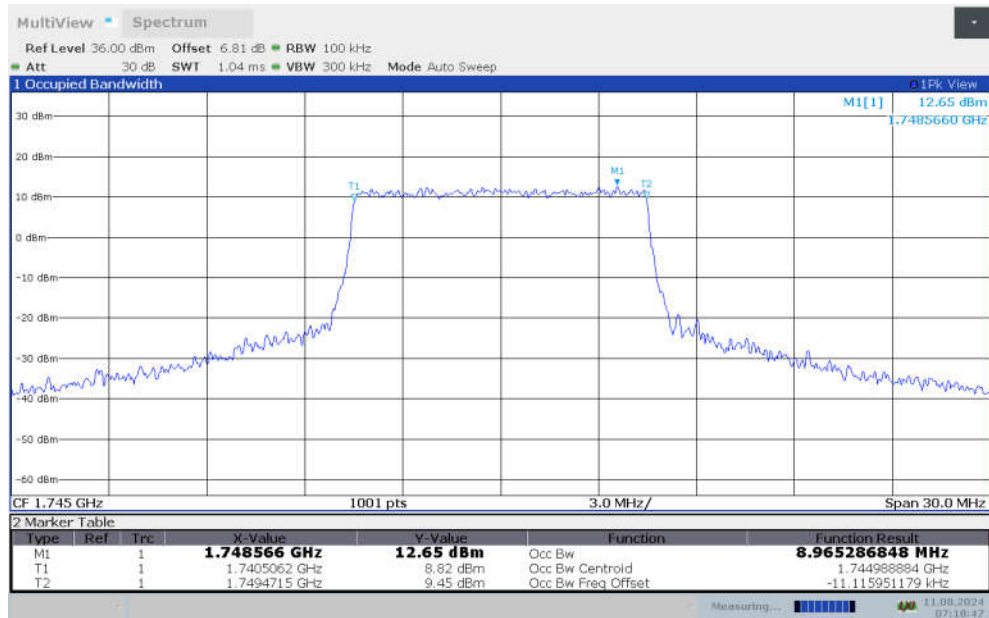




LTE Band 66 , 10MHz Bandwidth,MID,QPSK (99% BW)

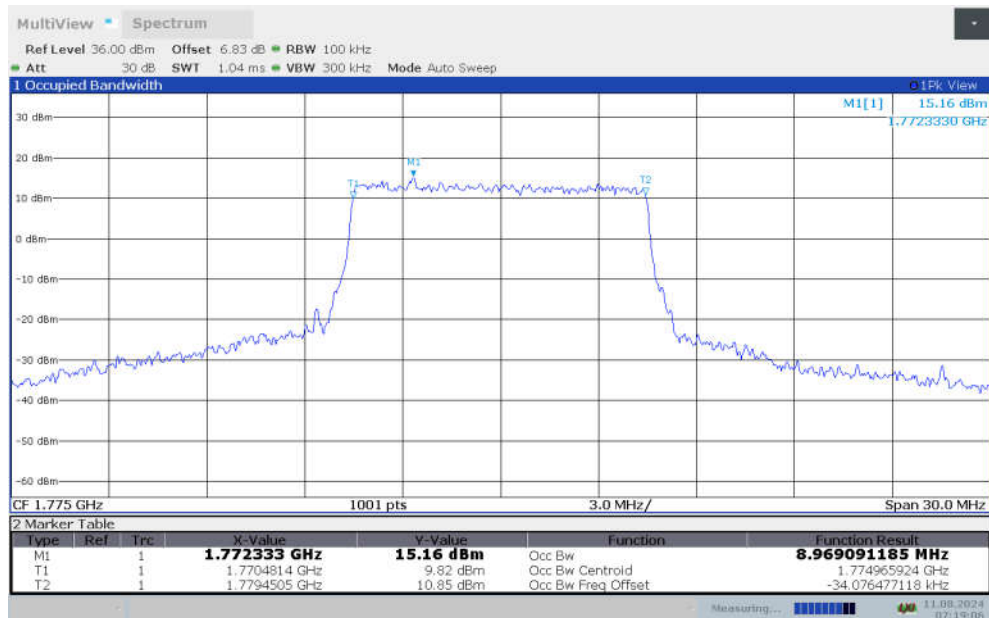


LTE Band 66 , 10MHz Bandwidth,MID,16QAM (99% BW)

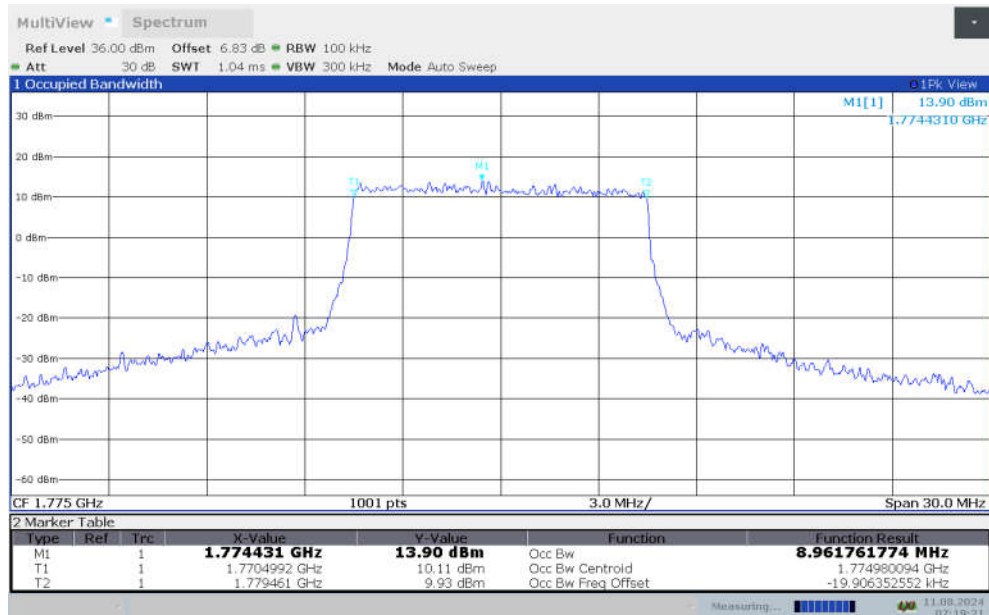




LTE Band 66 , 10MHz Bandwidth,HIGH,QPSK (99% BW)

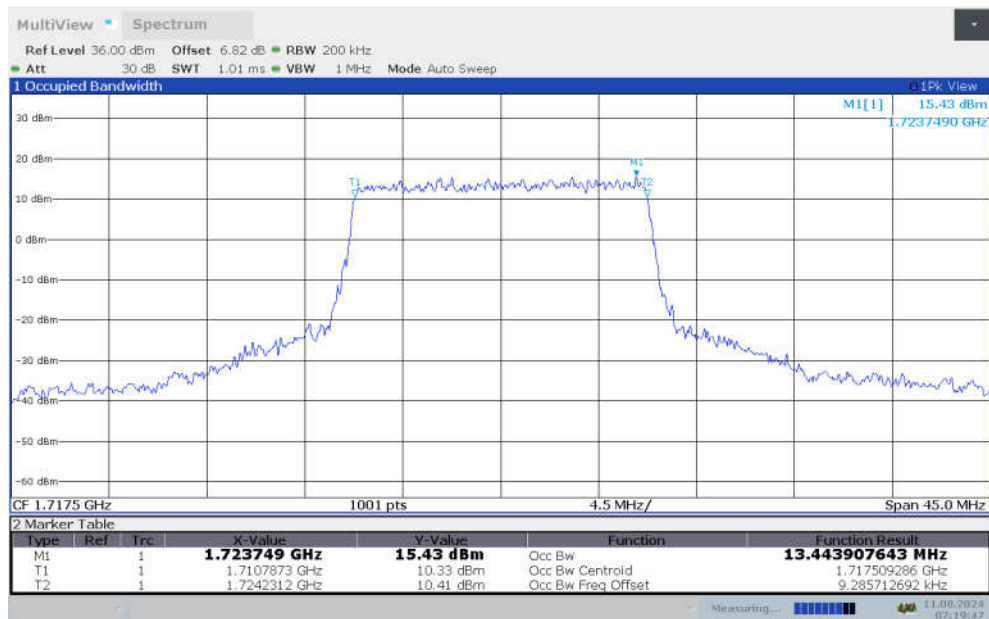
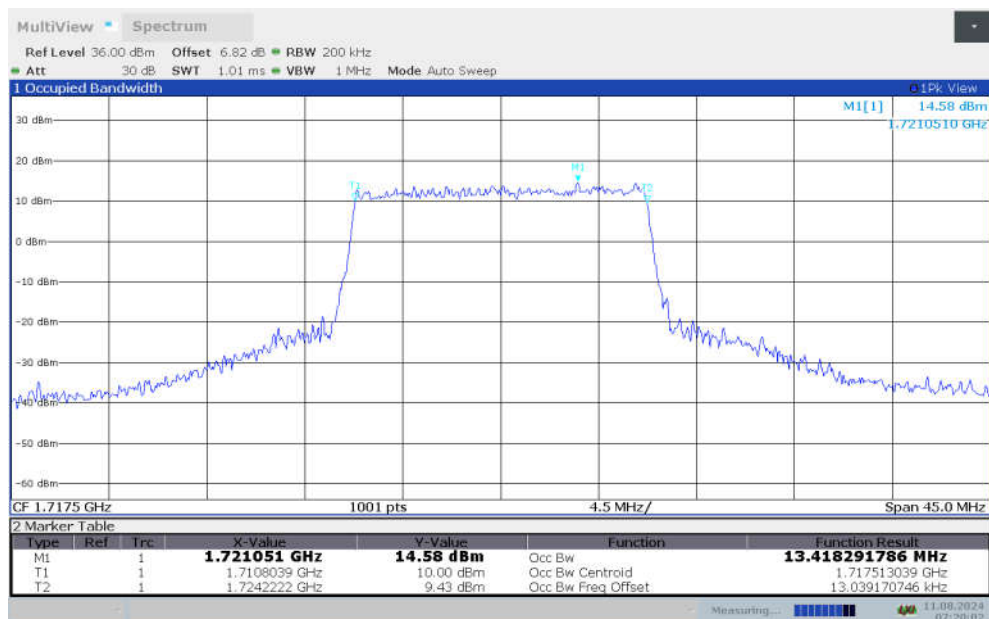


LTE Band 66 , 10MHz Bandwidth,HIGH,16QAM (99% BW)



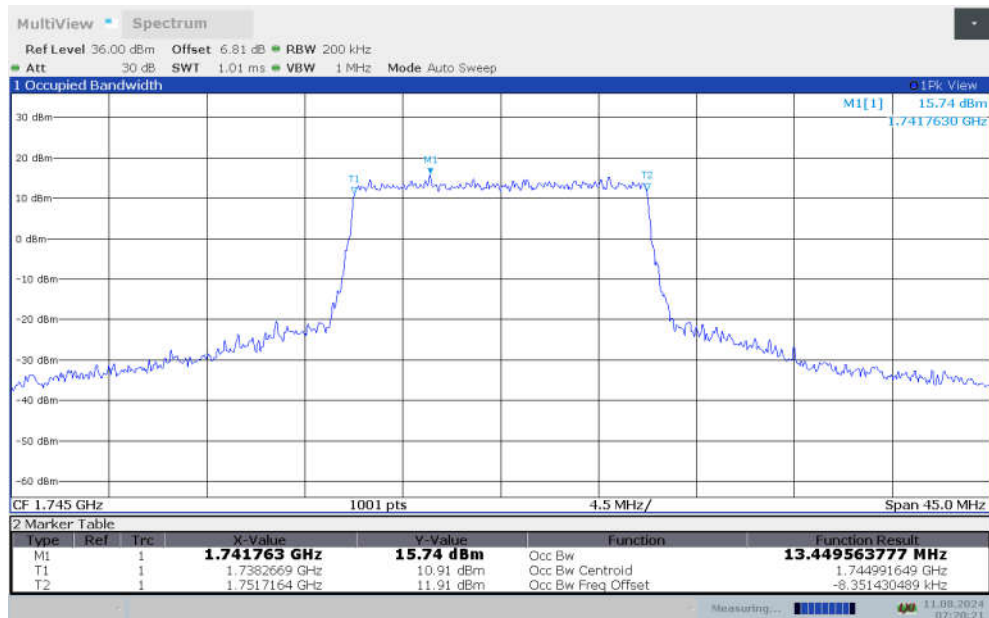
**LTE Band 66,15MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1717.5	13.444	13.418
1745	13.450	13.460
1772.5	13.469	13.444

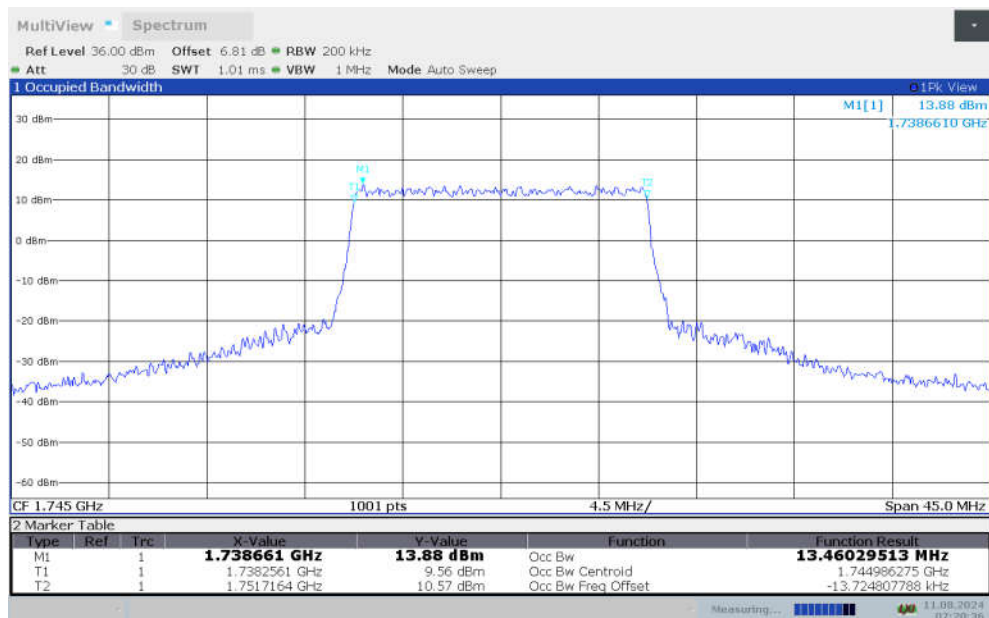
LTE Band 66 , 15MHz Bandwidth,LOW,QPSK (99% BW)**LTE Band 66 , 15MHz Bandwidth,LOW,16QAM (99% BW)**



LTE Band 66 , 15MHz Bandwidth,MID,QPSK (99% BW)

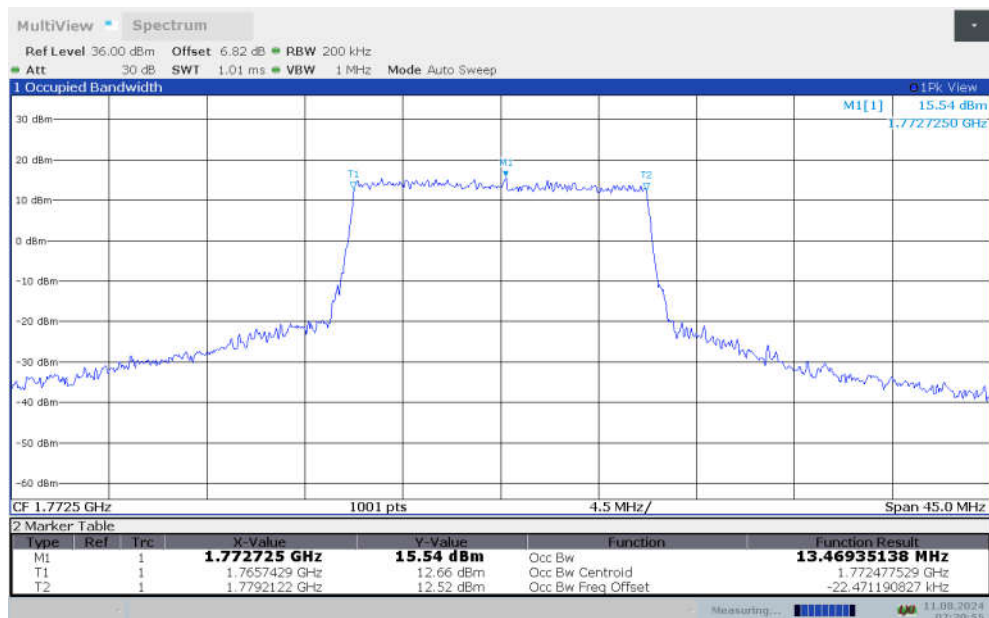


LTE Band 66 , 15MHz Bandwidth,MID,16QAM (99% BW)

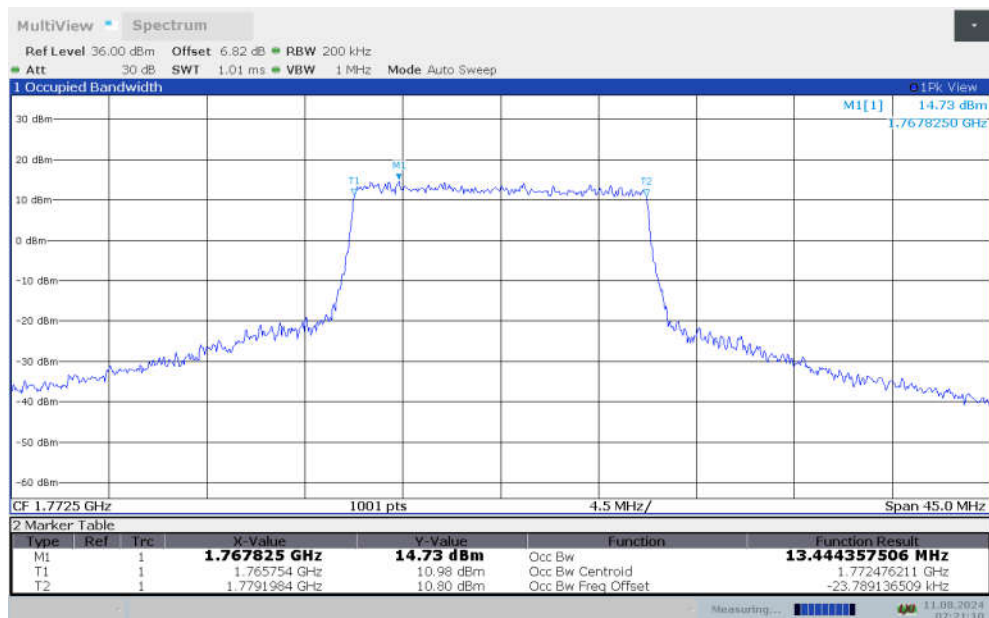




LTE Band 66 , 15MHz Bandwidth,HIGH,QPSK (99% BW)

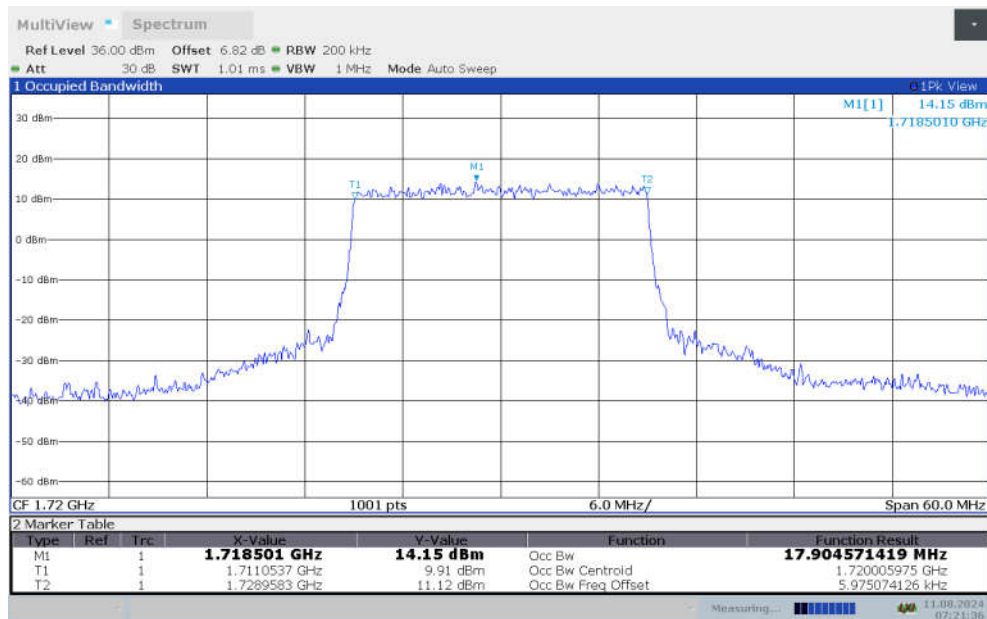
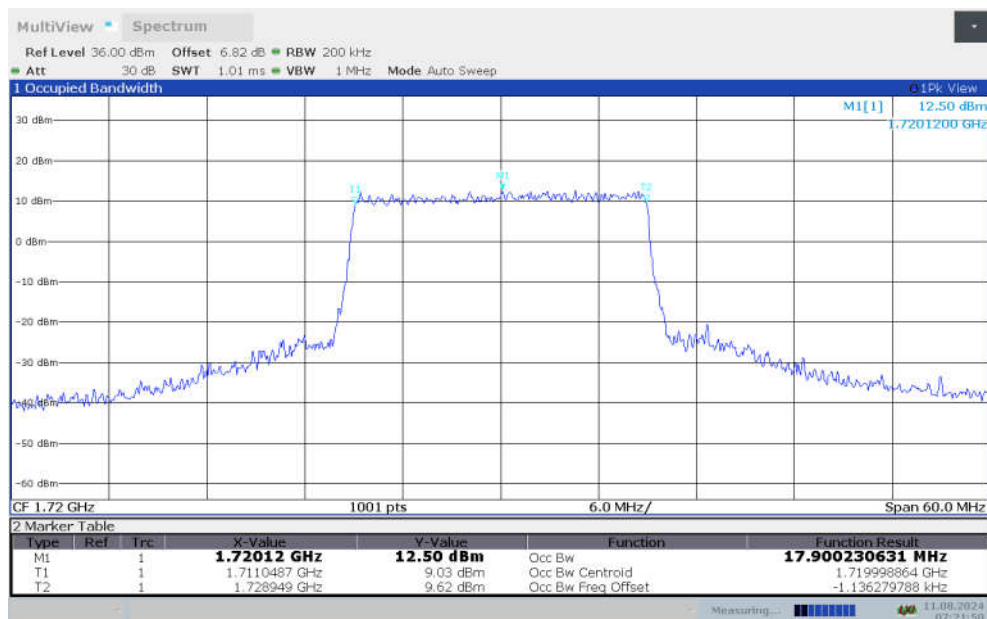


LTE Band 66 , 15MHz Bandwidth,HIGH,16QAM (99% BW)



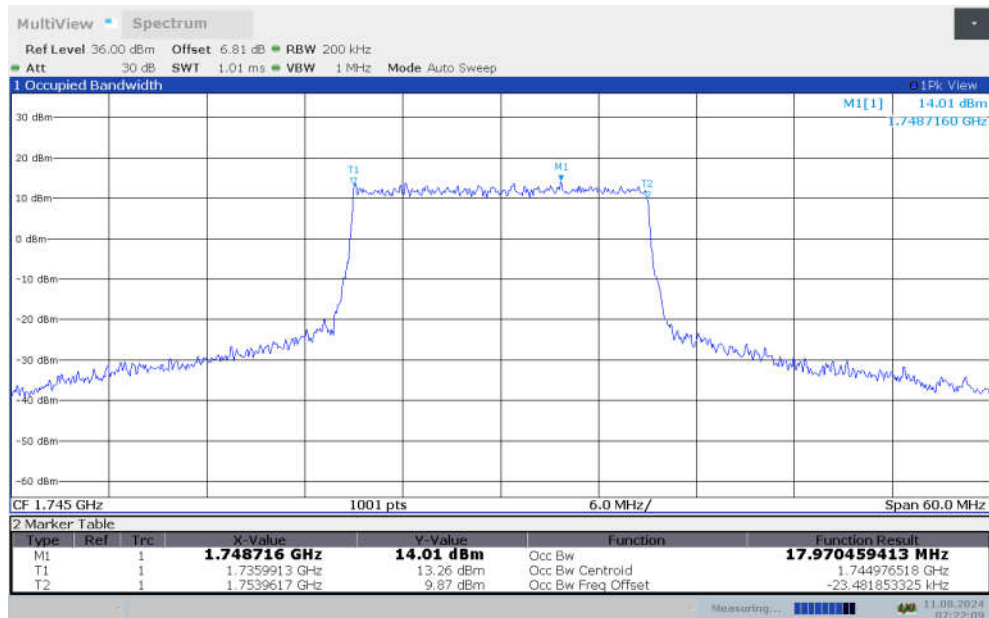
**LTE Band 66,20MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW)(MHz)	
	QPSK	16QAM
1720	17.905	17.900
1745	17.970	17.920
1770	17.894	17.878

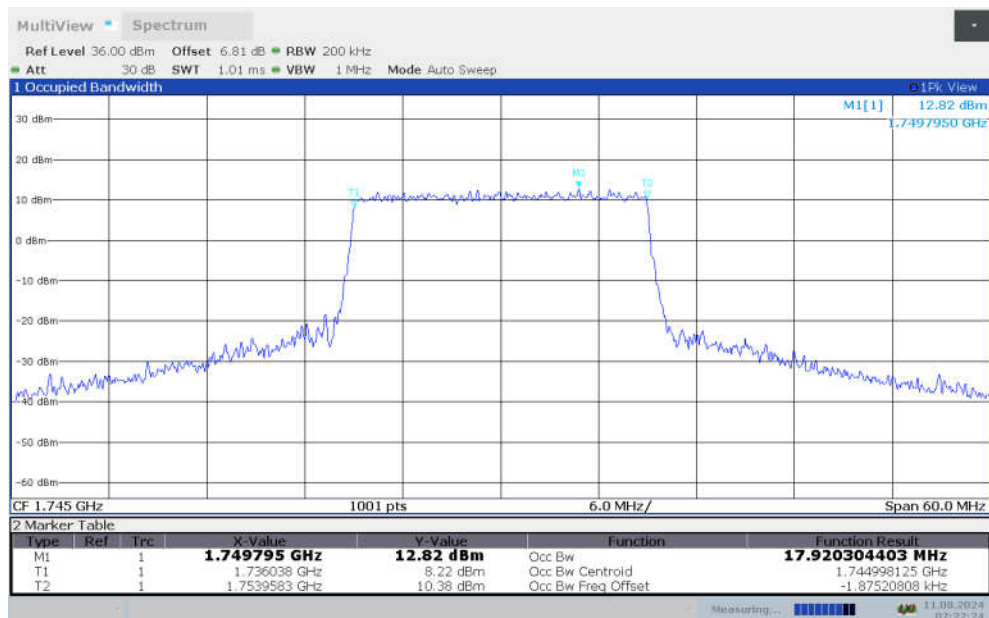
LTE Band 66 , 20MHz Bandwidth,LOW,QPSK (99% BW)**LTE Band 66 , 20MHz Bandwidth,LOW,16QAM (99% BW)**



LTE Band 66 , 20MHz Bandwidth,MID,QPSK (99% BW)

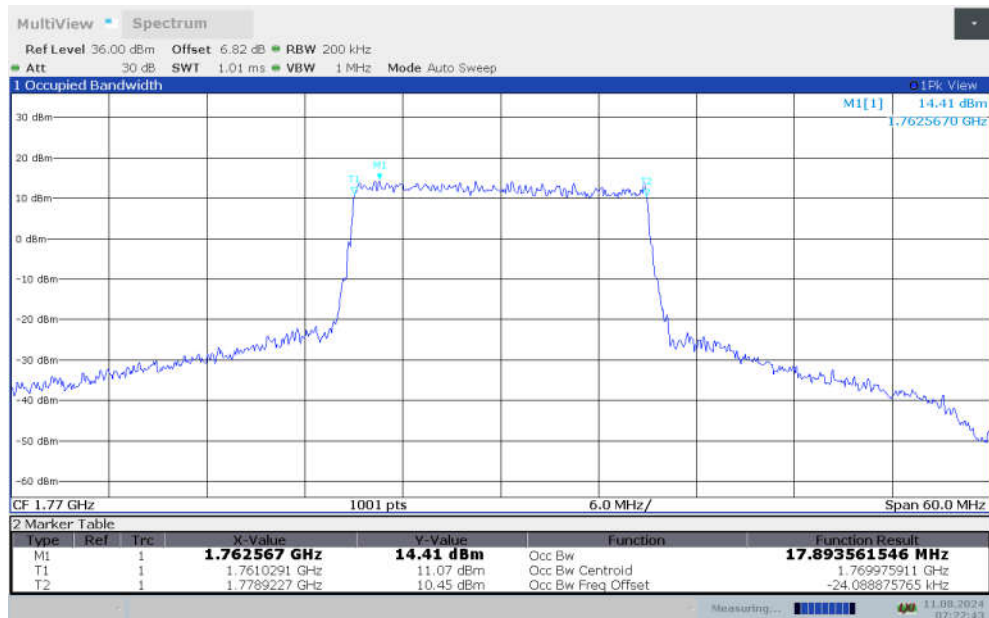


LTE Band 66 , 20MHz Bandwidth,MID,16QAM (99% BW)

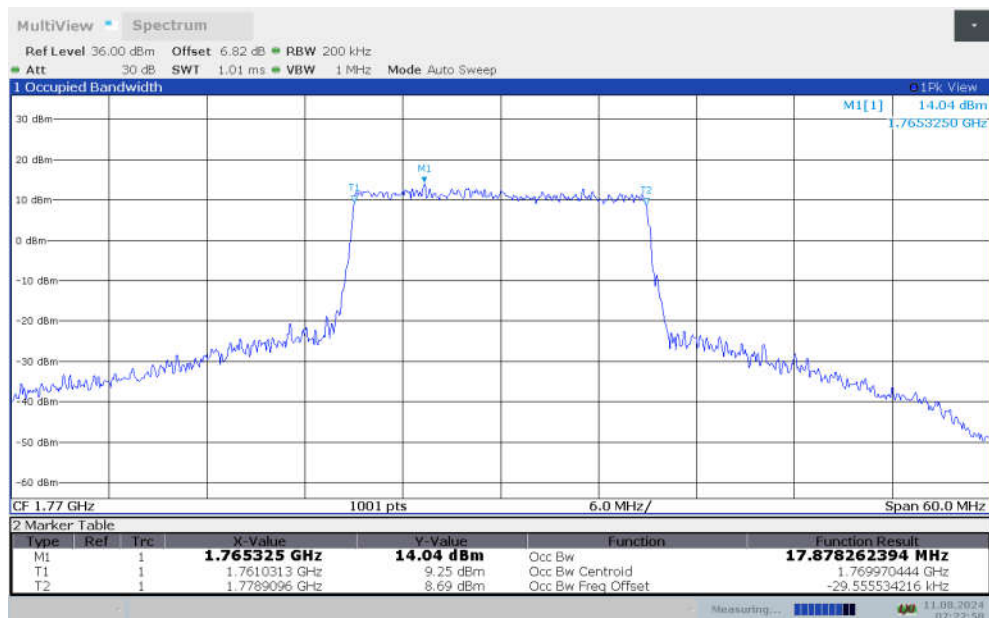




LTE Band 66 , 20MHz Bandwidth,HIGH,QPSK (99% BW)



LTE Band 66 , 20MHz Bandwidth,HIGH,16QAM (99% BW)





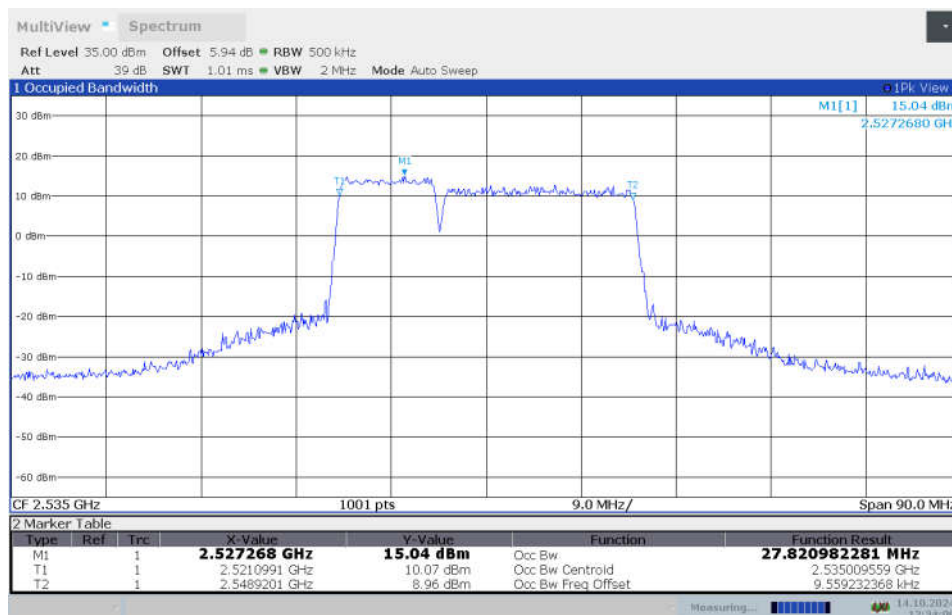
LTE CA_7C, 10MHz+20MHz(99% BW)

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2535.0	27.794	27.821

LTE CA_7C , 10MHz+20MHz Bandwidth,QPSK (99% BW)

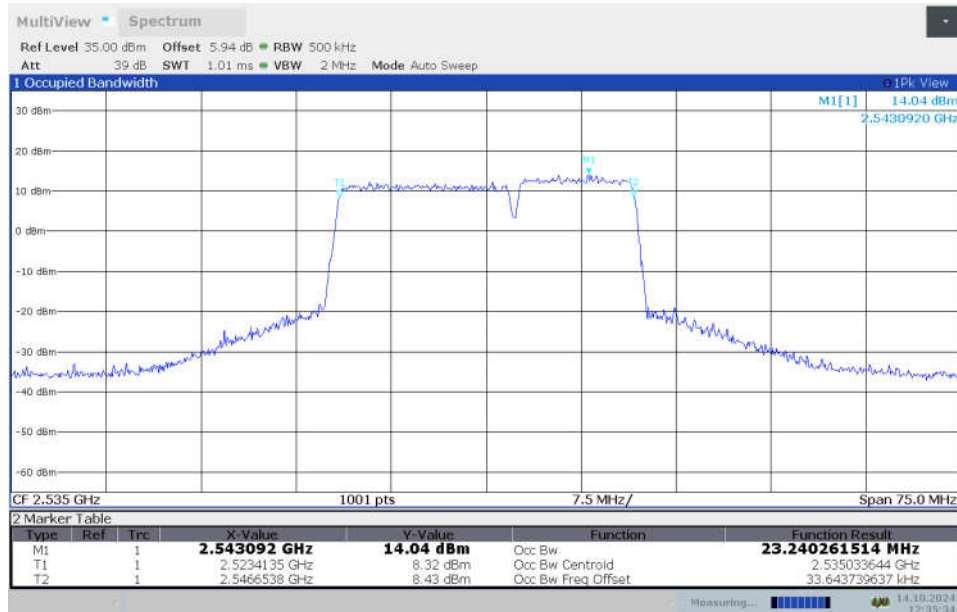
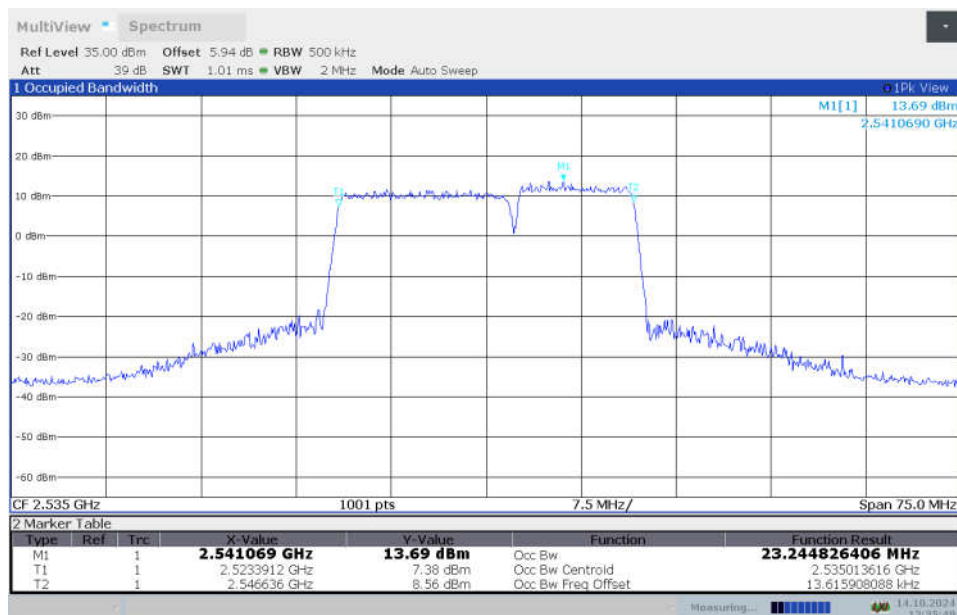


LTE CA_7C , 10MHz+20MHz Bandwidth,16QAM (99% BW)



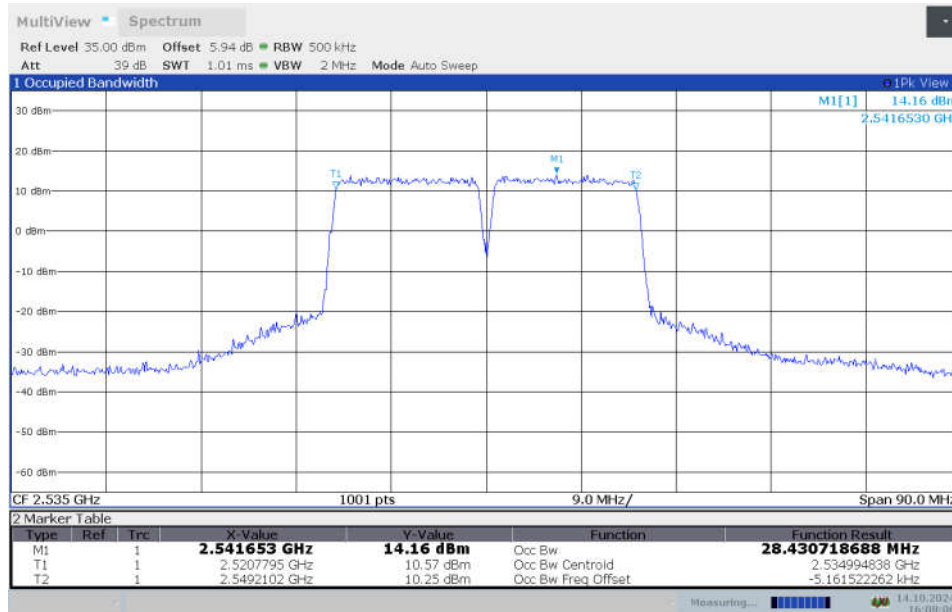
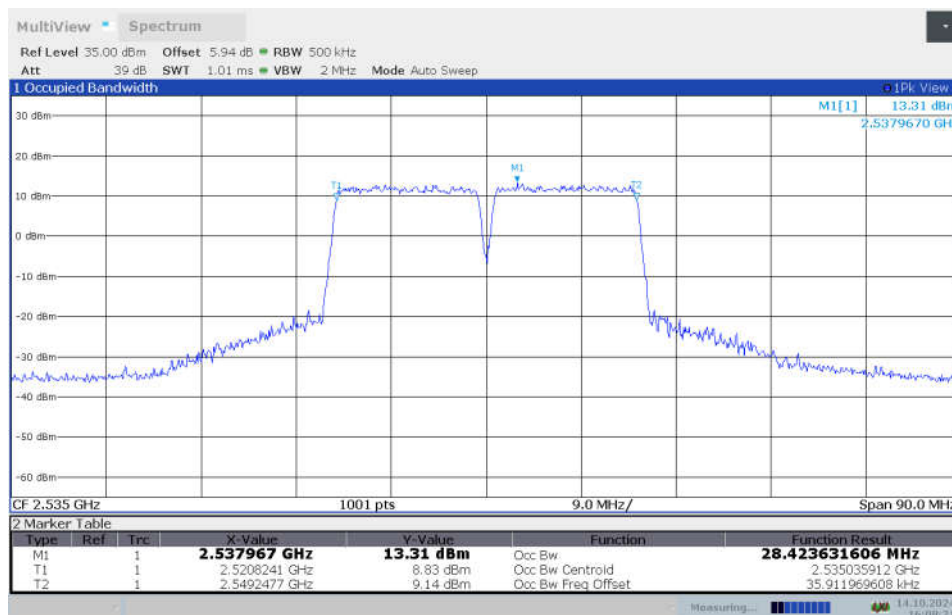
**LTE CA_7C, 15MHz+10MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2535.0	23.240	23.245

LTE CA_7C , 15MHz+10MHz Bandwidth,QPSK (99% BW)**LTE CA_7C , 15MHz+10MHz Bandwidth,16QAM (99% BW)**

**LTE CA_7C, 15MHz+15MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2535.0	28.431	28.424

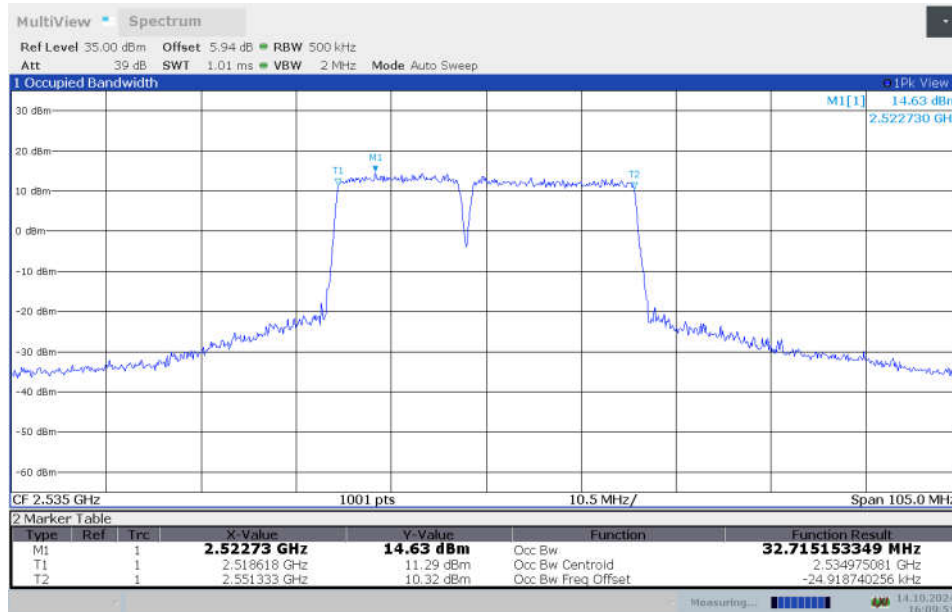
LTE CA_7C , 15MHz+15MHz Bandwidth,QPSK (99% BW)**LTE CA_7C , 15MHz+15MHz Bandwidth,16QAM (99% BW)**



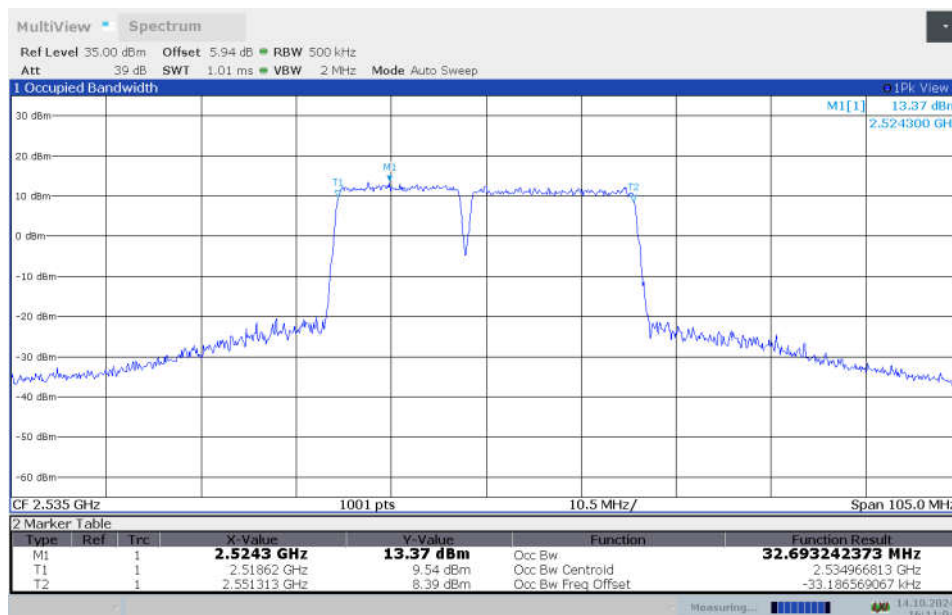
LTE CA_7C, 15MHz+20MHz(99% BW)

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2535.0	32.715	32.693

LTE CA_7C , 15MHz+20MHz Bandwidth,QPSK (99% BW)

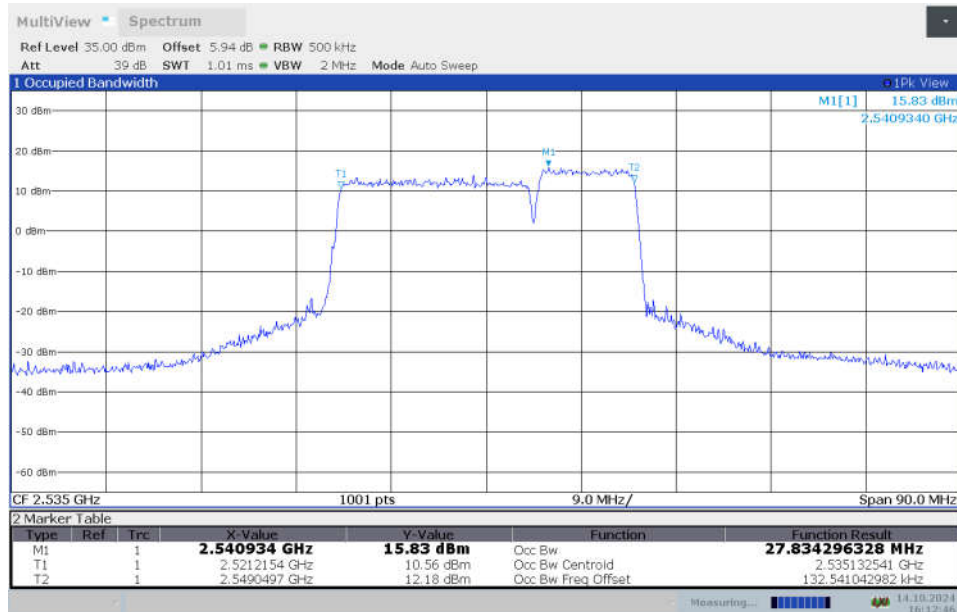
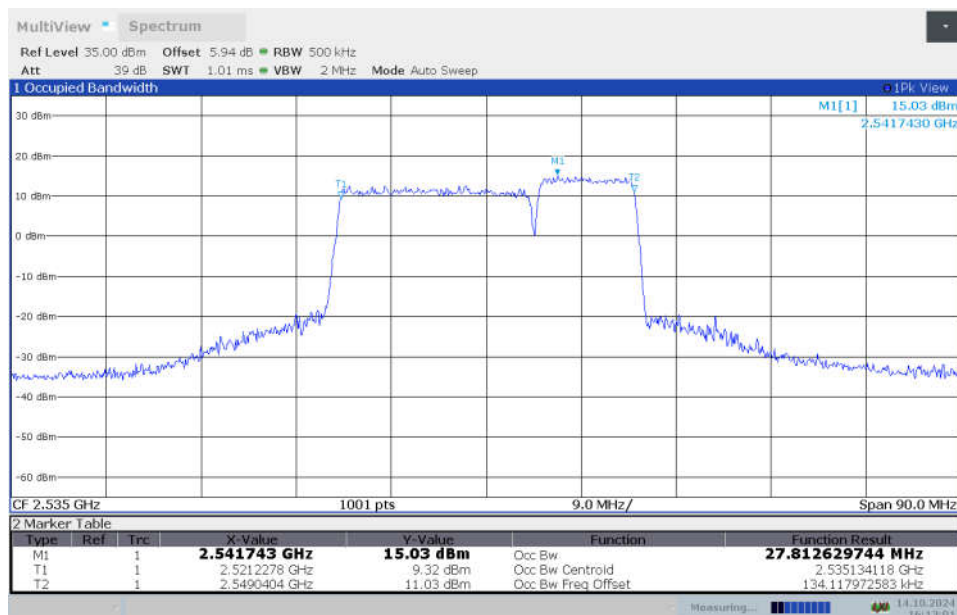


LTE CA_7C , 15MHz+20MHz Bandwidth,16QAM (99% BW)



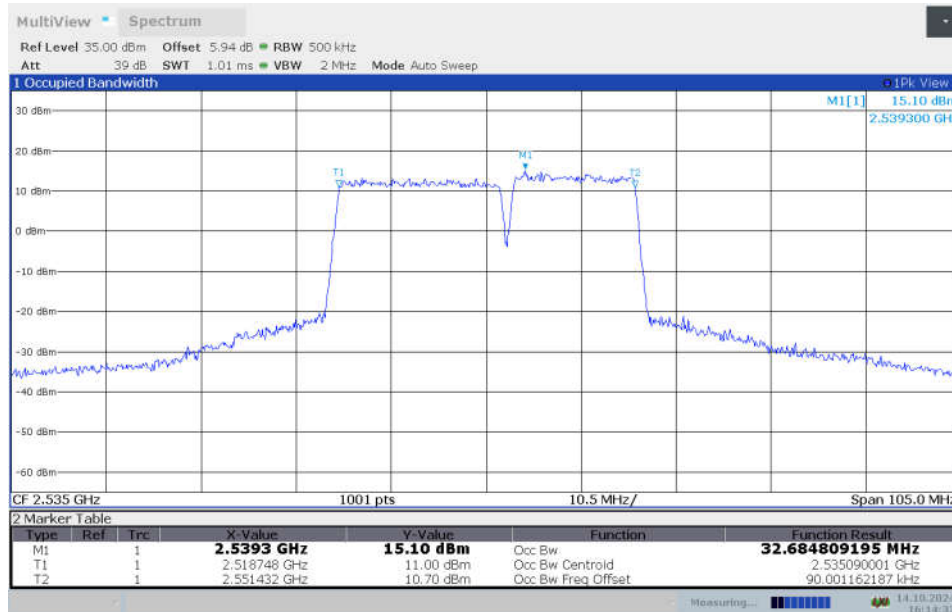
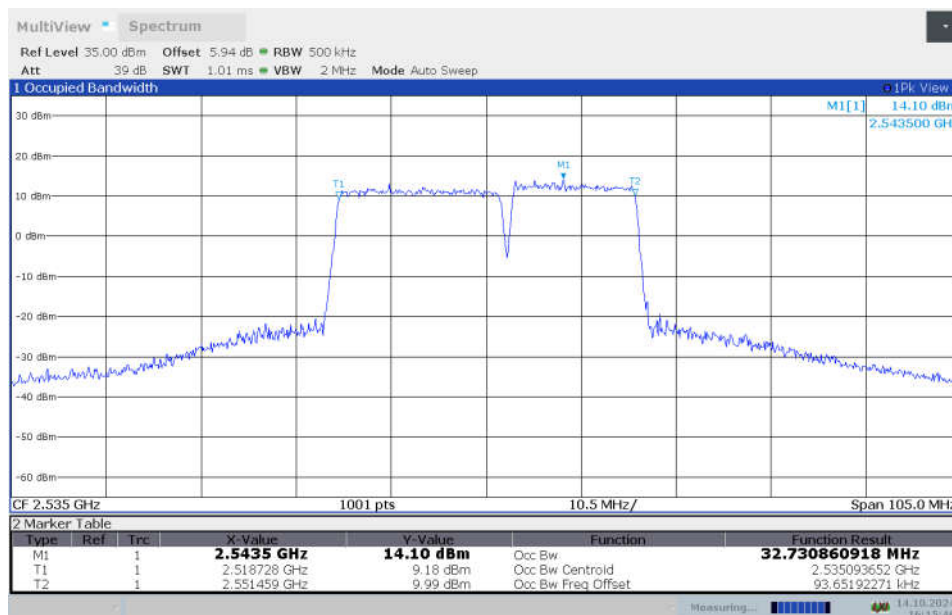
**LTE CA_7C, 20MHz+10MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2535.0	27.834	27.813

LTE CA_7C , 20MHz+10MHz Bandwidth,QPSK (99% BW)**LTE CA_7C , 20MHz+10MHz Bandwidth,16QAM (99% BW)**

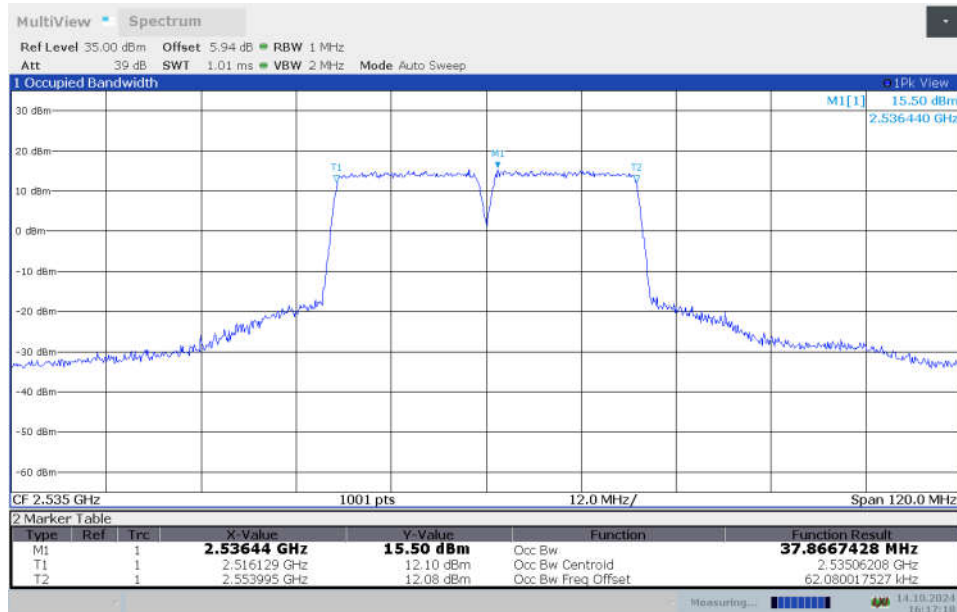
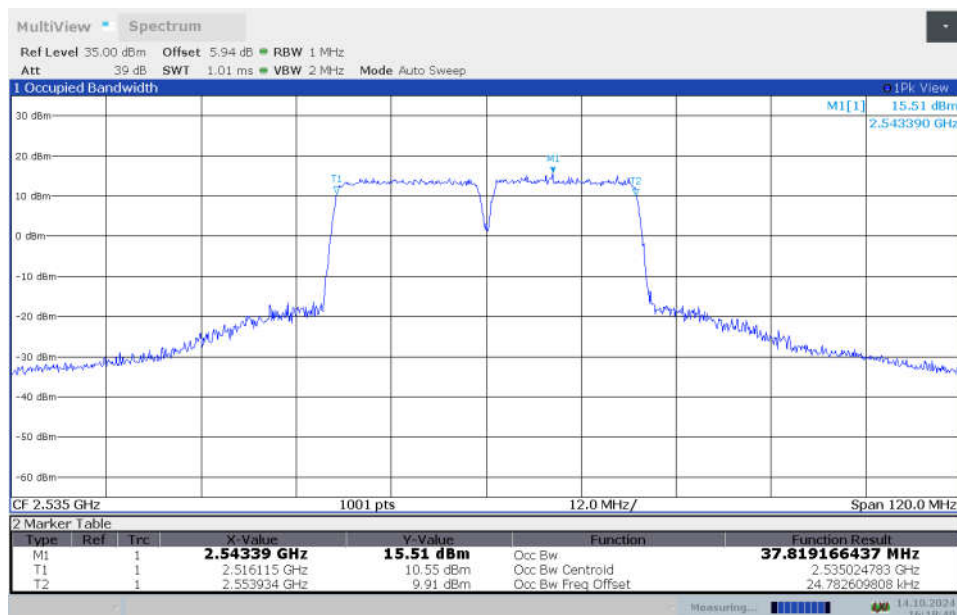
**LTE CA_7C, 20MHz+15MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2535.0	32.685	32.731

LTE CA_7C , 20MHz+15MHz Bandwidth,QPSK (99% BW)**LTE CA_7C , 20MHz+15MHz Bandwidth,16QAM (99% BW)**

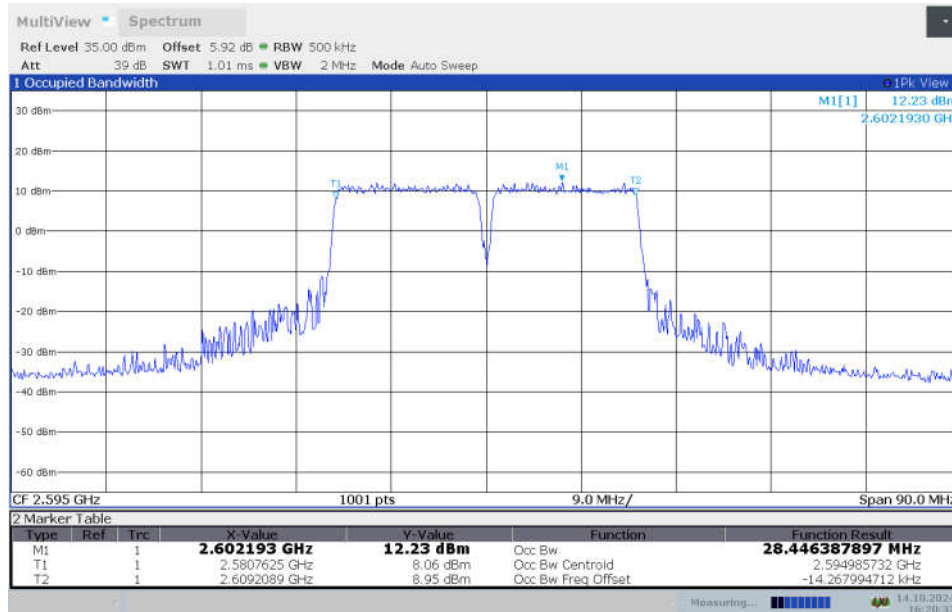
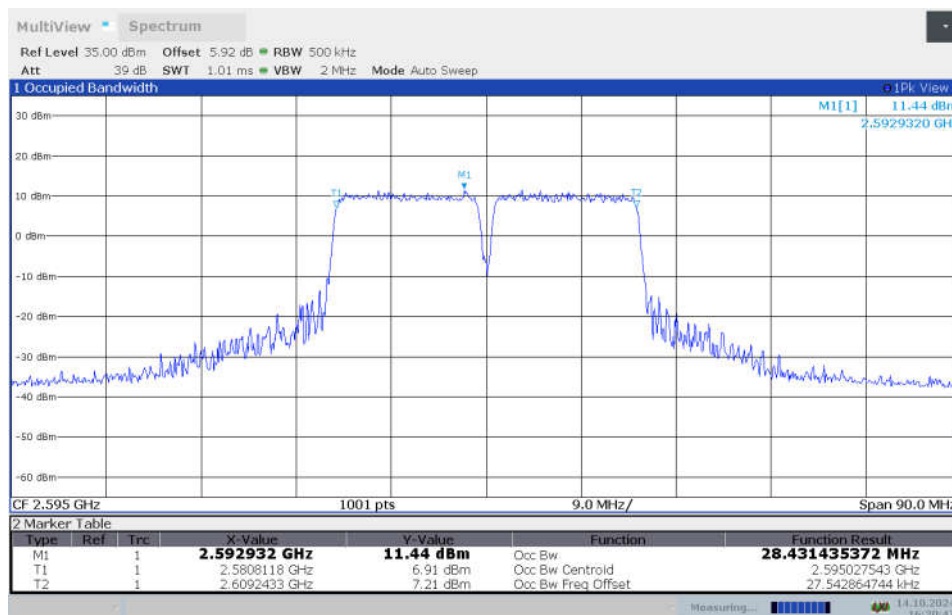
**LTE CA_7C, 20MHz+20MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2535.0	37.867	37.819

LTE CA_7C , 20MHz+20MHz Bandwidth,QPSK (99% BW)**LTE CA_7C , 20MHz+20MHz Bandwidth,16QAM (99% BW)**

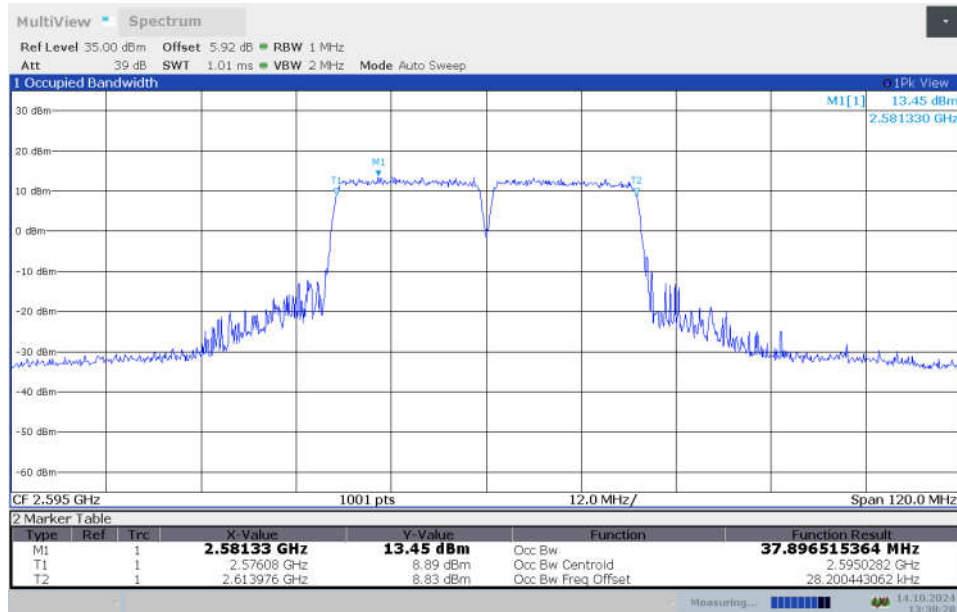
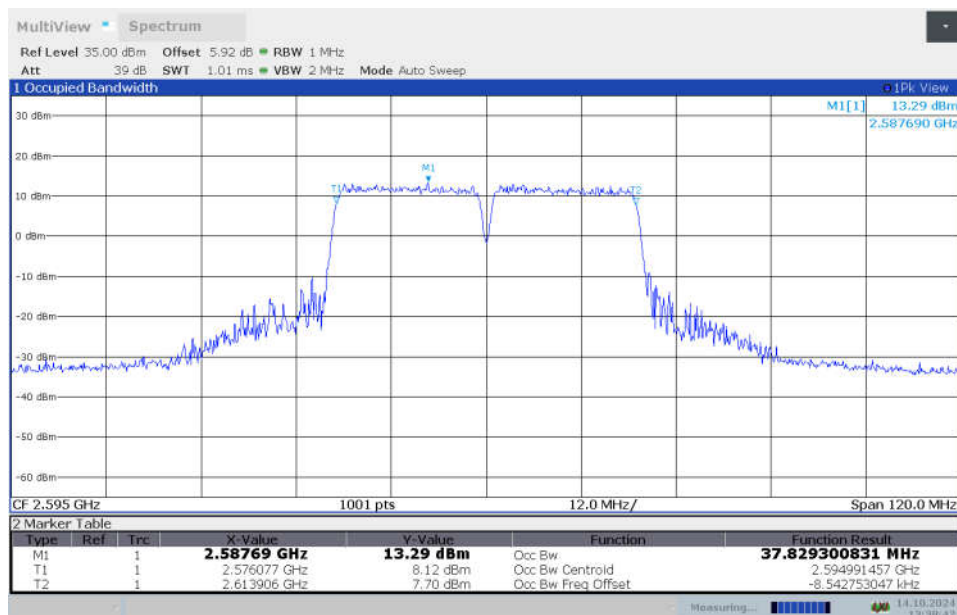
**LTE CA _38C, 15MHz+15MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2595.0	28.446	28.431

LTE CA _38C , 15MHz+15MHz Bandwidth,QPSK (99% BW)**LTE CA _38C , 15MHz+15MHz Bandwidth,16QAM (99% BW)**

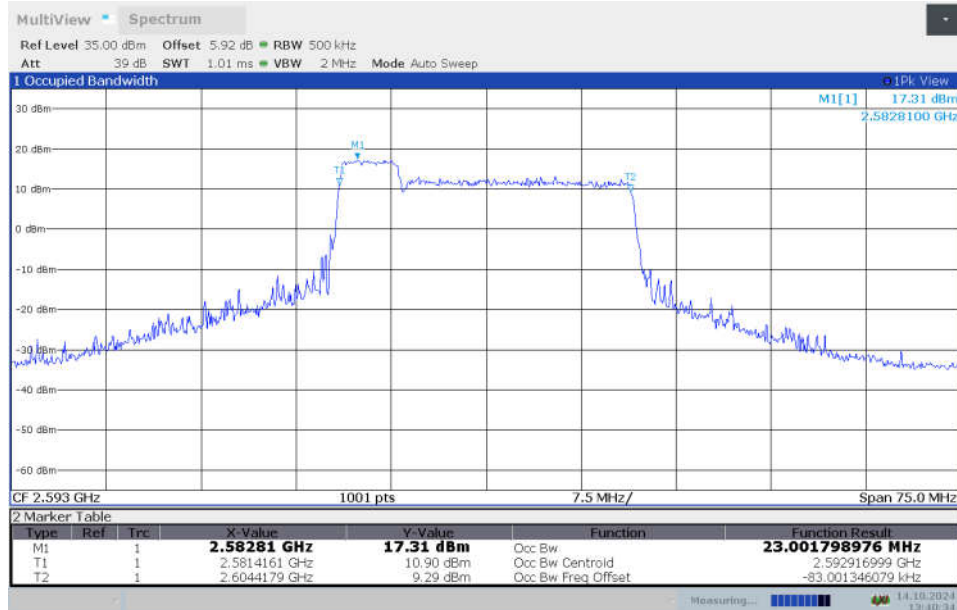
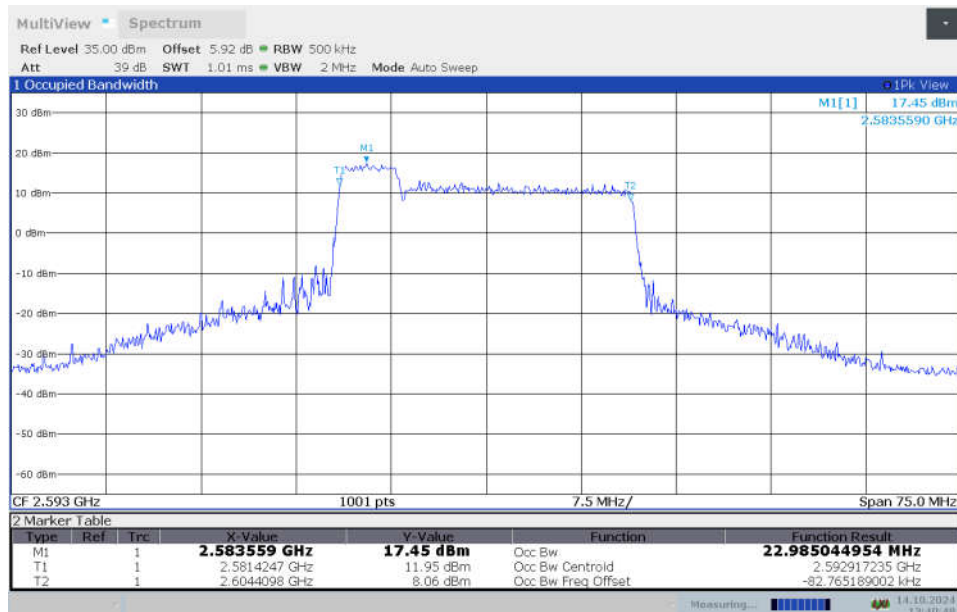
**LTE CA _38C, 20MHz+20MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2595.0	37.897	37.829

LTE CA _38C , 20MHz+20MHz Bandwidth,QPSK (99% BW)**LTE CA _38C , 20MHz+20MHz Bandwidth,16QAM (99% BW)**

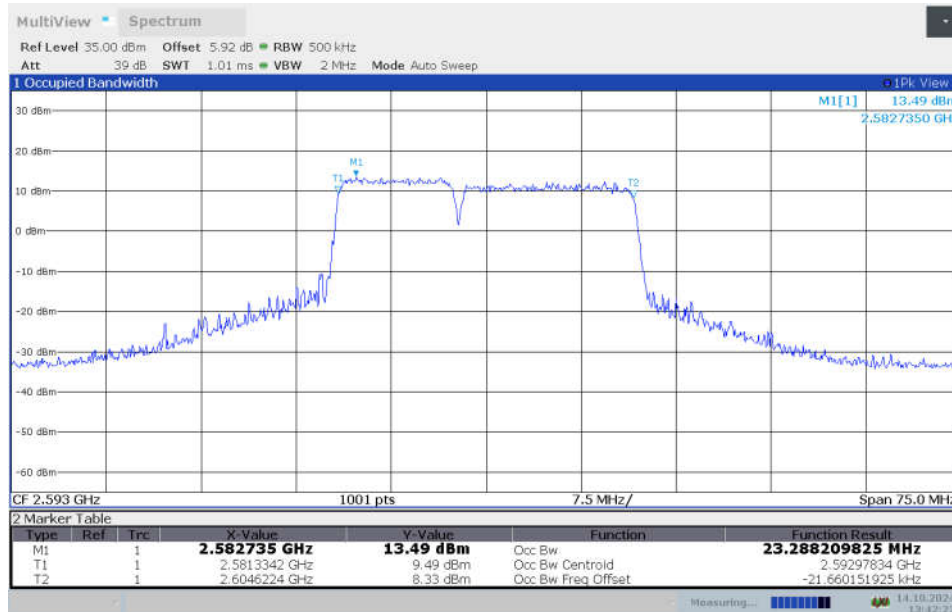
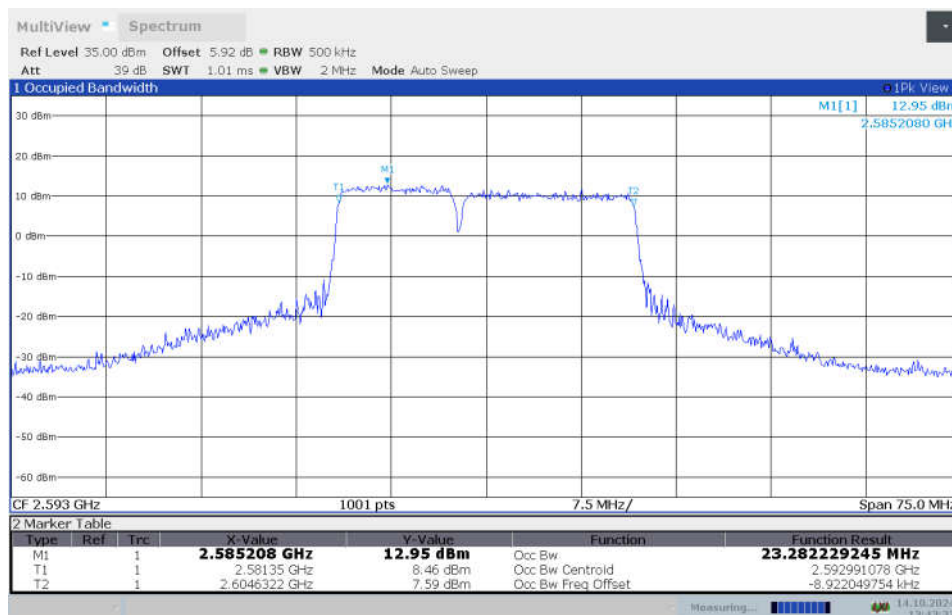
**LTE CA _41C, 5MHz+20MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2593.0	23.002	22.985

LTE CA _41C , 5MHz+20MHz Bandwidth,QPSK (99% BW)**LTE CA _41C , 5MHz+20MHz Bandwidth,16QAM (99% BW)**

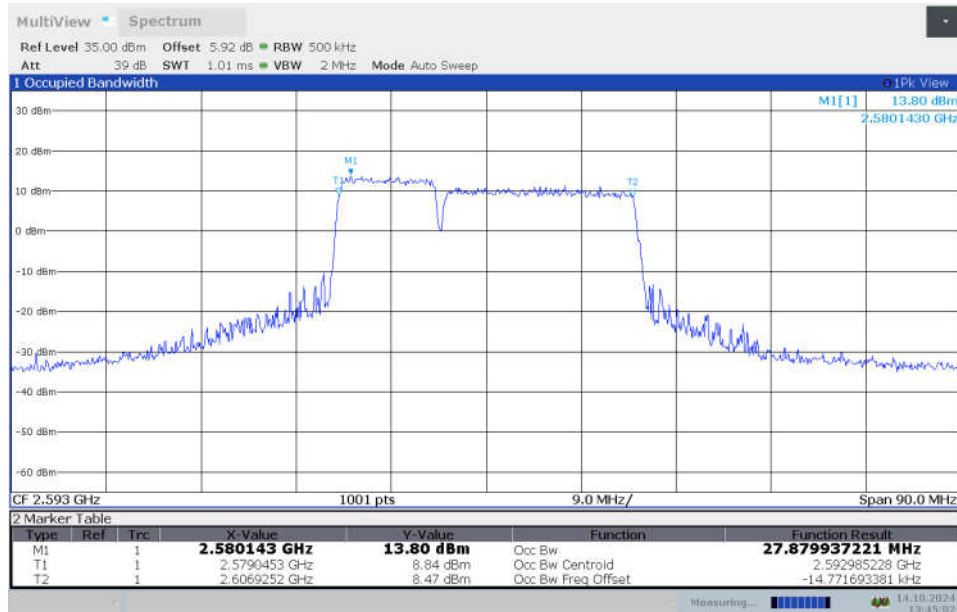
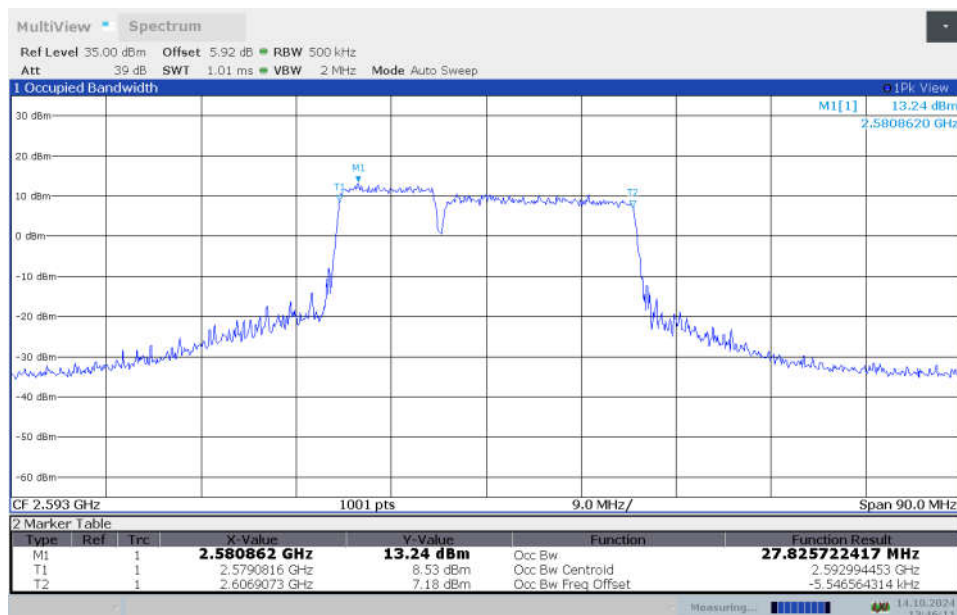
**LTE CA_41C, 10MHz+15MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2593.0	23.288	23.282

LTE CA_41C , 10MHz+15MHz Bandwidth,QPSK (99% BW)**LTE CA_41C , 10MHz+15MHz Bandwidth,16QAM (99% BW)**

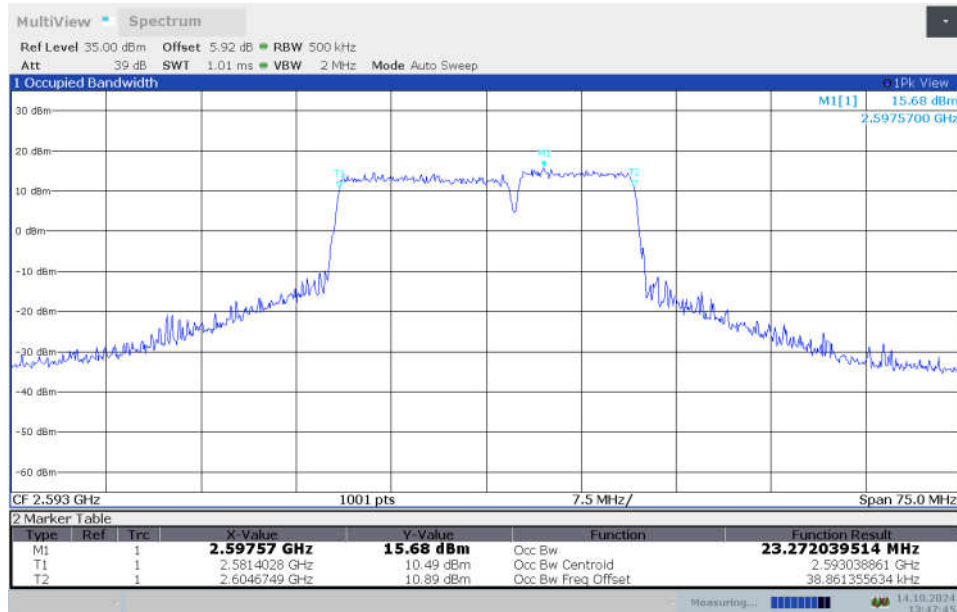
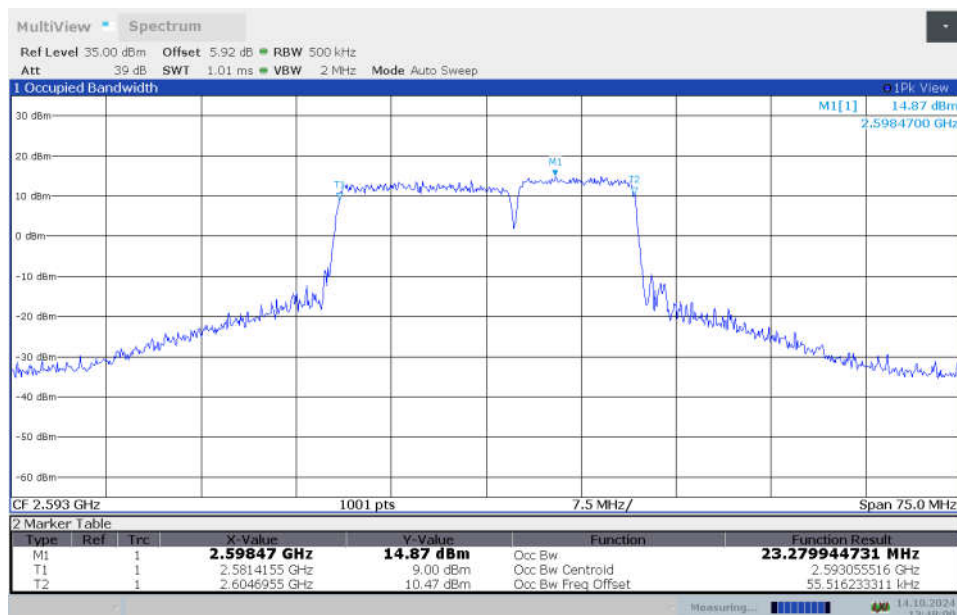
**LTE CA_41C, 10MHz+20MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2593.0	27.880	27.826

LTE CA_41C , 10MHz+20MHz Bandwidth,QPSK (99% BW)**LTE CA_41C , 10MHz+20MHz Bandwidth,16QAM (99% BW)**

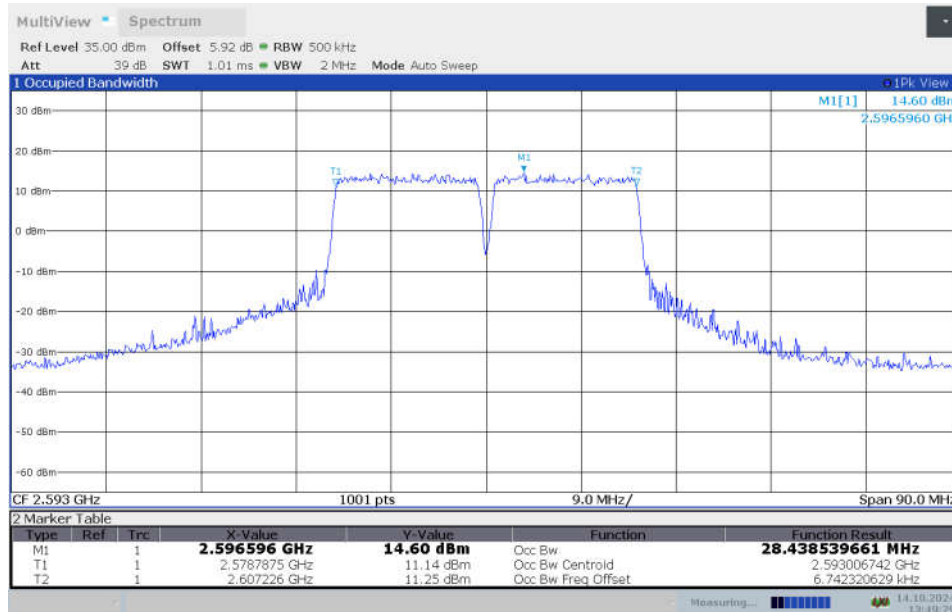
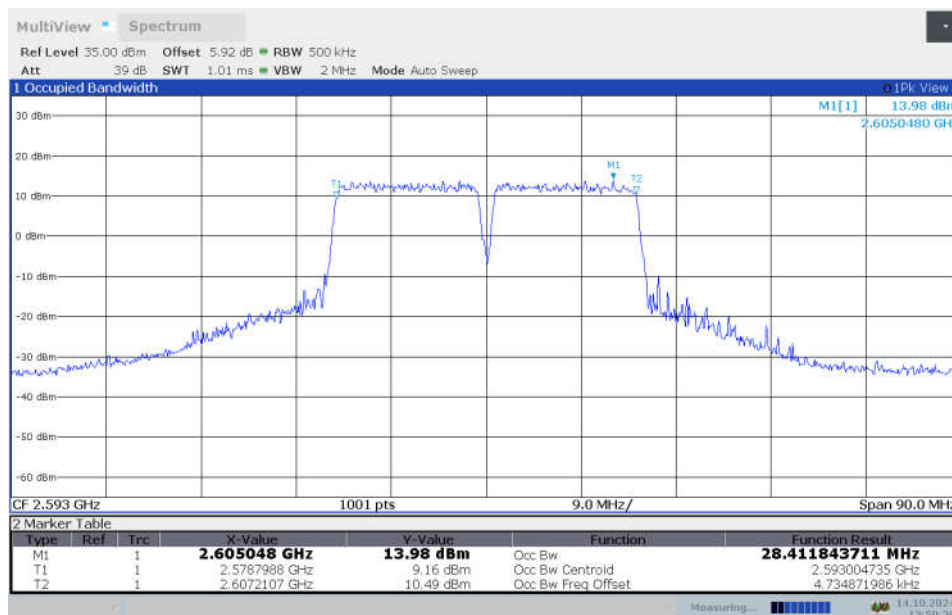
**LTE CA_41C, 15MHz+10MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2593.0	23.272	23.280

LTE CA_41C , 15MHz+10MHz Bandwidth,QPSK (99% BW)**LTE CA_41C , 15MHz+10MHz Bandwidth,16QAM (99% BW)**

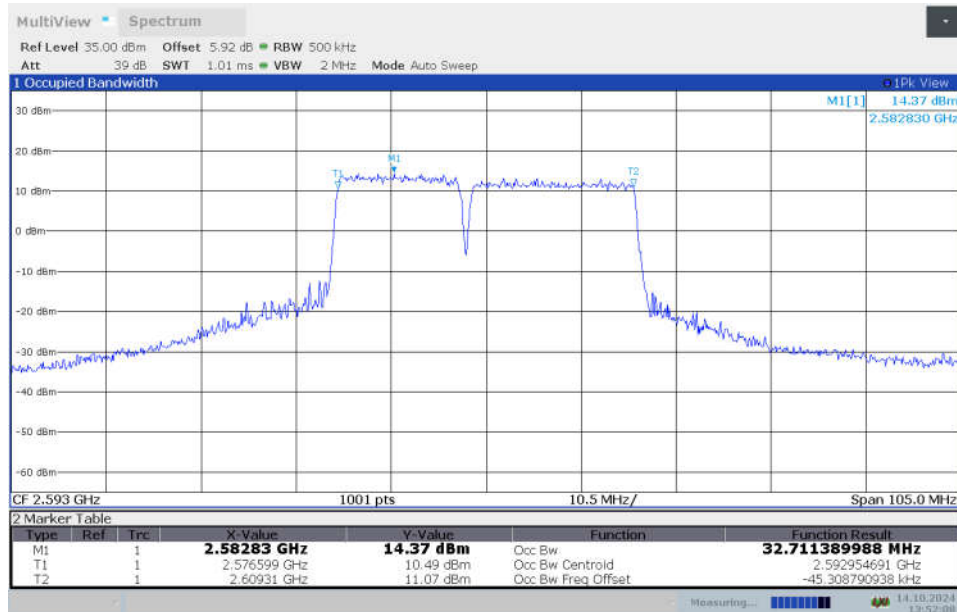
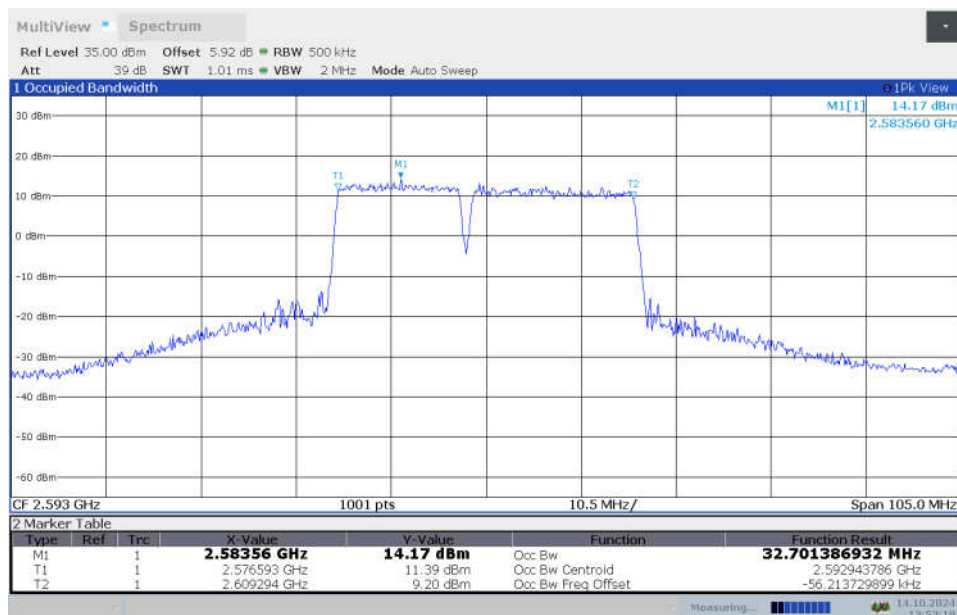
**LTE CA_41C, 15MHz+15MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2593.0	28.439	28.412

LTE CA_41C , 15MHz+15MHz Bandwidth,QPSK (99% BW)**LTE CA_41C , 15MHz+15MHz Bandwidth,16QAM (99% BW)**

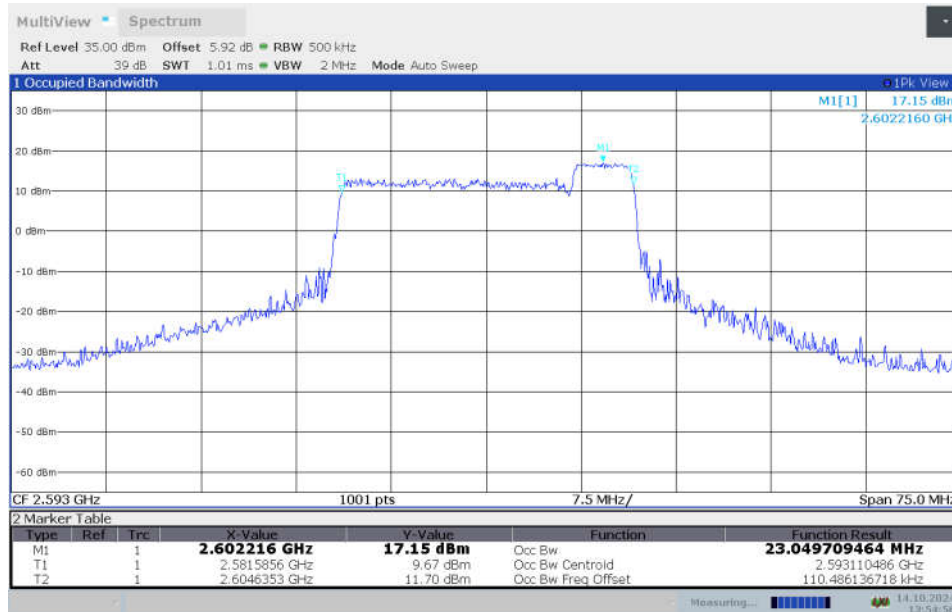
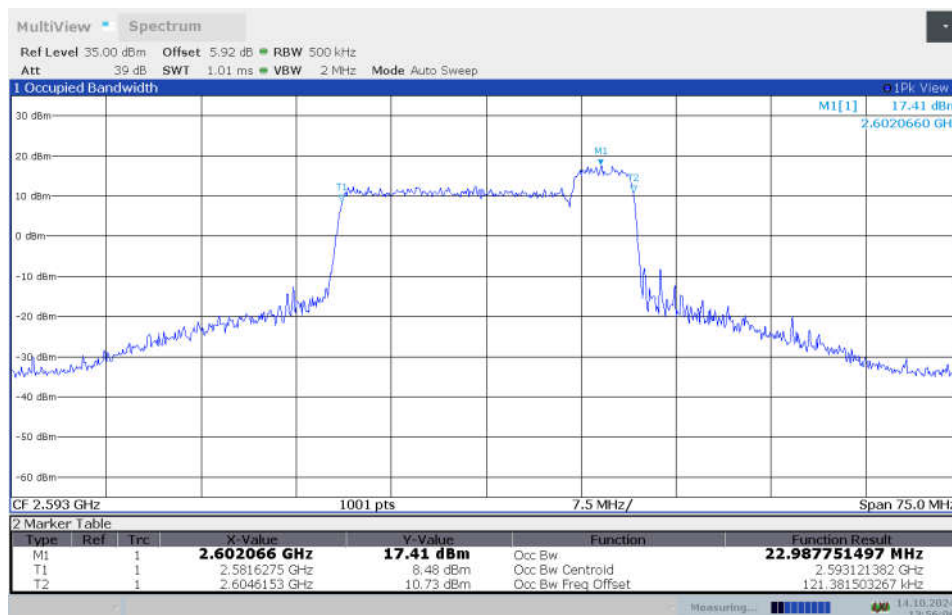
**LTE CA_41C, 15MHz+20MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2593.0	32.711	32.701

LTE CA_41C , 15MHz+20MHz Bandwidth,QPSK (99% BW)**LTE CA_41C , 15MHz+20MHz Bandwidth,16QAM (99% BW)**

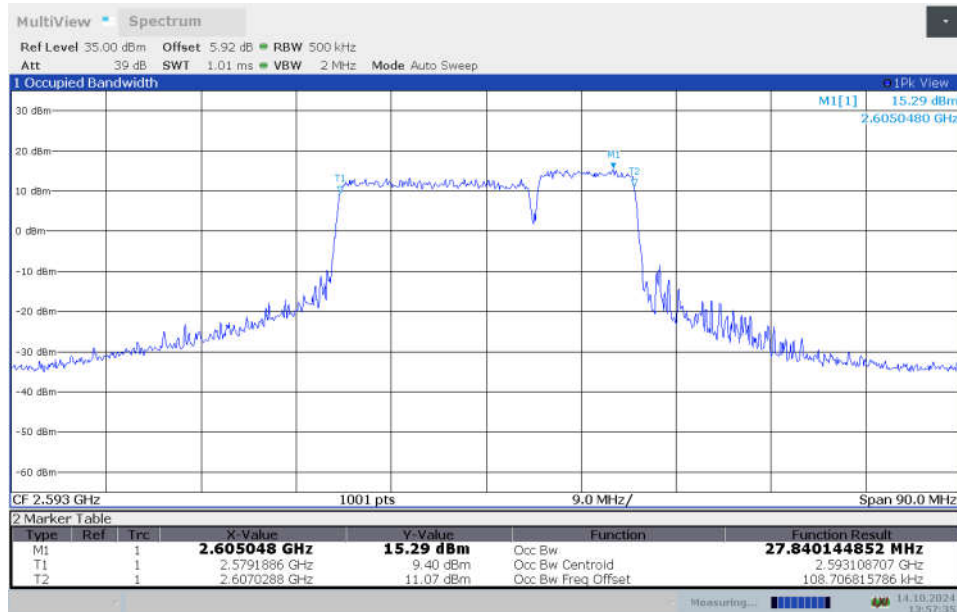
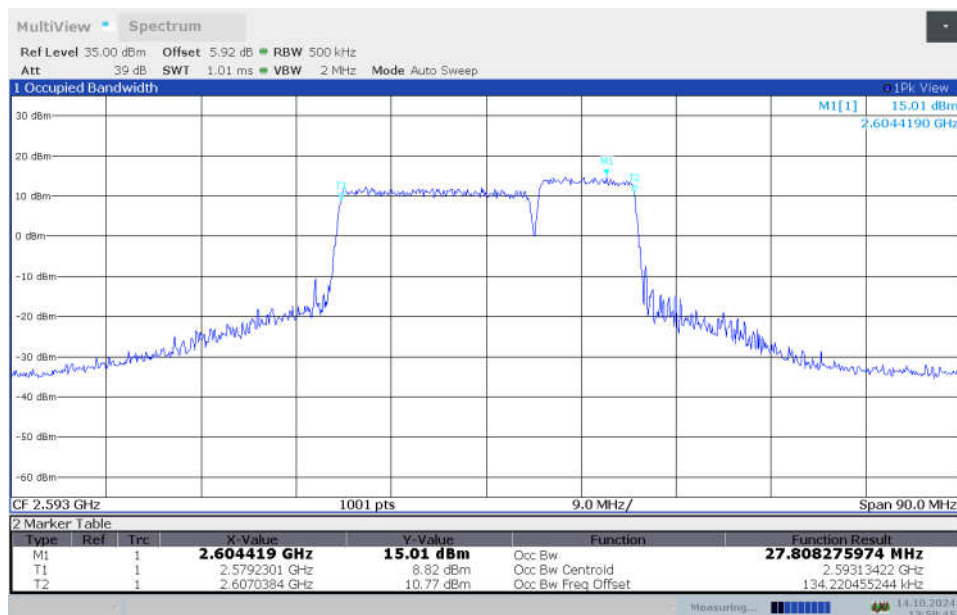
**LTE CA_41C, 20MHz+5MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2593.0	23.050	22.988

LTE CA_41C , 20MHz+5MHz Bandwidth,QPSK (99% BW)**LTE CA_41C , 20MHz+5MHz Bandwidth,16QAM (99% BW)**

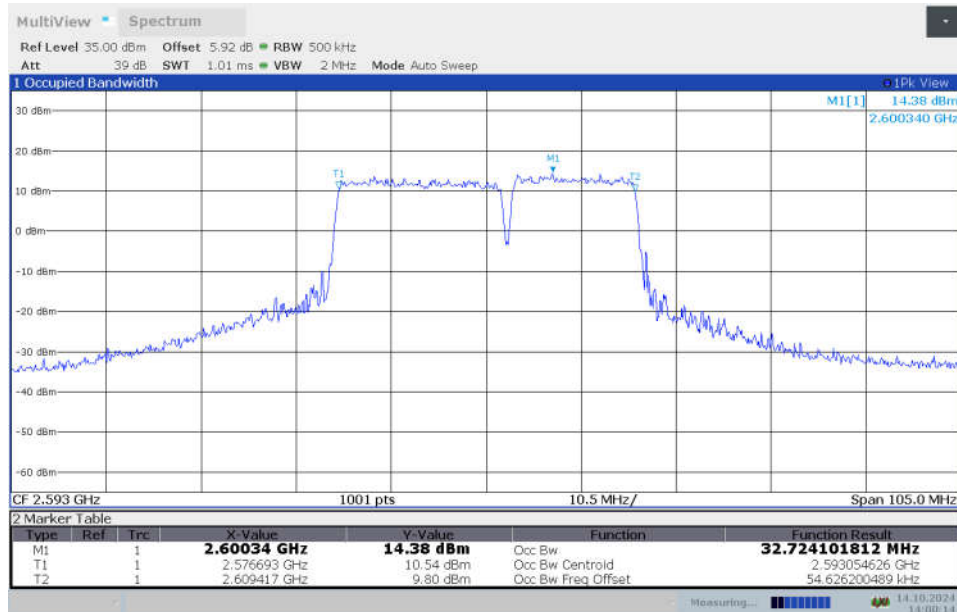
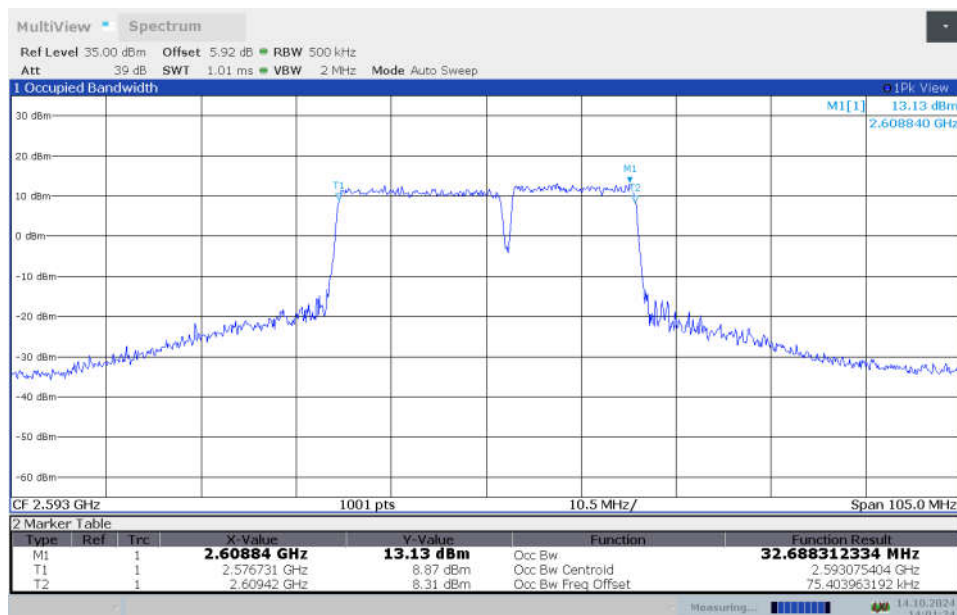
**LTE CA_41C, 20MHz+10MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2593.0	27.840	27.808

LTE CA_41C , 20MHz+10MHz Bandwidth,QPSK (99% BW)**LTE CA_41C , 20MHz+10MHz Bandwidth,16QAM (99% BW)**

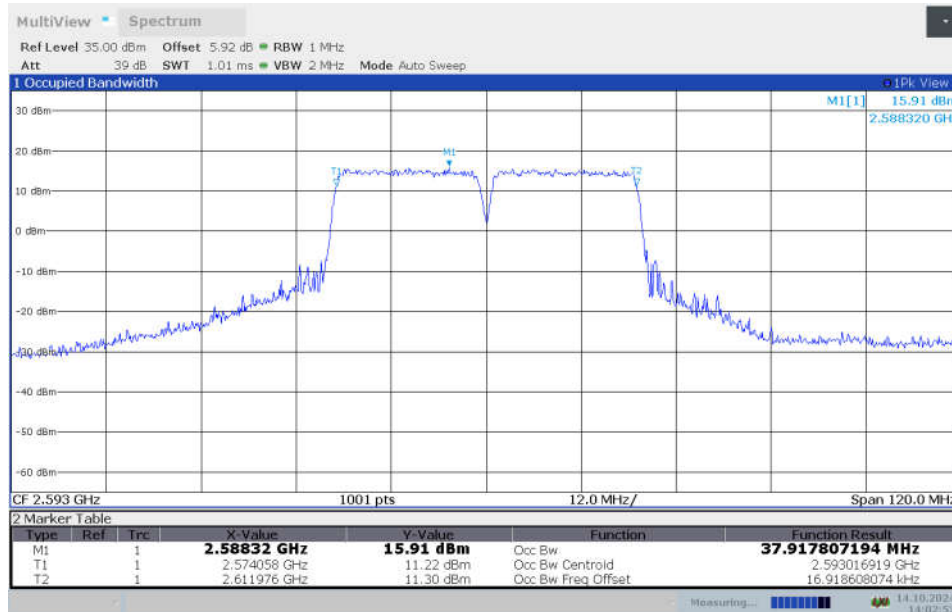
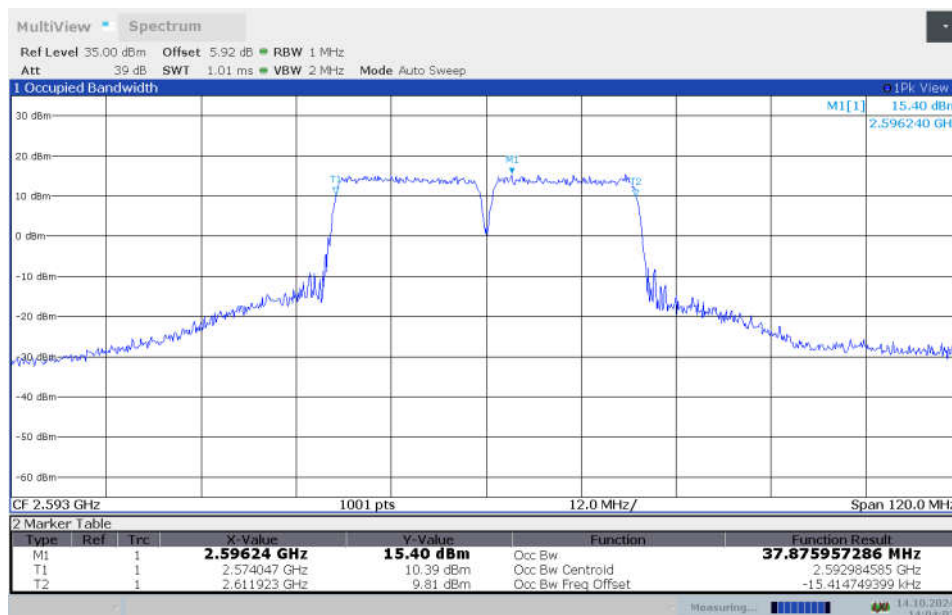
**LTE CA_41C, 20MHz+15MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2593.0	32.724	32.688

LTE CA_41C , 20MHz+15MHz Bandwidth,QPSK (99% BW)**LTE CA_41C , 20MHz+15MHz Bandwidth,16QAM (99% BW)**

**LTE CA_41C, 20MHz+20MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2593.0	37.918	37.876

LTE CA_41C , 20MHz+20MHz Bandwidth,QPSK (99% BW)**LTE CA_41C , 20MHz+20MHz Bandwidth,16QAM (99% BW)**

Note: Expanded measurement uncertainty is $U = 3428 \text{ Hz}$, $k = 2$



A.5 EMISSION BANDWIDTH

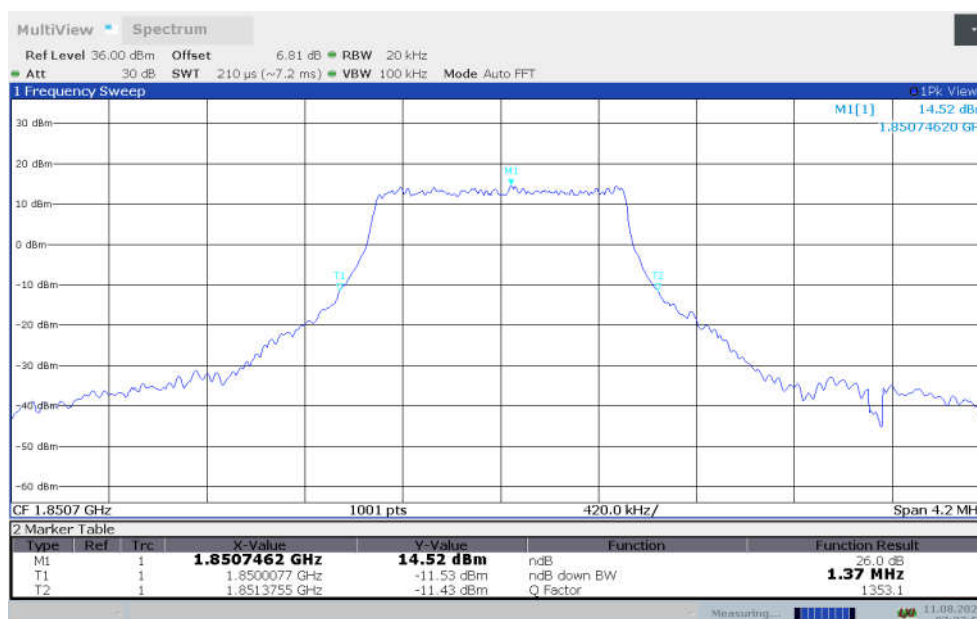
The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

The measurement method is from ANSI C63.26:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.

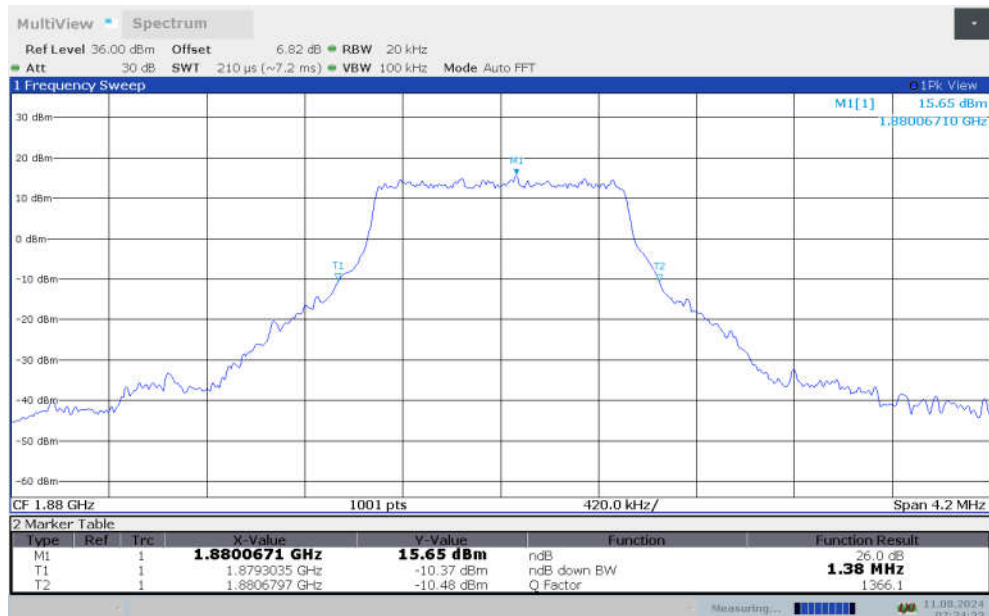
**LTE Band 2,1.4MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1850.7	1.368	1.347
1880	1.376	1.364
1909.3	1.380	1.364

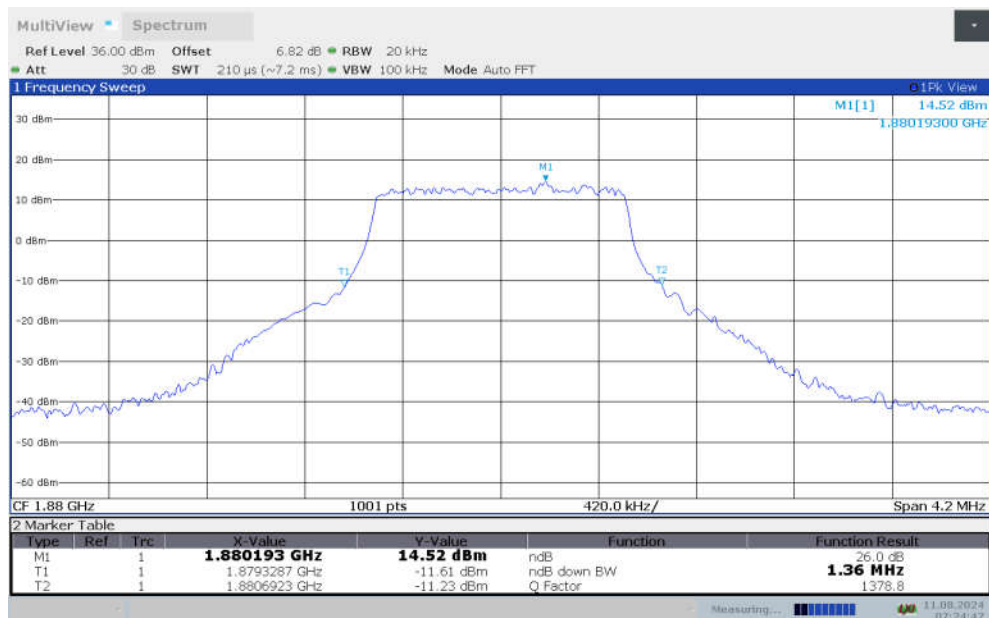
LTE Band 2 , 1.4MHz Bandwidth,LOW,QPSK (-26dBc BW)**LTE Band 2 , 1.4MHz Bandwidth,LOW,16QAM (-26dBc BW)**



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

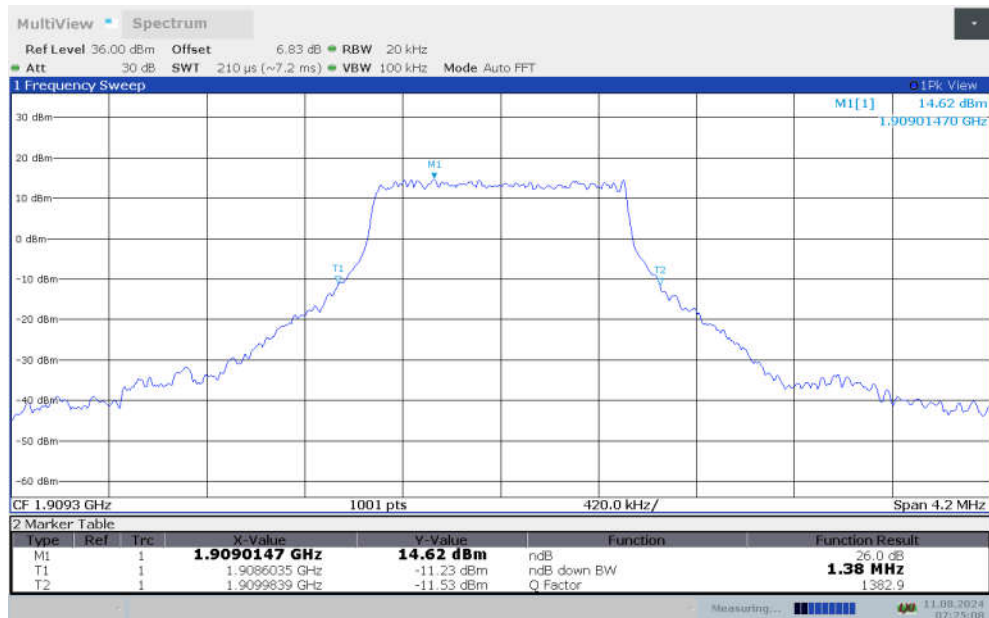


LTE Band 2 , 1.4MHz Bandwidth,MID,16QAM (-26dBc BW)

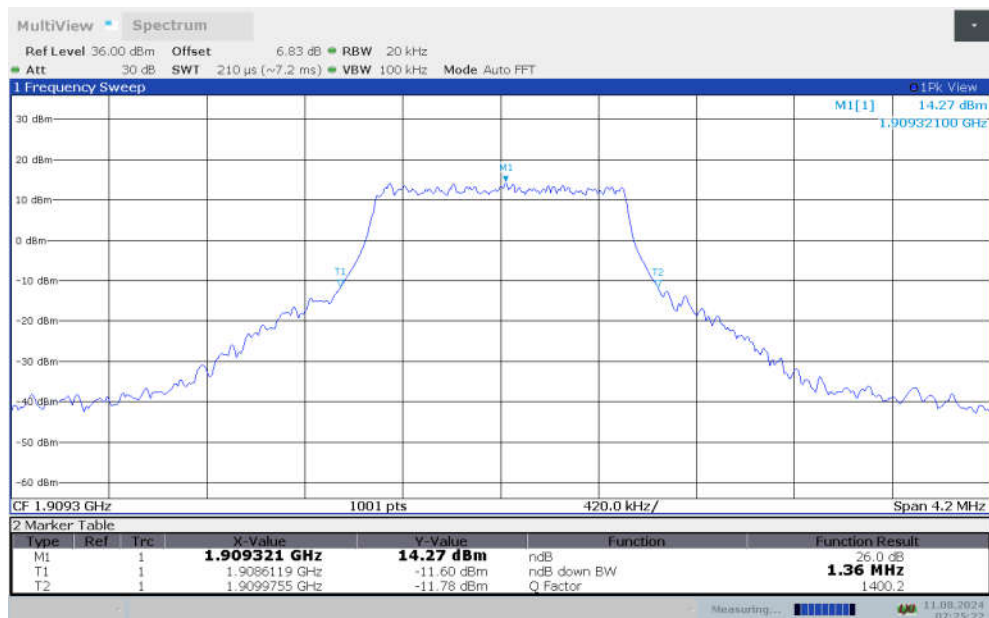




LTE Band 2 , 1.4MHz Bandwidth,HIGH,QPSK (-26dBc BW)

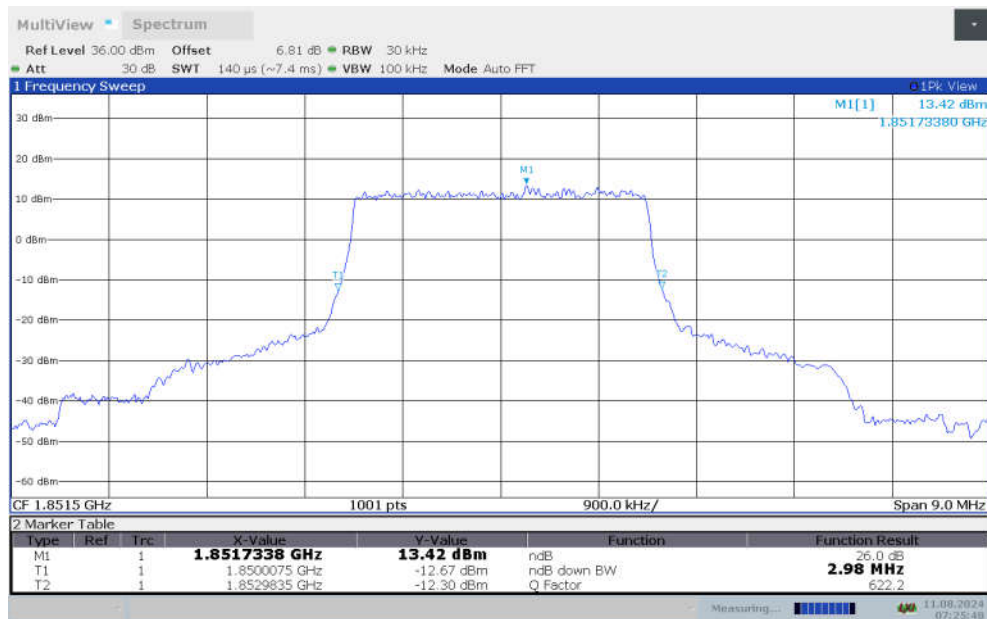
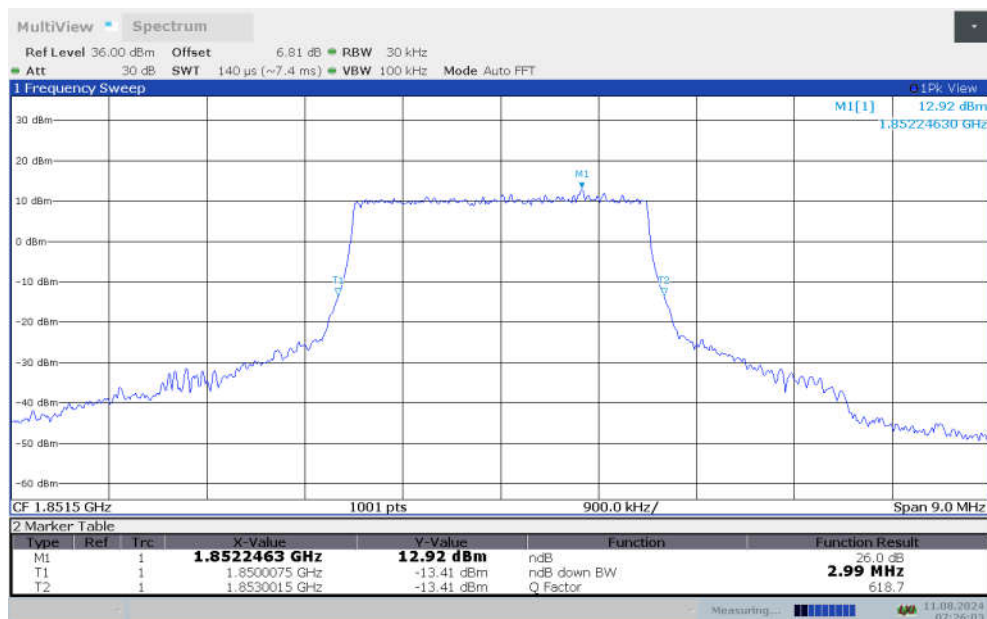


LTE Band 2 , 1.4MHz Bandwidth,HIGH,16QAM (-26dBc BW)



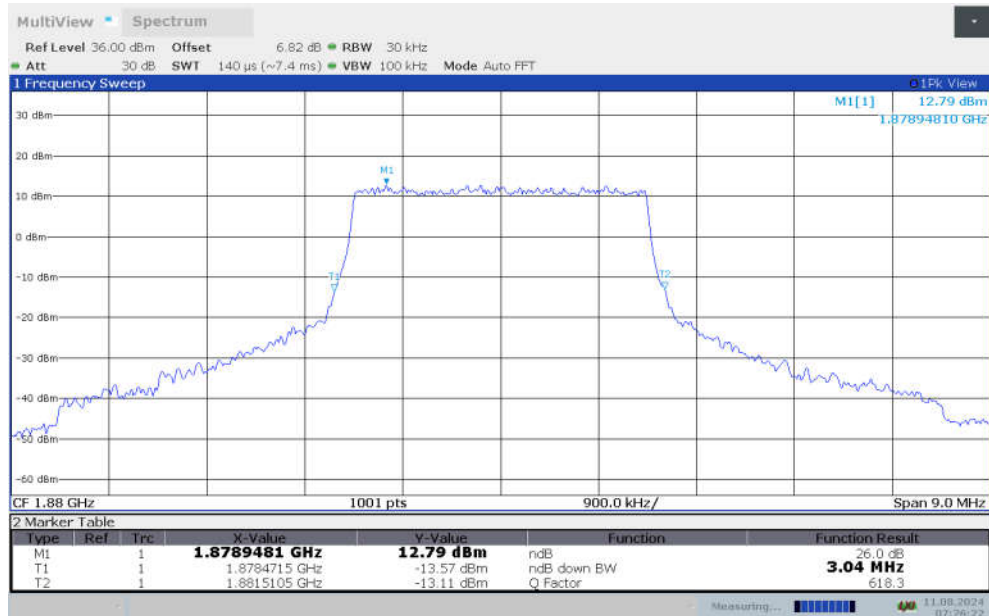
**LTE Band 2,3MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1851.5	2.976	2.994
1880	3.039	3.012
1908.5	3.057	3.003

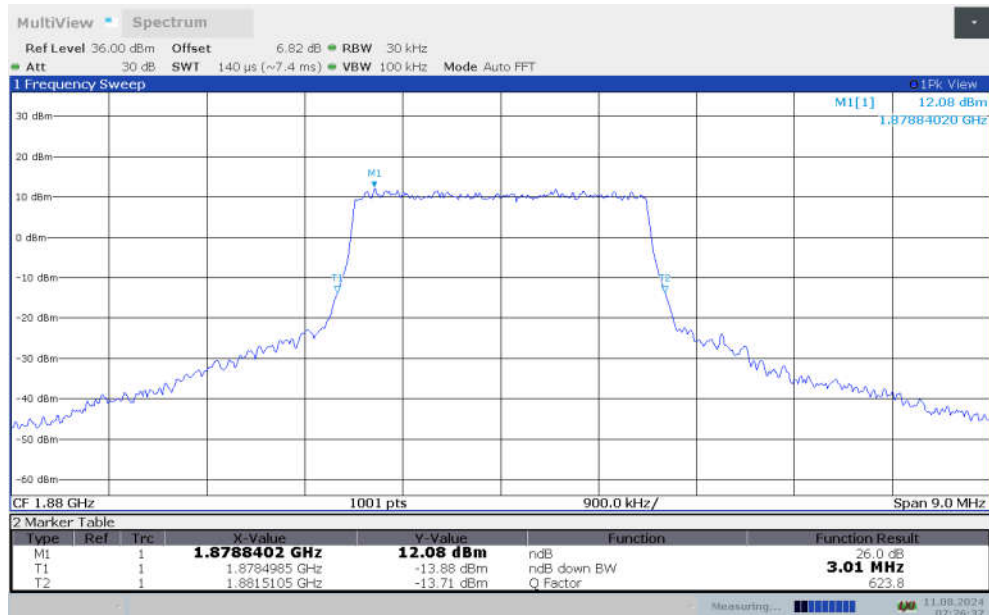
LTE Band 2 , 3MHz Bandwidth,LOW,QPSK (-26dBc BW)**LTE Band 2 , 3MHz Bandwidth,LOW,16QAM (-26dBc BW)**



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

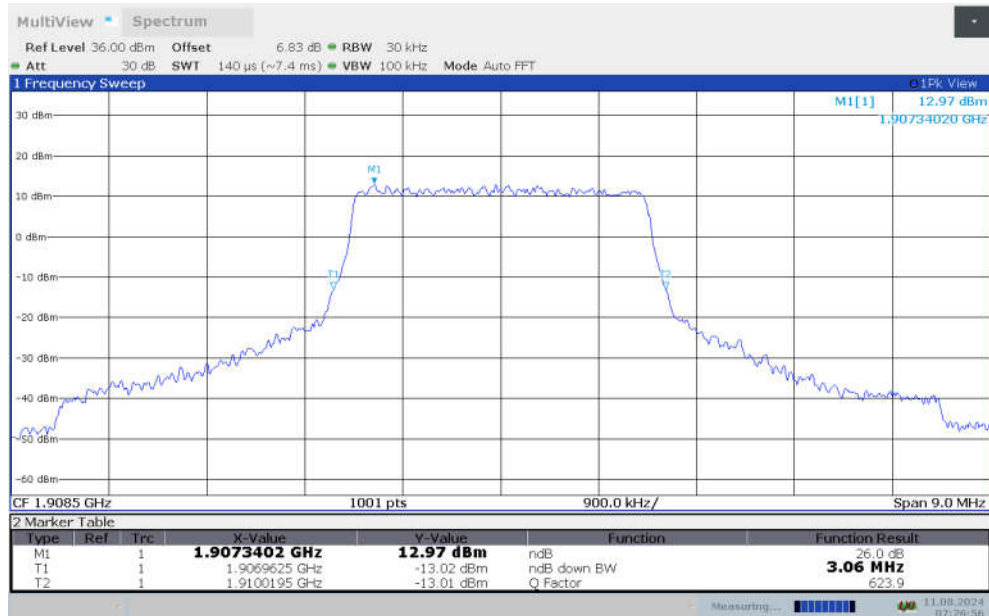


LTE Band 2 , 3MHz Bandwidth,MID,16QAM (-26dBc BW)

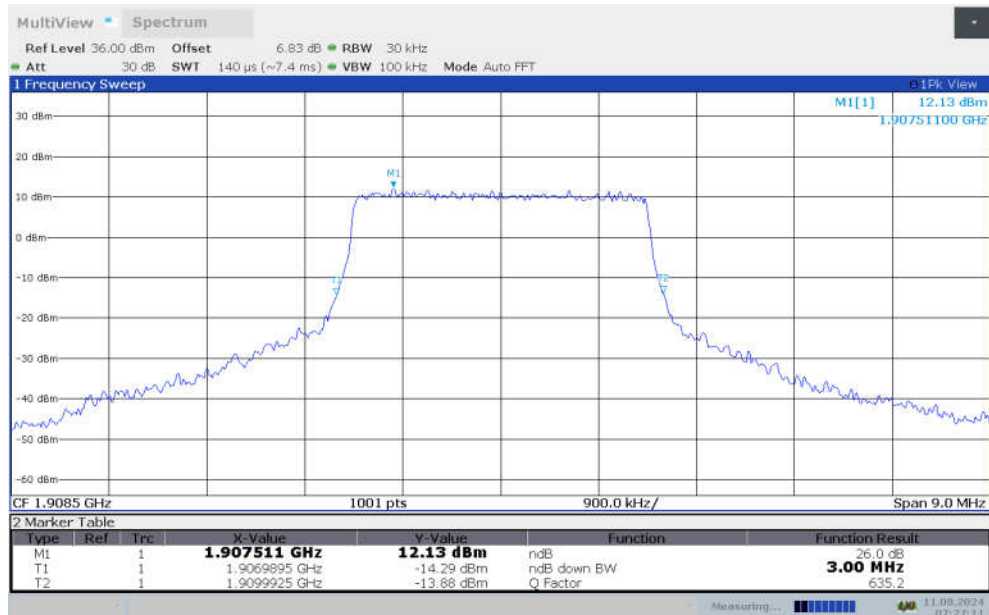




LTE Band 2 , 3MHz Bandwidth,HIGH,QPSK (-26dBc BW)

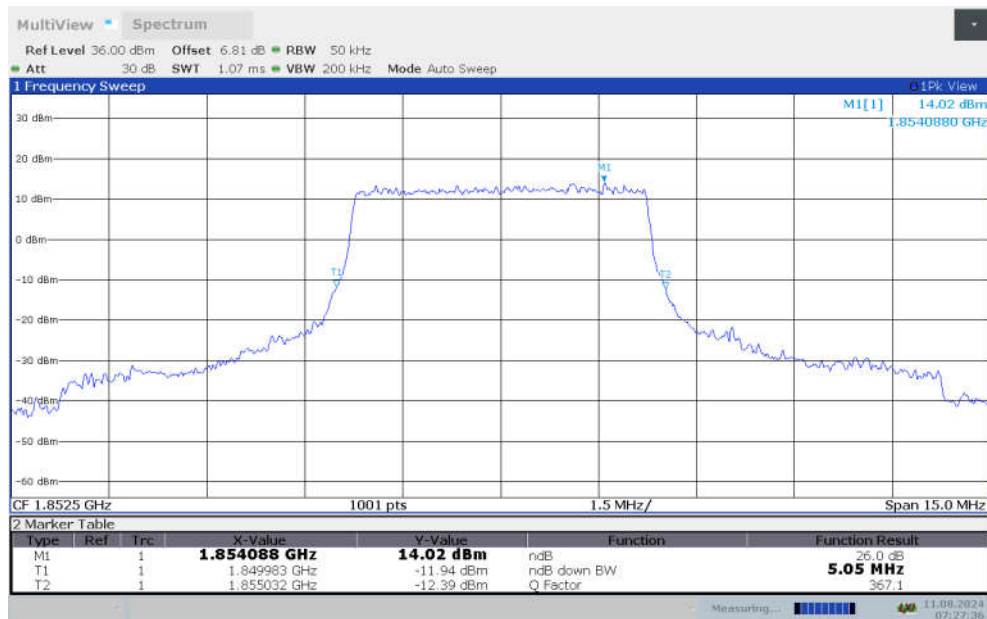
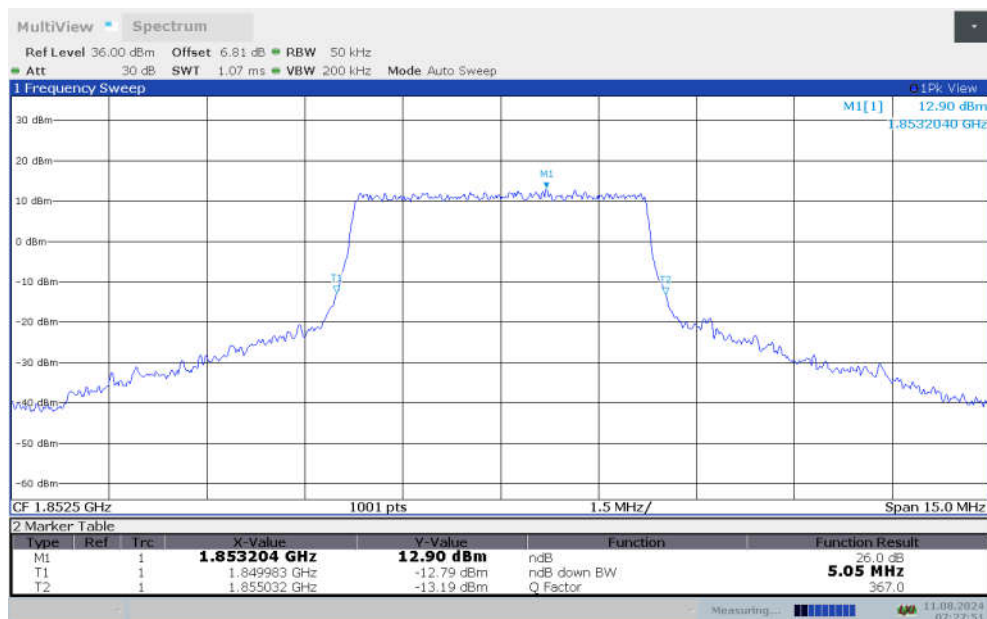


LTE Band 2 , 3MHz Bandwidth,HIGH,16QAM (-26dBc BW)



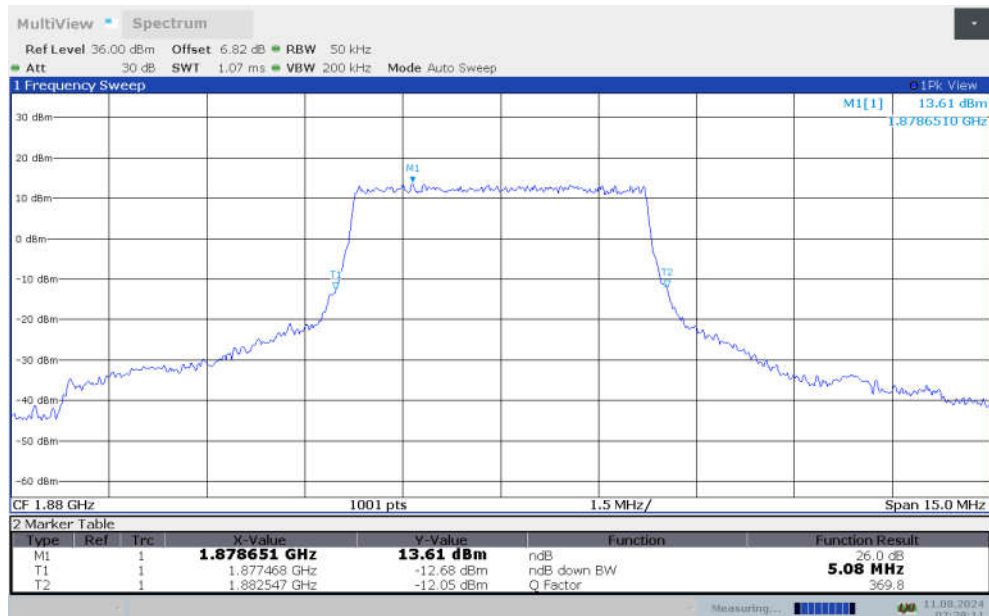
**LTE Band 2,5MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1852.5	5.050	5.050
1880	5.080	5.050
1907.5	5.020	5.005

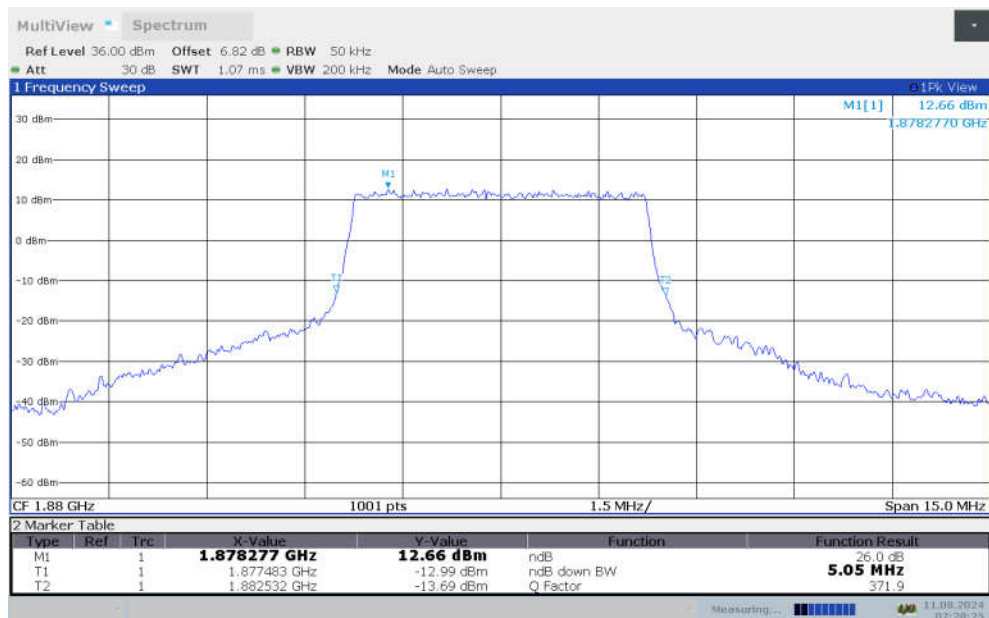
LTE Band 2 , 5MHz Bandwidth,LOW,QPSK (-26dBc BW)**LTE Band 2 , 5MHz Bandwidth,LOW,16QAM (-26dBc BW)**



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

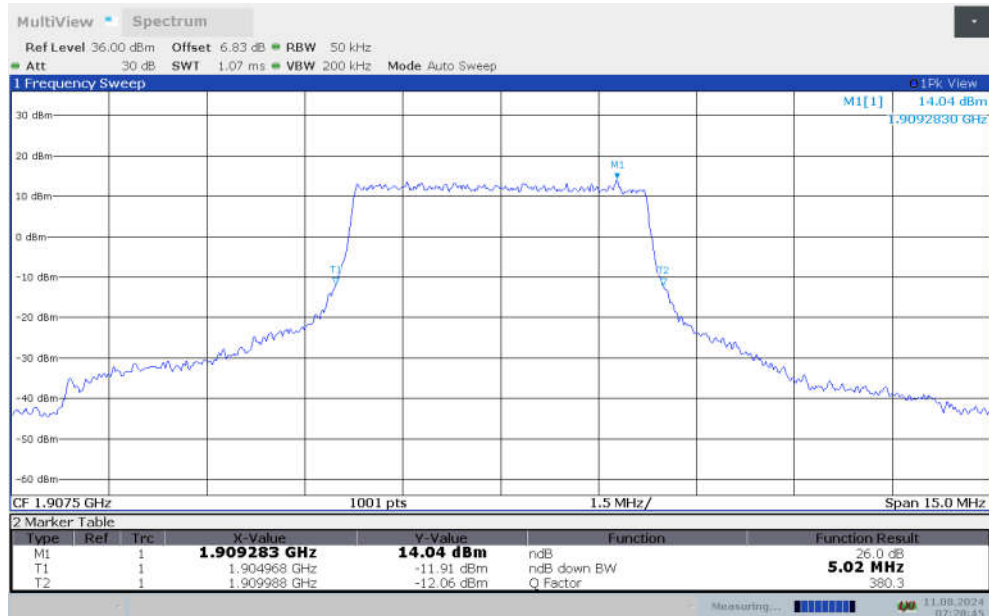


LTE Band 2 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)

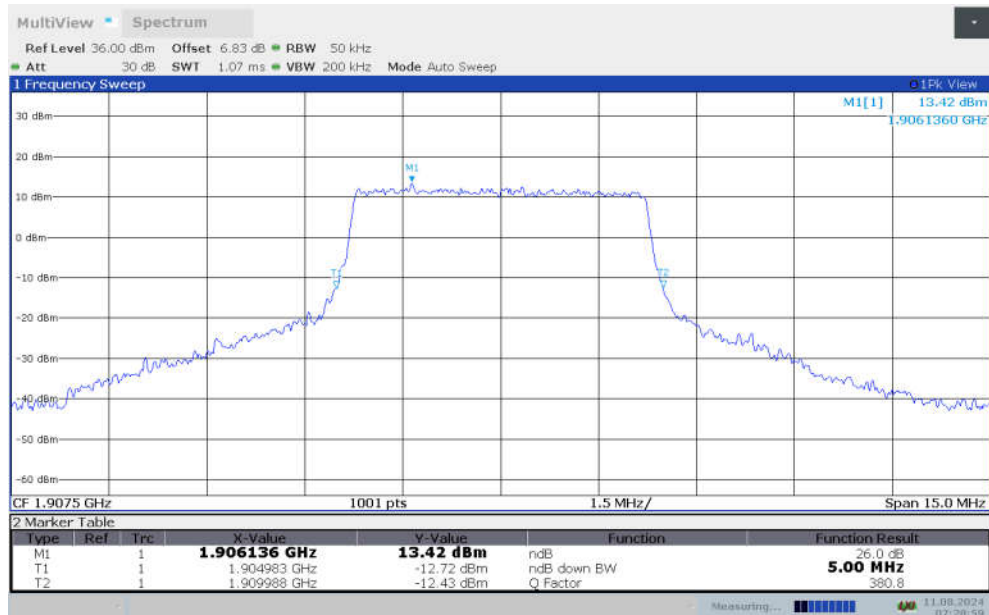




LTE Band 2 , 5MHz Bandwidth,HIGH,QPSK (-26dBc BW)

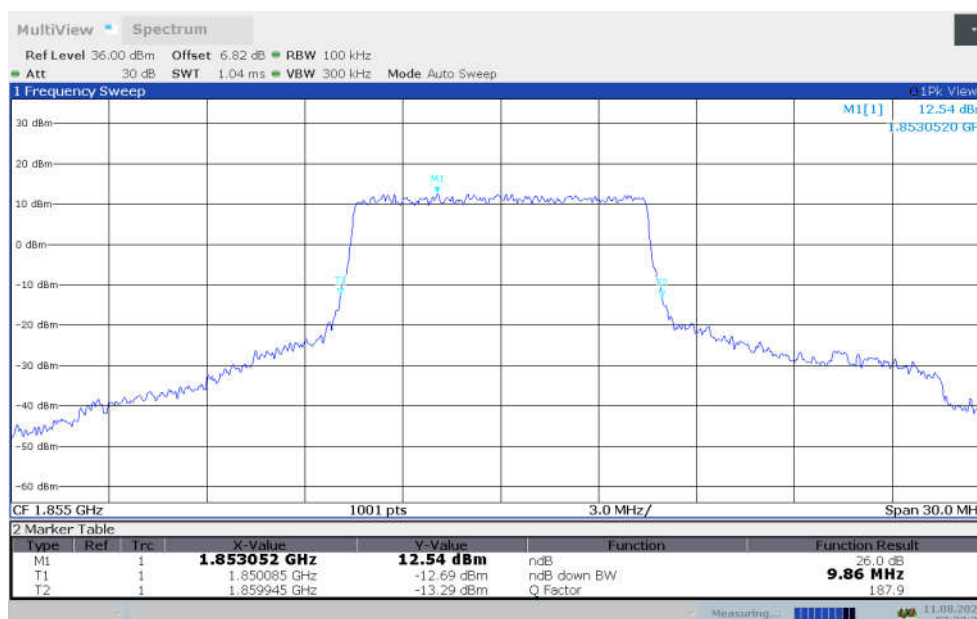
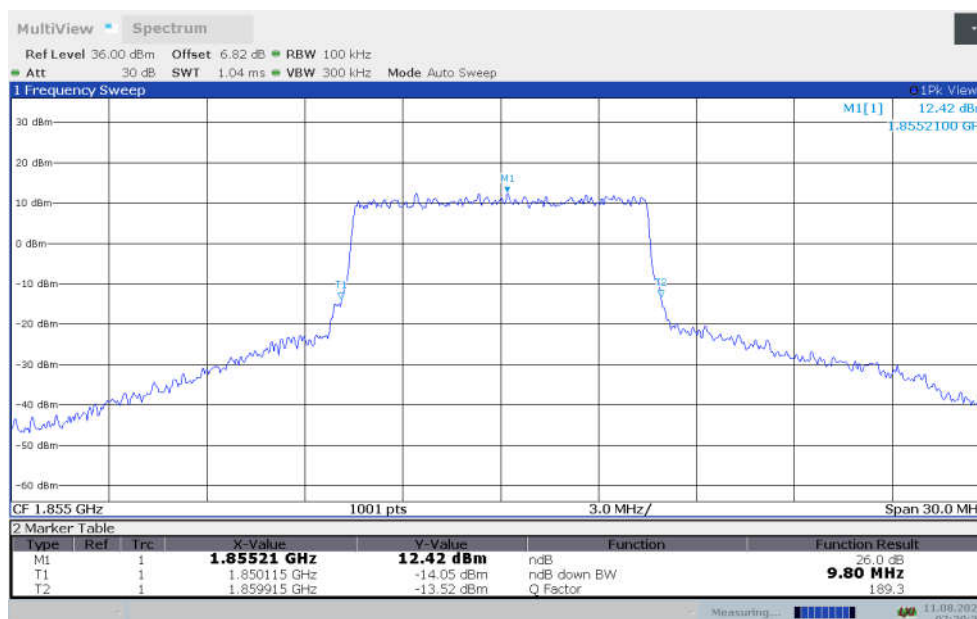


LTE Band 2 , 5MHz Bandwidth,HIGH,16QAM (-26dBc BW)



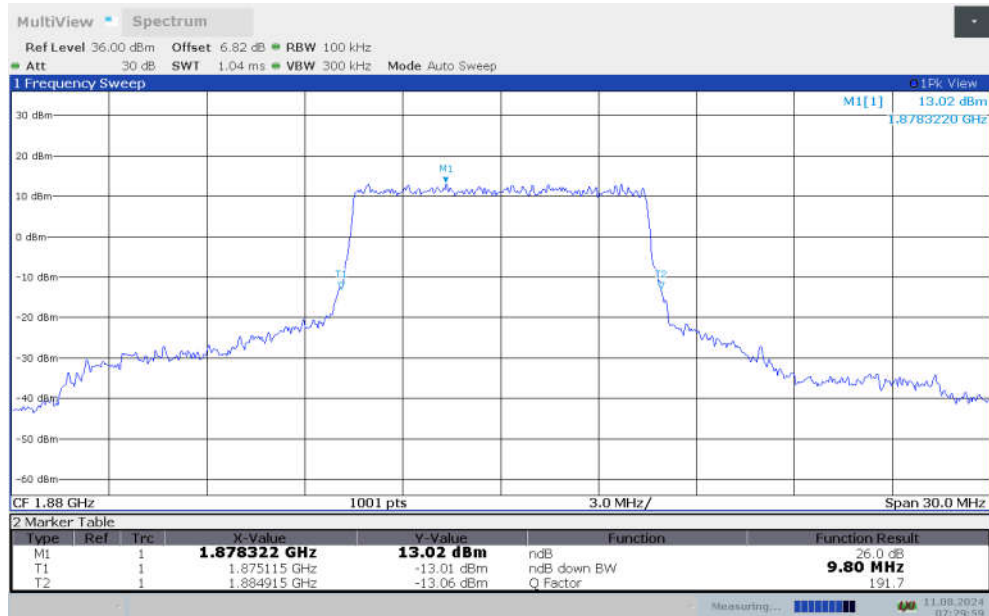
**LTE Band 2,10MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1855	9.860	9.800
1880	9.800	9.890
1905	9.770	9.860

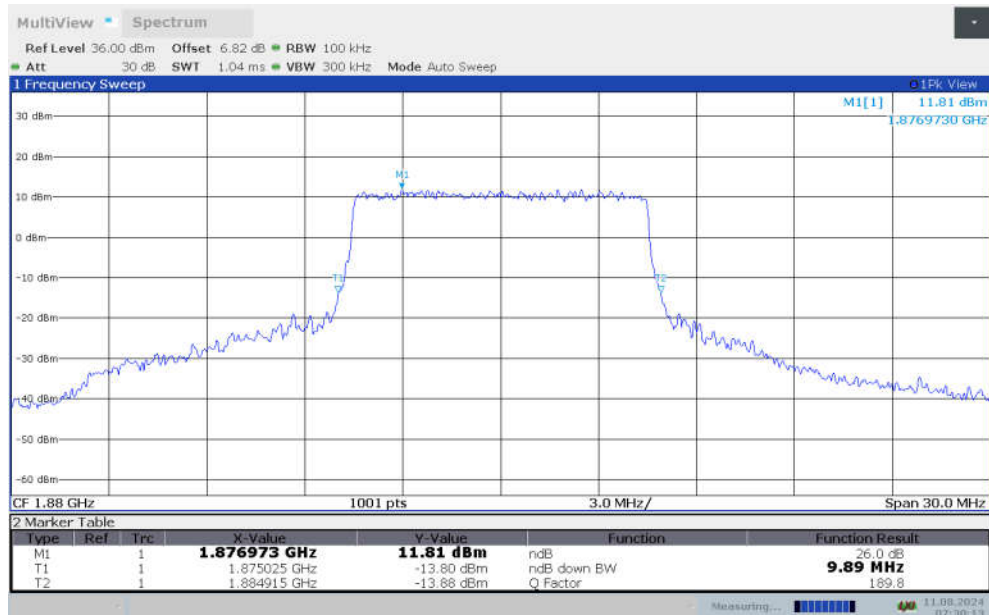
LTE Band 2 , 10MHz Bandwidth,LOW,QPSK (-26dBc BW)**LTE Band 2 , 10MHz Bandwidth,LOW,16QAM (-26dBc BW)**



LTE Band 2 , 10MHz Bandwidth,MID,QPSK (-26dBc BW)

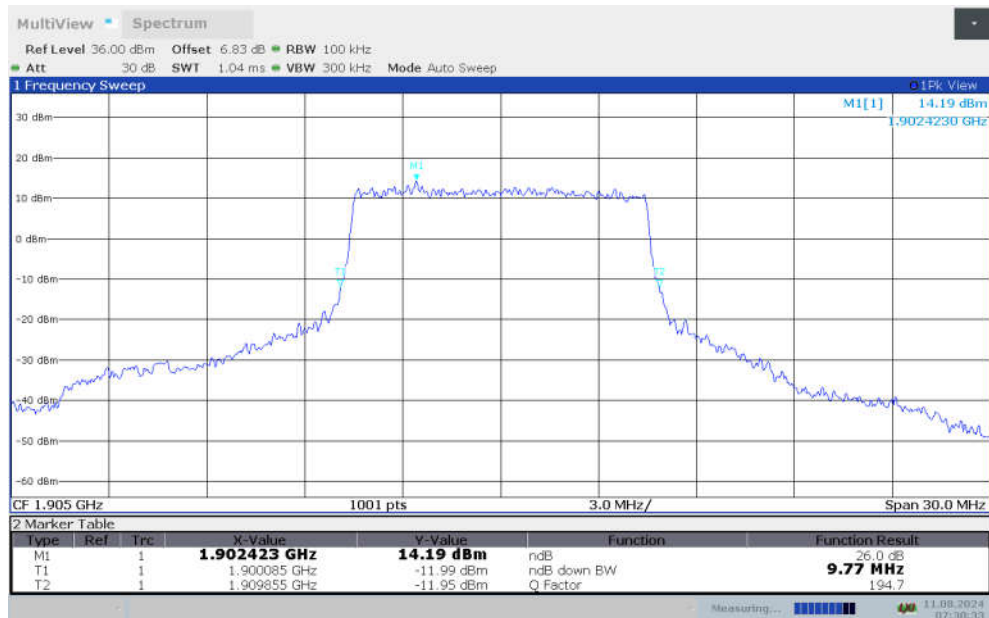


LTE Band 2 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)

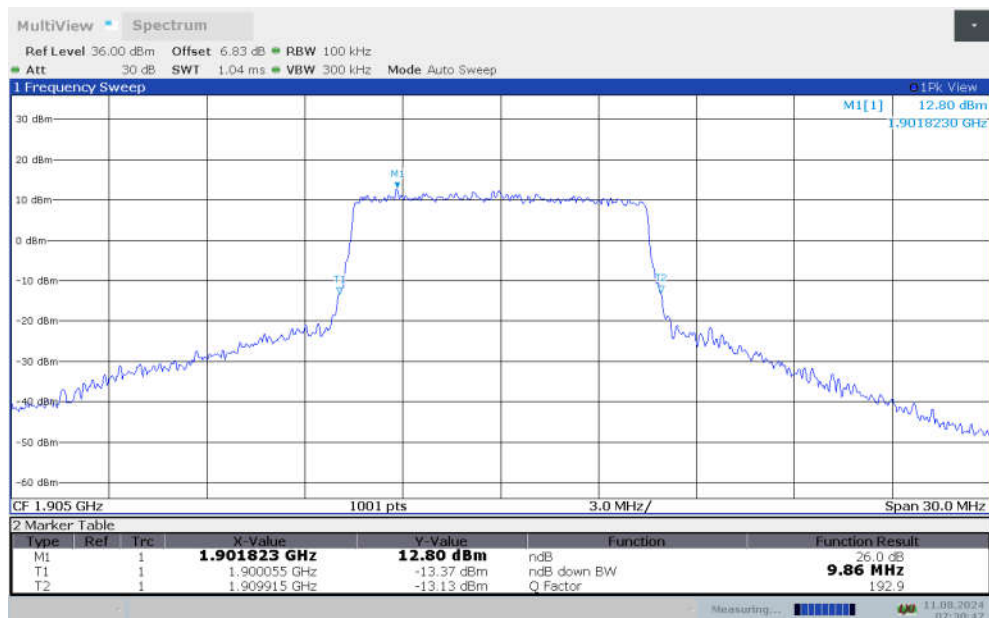




LTE Band 2 , 10MHz Bandwidth,HIGH,QPSK (-26dBc BW)

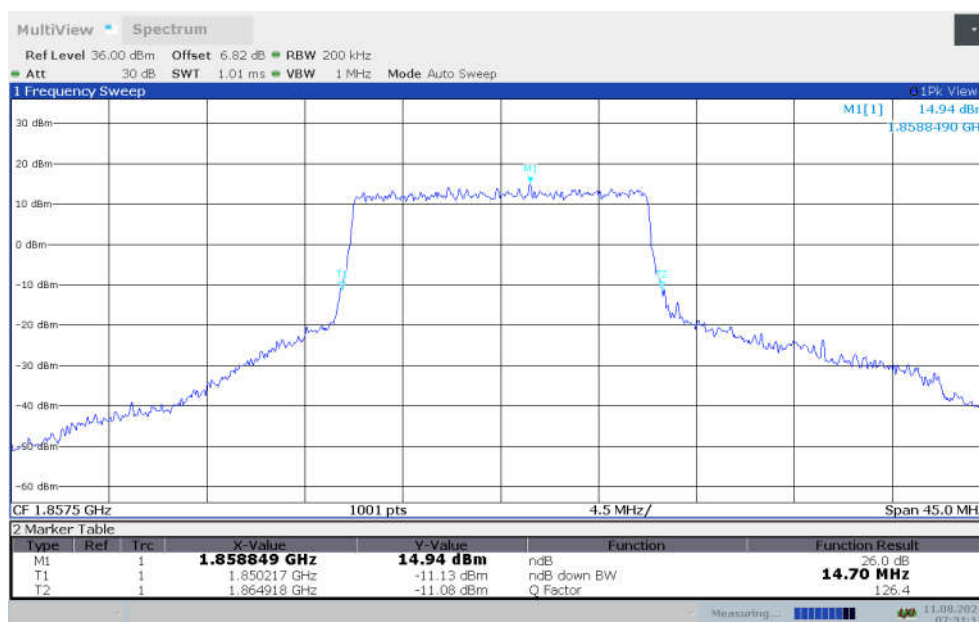
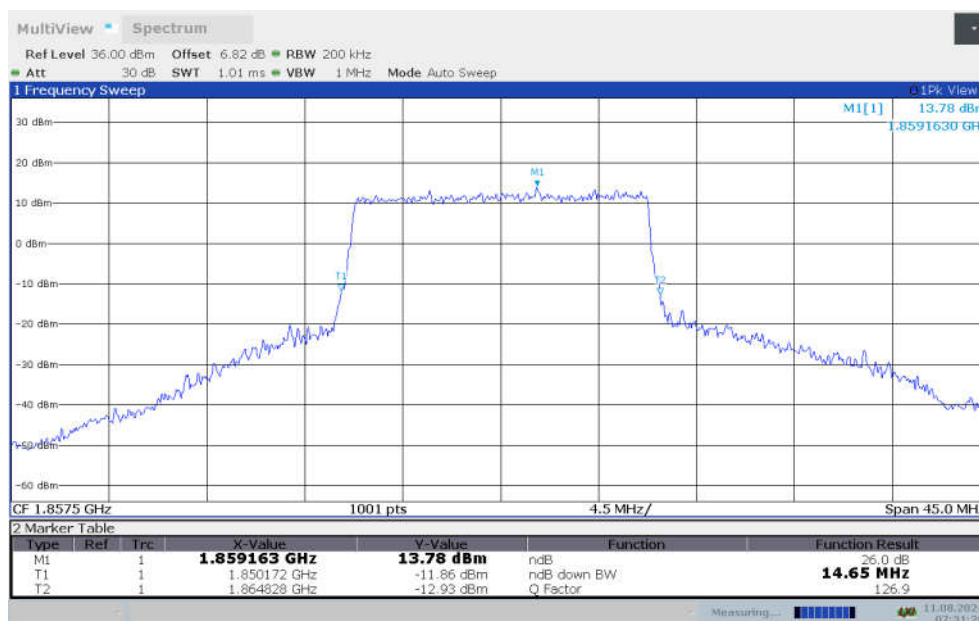


LTE Band 2 , 10MHz Bandwidth,HIGH,16QAM (-26dBc BW)



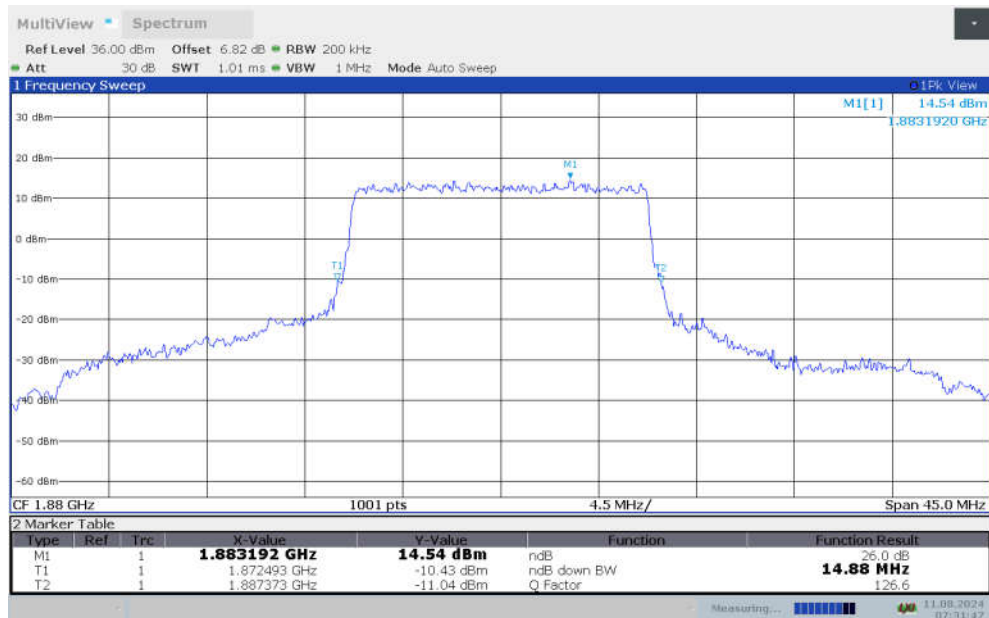
**LTE Band 2,15MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1857.5	14.700	14.655
1880	14.880	14.745
1902.5	14.610	14.655

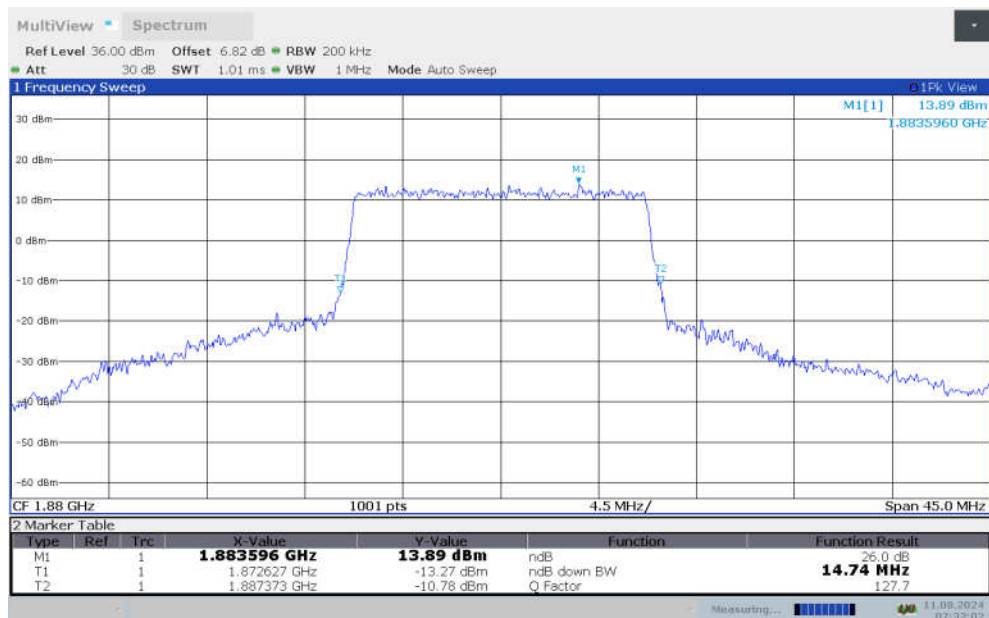
LTE Band 2 , 15MHz Bandwidth,LOW,QPSK (-26dBc BW)**LTE Band 2 , 15MHz Bandwidth,LOW,16QAM (-26dBc BW)**

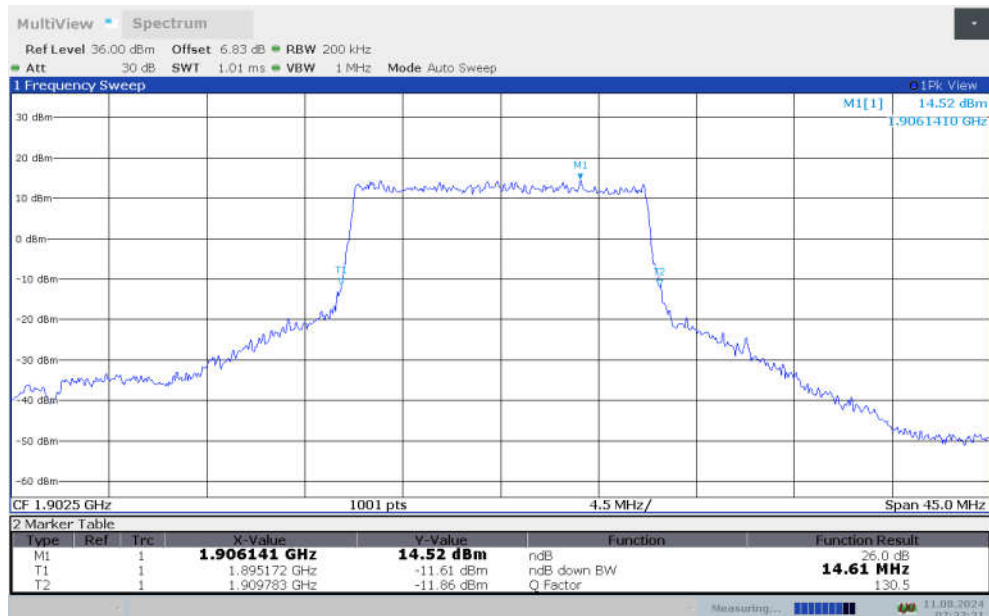
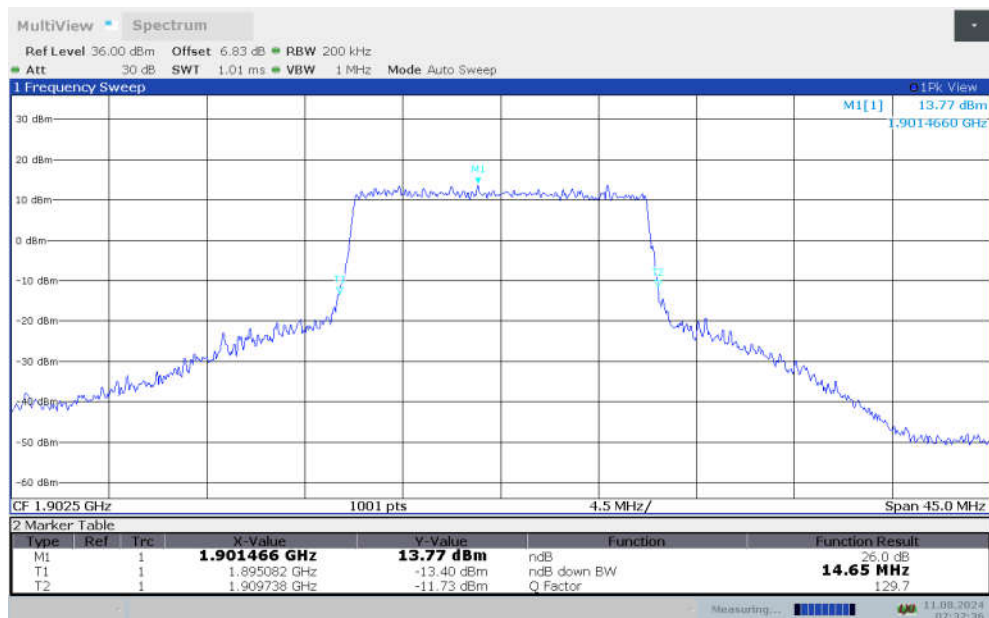


LTE Band 2 , 15MHz Bandwidth,MID,QPSK (-26dBc BW)



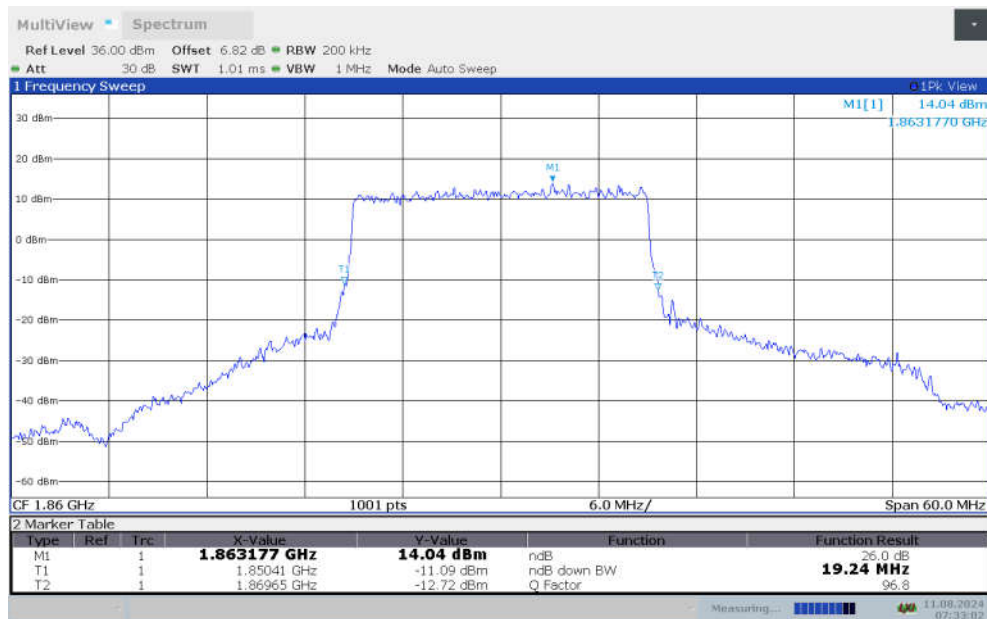
LTE Band 2 , 15MHz Bandwidth,MID,16QAM (-26dBc BW)



**LTE Band 2 , 15MHz Bandwidth,HIGH,QPSK (-26dBc BW)****LTE Band 2 , 15MHz Bandwidth,HIGH,16QAM (-26dBc BW)**

**LTE Band 2,20MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1860	19.241	19.361
1880	19.361	19.241
1900	19.181	19.241

LTE Band 2 , 20MHz Bandwidth,LOW,QPSK (-26dBc BW)**LTE Band 2 , 20MHz Bandwidth,LOW,16QAM (-26dBc BW)**