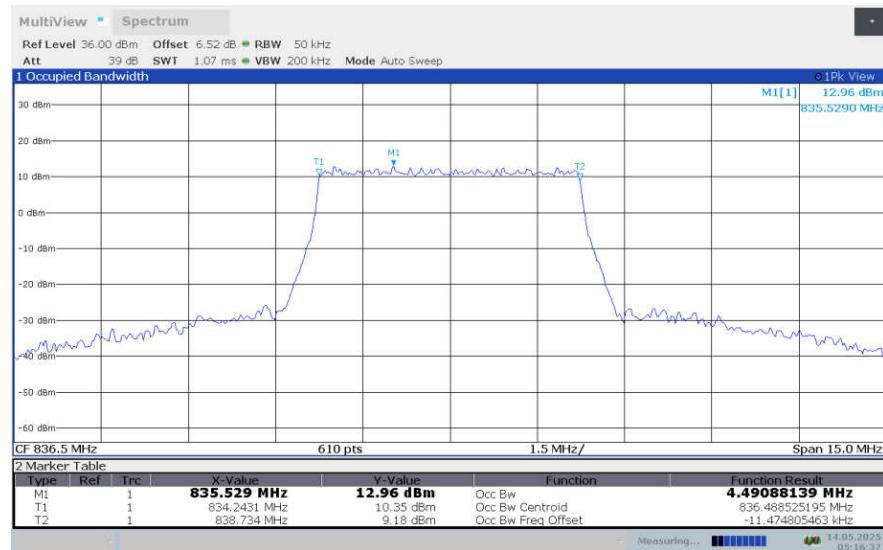
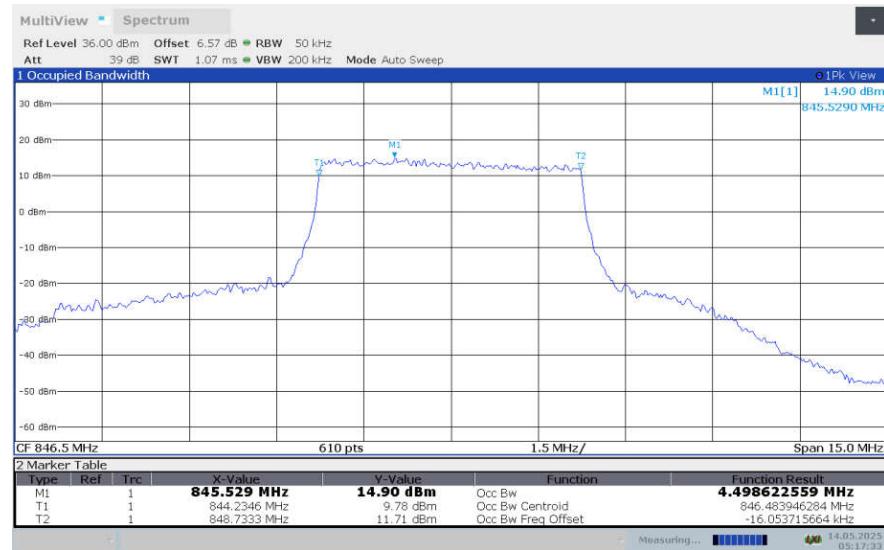


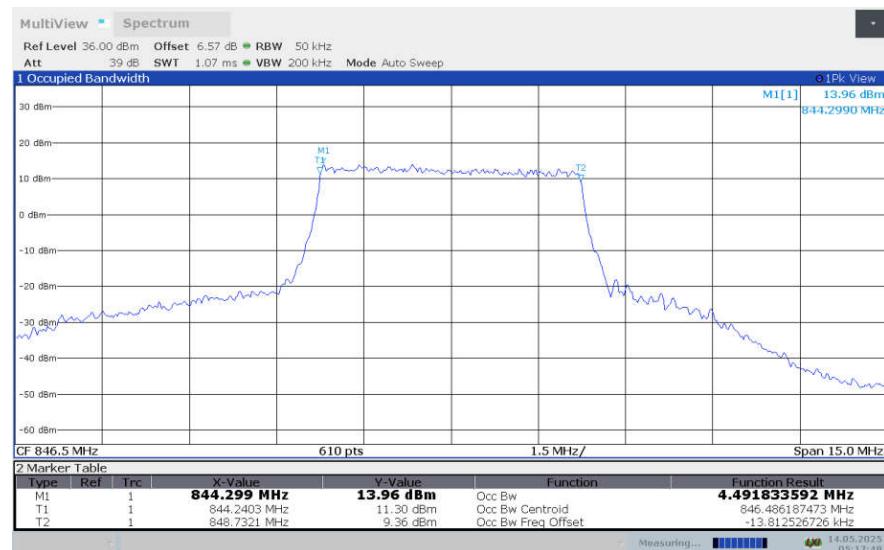
LTE band 5 , 5MHz Bandwidth,MID,64QAM (99% BW)



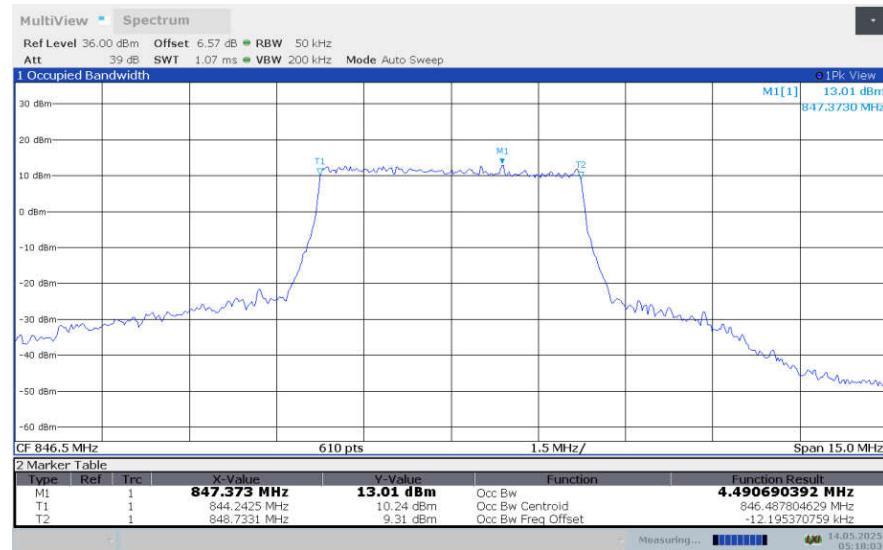
LTE band 5 , 5MHz Bandwidth,HIGH,QPSK (99% BW)



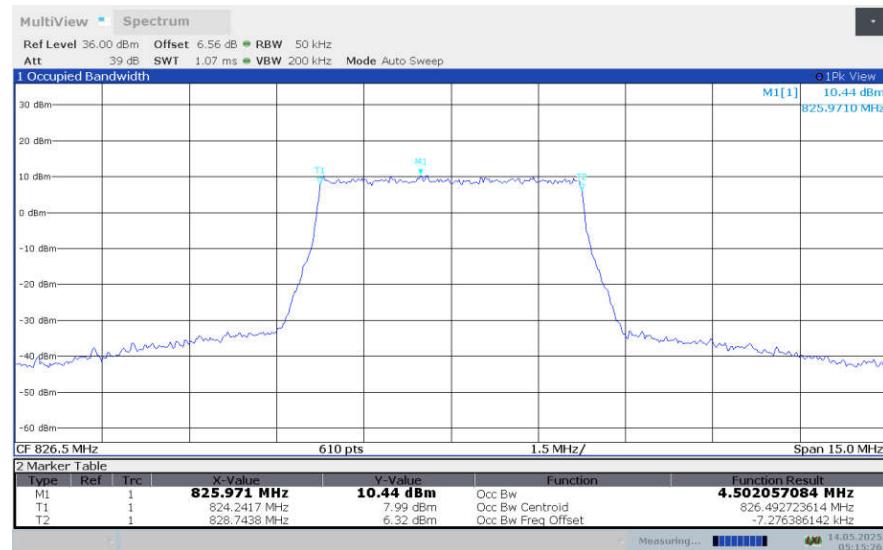
LTE band 5 , 5MHz Bandwidth,HIGH,16QAM (99% BW)



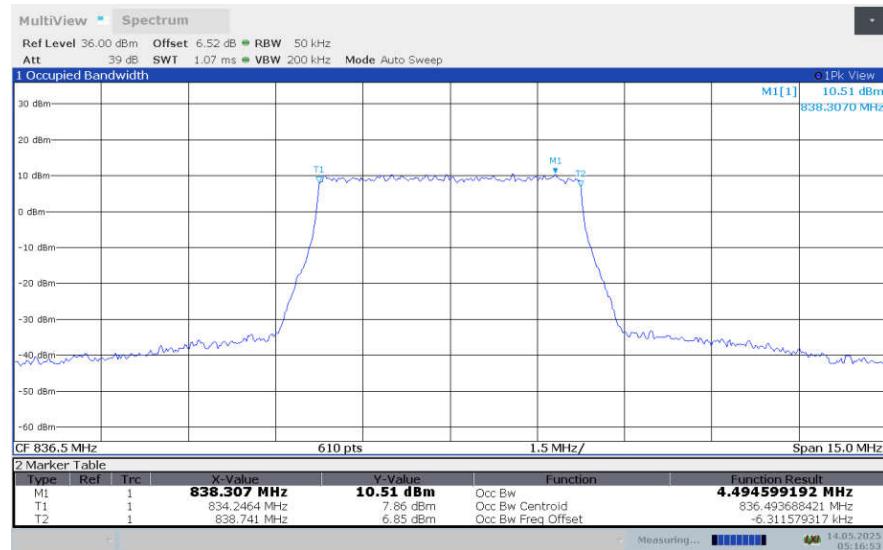
LTE band 5 , 5MHz Bandwidth,HIGH,64QAM (99% BW)



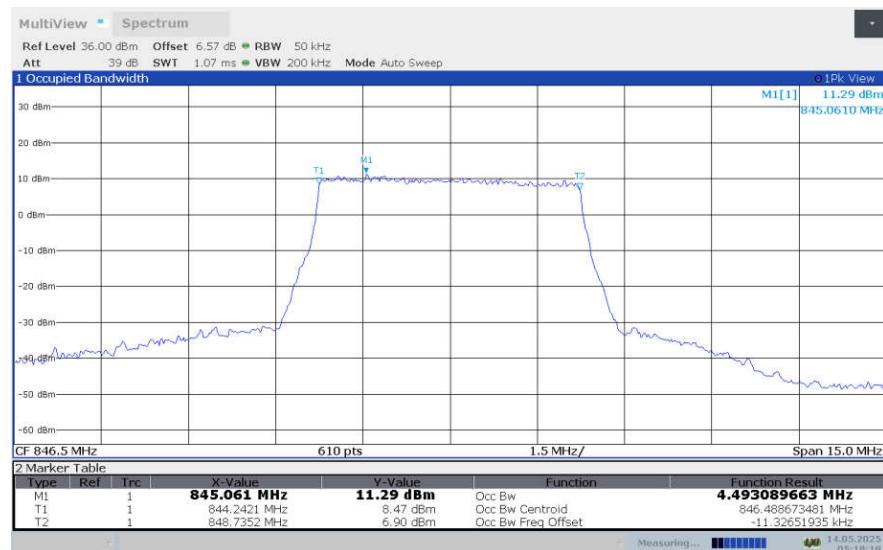
LTE band 5 , 5MHz Bandwidth,LOW,256QAM (99% BW)



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

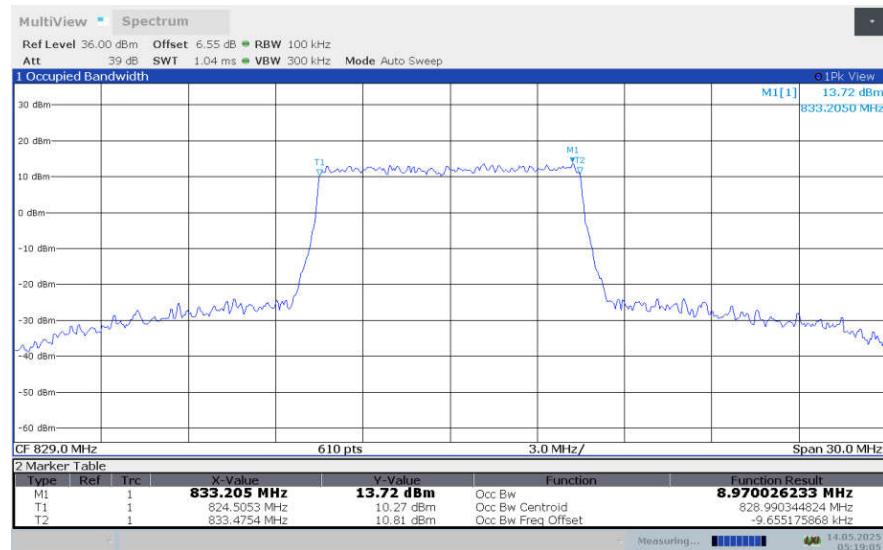
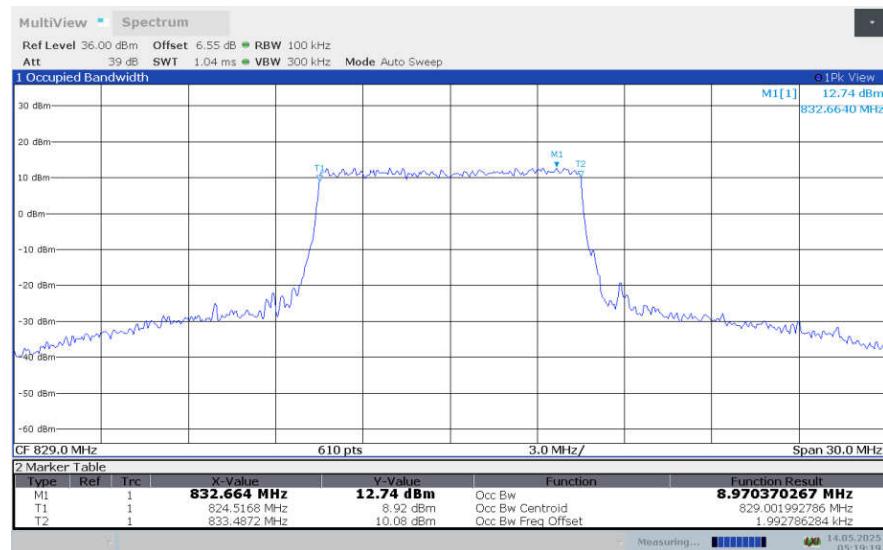


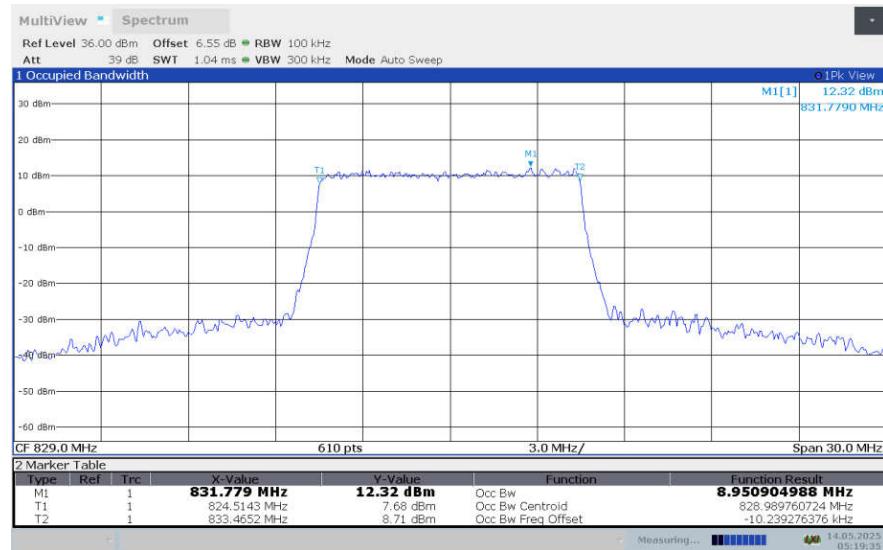
LTE band 5 , 5MHz Bandwidth,HIGH,256QAM (99% BW)



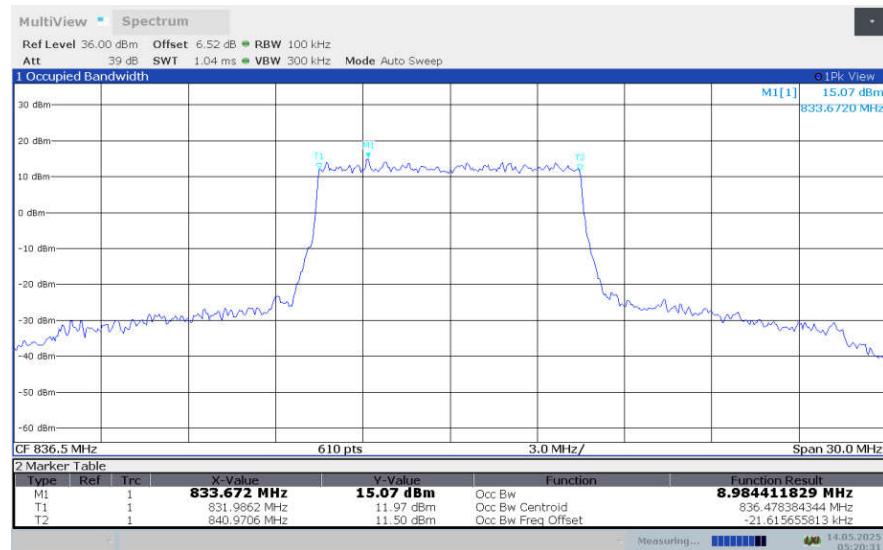
LTE band 5,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
829	8.970	8.970	8.951	8.973
836.5	8.984	8.972	8.966	8.969
844	8.981	8.968	8.961	8.949

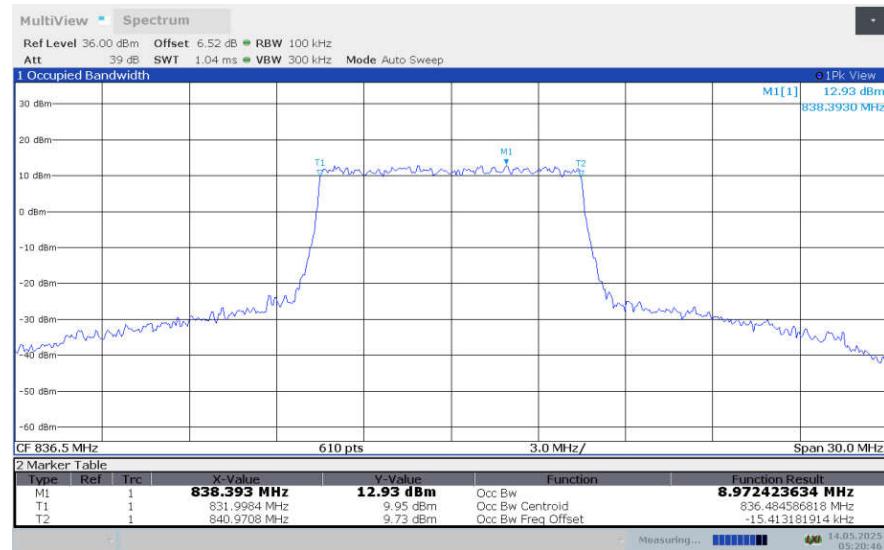
LTE band 5 , 10MHz Bandwidth,LOW,QPSK (99% BW)

LTE band 5 , 10MHz Bandwidth,LOW,16QAM (99% BW)

LTE band 5 , 10MHz Bandwidth,LOW,64QAM (99% BW)



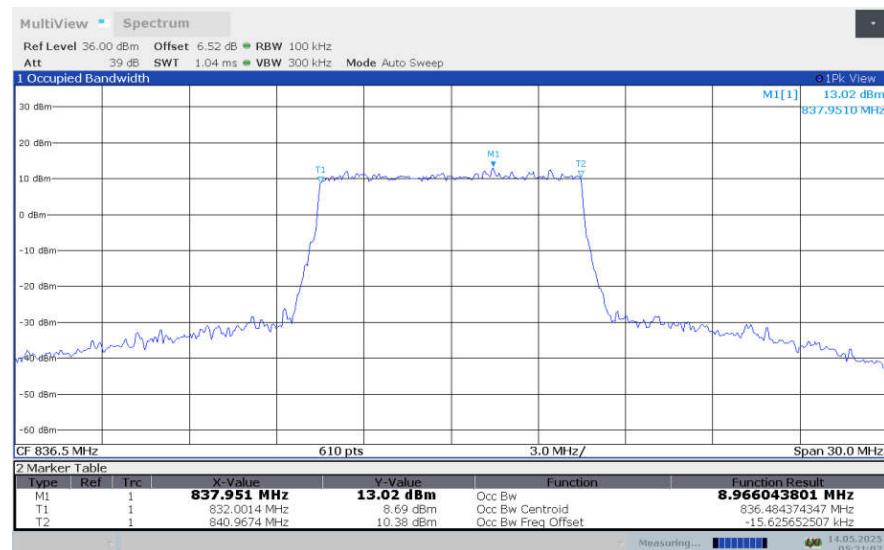
LTE band 5 , 10MHz Bandwidth,MID,QPSK (99% BW)



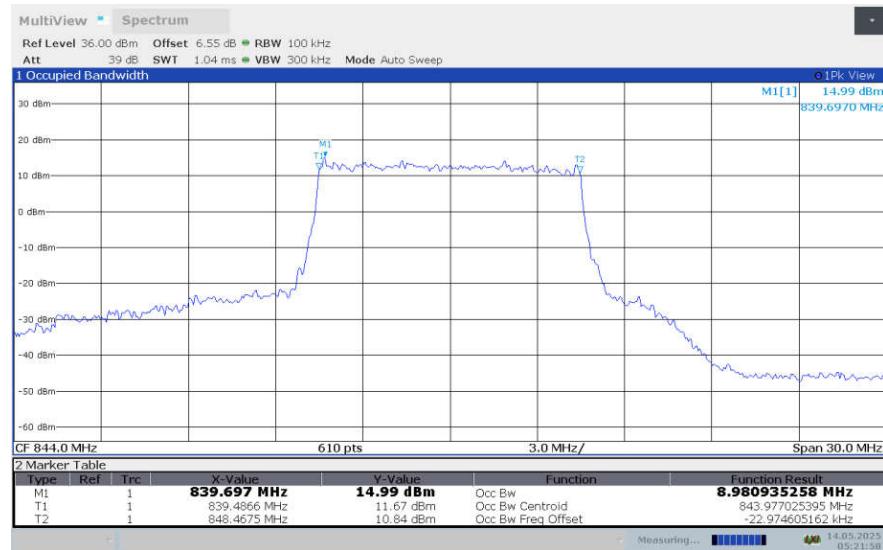
LTE band 5 , 10MHz Bandwidth,MID,16QAM (99% BW)



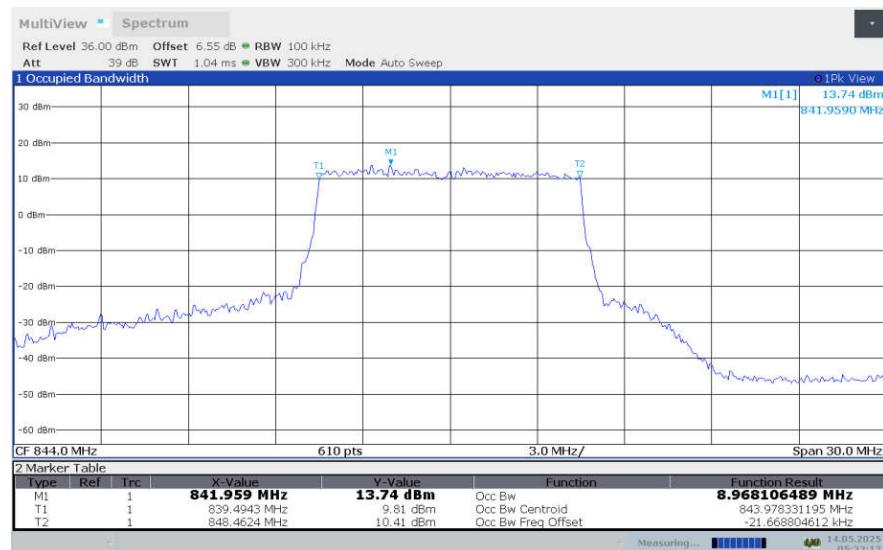
LTE band 5 , 10MHz Bandwidth,MID,64QAM (99% BW)



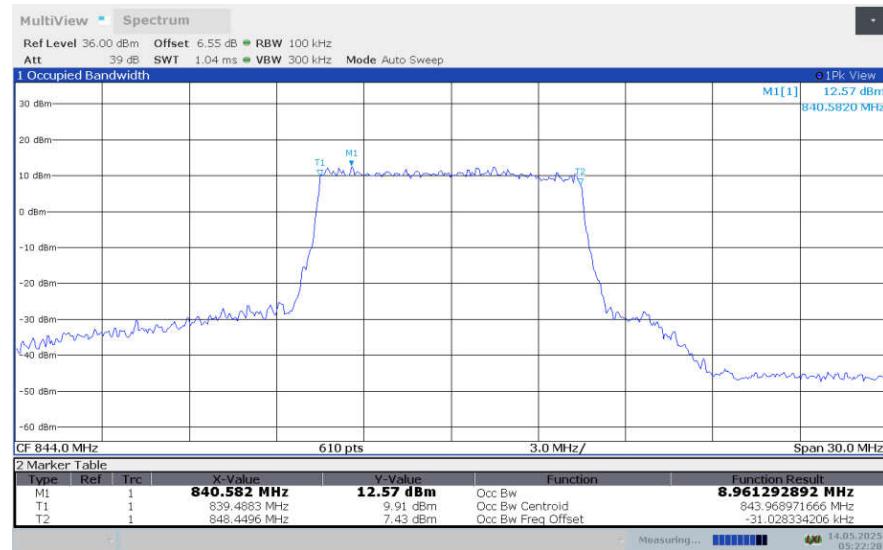
LTE band 5 , 10MHz Bandwidth,HIGH,QPSK (99% BW)



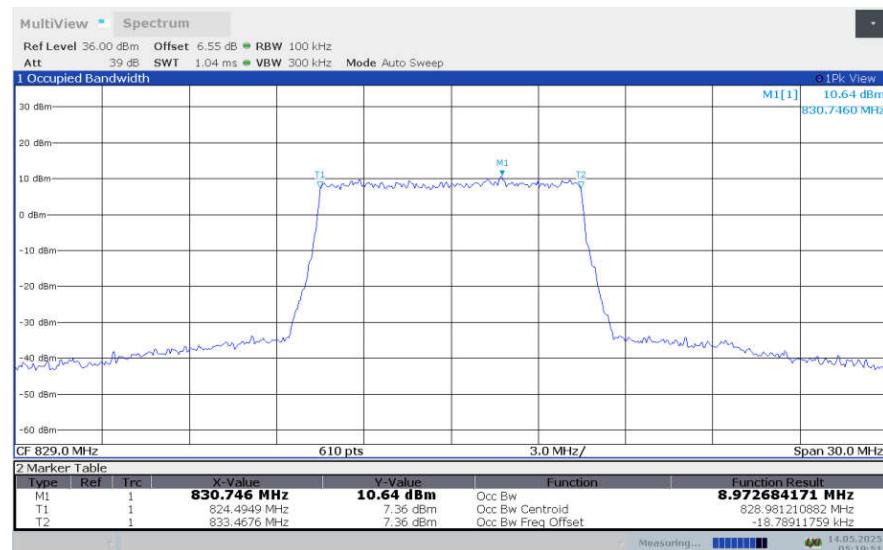
LTE band 5 , 10MHz Bandwidth,HIGH,16QAM (99% BW)



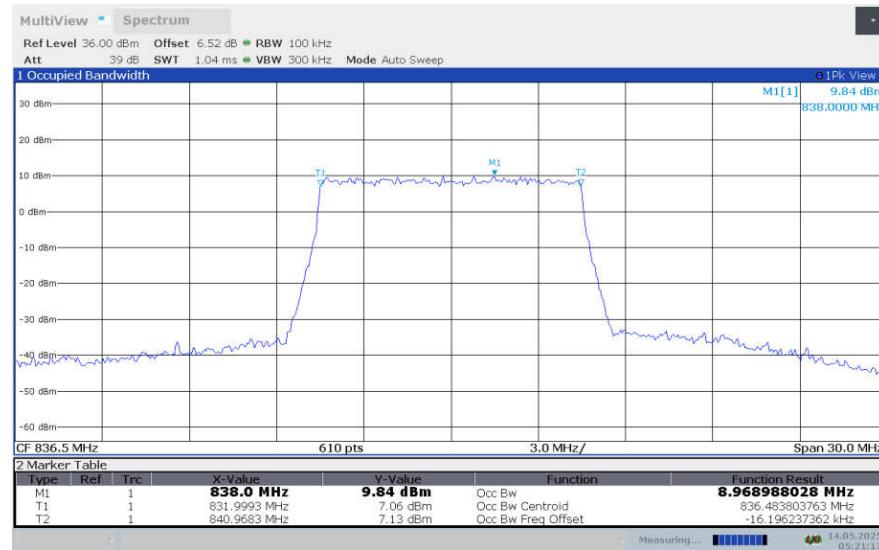
LTE band 5 , 10MHz Bandwidth,HIGH,64QAM (99% BW)



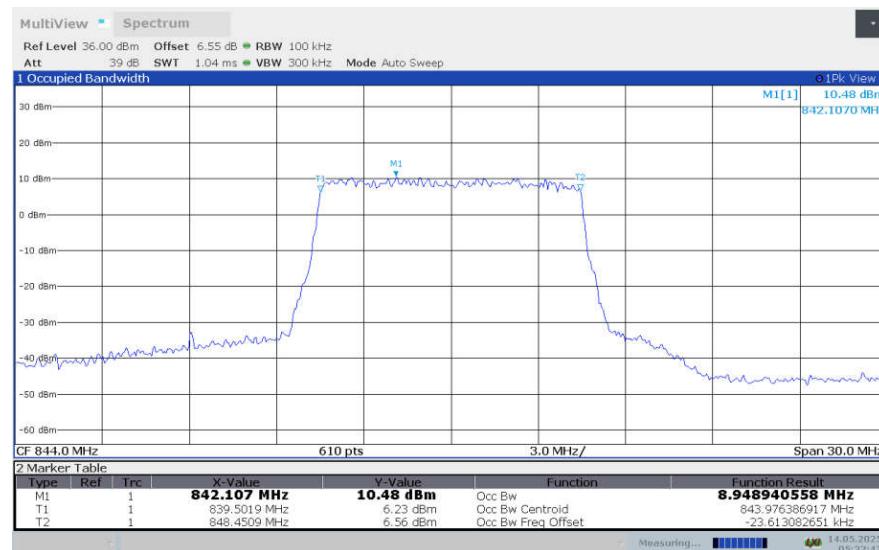
LTE band 5 , 10MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 5 , 10MHz Bandwidth,MID,256QAM (99% BW)

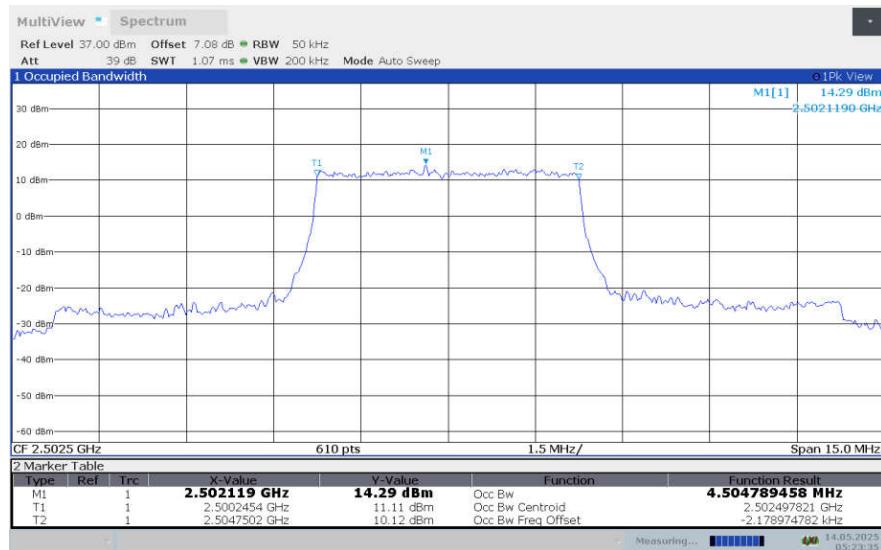
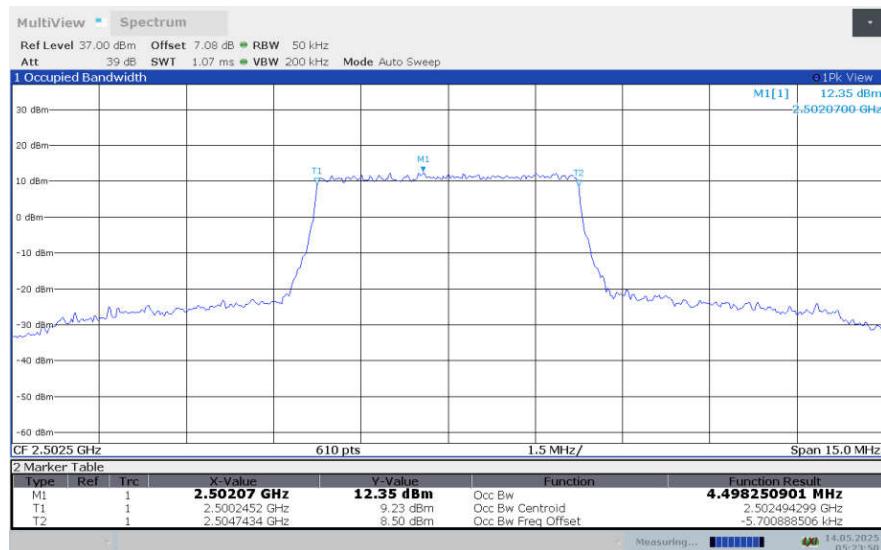


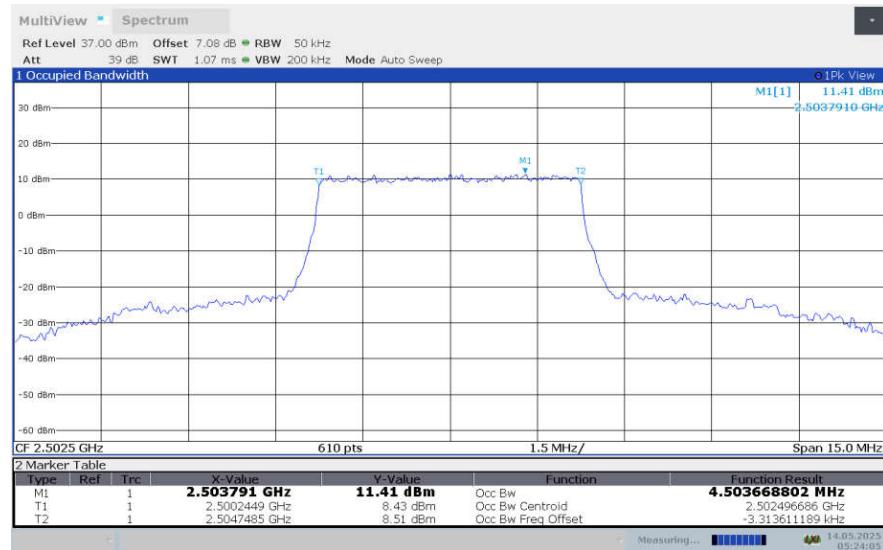
LTE band 5 , 10MHz Bandwidth,HIGH,256QAM (99% BW)



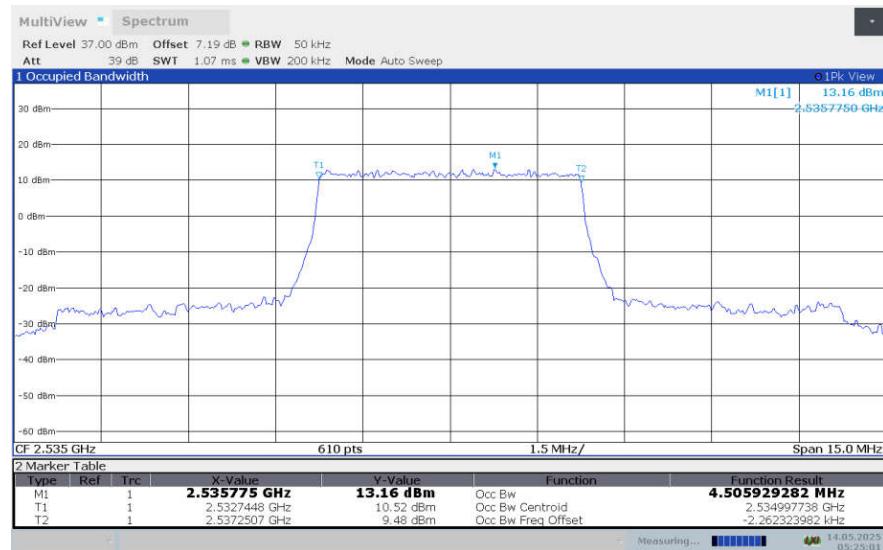
LTE band 7,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
2502.5	4.505	4.498	4.504	4.502
2535	4.506	4.504	4.507	4.510
2567.5	4.498	4.498	4.504	4.499

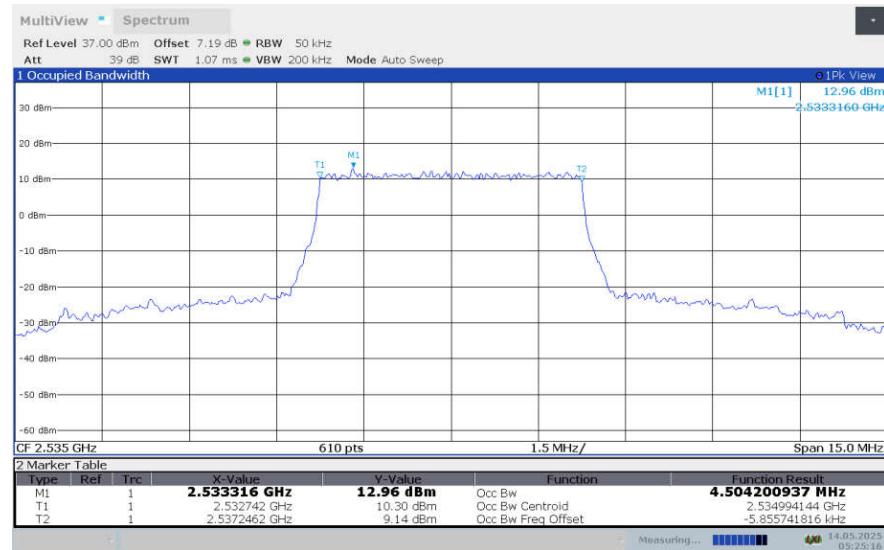
LTE band 7, 5MHz Bandwidth,LOW,QPSK (99% BW)

LTE band 7, 5MHz Bandwidth,LOW,16QAM (99% BW)

LTE band 7, 5MHz Bandwidth,LOW,64QAM (99% BW)



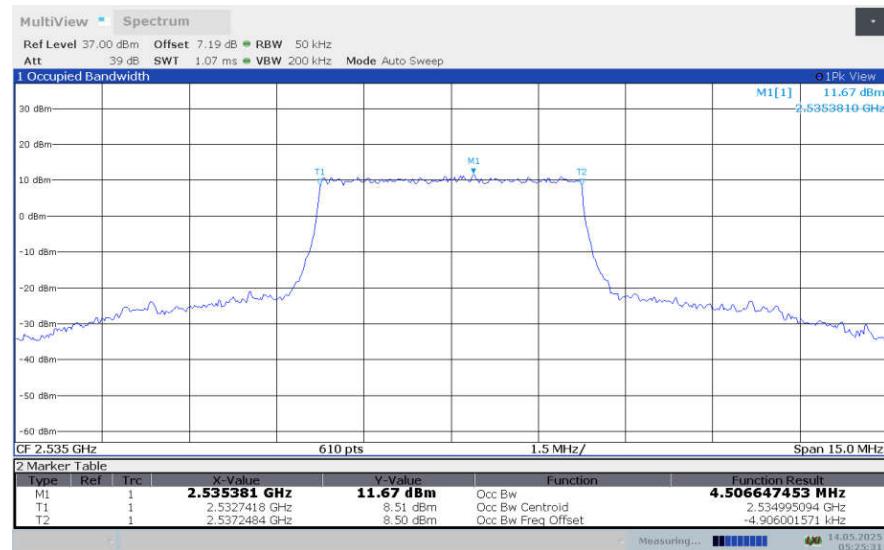
LTE band 7 , 5MHz Bandwidth,MID,QPSK (99% BW)



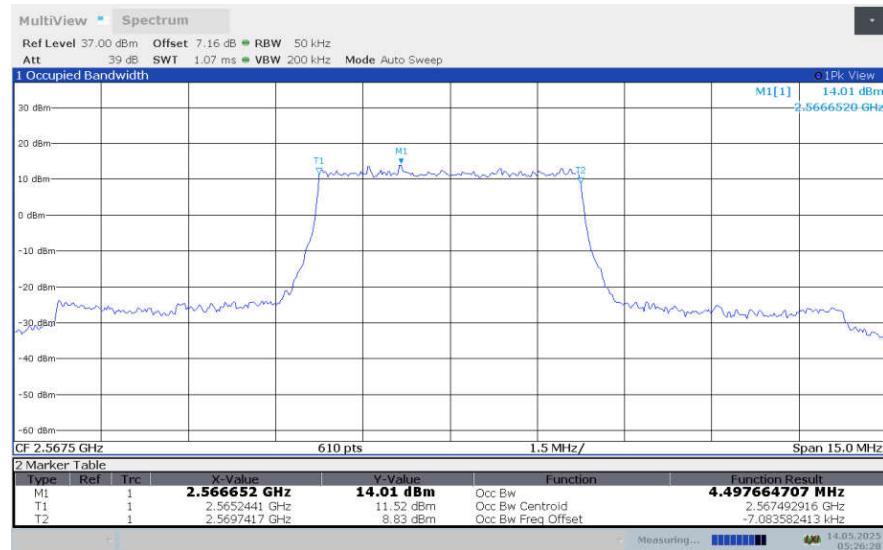
LTE band 7 , 5MHz Bandwidth,MID,16QAM (99% BW)



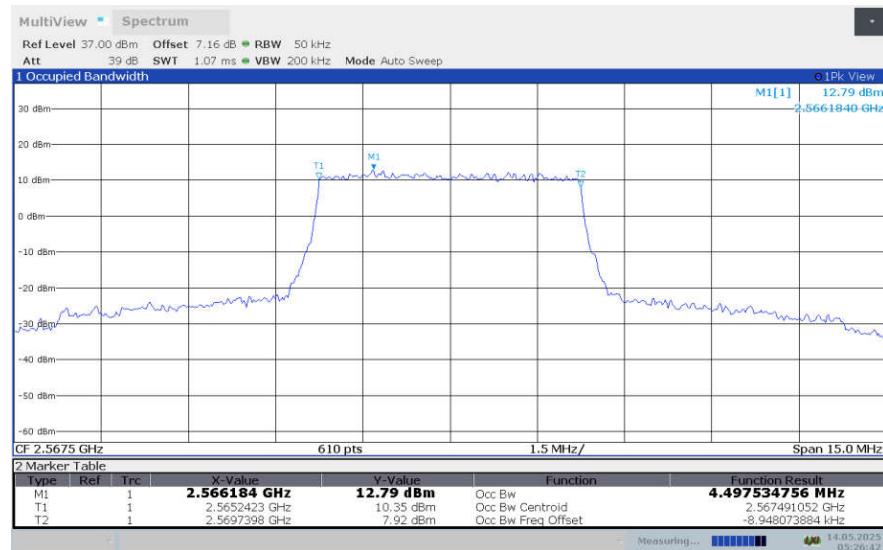
LTE band 7 , 5MHz Bandwidth,MID,64QAM (99% BW)



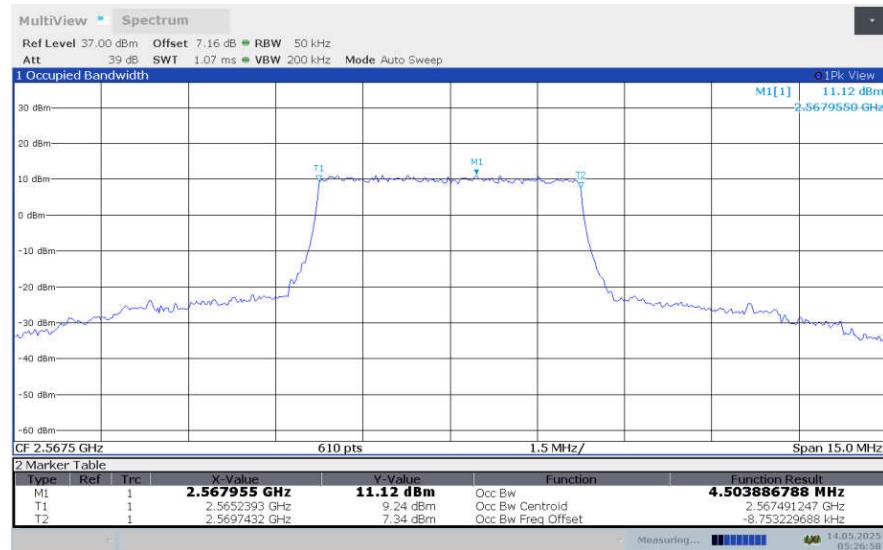
LTE band 7 , 5MHz Bandwidth,HIGH,QPSK (99% BW)



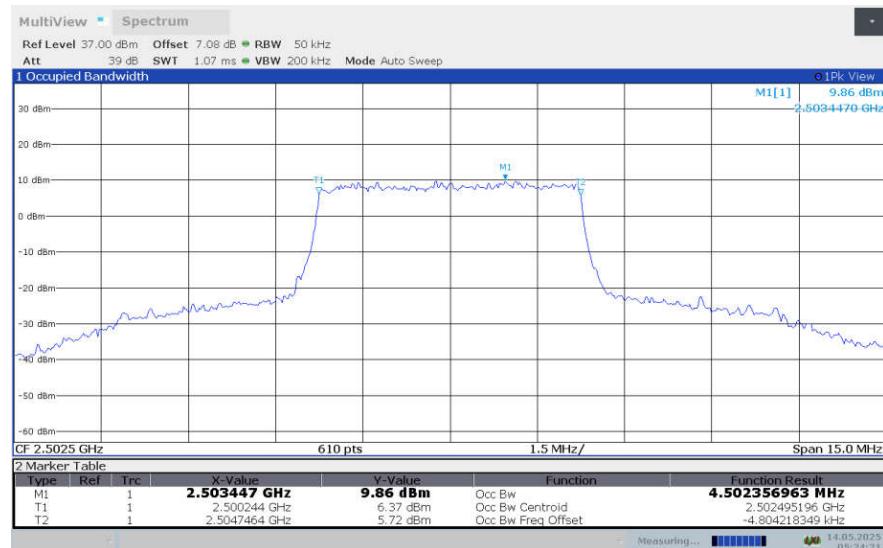
LTE band 7 , 5MHz Bandwidth,HIGH,16QAM (99% BW)



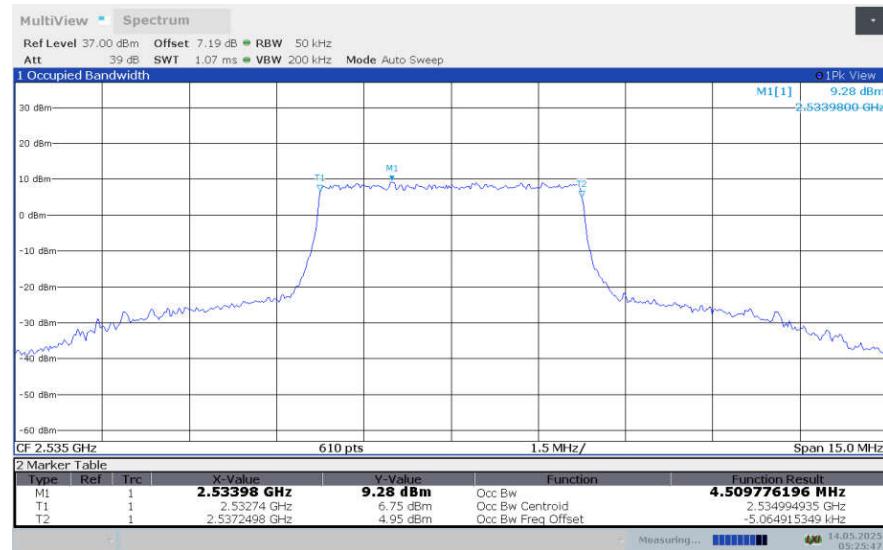
LTE band 7 , 5MHz Bandwidth,HIGH,64QAM (99% BW)



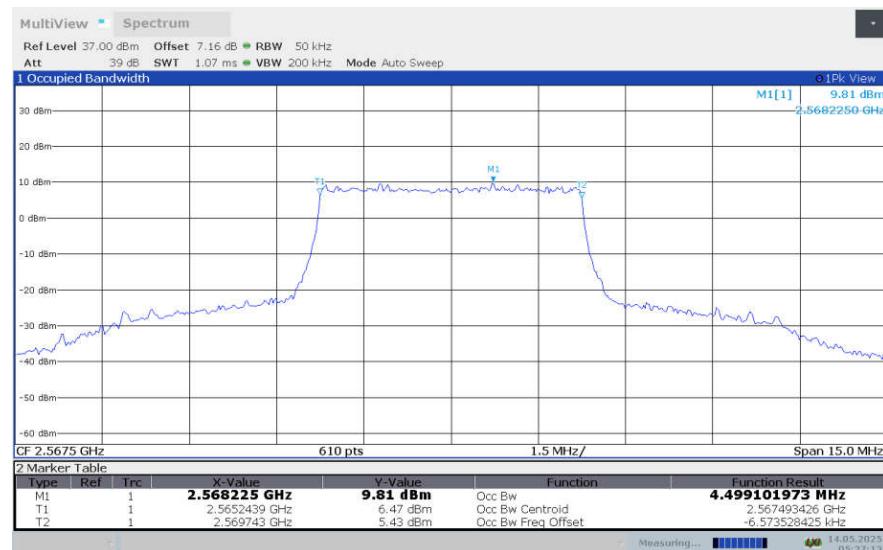
LTE band 7 , 5MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 7 , 5MHz Bandwidth,MID,256QAM (99% BW)

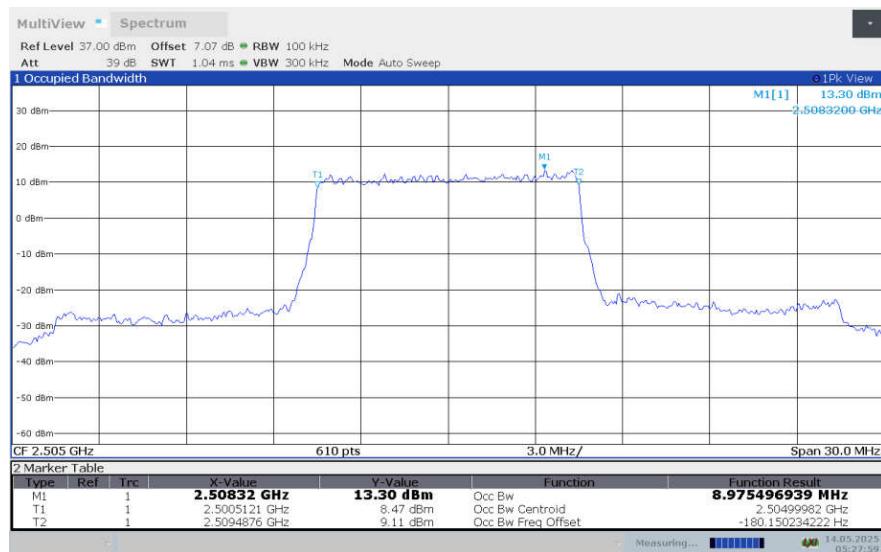
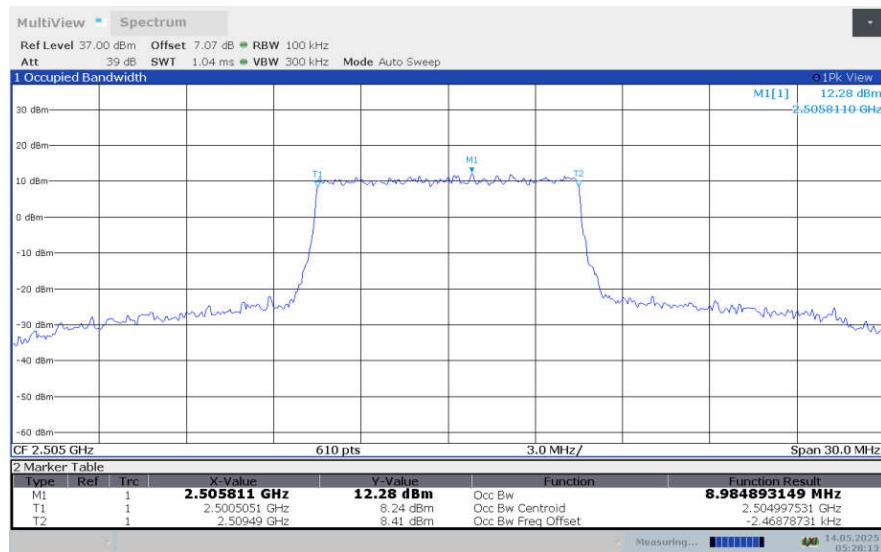


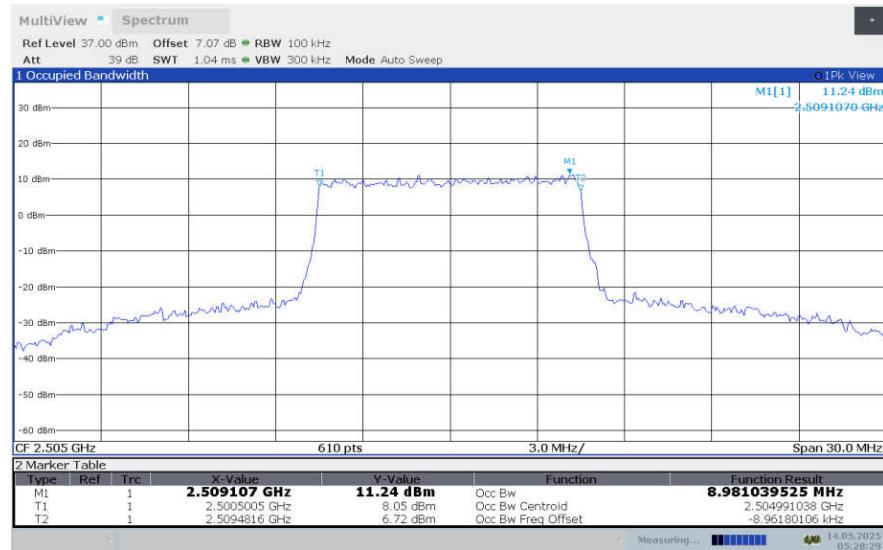
LTE band 7 , 5MHz Bandwidth,HIGH,256QAM (99% BW)



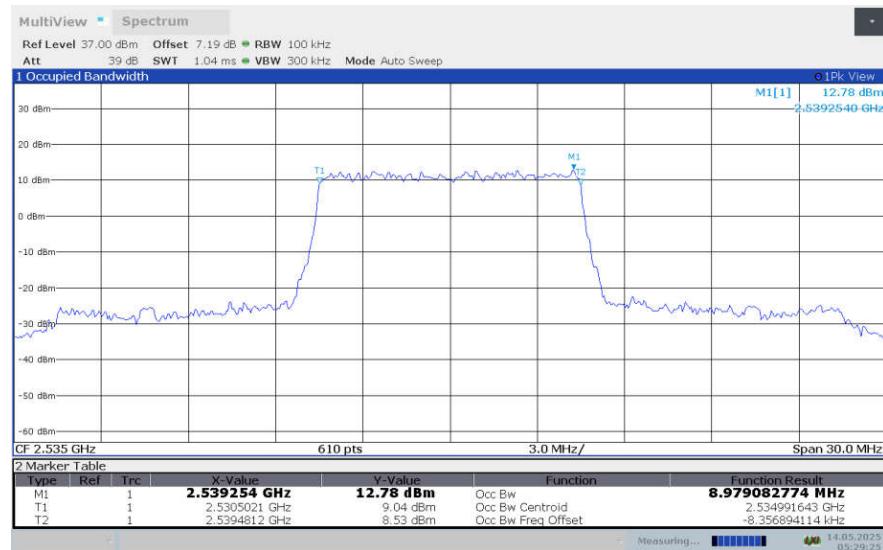
LTE band 7,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
2505	8.975	8.985	8.981	8.989
2535	8.979	9.006	8.987	8.986
2565	8.995	8.982	8.969	8.987

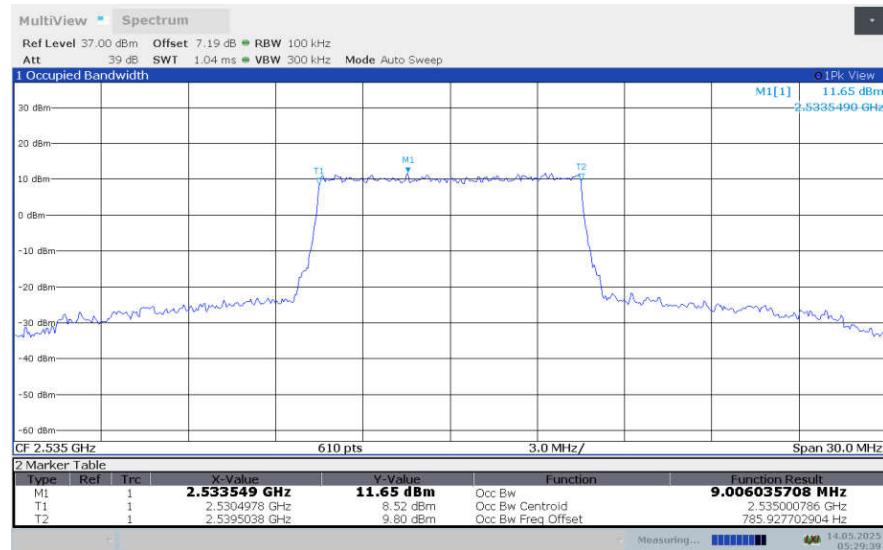
LTE band 7 , 10MHz Bandwidth,LOW,QPSK (99% BW)

LTE band 7 , 10MHz Bandwidth,LOW,16QAM (99% BW)

LTE band 7 , 10MHz Bandwidth,LOW,64QAM (99% BW)



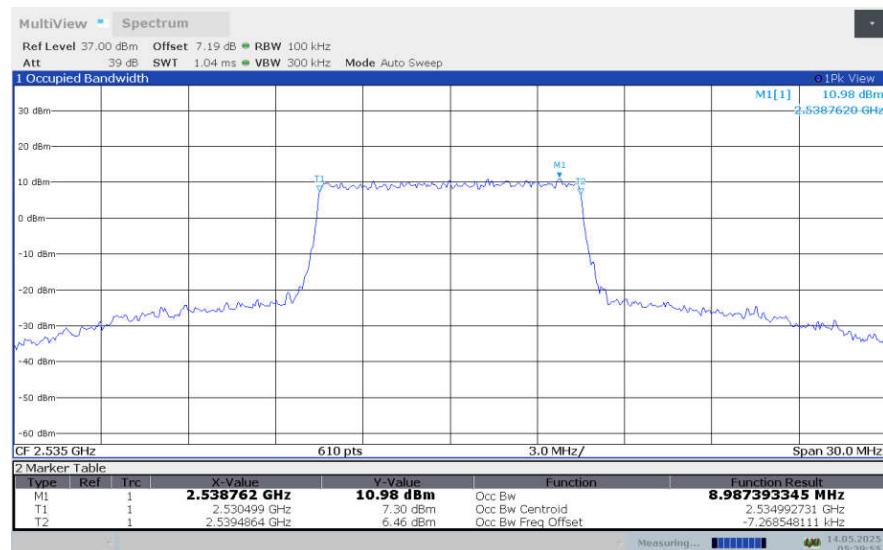
LTE band 7 , 10MHz Bandwidth,MID,QPSK (99% BW)



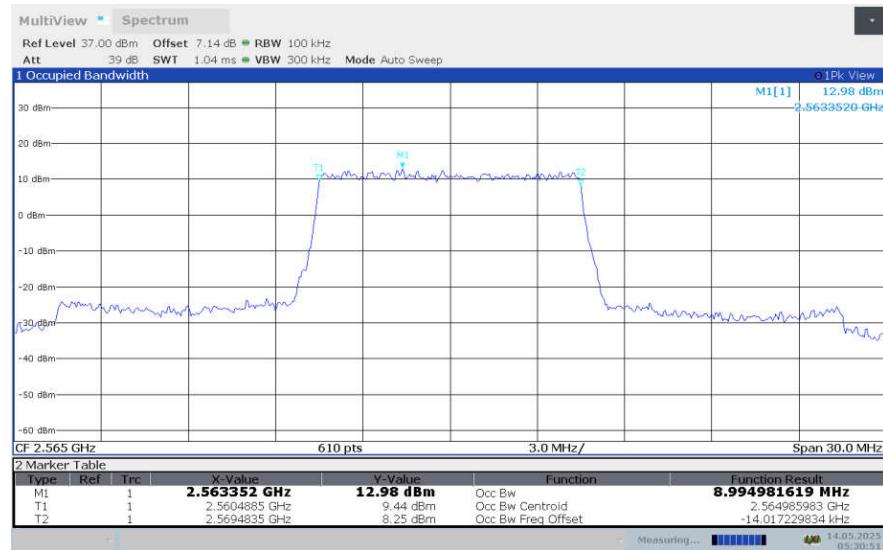
LTE band 7 , 10MHz Bandwidth,MID,16QAM (99% BW)



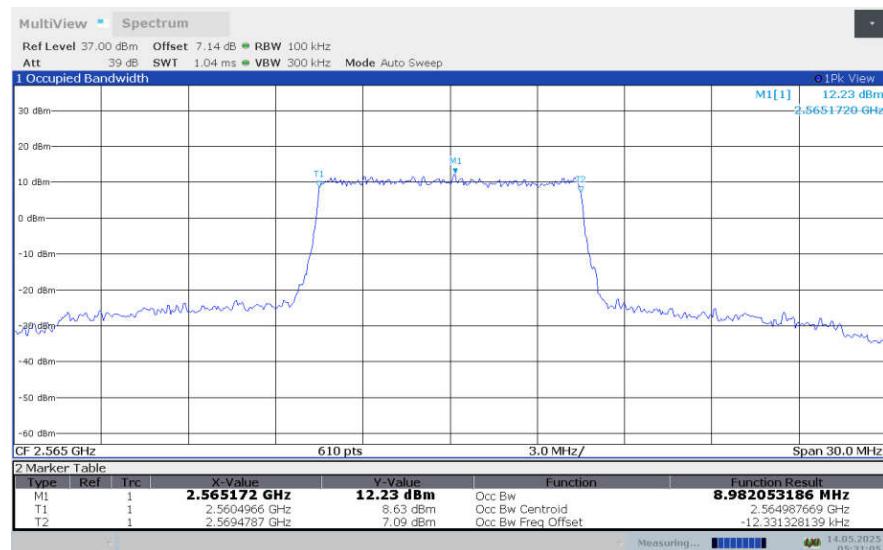
LTE band 7 , 10MHz Bandwidth,MID,64QAM (99% BW)



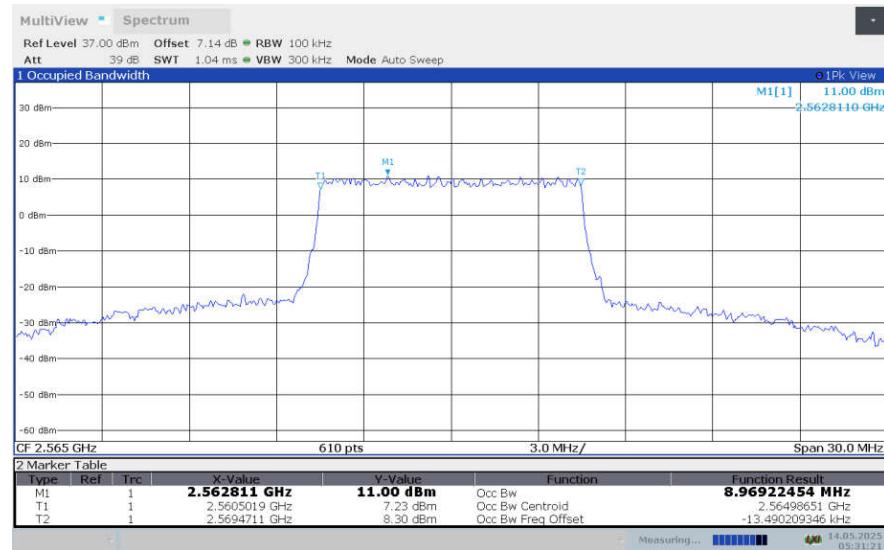
LTE band 7 , 10MHz Bandwidth,HIGH,QPSK (99% BW)



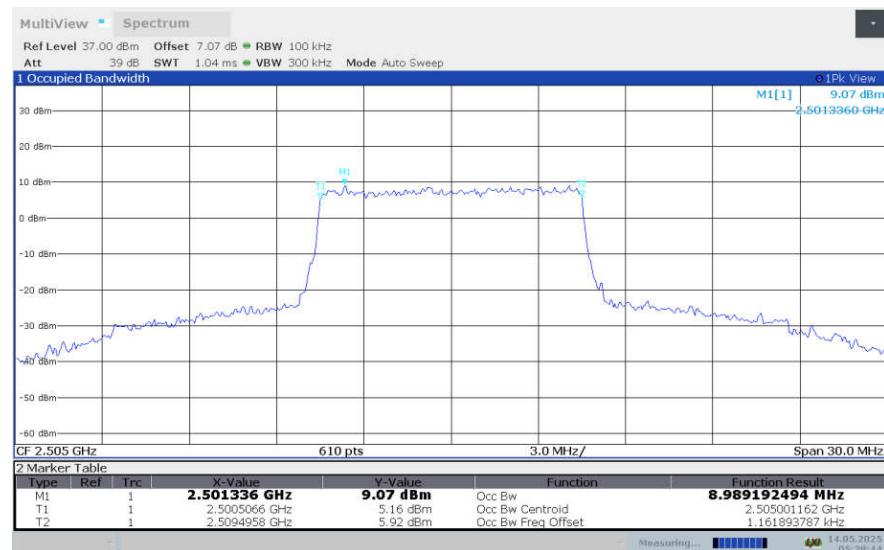
LTE band 7 , 10MHz Bandwidth,HIGH,16QAM (99% BW)



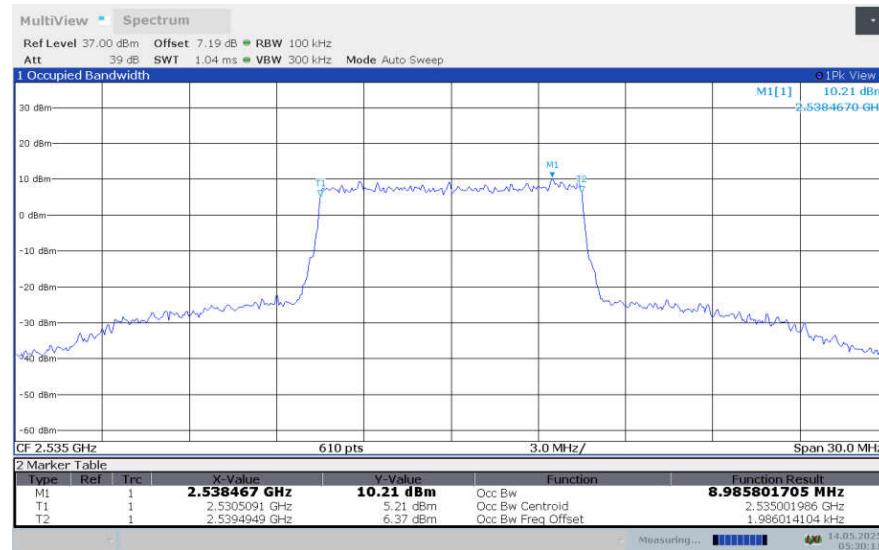
LTE band 7 , 10MHz Bandwidth,HIGH,64QAM (99% BW)



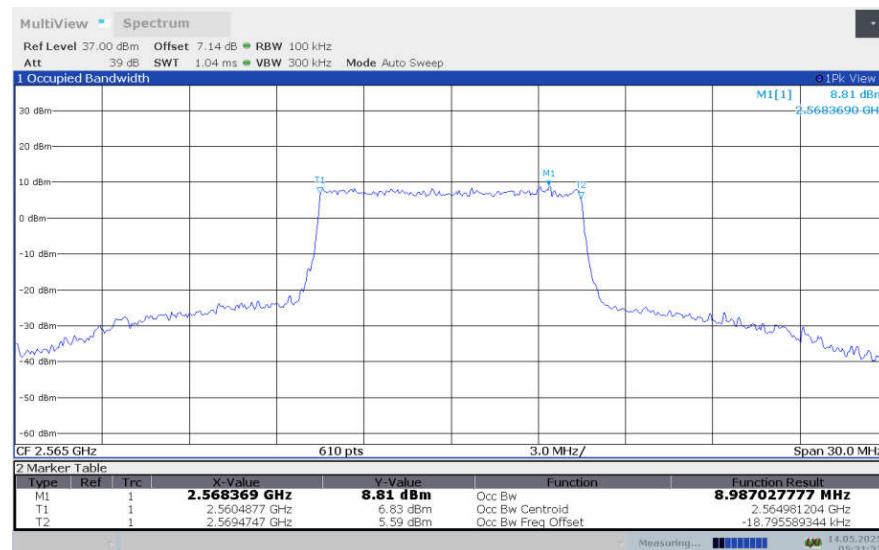
LTE band 7 , 10MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 7 , 10MHz Bandwidth,MID,256QAM (99% BW)

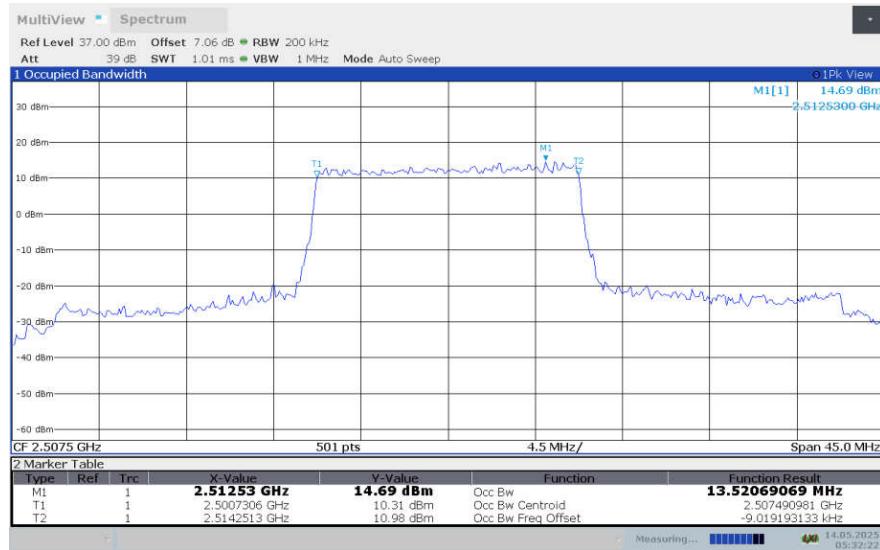
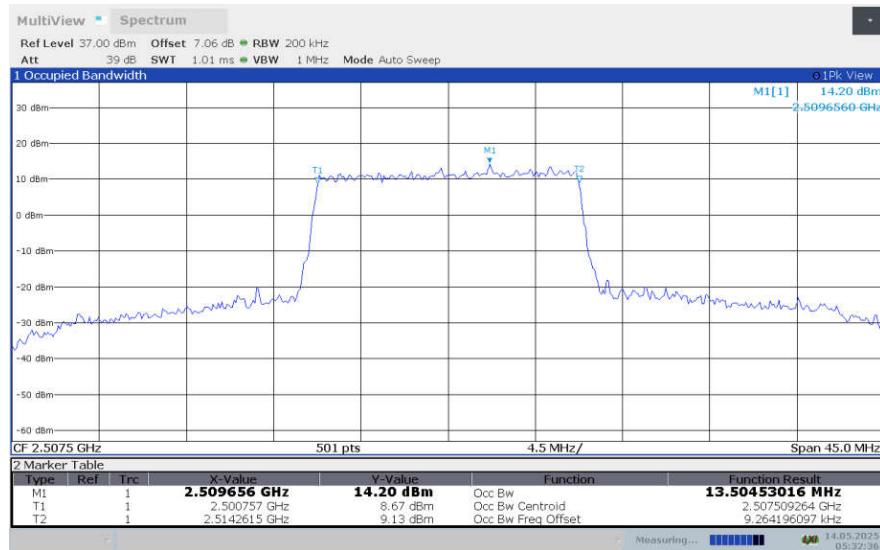


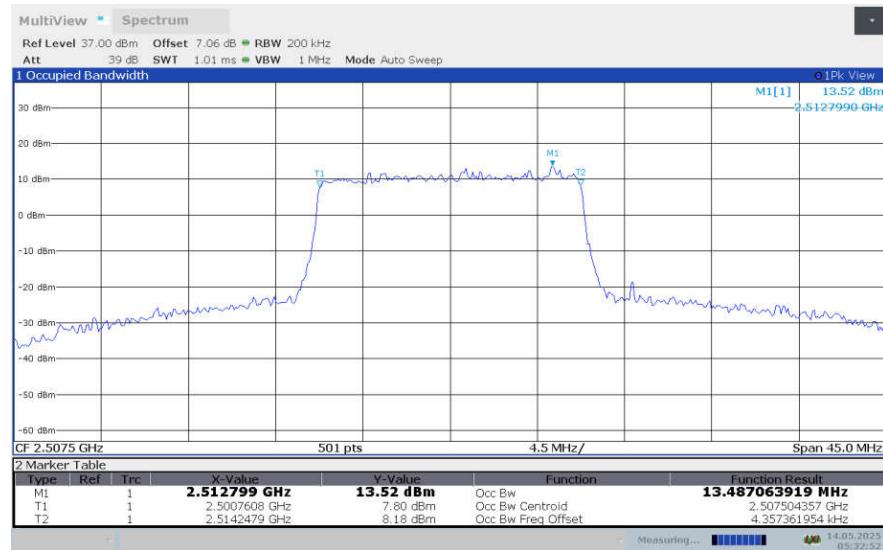
LTE band 7 , 10MHz Bandwidth,HIGH,256QAM (99% BW)



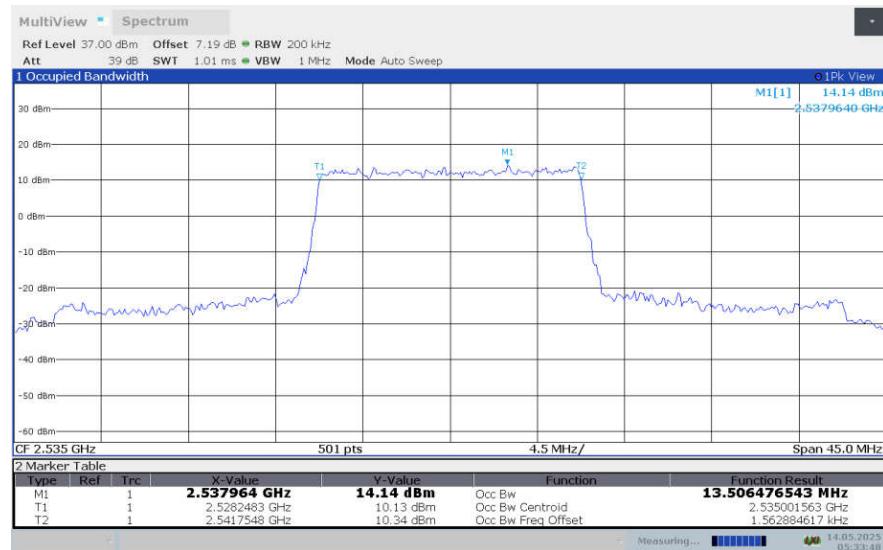
LTE band 7,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
2507.5	13.521	13.505	13.487	13.489
2535	13.506	13.513	13.509	13.501
2562.5	13.491	13.494	13.527	13.511

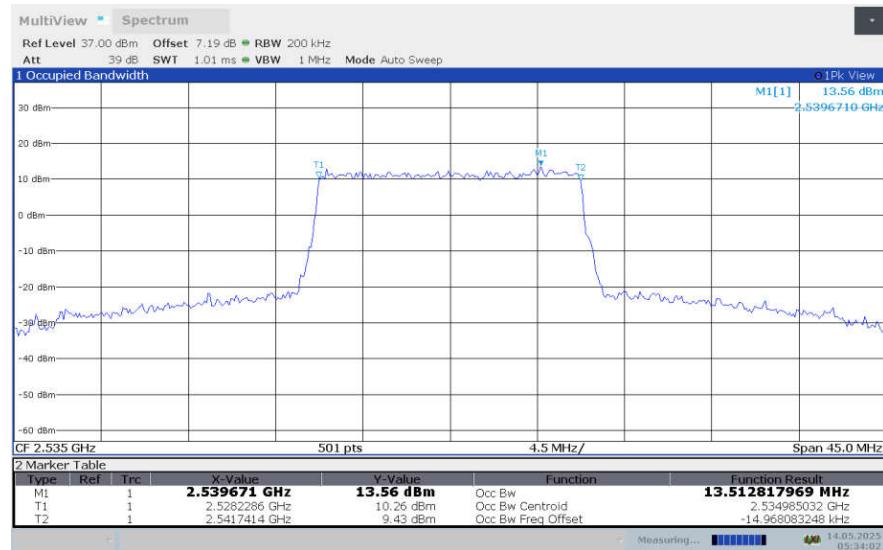
LTE band 7 , 15MHz Bandwidth,LOW,QPSK (99% BW)

LTE band 7 , 15MHz Bandwidth,LOW,16QAM (99% BW)

LTE band 7 , 15MHz Bandwidth,LOW,64QAM (99% BW)



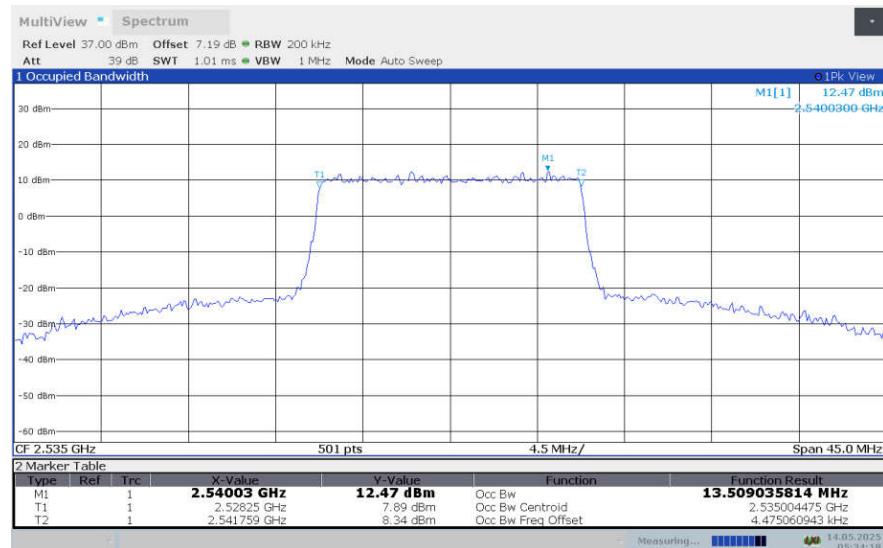
LTE band 7 , 15MHz Bandwidth,MID,QPSK (99% BW)



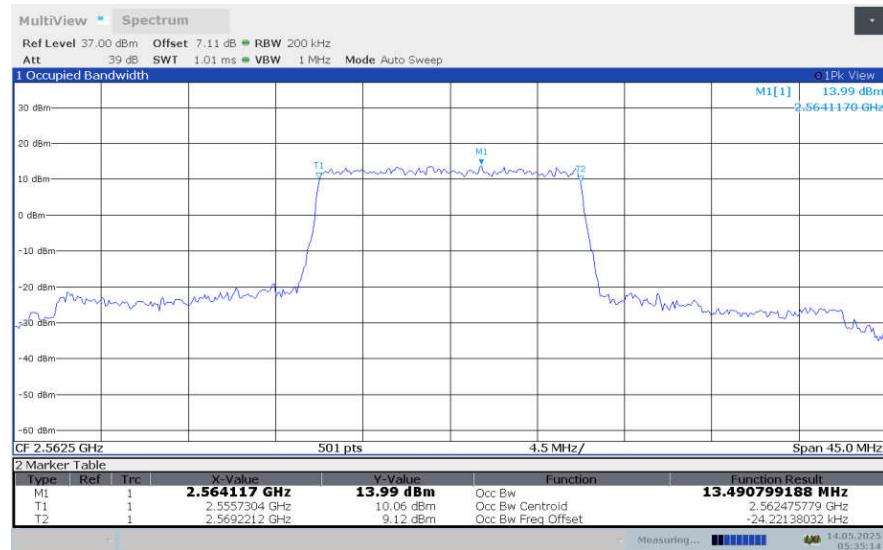
LTE band 7 , 15MHz Bandwidth,MID,16QAM (99% BW)



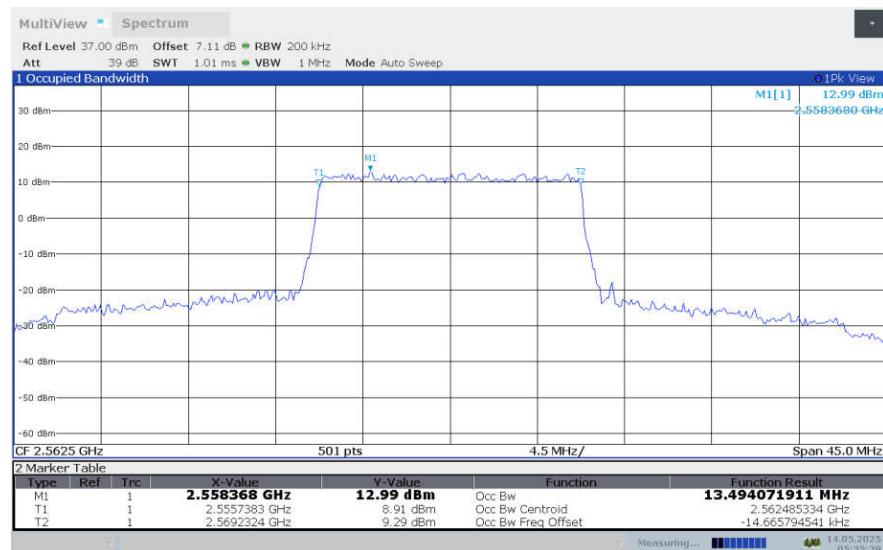
LTE band 7 , 15MHz Bandwidth,MID,64QAM (99% BW)



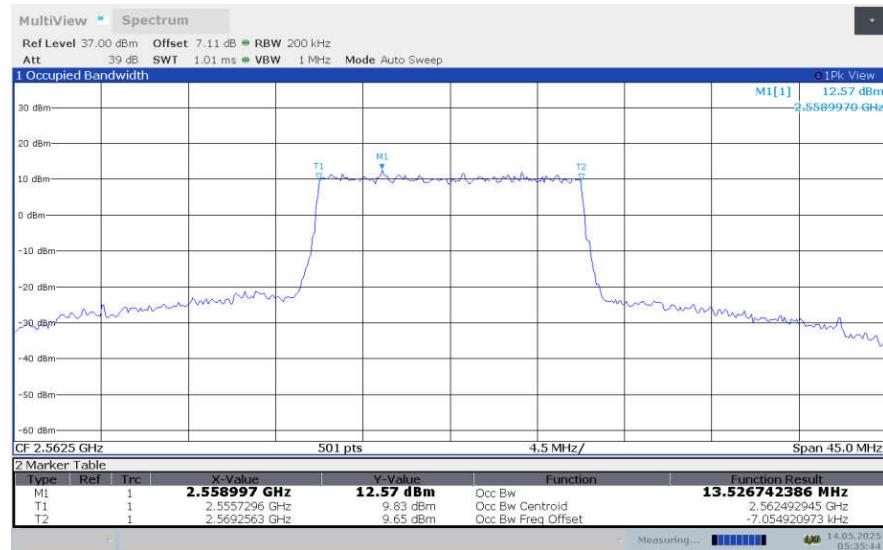
LTE band 7 , 15MHz Bandwidth,HIGH,QPSK (99% BW)



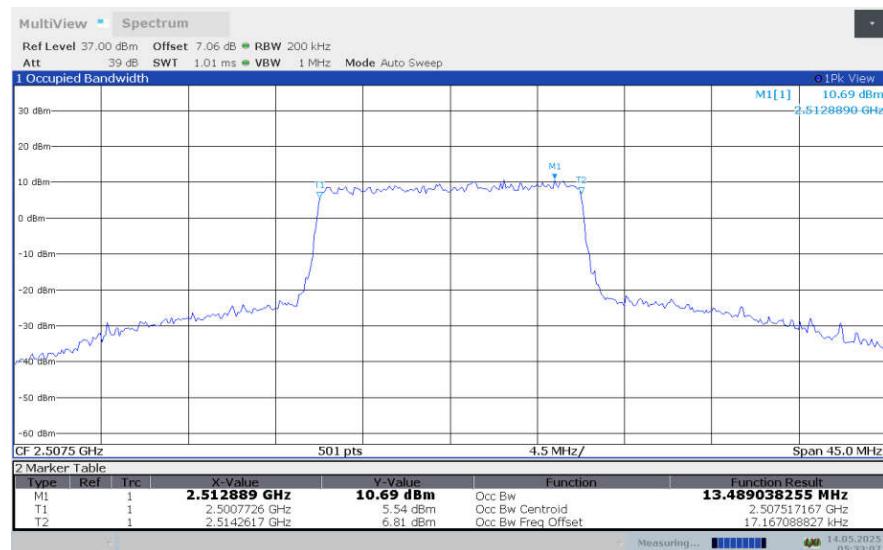
LTE band 7 , 15MHz Bandwidth,HIGH,16QAM (99% BW)



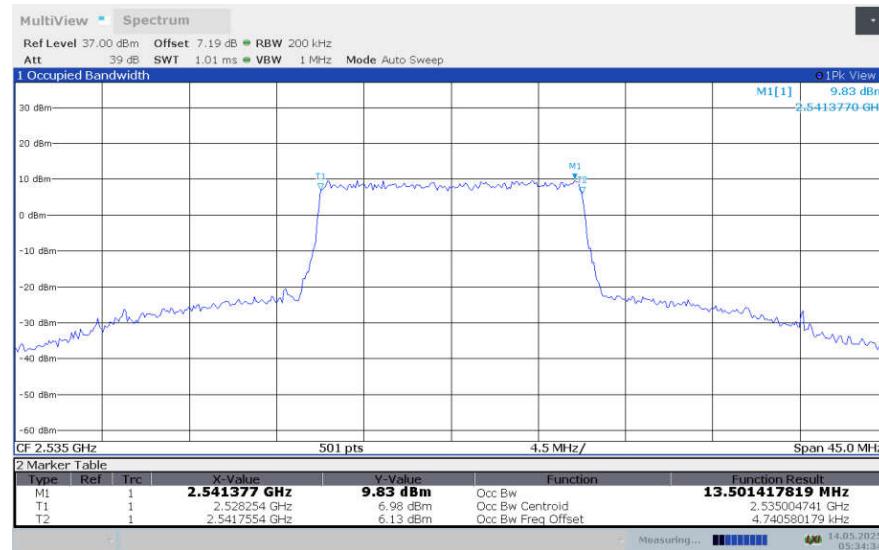
LTE band 7 , 15MHz Bandwidth,HIGH,64QAM (99% BW)



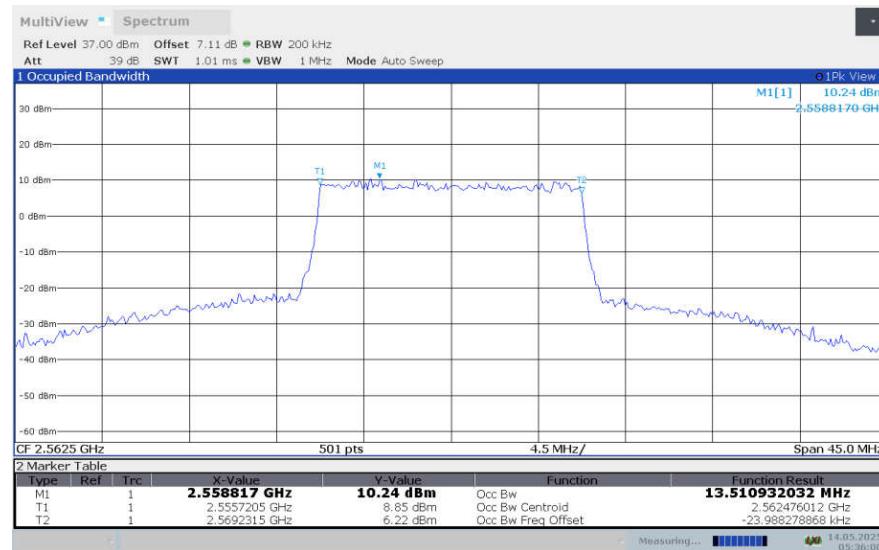
LTE band 7 , 15MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 7 , 15MHz Bandwidth,MID,256QAM (99% BW)

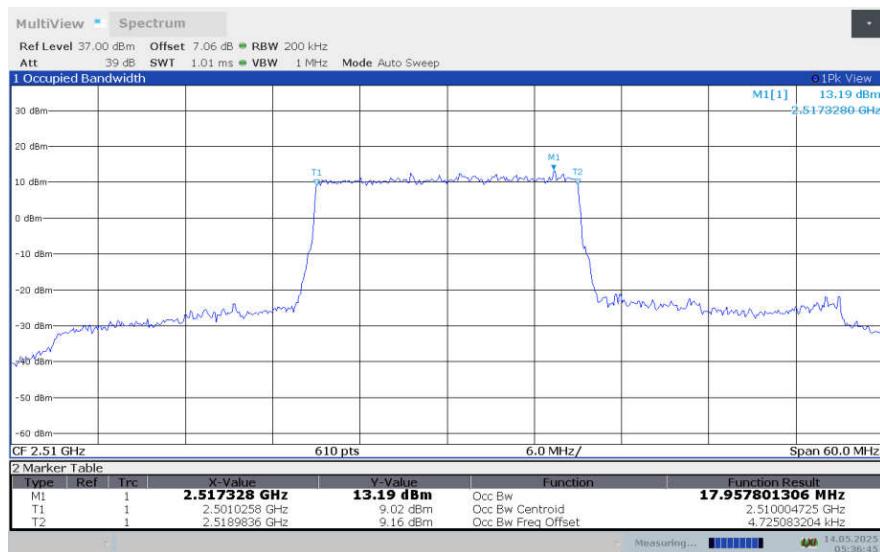
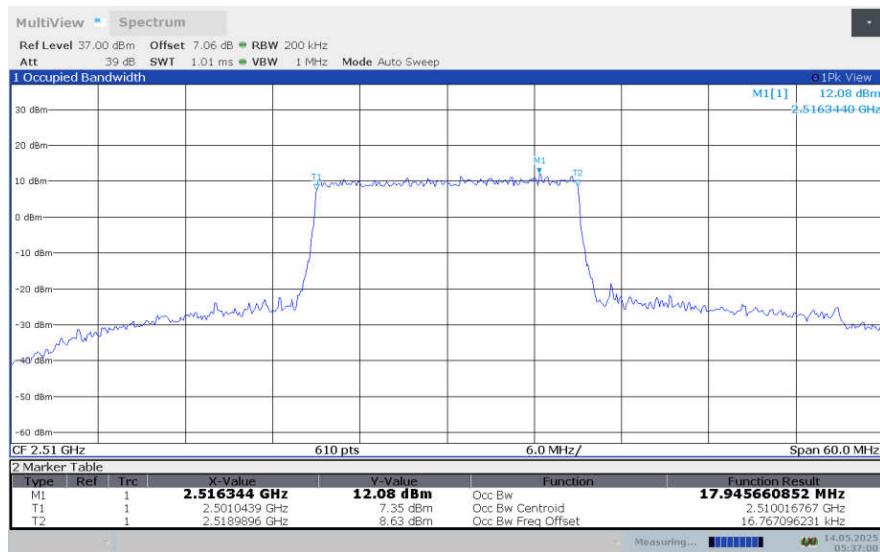


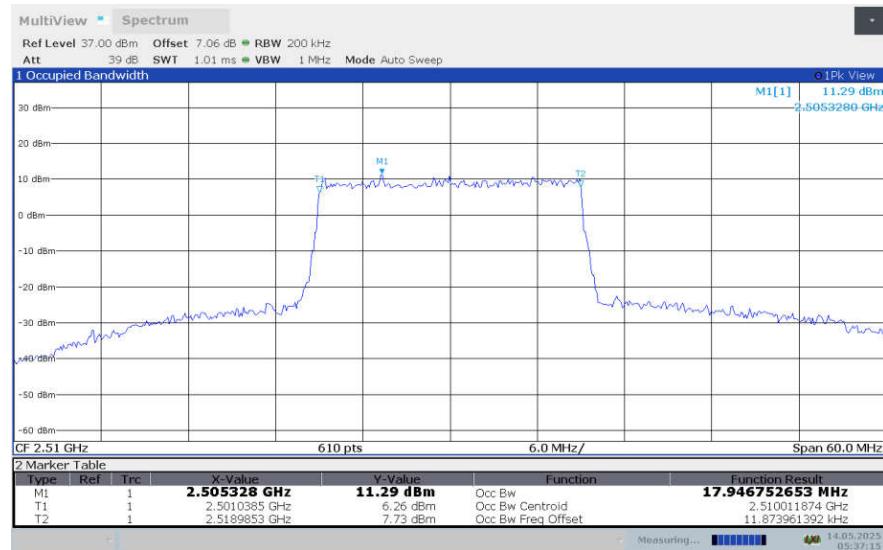
LTE band 7 , 15MHz Bandwidth,HIGH,256QAM (99% BW)



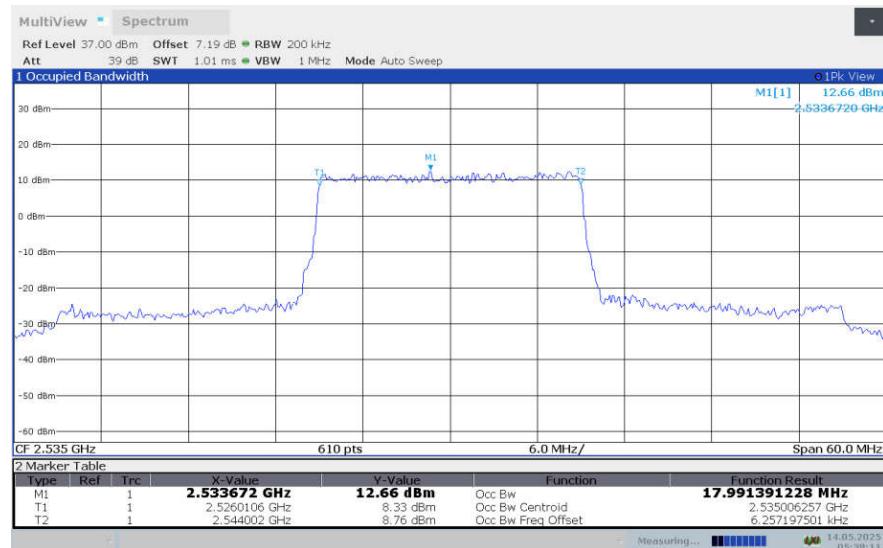
LTE band 7,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
2510	17.958	17.946	17.947	18.009
2535	17.991	17.983	17.958	17.969
2560	17.973	17.984	17.970	17.937

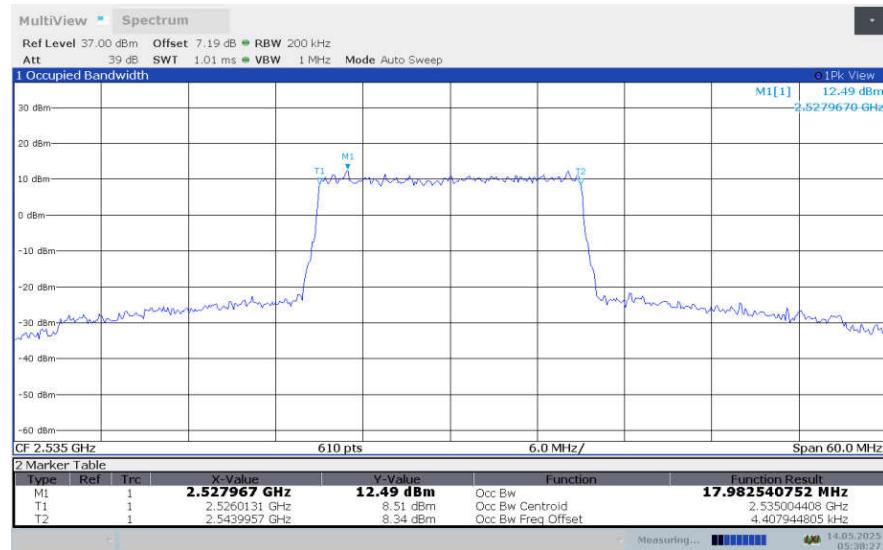
LTE band 7 , 20MHz Bandwidth,LOW,QPSK (99% BW)

LTE band 7 , 20MHz Bandwidth,LOW,16QAM (99% BW)

LTE band 7 , 20MHz Bandwidth,LOW,64QAM (99% BW)



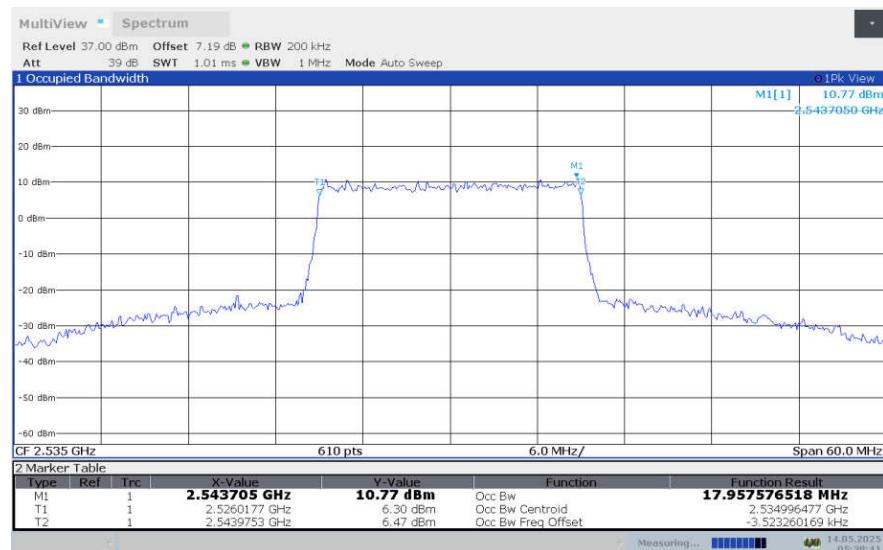
LTE band 7 , 20MHz Bandwidth,MID,QPSK (99% BW)



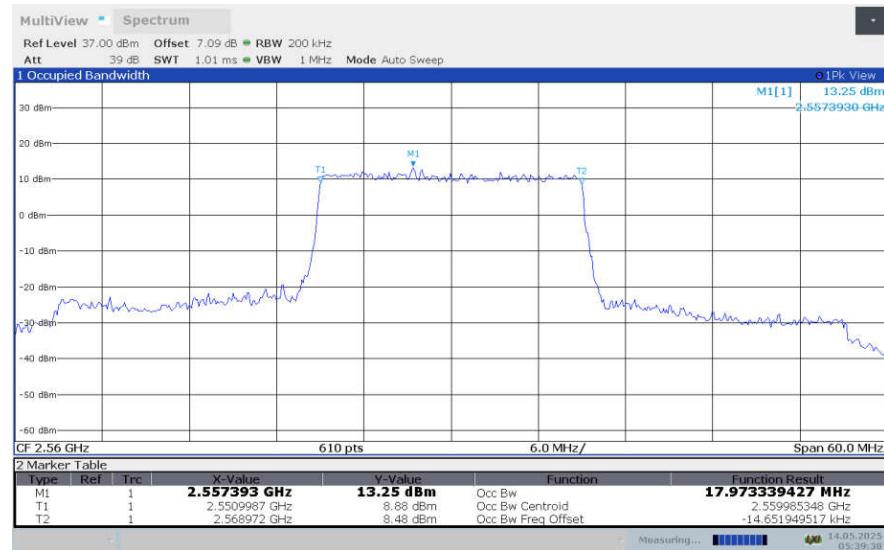
LTE band 7 , 20MHz Bandwidth,MID,16QAM (99% BW)



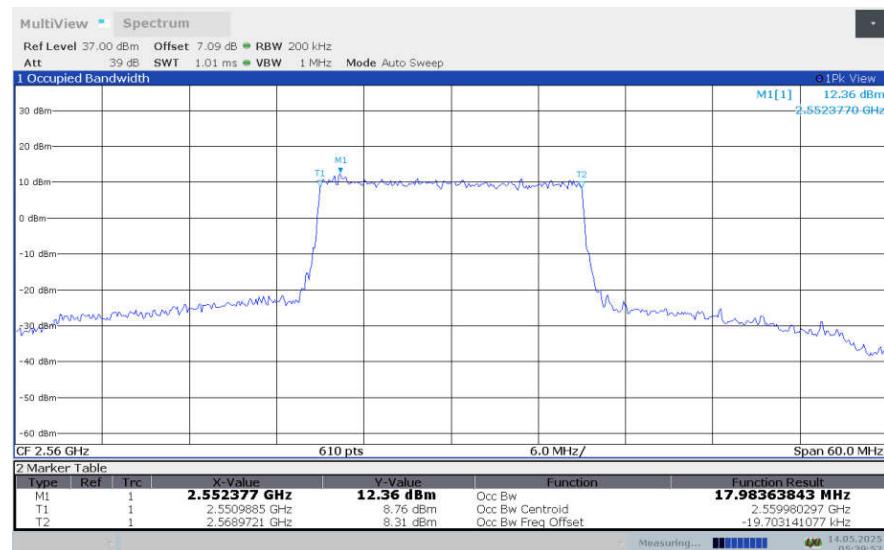
LTE band 7 , 20MHz Bandwidth,MID,64QAM (99% BW)



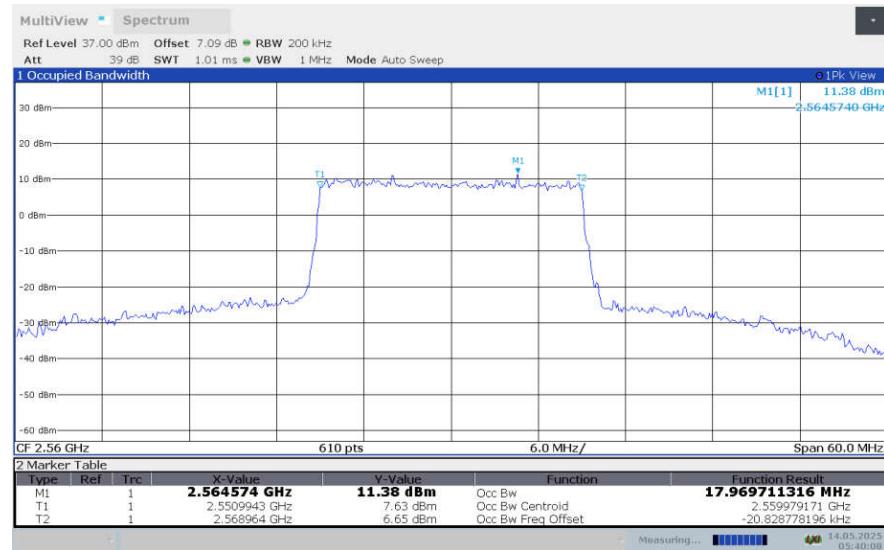
LTE band 7 , 20MHz Bandwidth,HIGH,QPSK (99% BW)



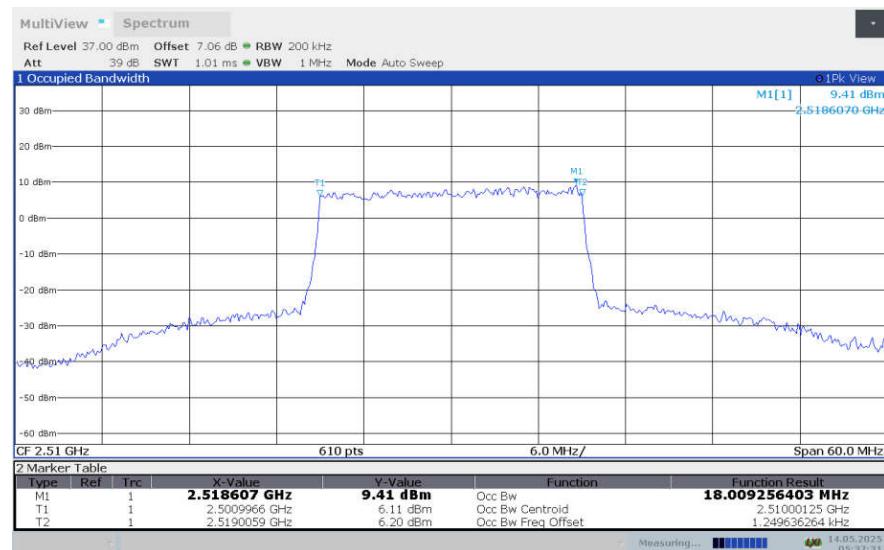
LTE band 7 , 20MHz Bandwidth,HIGH,16QAM (99% BW)



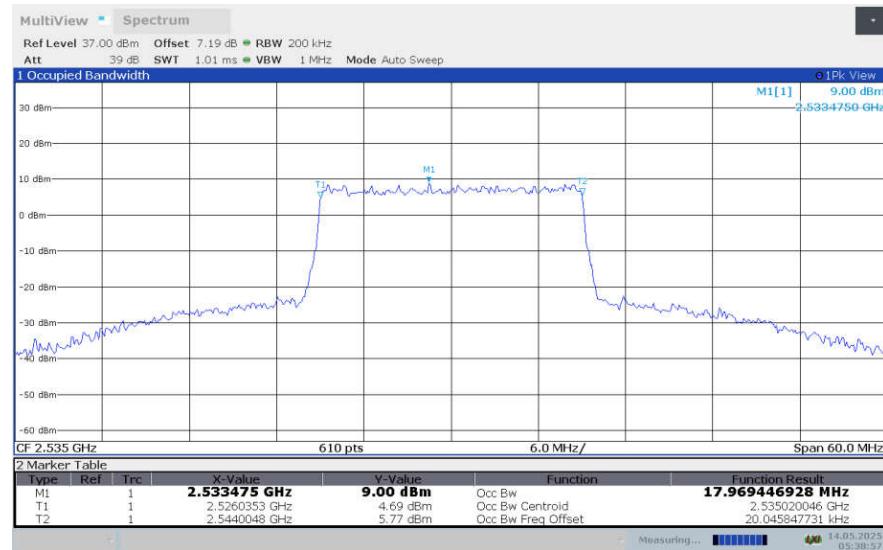
LTE band 7 , 20MHz Bandwidth,HIGH,64QAM (99% BW)



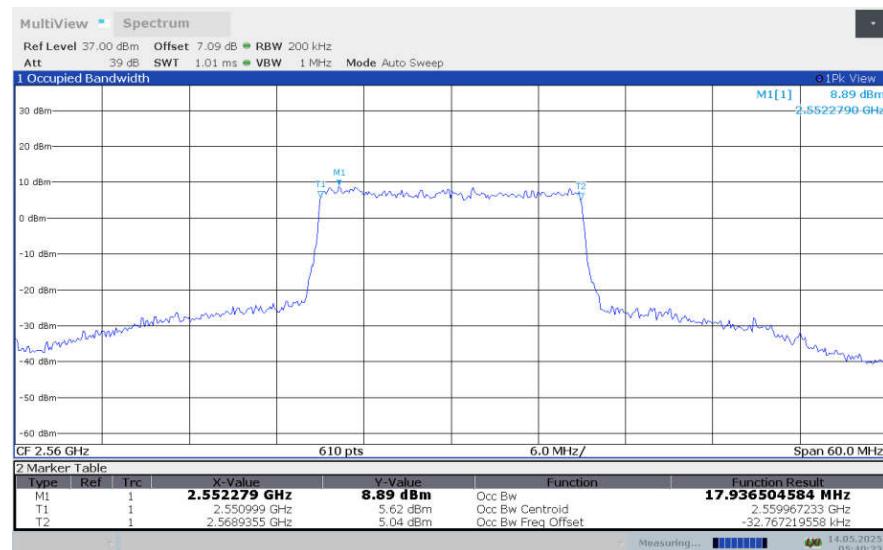
LTE band 7 , 20MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 7 , 20MHz Bandwidth,MID,256QAM (99% BW)

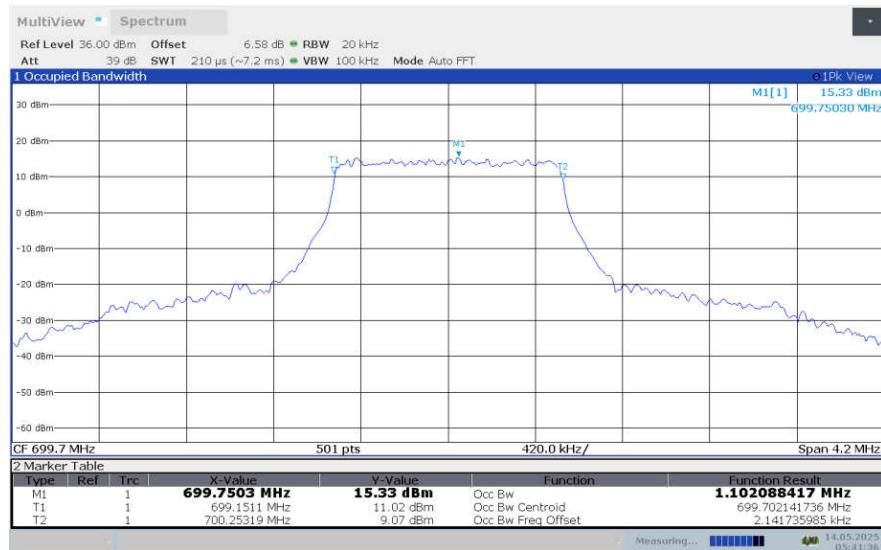
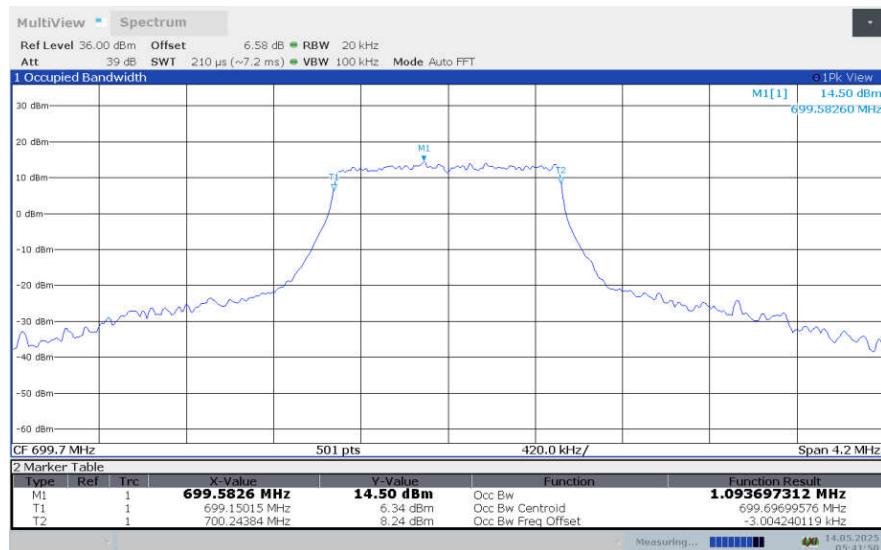


LTE band 7 , 20MHz Bandwidth,HIGH,256QAM (99% BW)



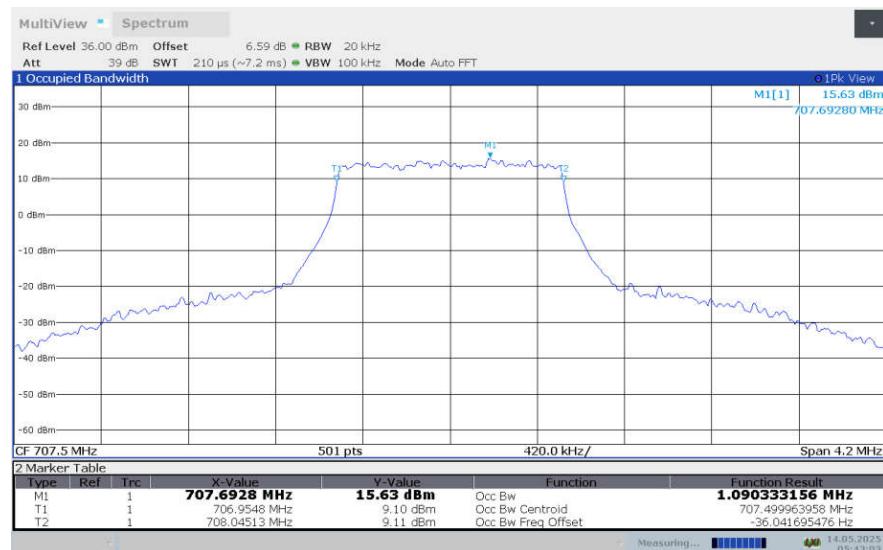
LTE band 12,1.4MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
699.7	1.102	1.094	1.094	1.096
707.5	1.090	1.097	1.096	1.087
715.3	1.098	1.096	1.100	1.088

LTE band 12 , 1.4MHz Bandwidth,LOW,QPSK (99% BW)

LTE band 12 , 1.4MHz Bandwidth,LOW,16QAM (99% BW)

LTE band 12 , 1.4MHz Bandwidth,LOW,64QAM (99% BW)



LTE band 12 , 1.4MHz Bandwidth,MID,QPSK (99% BW)



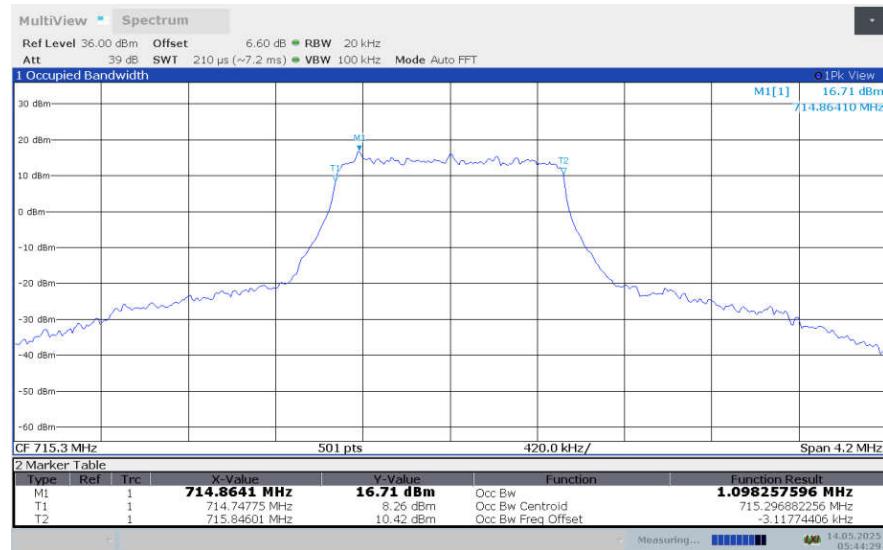
LTE band 12 , 1.4MHz Bandwidth,MID,16QAM (99% BW)



LTE band 12 , 1.4MHz Bandwidth,MID,64QAM (99% BW)



LTE band 12 , 1.4MHz Bandwidth,HIGH,QPSK (99% BW)



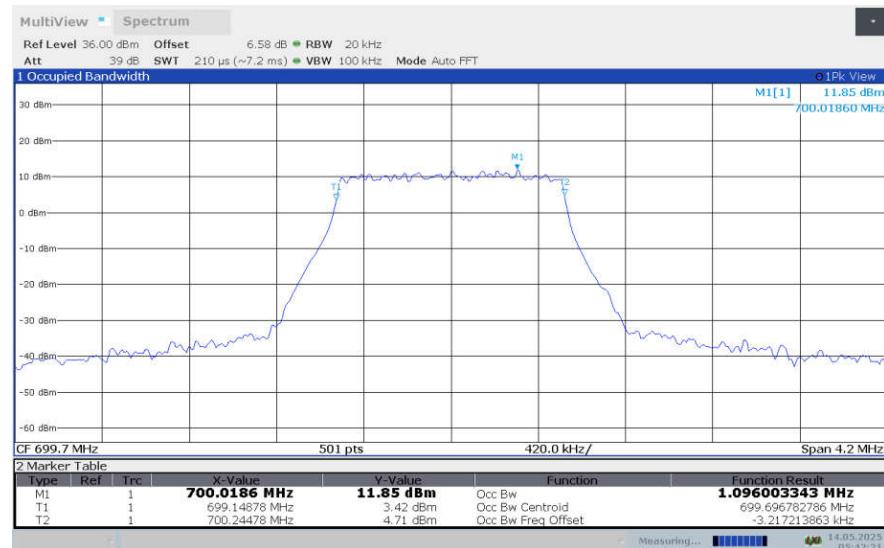
LTE band 12 , 1.4MHz Bandwidth,HIGH,16QAM (99% BW)



LTE band 12 , 1.4MHz Bandwidth,HIGH,64QAM (99% BW)



LTE band 12 , 1.4MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 12 , 1.4MHz Bandwidth,MID,256QAM (99% BW)