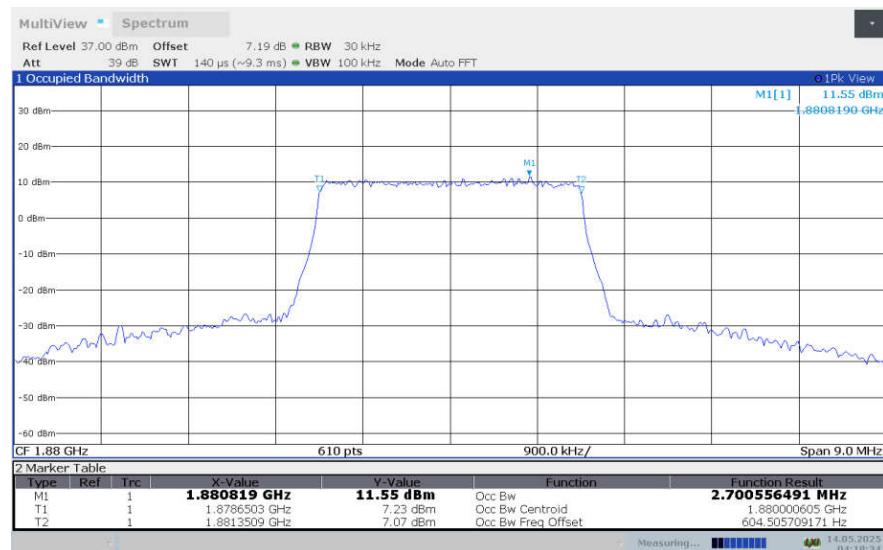
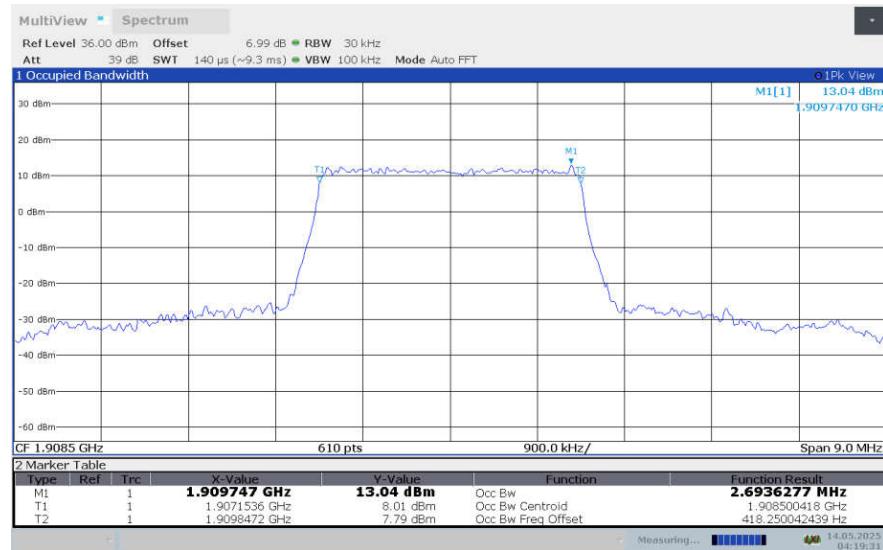


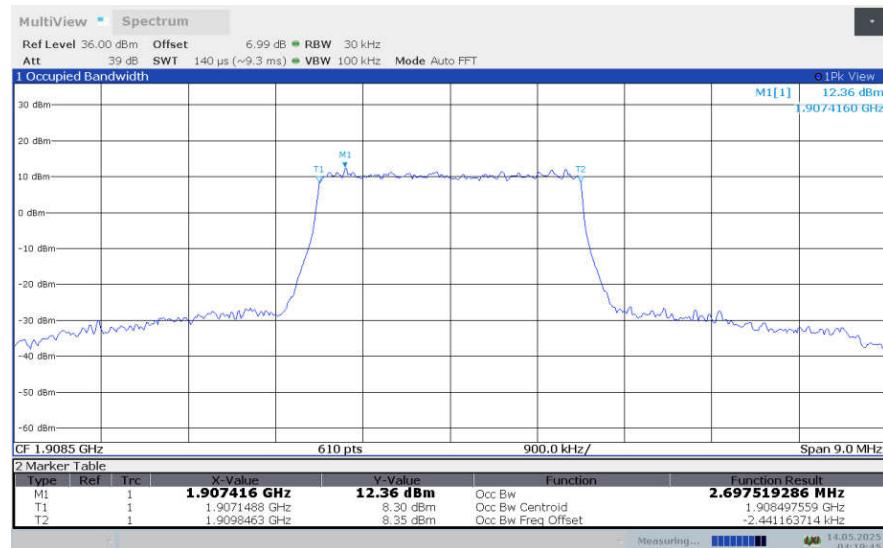
LTE band 2 , 3MHz Bandwidth,MID,64QAM (99% BW)



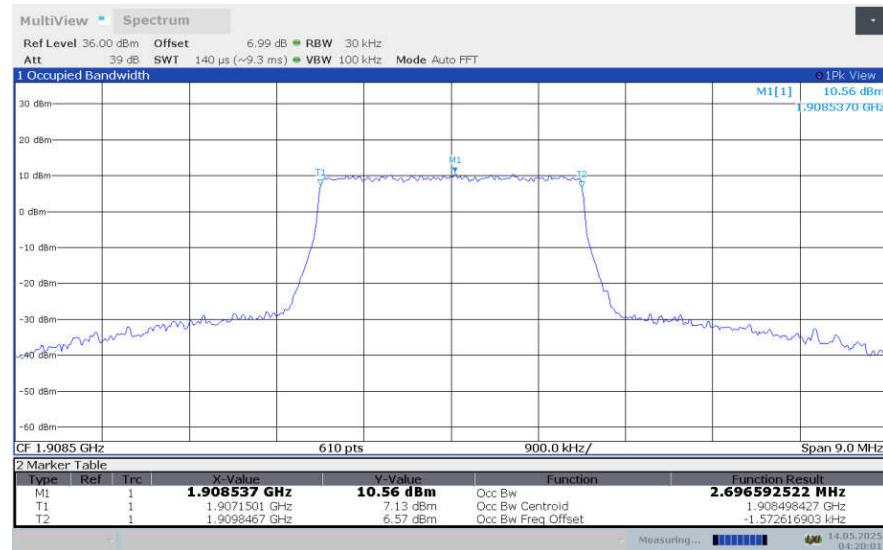
LTE band 2 , 3MHz Bandwidth,HIGH,QPSK (99% BW)



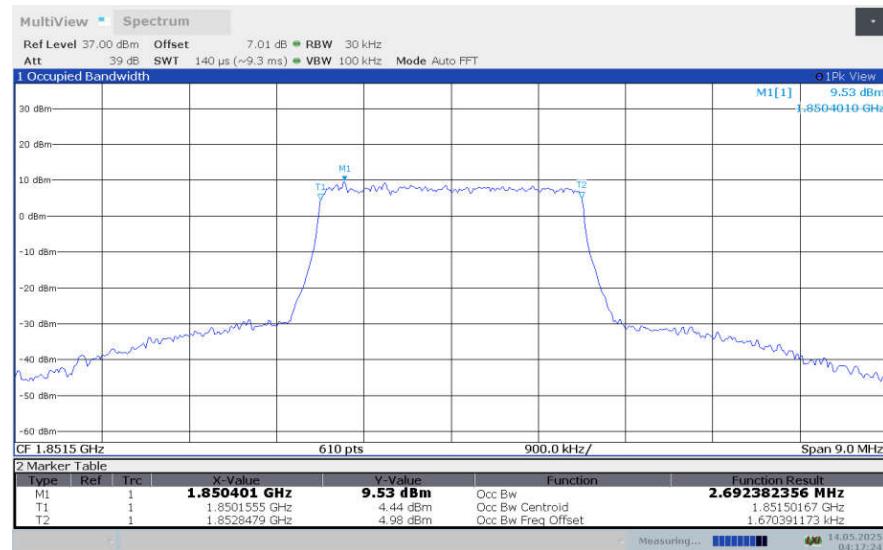
LTE band 2 , 3MHz Bandwidth,HIGH,16QAM (99% BW)



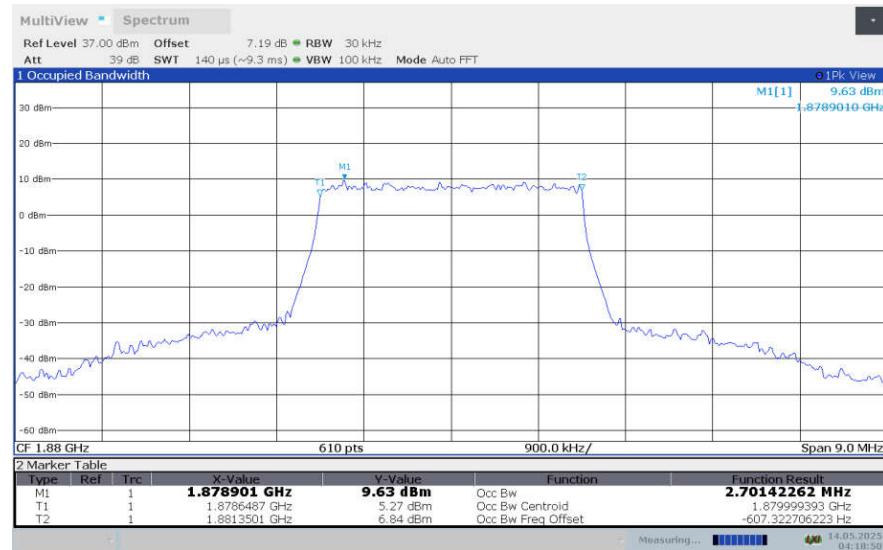
LTE band 2 , 3MHz Bandwidth,HIGH,64QAM (99% BW)



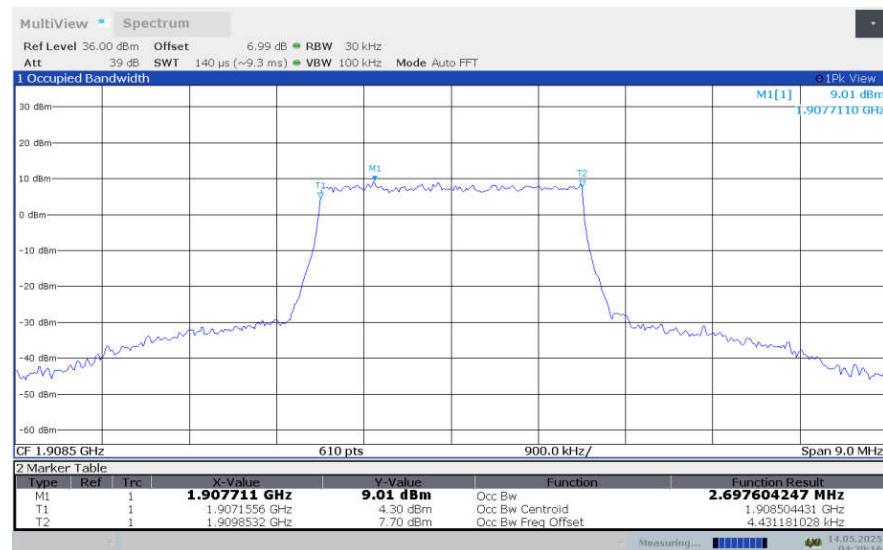
LTE band 2 , 3MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 2 , 3MHz Bandwidth,MID,256QAM (99% BW)

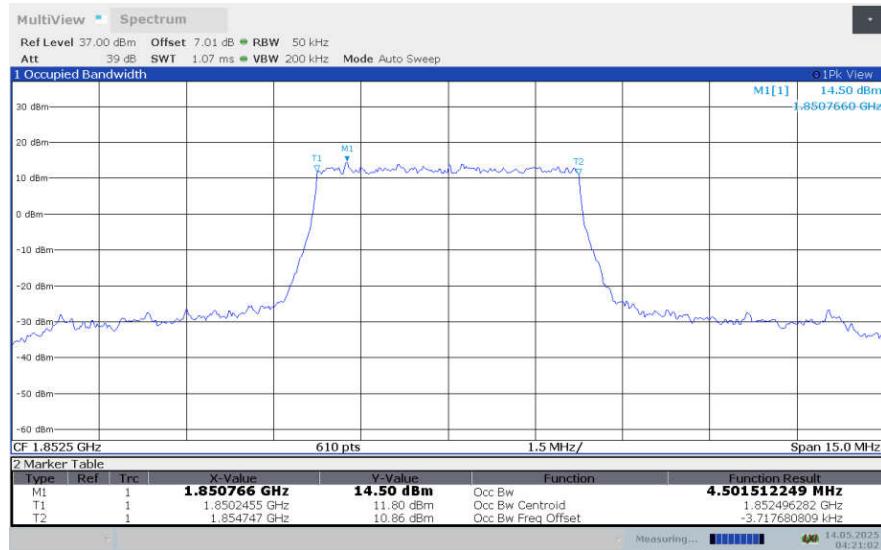
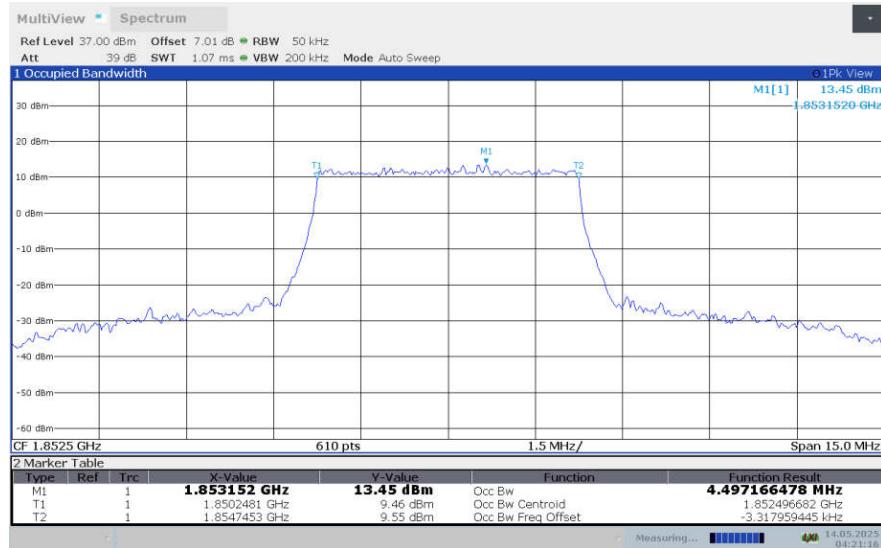


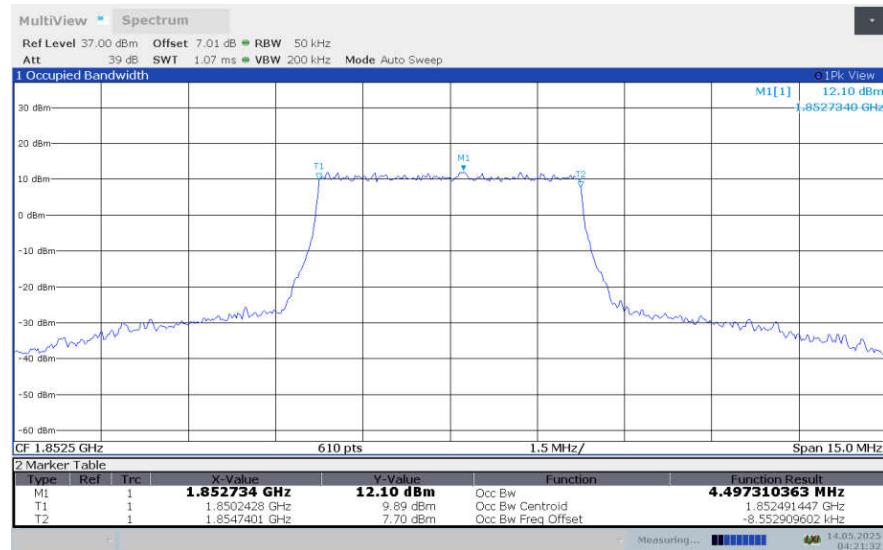
LTE band 2 , 3MHz Bandwidth,HIGH,256QAM (99% BW)



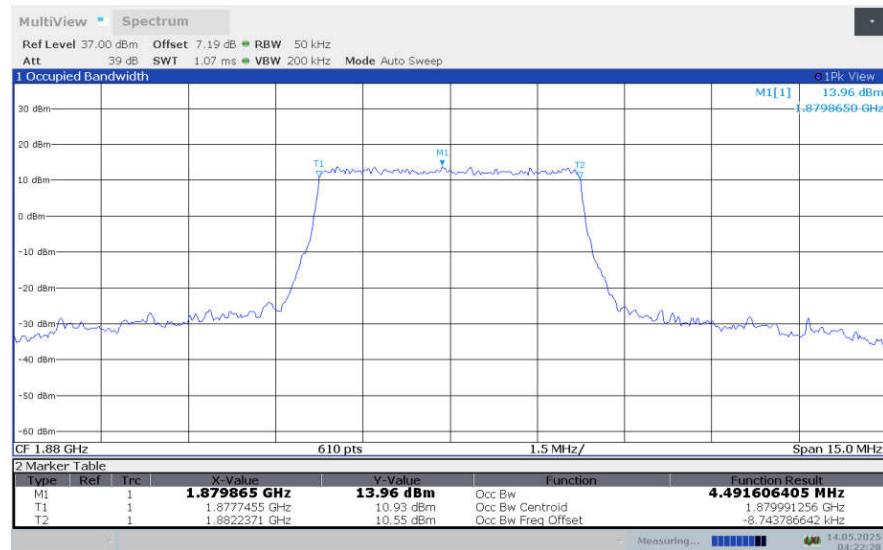
LTE band 2,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
1852.5	4.502	4.497	4.497	4.504
1880	4.492	4.503	4.500	4.499
1907.5	4.493	4.500	4.505	4.498

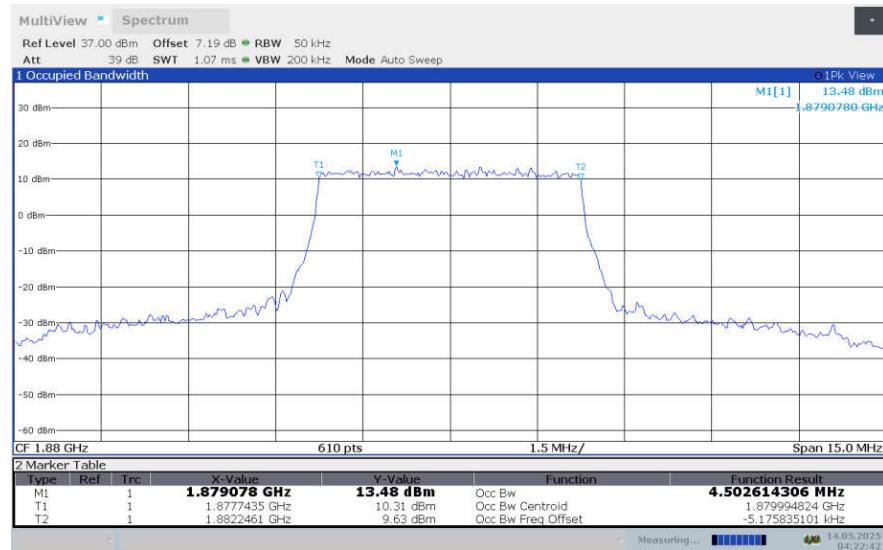
LTE band 2 , 5MHz Bandwidth,LOW,QPSK (99% BW)

LTE band 2 , 5MHz Bandwidth,LOW,16QAM (99% BW)

LTE band 2 , 5MHz Bandwidth,LOW,64QAM (99% BW)



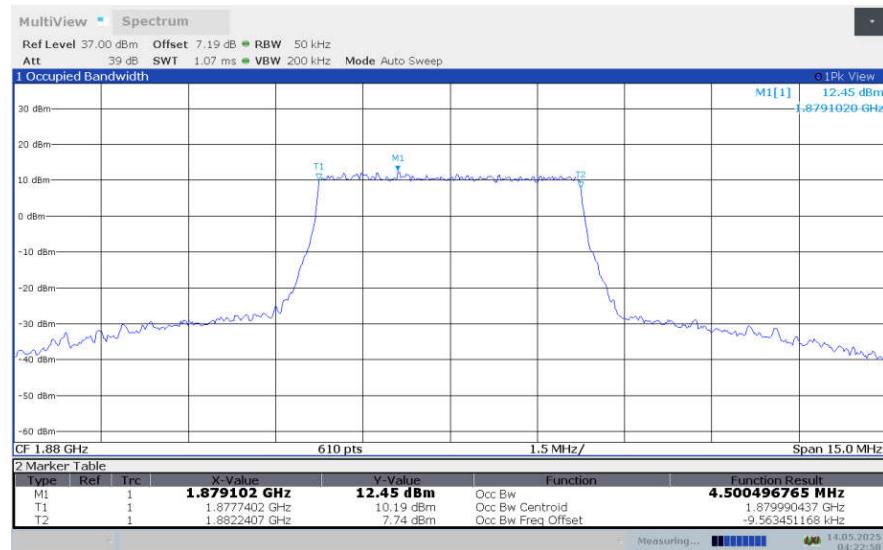
LTE band 2 , 5MHz Bandwidth,MID,QPSK (99% BW)



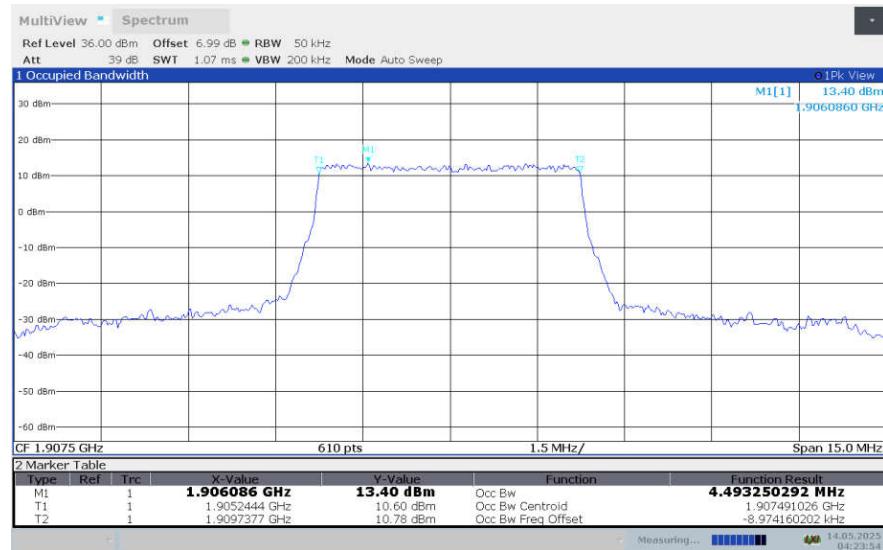
LTE band 2 , 5MHz Bandwidth,MID,16QAM (99% BW)



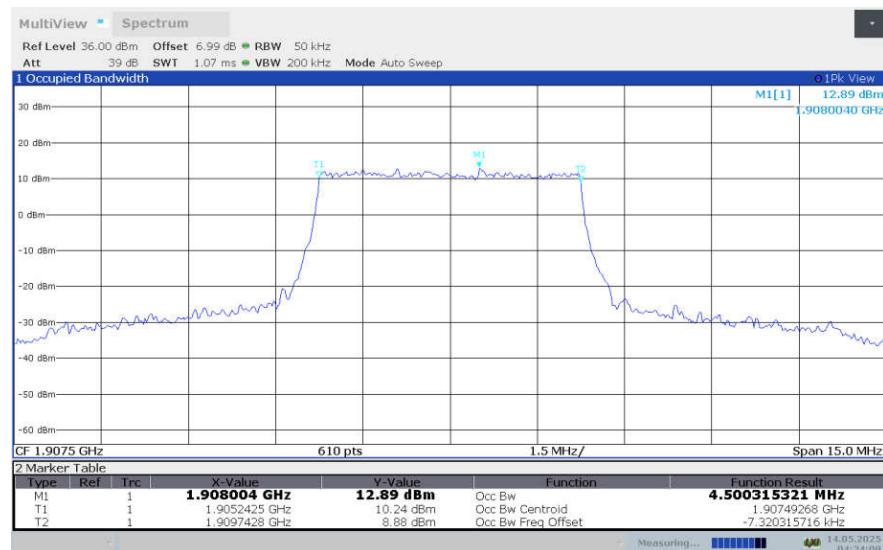
LTE band 2 , 5MHz Bandwidth,MID,64QAM (99% BW)



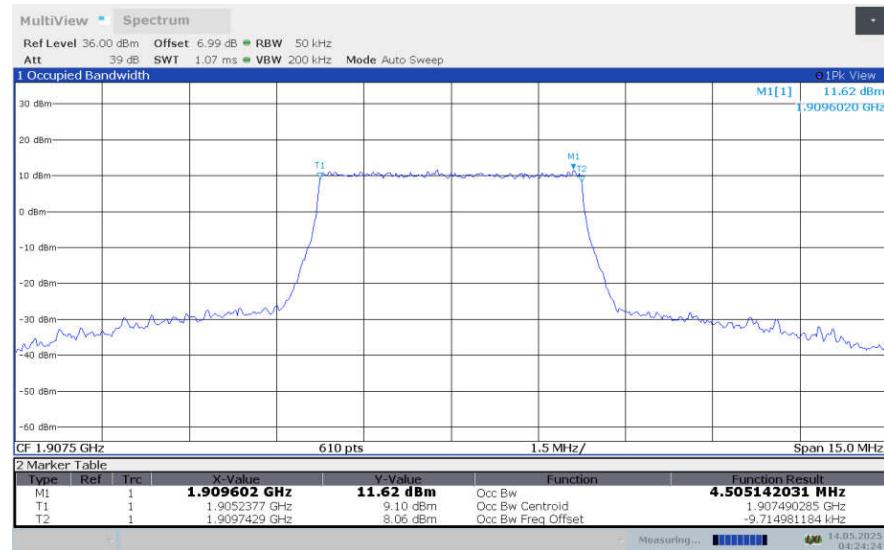
LTE band 2 , 5MHz Bandwidth,HIGH,QPSK (99% BW)



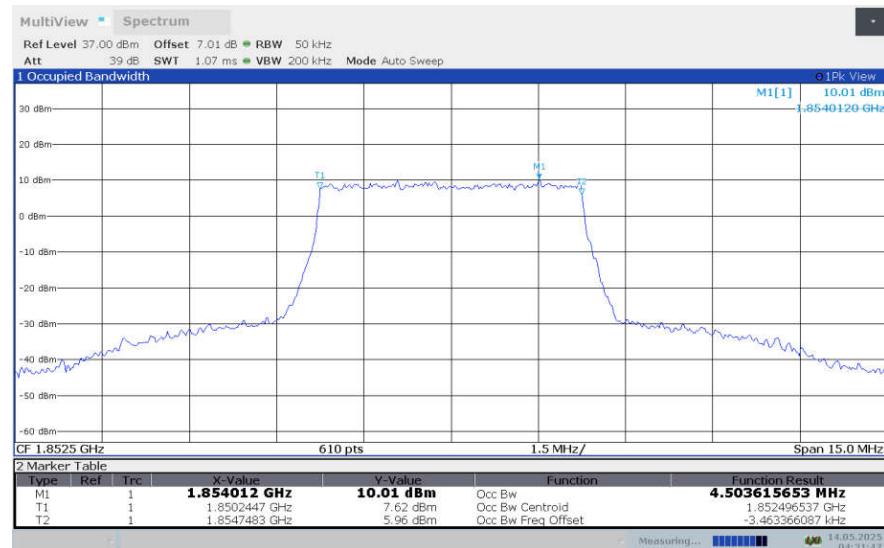
LTE band 2 , 5MHz Bandwidth,HIGH,16QAM (99% BW)



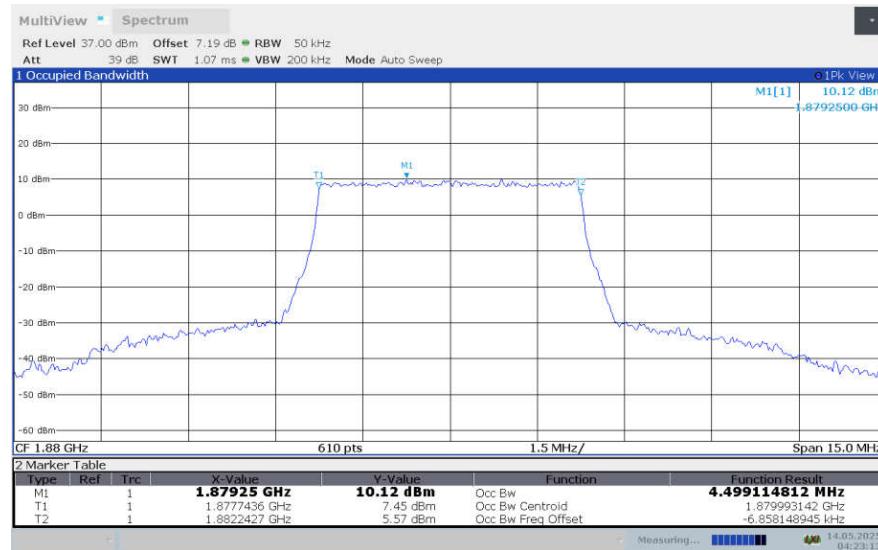
LTE band 2 , 5MHz Bandwidth,HIGH,64QAM (99% BW)



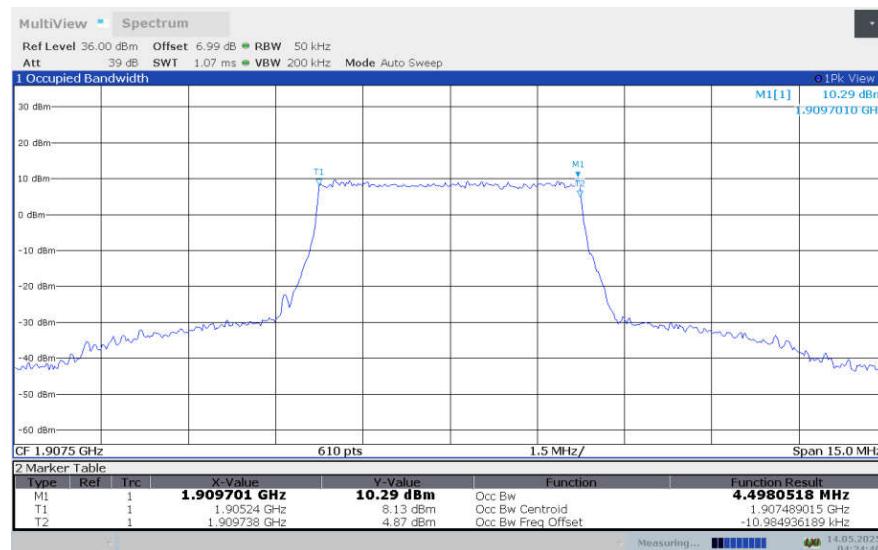
LTE band 2 , 5MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 2 , 5MHz Bandwidth,MID,256QAM (99% BW)

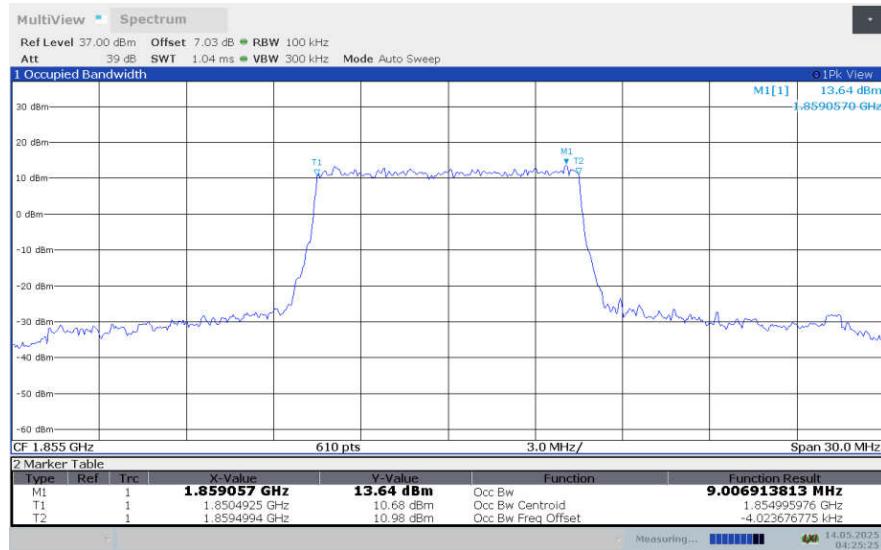
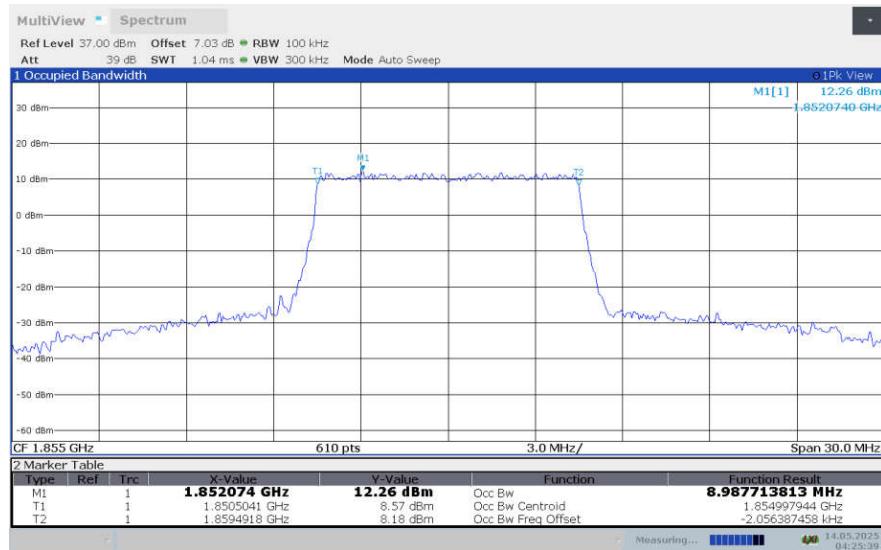


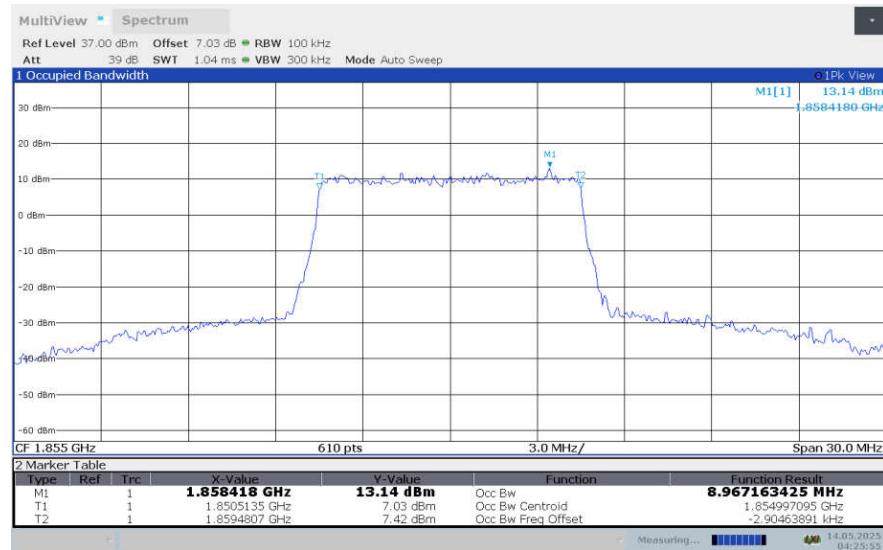
LTE band 2 , 5MHz Bandwidth,HIGH,256QAM (99% BW)



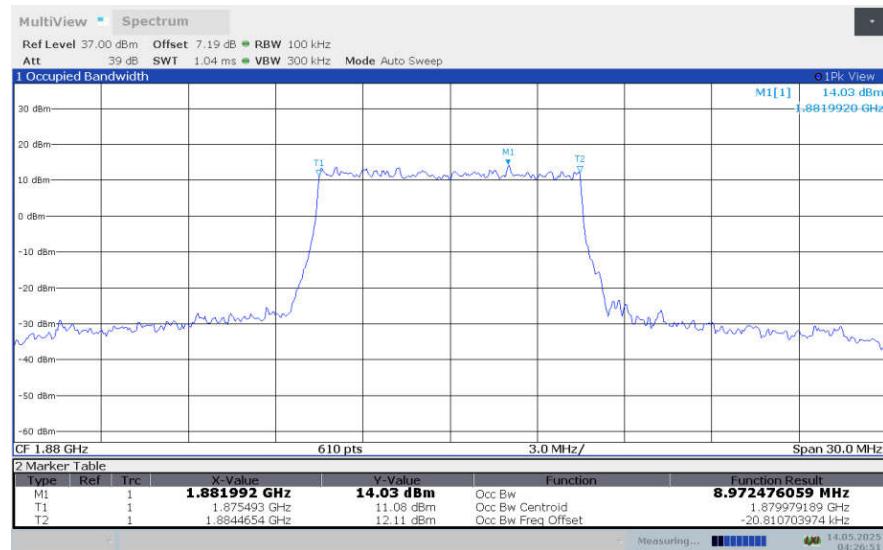
LTE band 2,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
1855	9.007	8.988	8.967	9.000
1880	8.972	8.980	8.976	8.981
1905	8.988	8.979	8.992	9.002

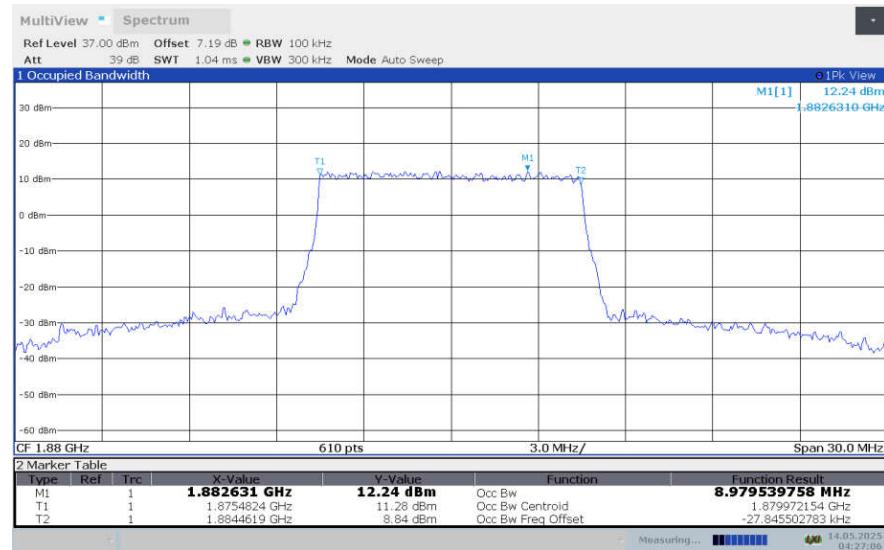
LTE band 2 , 10MHz Bandwidth,LOW,QPSK (99% BW)

LTE band 2 , 10MHz Bandwidth,LOW,16QAM (99% BW)

LTE band 2 , 10MHz Bandwidth,LOW,64QAM (99% BW)



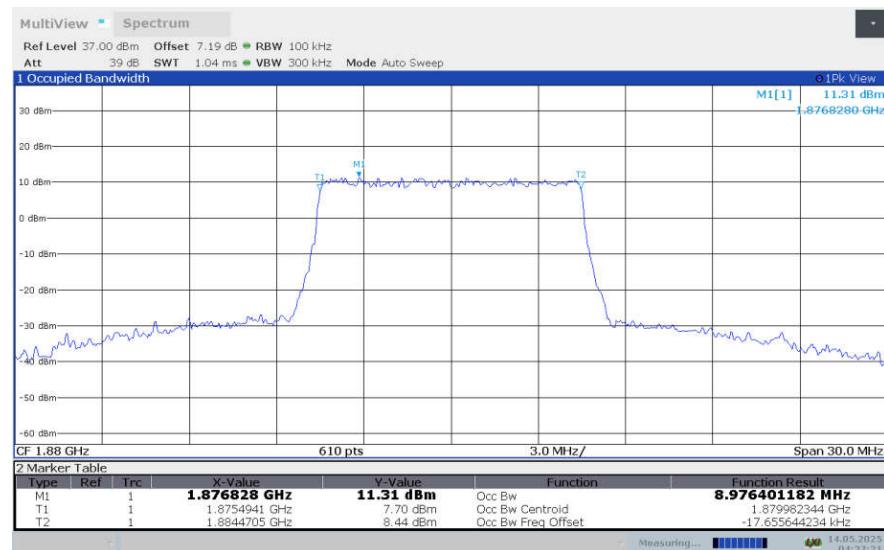
LTE band 2 , 10MHz Bandwidth,MID,QPSK (99% BW)



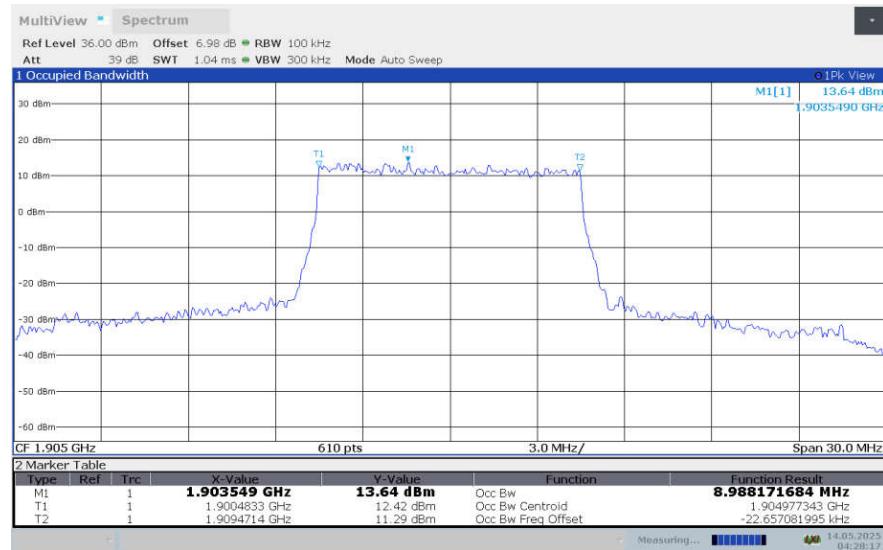
LTE band 2 , 10MHz Bandwidth,MID,16QAM (99% BW)



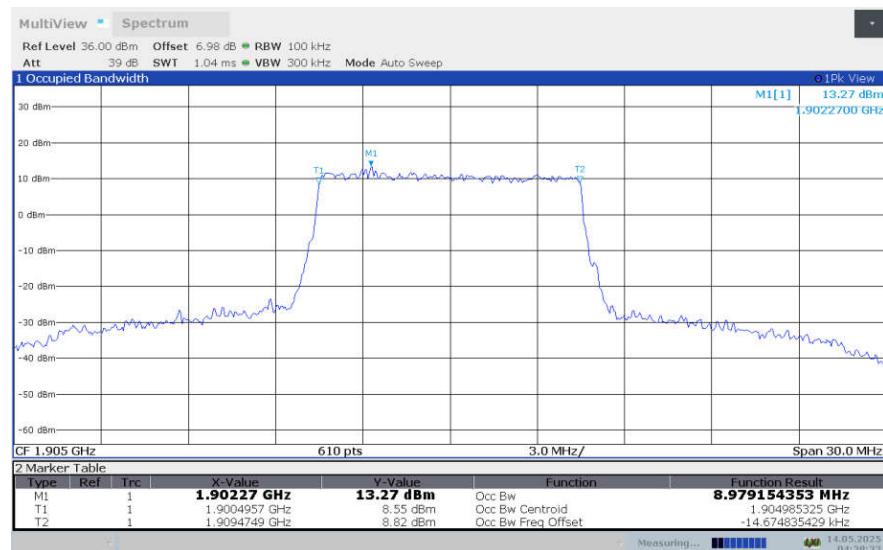
LTE band 2 , 10MHz Bandwidth,MID,64QAM (99% BW)



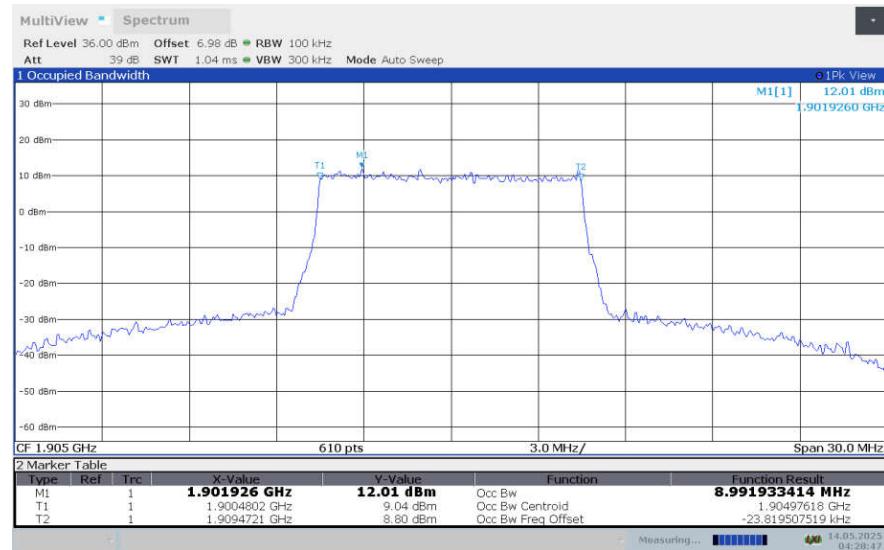
LTE band 2 , 10MHz Bandwidth,HIGH,QPSK (99% BW)



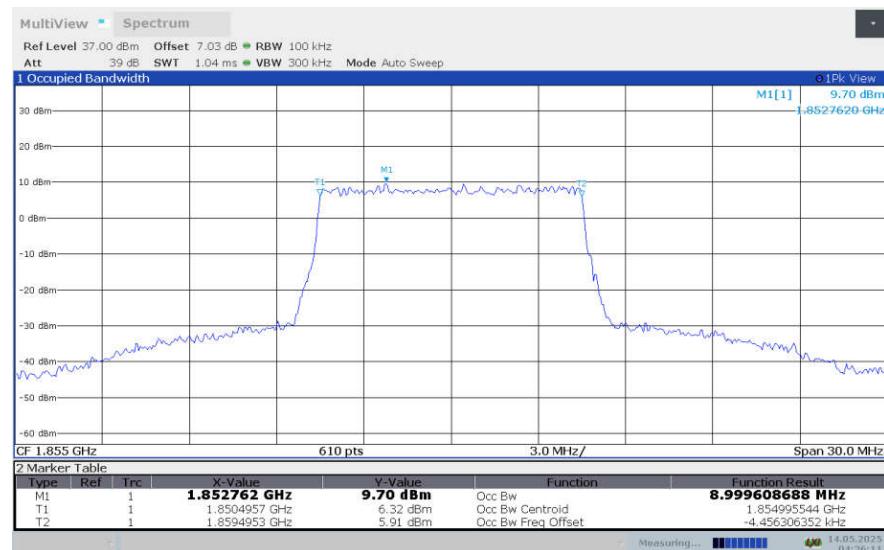
LTE band 2 , 10MHz Bandwidth,HIGH,16QAM (99% BW)



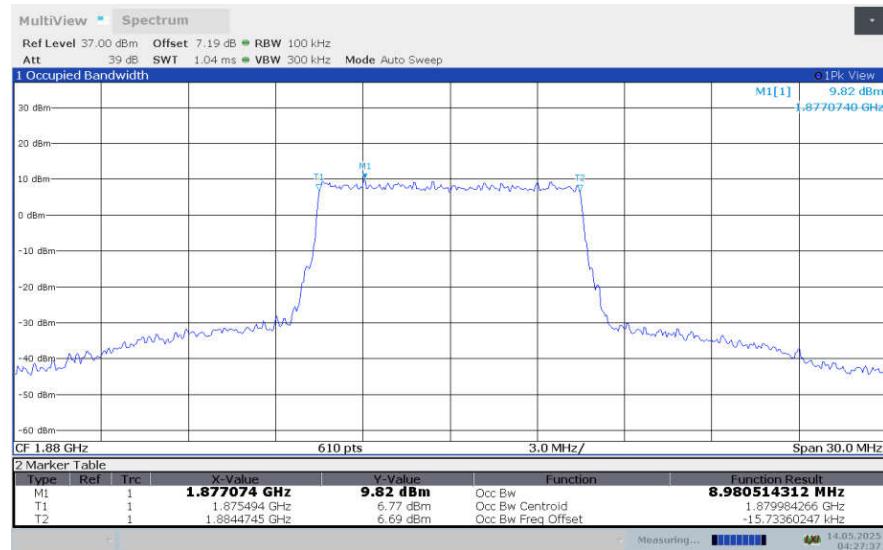
LTE band 2 , 10MHz Bandwidth,HIGH,64QAM (99% BW)



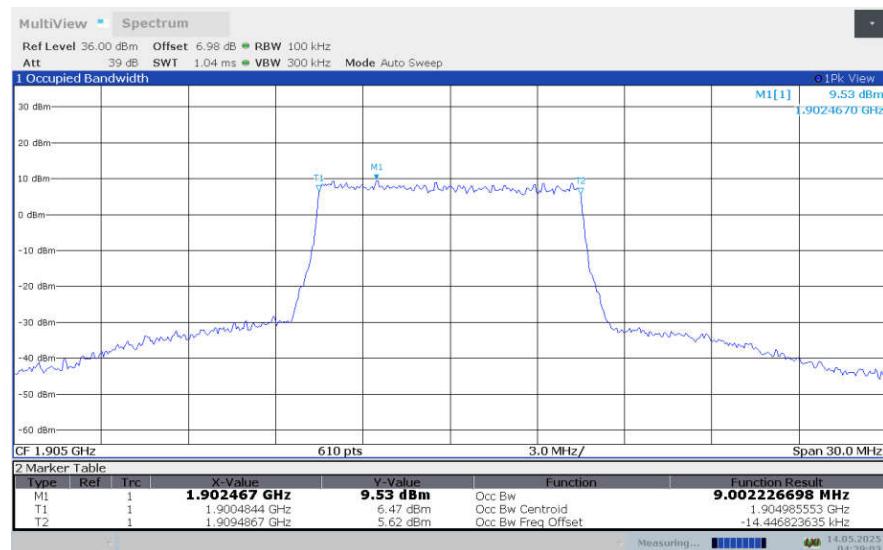
LTE band 2 , 10MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 2 , 10MHz Bandwidth,MID,256QAM (99% BW)

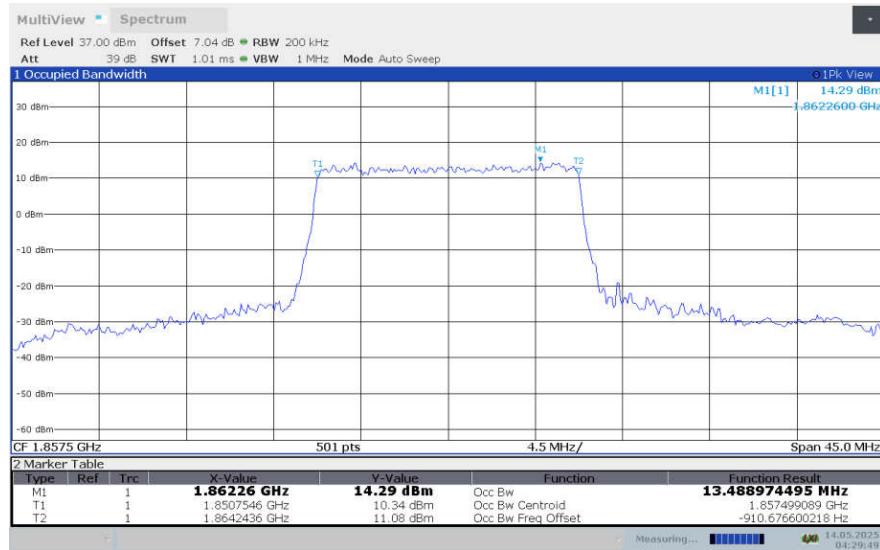
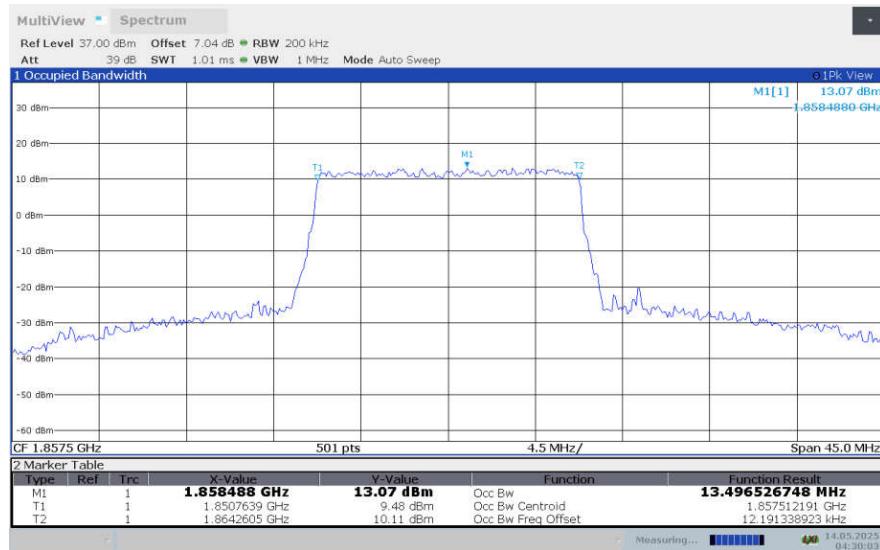


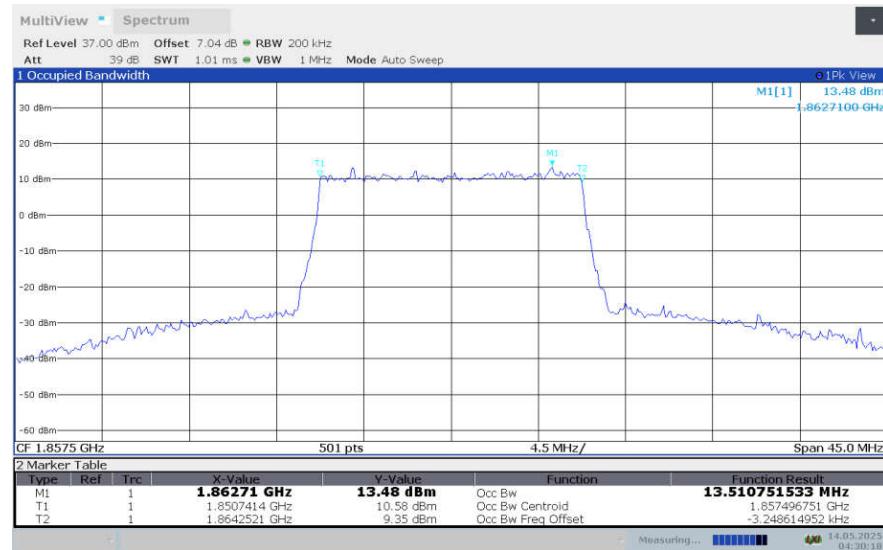
LTE band 2 , 10MHz Bandwidth,HIGH,256QAM (99% BW)



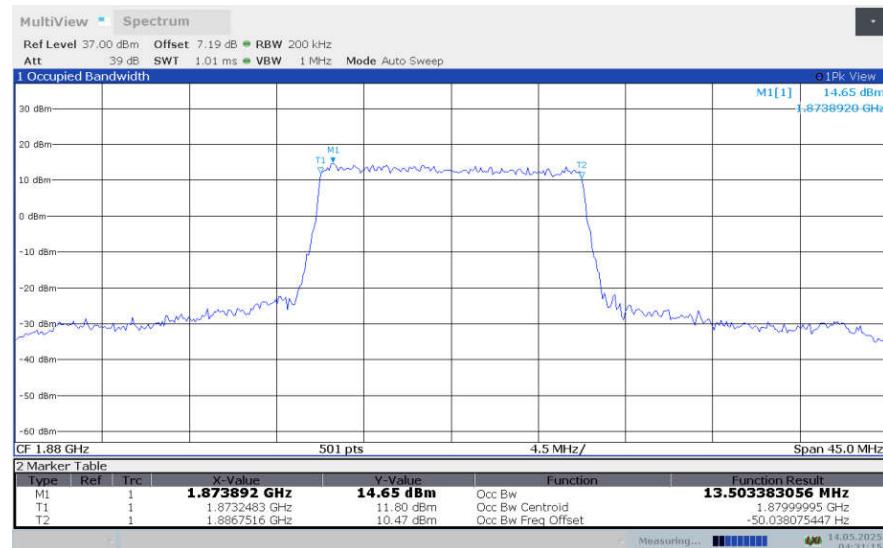
LTE band 2,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
1857.5	13.489	13.497	13.511	13.474
1880	13.503	13.493	13.462	13.522
1902.5	13.481	13.530	13.503	13.492

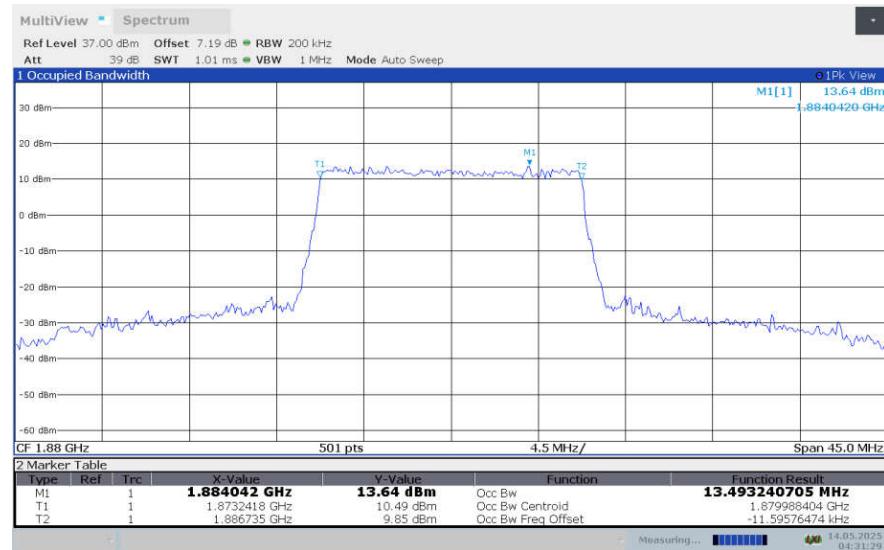
LTE band 2 , 15MHz Bandwidth,LOW,QPSK (99% BW)

LTE band 2 , 15MHz Bandwidth,LOW,16QAM (99% BW)

LTE band 2 , 15MHz Bandwidth,LOW,64QAM (99% BW)



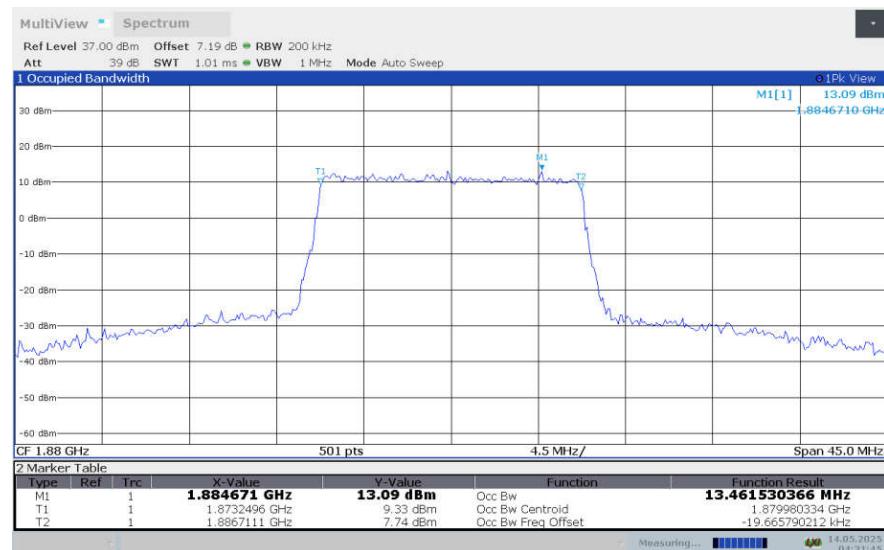
LTE band 2 , 15MHz Bandwidth,MID,QPSK (99% BW)



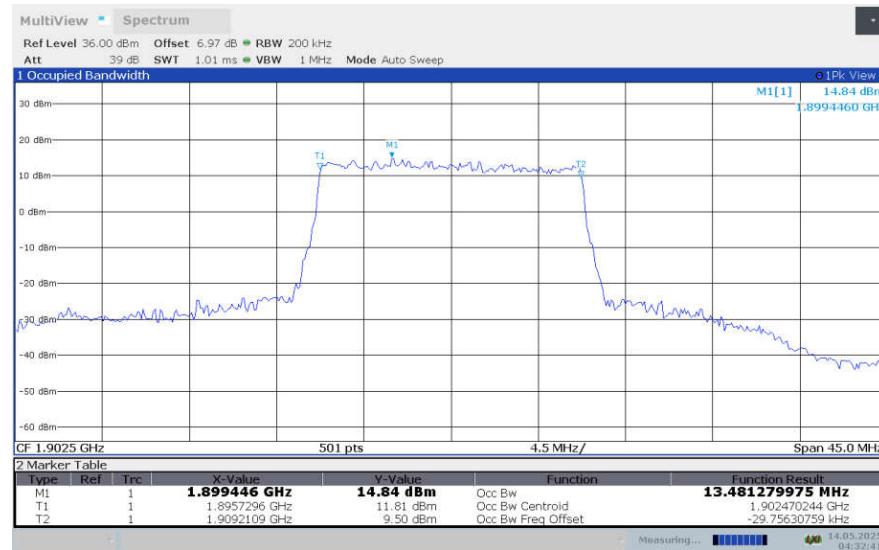
LTE band 2 , 15MHz Bandwidth,MID,16QAM (99% BW)



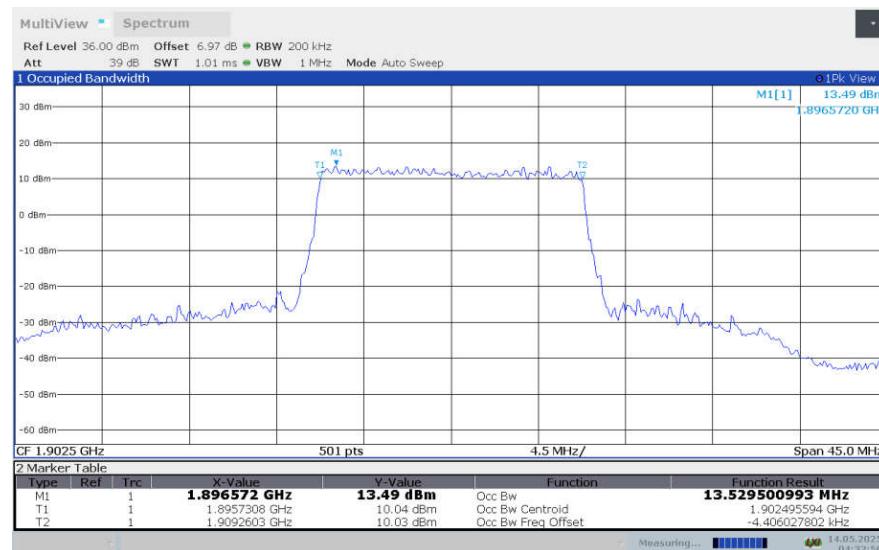
LTE band 2 , 15MHz Bandwidth,MID,64QAM (99% BW)



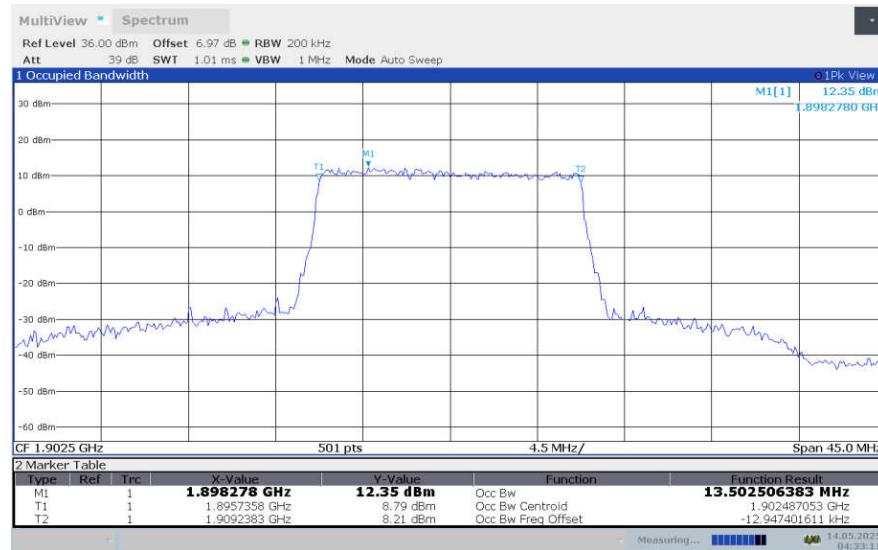
LTE band 2 , 15MHz Bandwidth,HIGH,QPSK (99% BW)



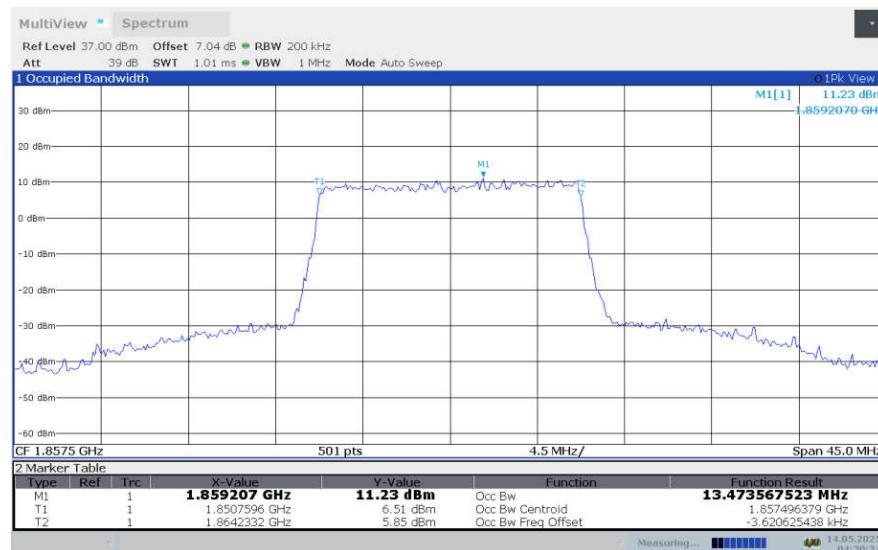
LTE band 2 , 15MHz Bandwidth,HIGH,16QAM (99% BW)



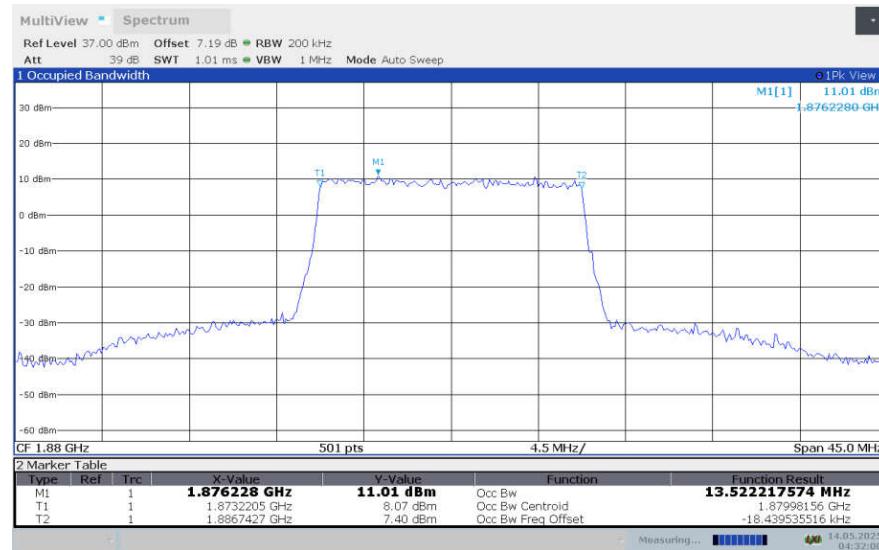
LTE band 2 , 15MHz Bandwidth,HIGH,64QAM (99% BW)



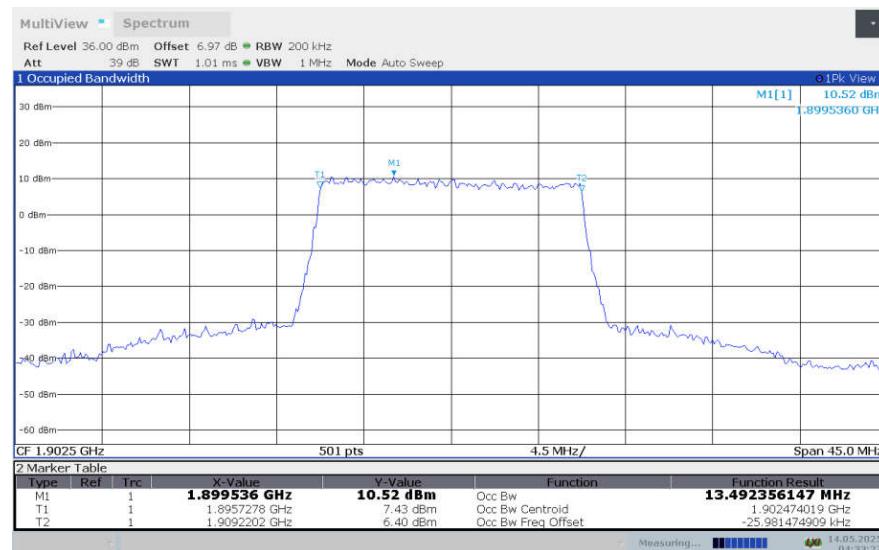
LTE band 2 , 15MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 2 , 15MHz Bandwidth,MID,256QAM (99% BW)

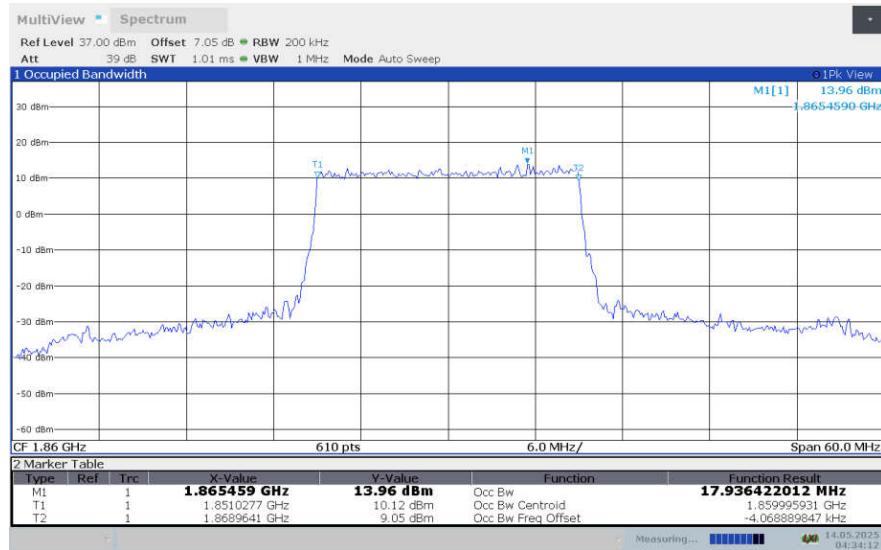
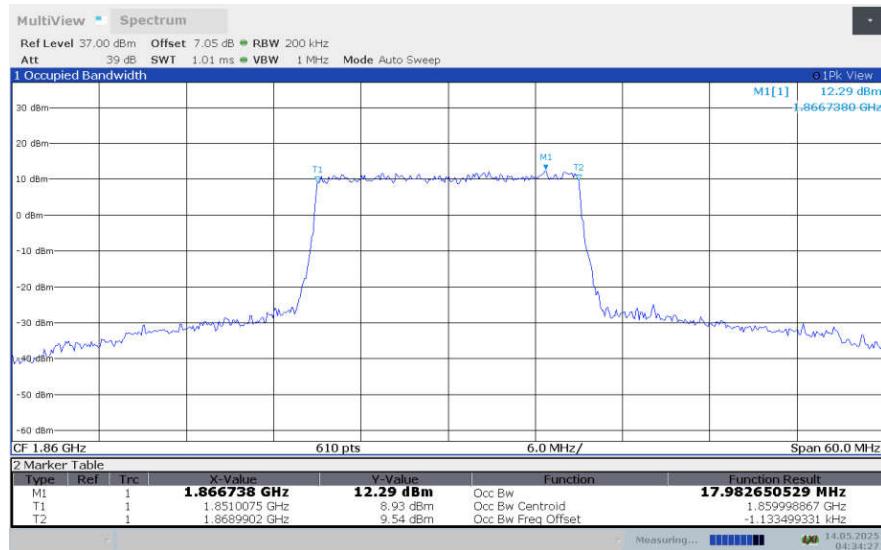


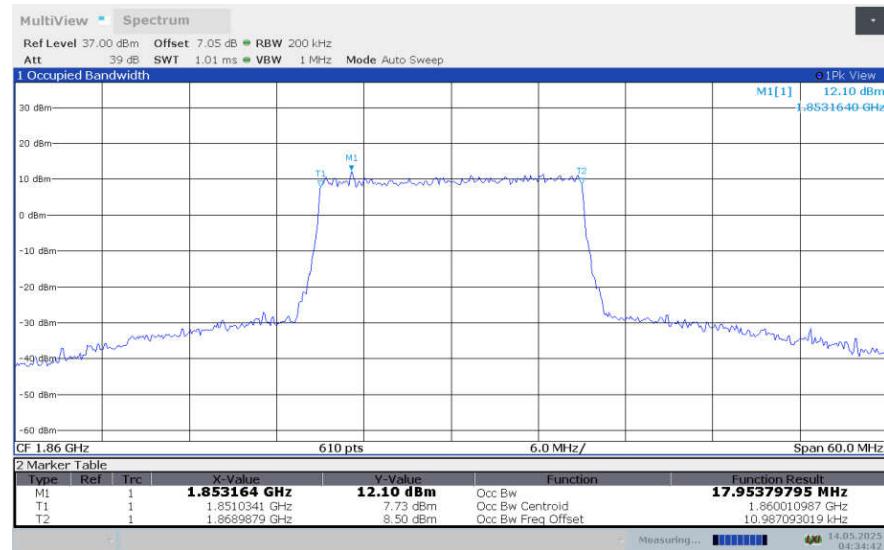
LTE band 2 , 15MHz Bandwidth,HIGH,256QAM (99% BW)



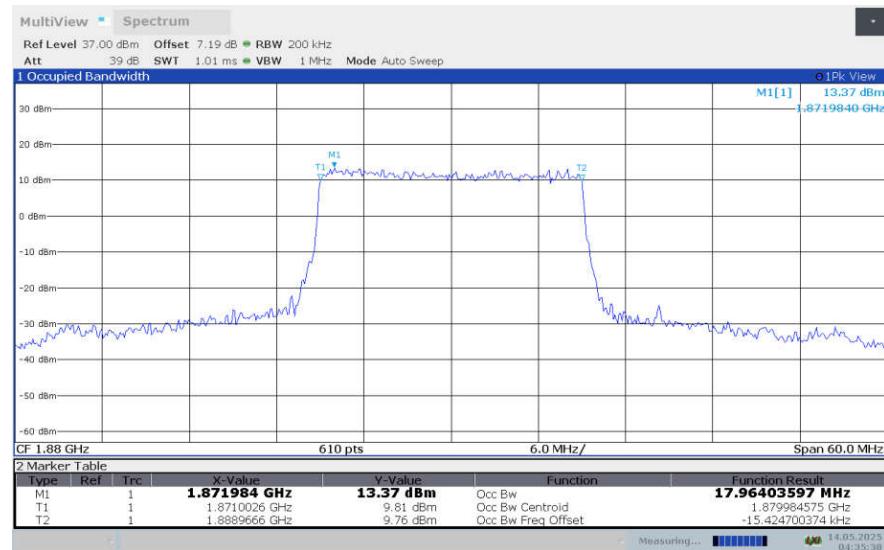
LTE band 2,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
1860	17.936	17.983	17.954	17.931
1880	17.964	17.932	17.940	17.969
1900	17.918	17.893	17.907	17.930

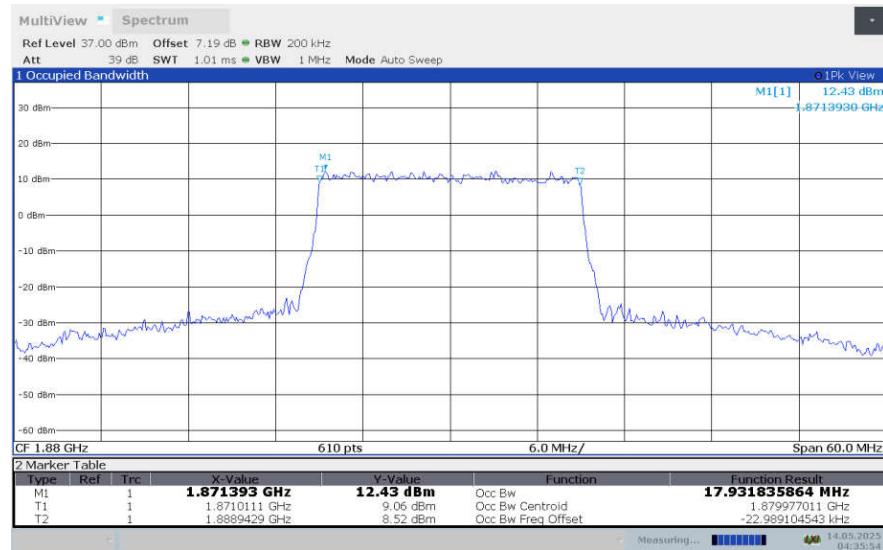
LTE band 2 , 20MHz Bandwidth,LOW,QPSK (99% BW)

LTE band 2 , 20MHz Bandwidth,LOW,16QAM (99% BW)

LTE band 2 , 20MHz Bandwidth,LOW,64QAM (99% BW)



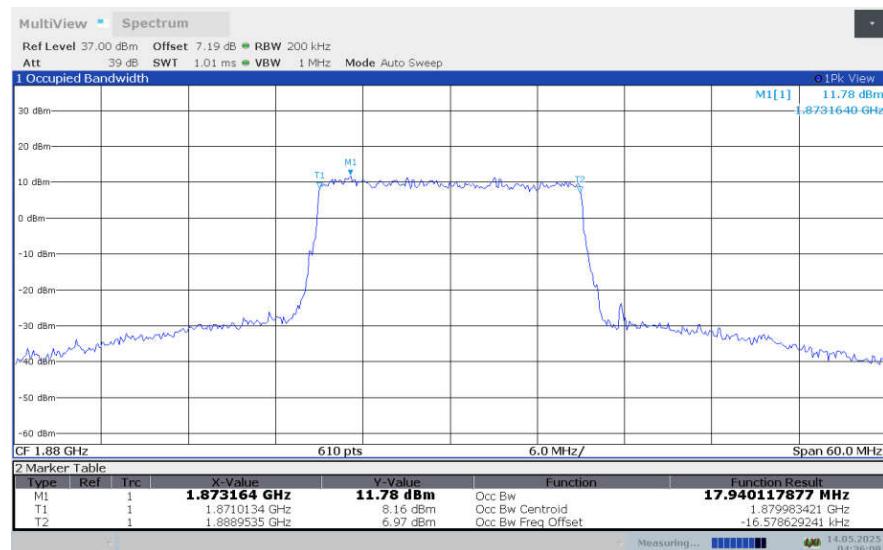
LTE band 2 , 20MHz Bandwidth,MID,QPSK (99% BW)



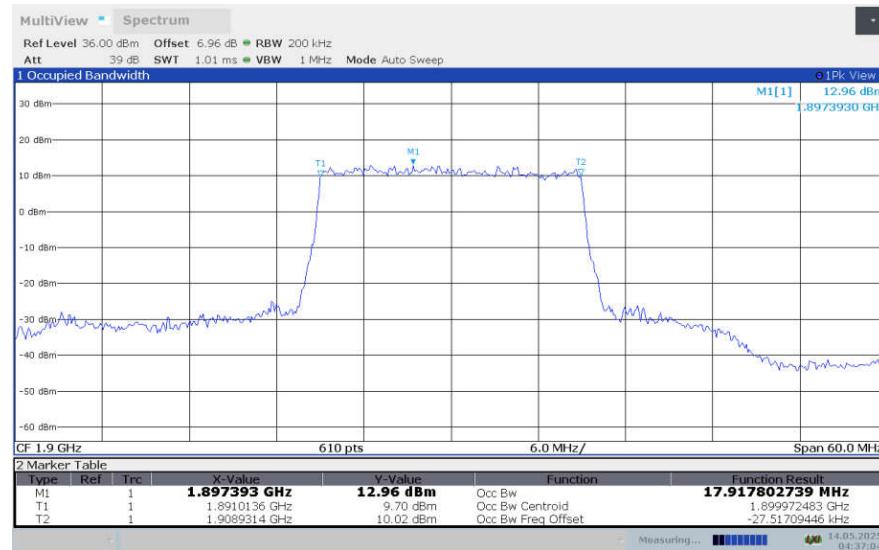
LTE band 2 , 20MHz Bandwidth,MID,16QAM (99% BW)



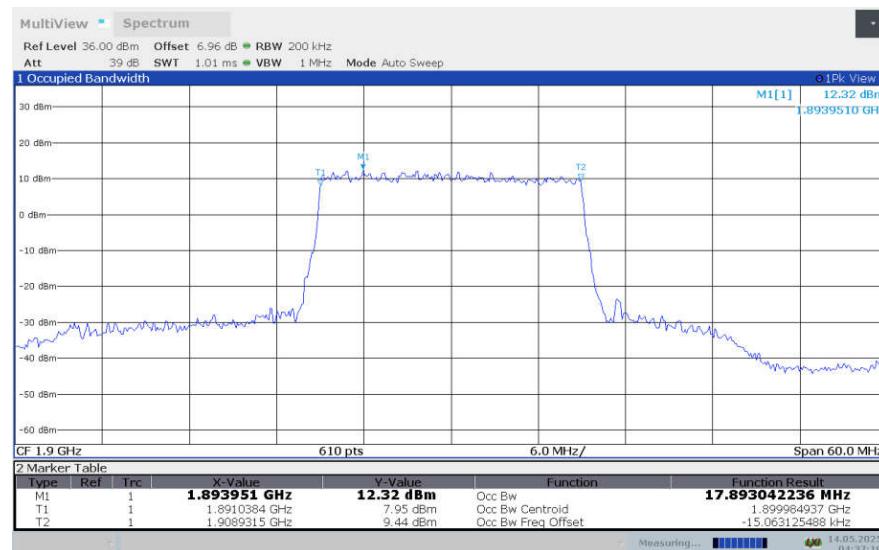
LTE band 2 , 20MHz Bandwidth,MID,64QAM (99% BW)



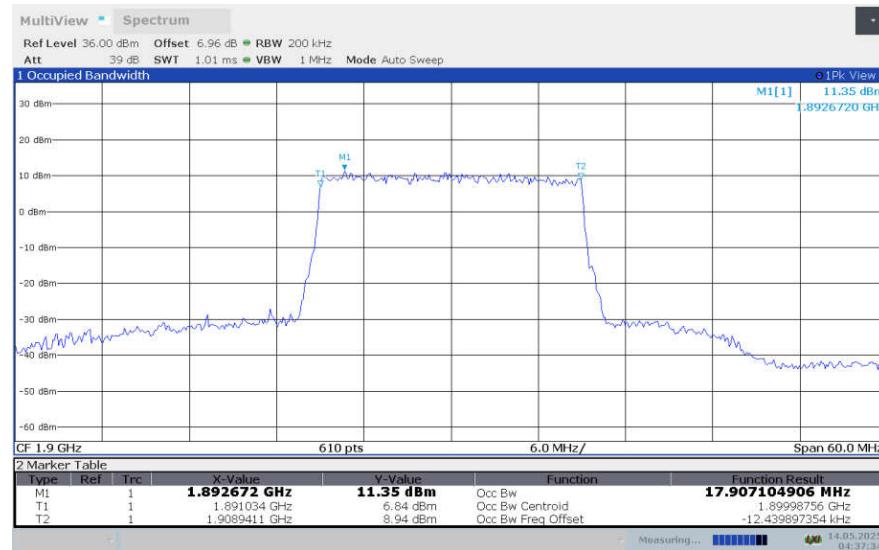
LTE band 2 , 20MHz Bandwidth,HIGH,QPSK (99% BW)



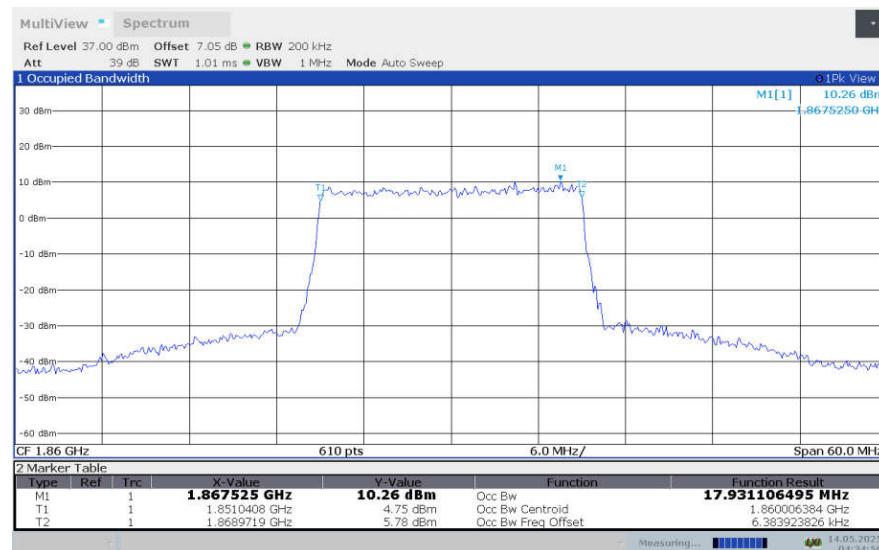
LTE band 2 , 20MHz Bandwidth,HIGH,16QAM (99% BW)



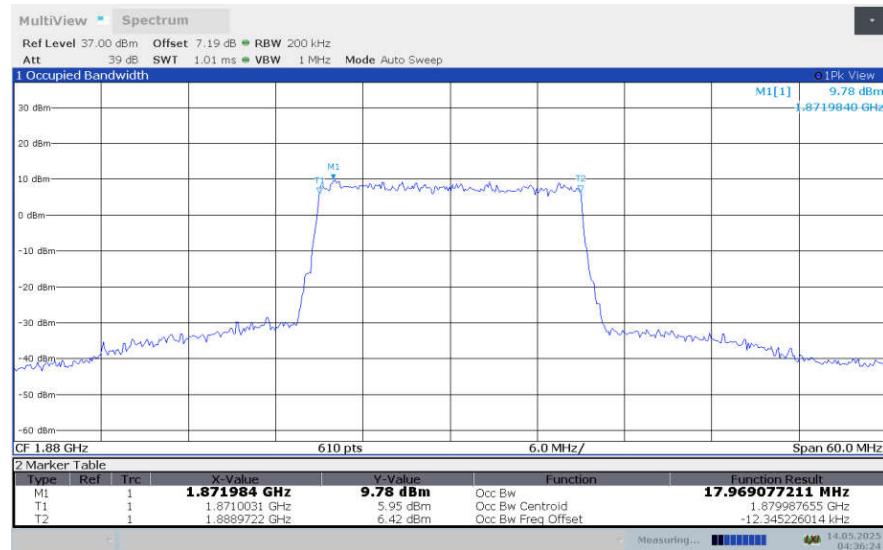
LTE band 2 , 20MHz Bandwidth,HIGH,64QAM (99% BW)



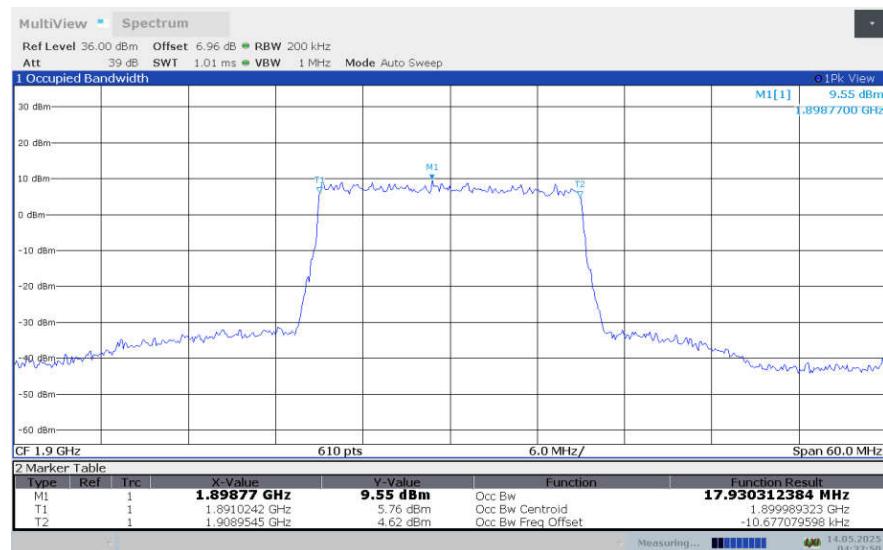
LTE band 2 , 20MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 2 , 20MHz Bandwidth,MID,256QAM (99% BW)



LTE band 2 , 20MHz Bandwidth,HIGH,256QAM (99% BW)



LTE band 4,1.4MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
1710.7	1.091	1.095	1.092	1.089
1732.5	1.098	1.098	1.096	1.090
1754.3	1.090	1.094	1.094	1.091

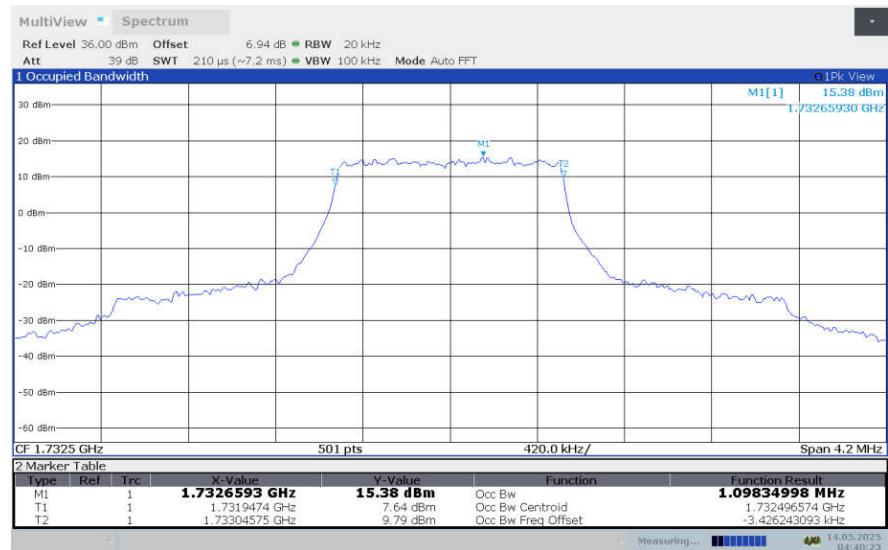
LTE band 4, 1.4MHz Bandwidth,LOW,QPSK (99% BW)

LTE band 4, 1.4MHz Bandwidth,LOW,16QAM (99% BW)

LTE band 4, 1.4MHz Bandwidth,LOW,64QAM (99% BW)



LTE band 4 , 1.4MHz Bandwidth,MID,QPSK (99% BW)



LTE band 4 , 1.4MHz Bandwidth,MID,16QAM (99% BW)



LTE band 4 , 1.4MHz Bandwidth,MID,64QAM (99% BW)



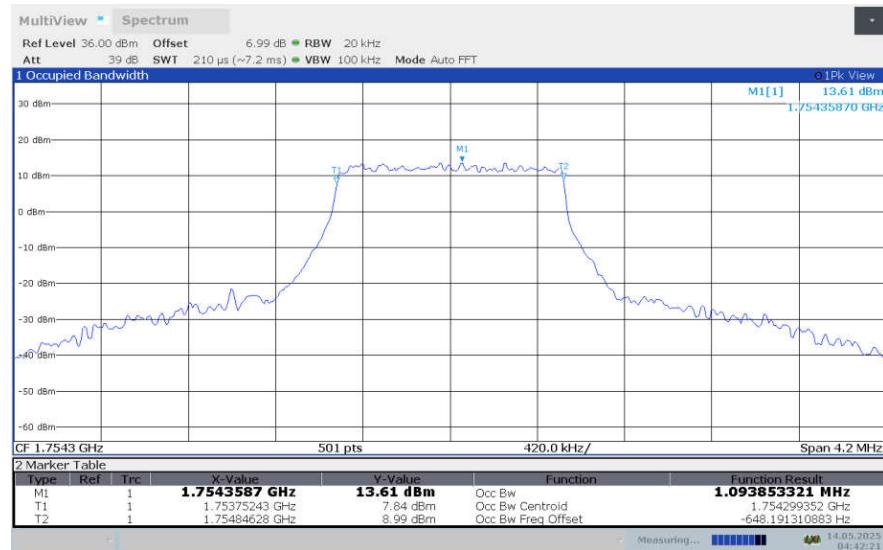
LTE band 4 , 1.4MHz Bandwidth,HIGH,QPSK (99% BW)



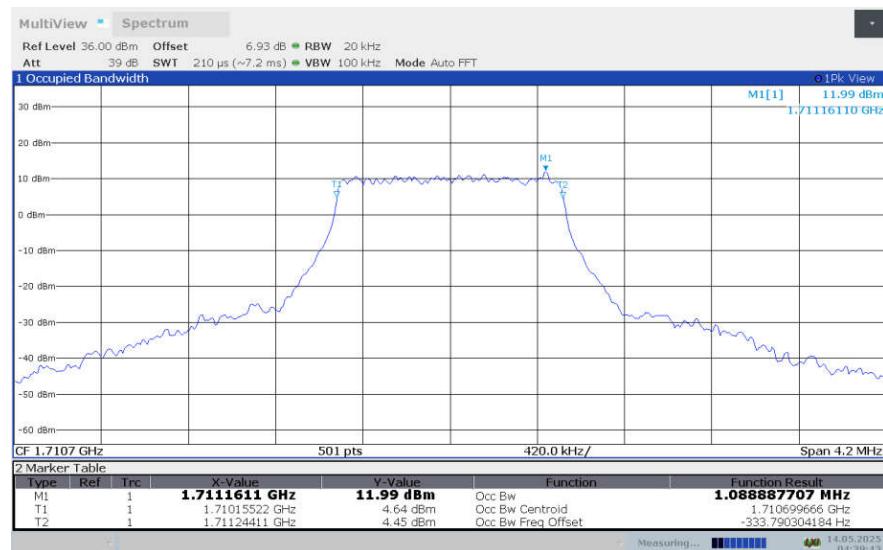
LTE band 4 , 1.4MHz Bandwidth,HIGH,16QAM (99% BW)



LTE band 4 , 1.4MHz Bandwidth,HIGH,64QAM (99% BW)



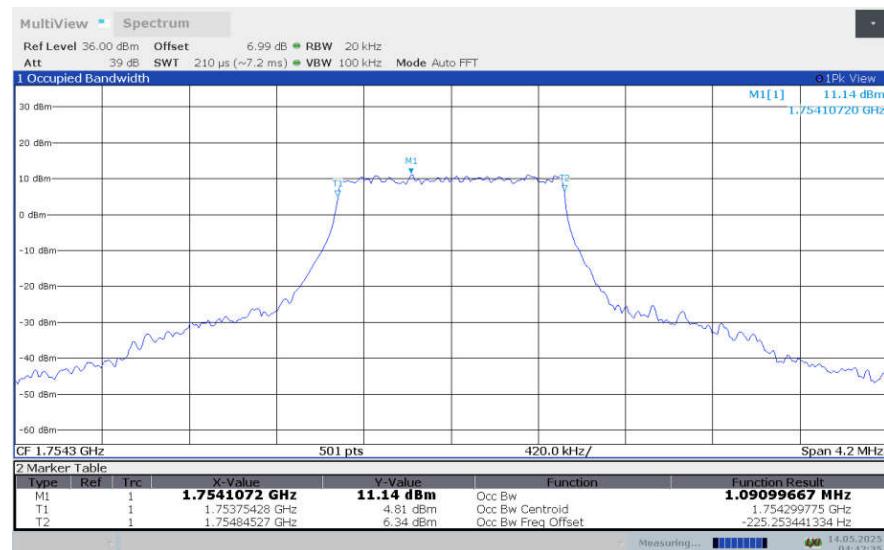
LTE band 4 , 1.4MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 4 , 1.4MHz Bandwidth,MID,256QAM (99% BW)

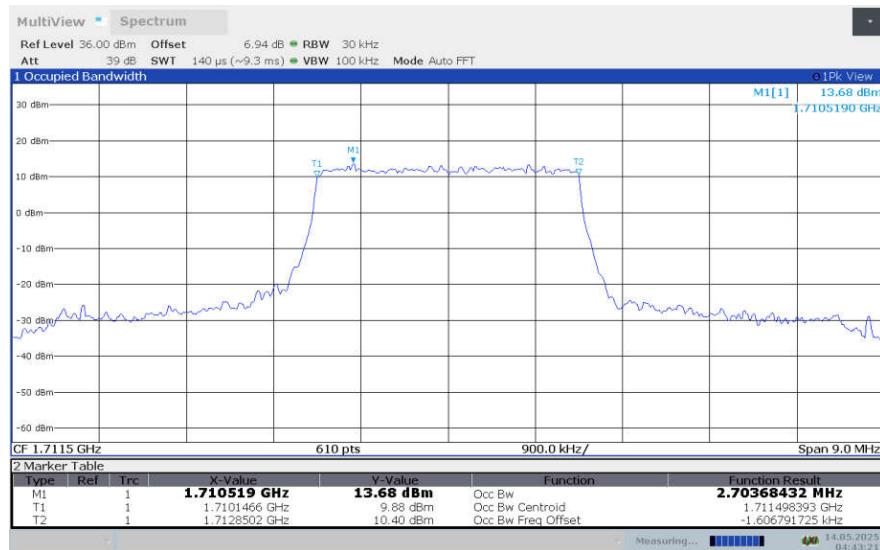
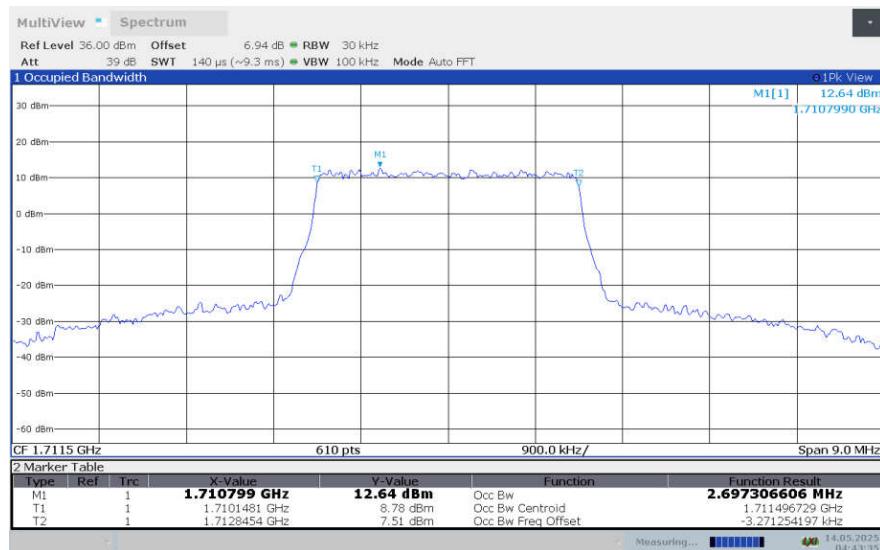


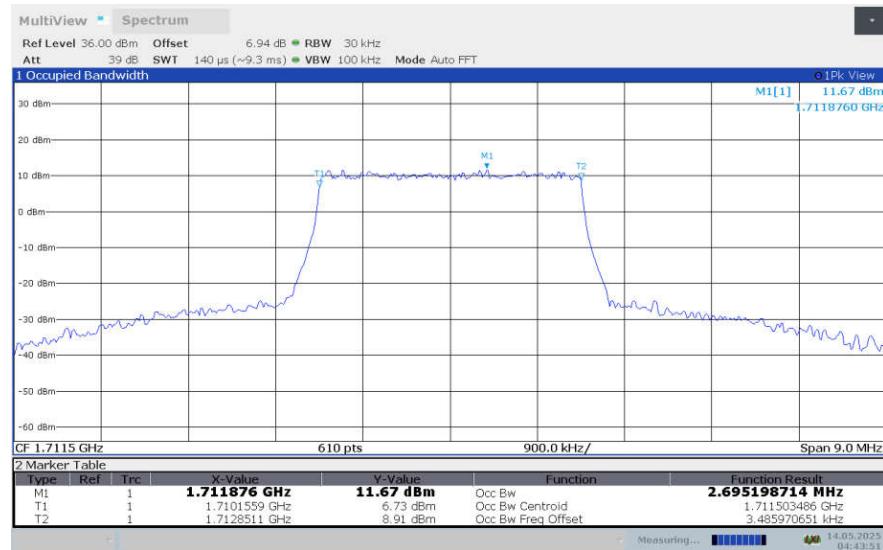
LTE band 4 , 1.4MHz Bandwidth,HIGH,256QAM (99% BW)



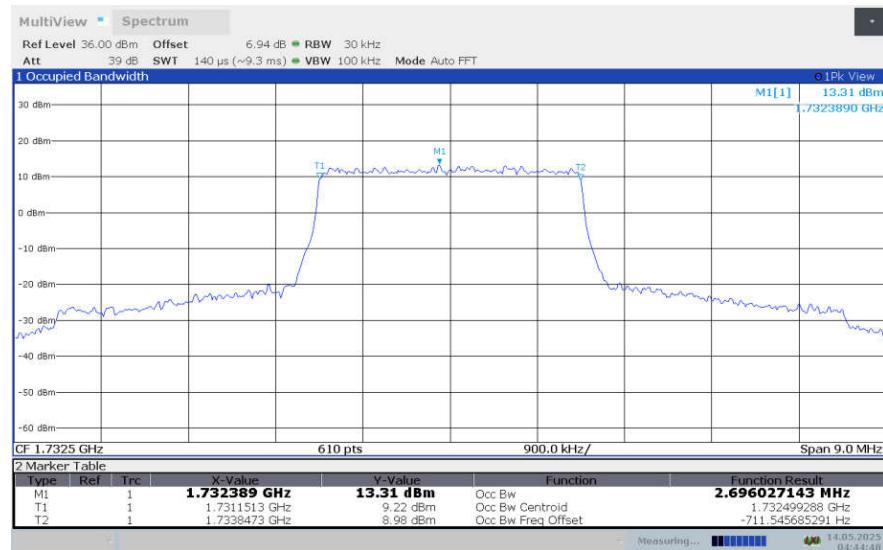
LTE band 4,3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
1711.5	2.704	2.697	2.695	2.696
1732.5	2.696	2.698	2.690	2.702
1753.5	2.703	2.695	2.701	2.716

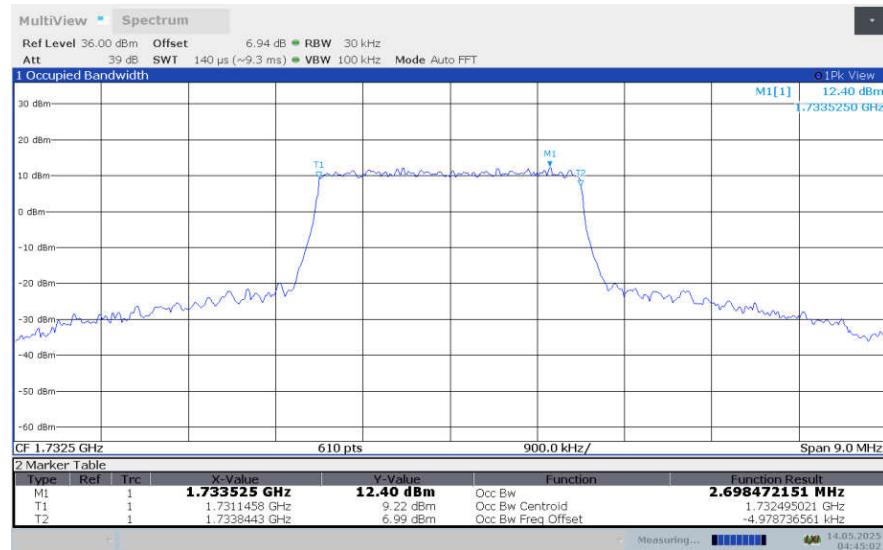
LTE band 4 , 3MHz Bandwidth,LOW,QPSK (99% BW)

LTE band 4 , 3MHz Bandwidth,LOW,16QAM (99% BW)

LTE band 4 , 3MHz Bandwidth,LOW,64QAM (99% BW)



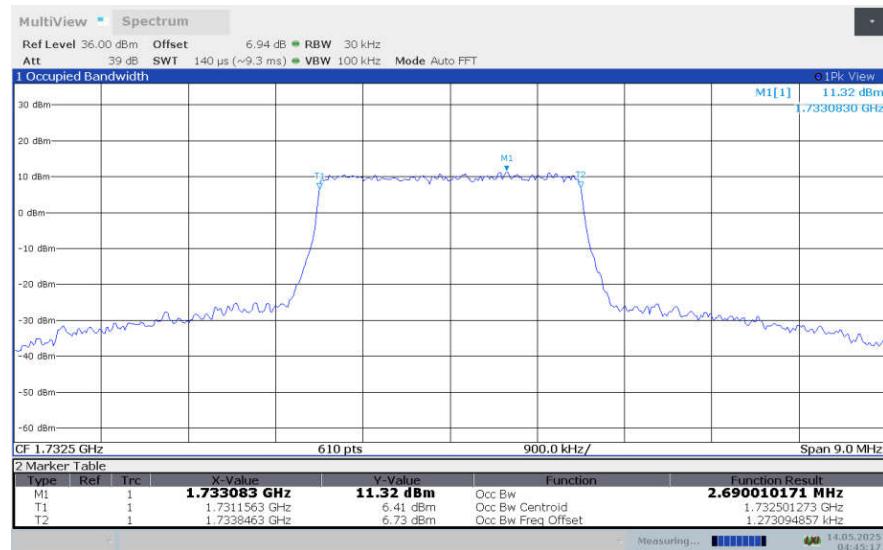
LTE band 4 , 3MHz Bandwidth,MID,QPSK (99% BW)



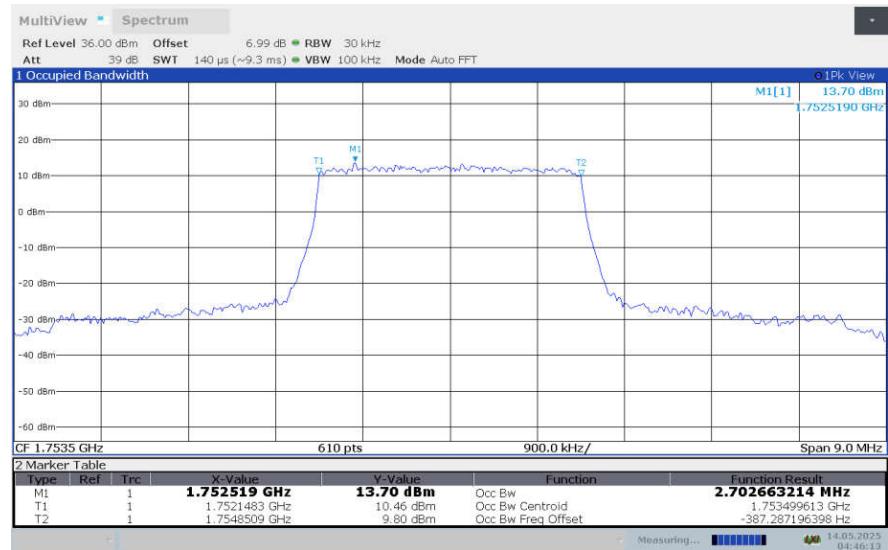
LTE band 4 , 3MHz Bandwidth,MID,16QAM (99% BW)



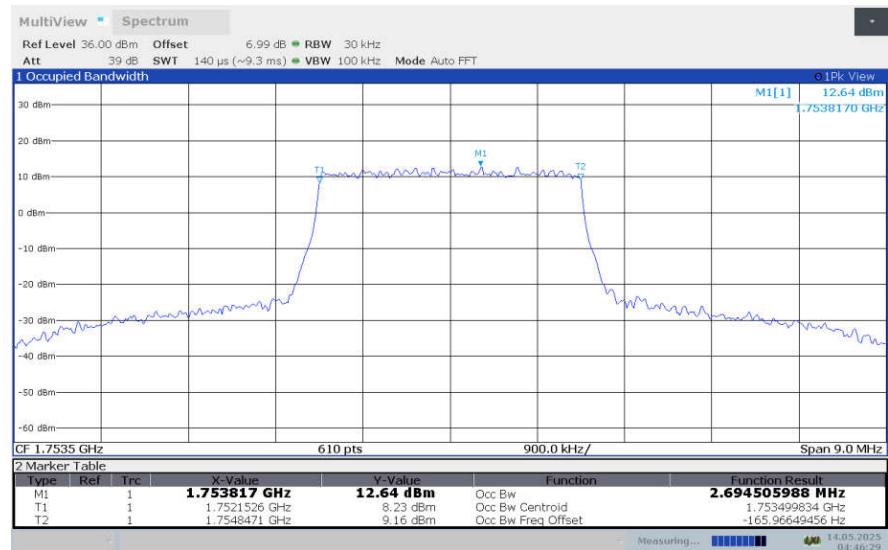
LTE band 4 , 3MHz Bandwidth,MID,64QAM (99% BW)



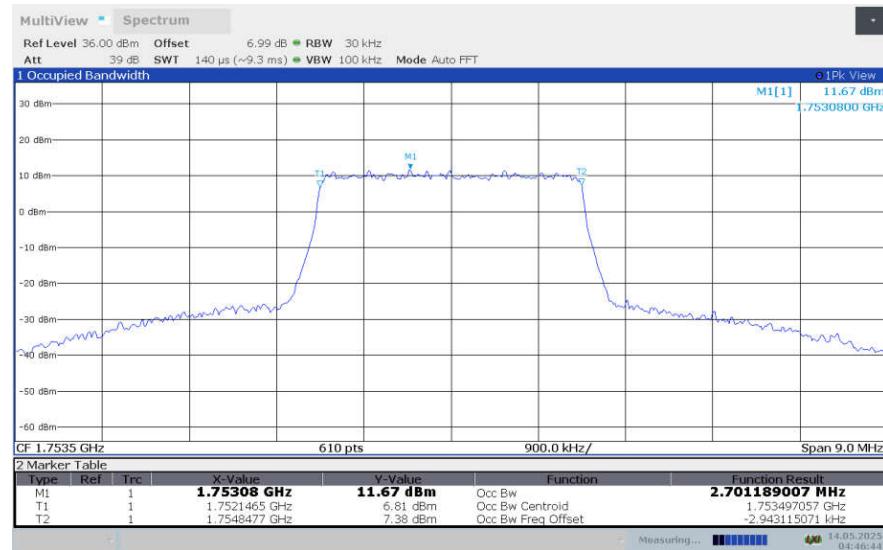
LTE band 4 , 3MHz Bandwidth,HIGH,QPSK (99% BW)



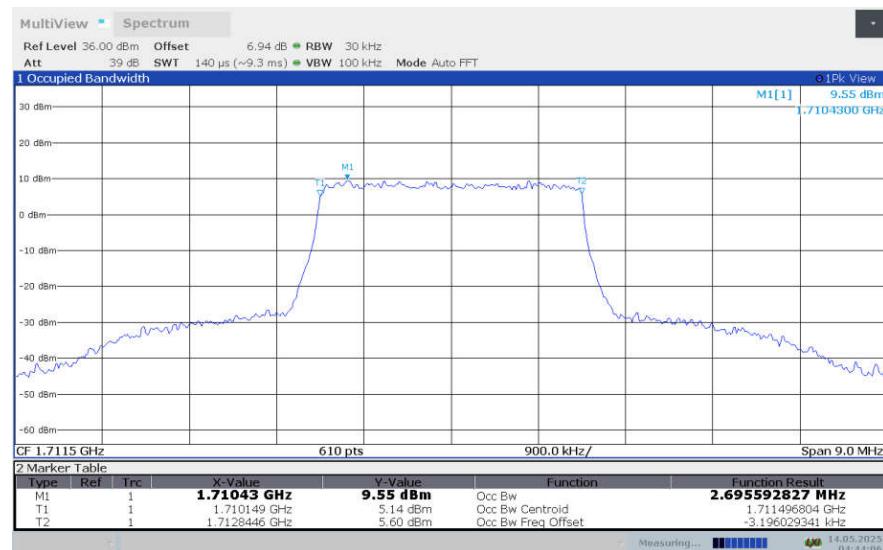
LTE band 4 , 3MHz Bandwidth,HIGH,16QAM (99% BW)



LTE band 4 , 3MHz Bandwidth,HIGH,64QAM (99% BW)



LTE band 4 , 3MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 4 , 3MHz Bandwidth,MID,256QAM (99% BW)