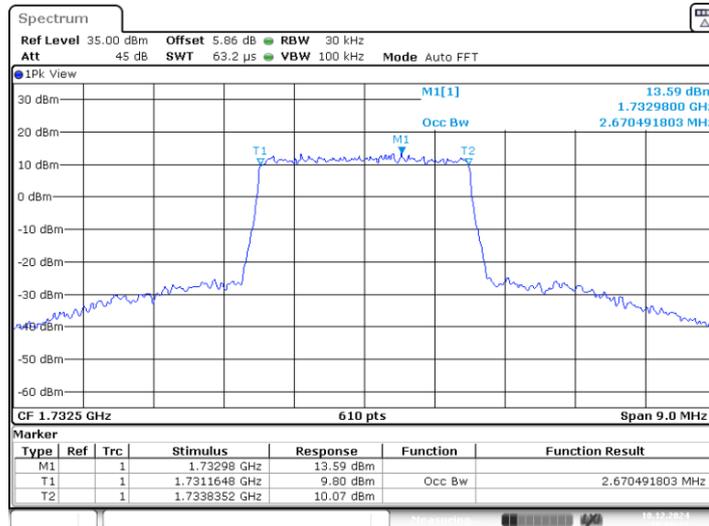


**LTE band 4,3MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1732.5	2.685	2.670

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

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


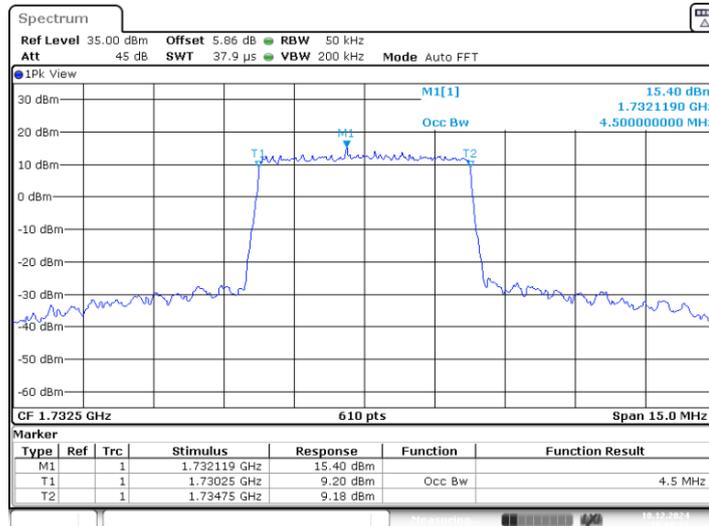
### LTE band 4,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1732.5	4.500	4.500

### LTE band 4 , 5MHz Bandwidth,MID,QPSK (99% BW)



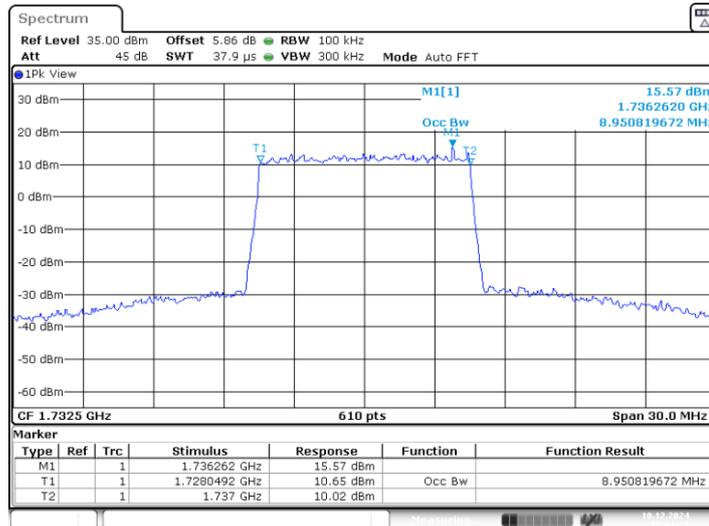
### LTE band 4 , 5MHz Bandwidth,MID,16QAM (99% BW)



**LTE band 4,10MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1732.5	9.000	8.951

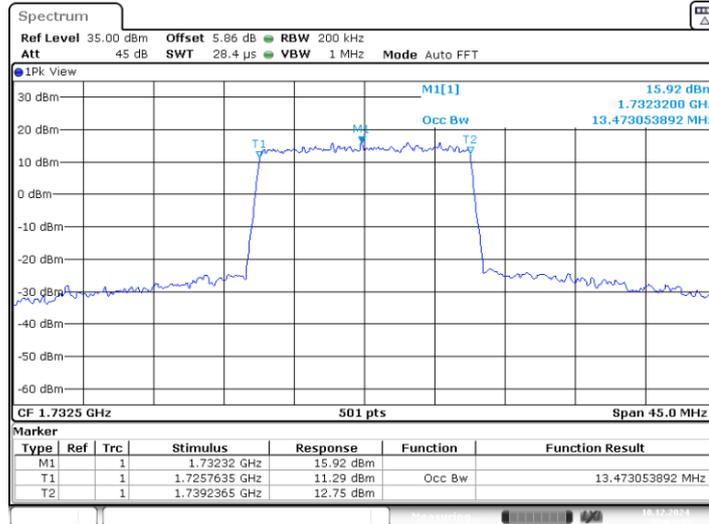
**LTE band 4 , 10MHz Bandwidth,MID,QPSK (99% BW)**

**LTE band 4 , 10MHz Bandwidth,MID,16QAM (99% BW)**


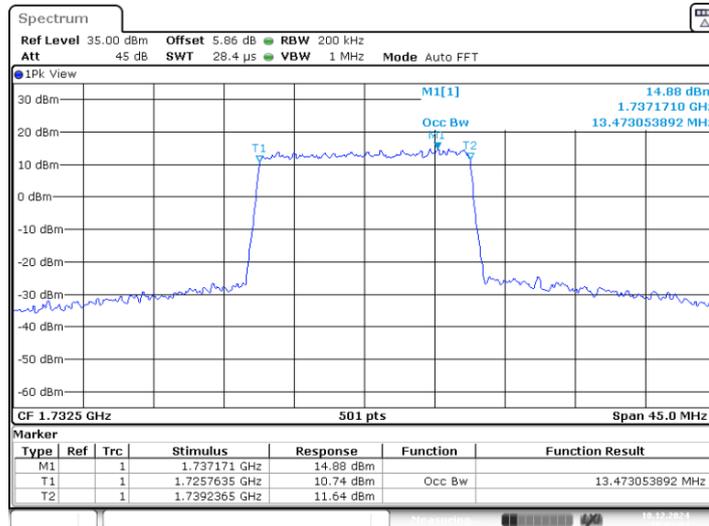
**LTE band 4,15MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1732.5	13.473	13.473

**LTE band 4 , 15MHz Bandwidth,MID,QPSK (99% BW)**

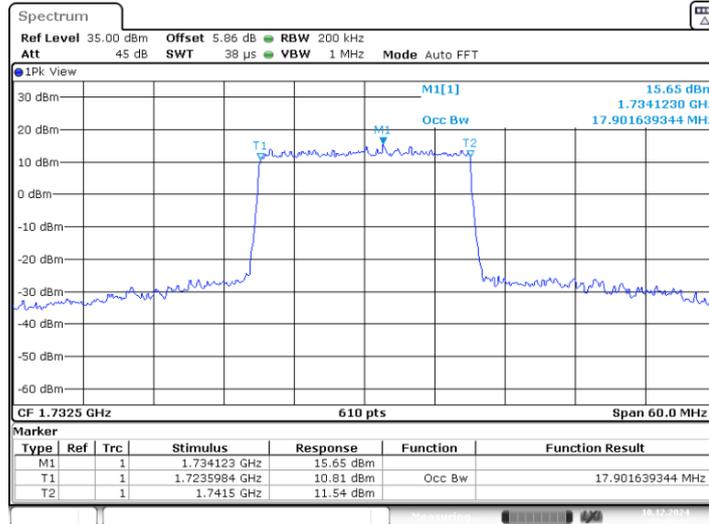
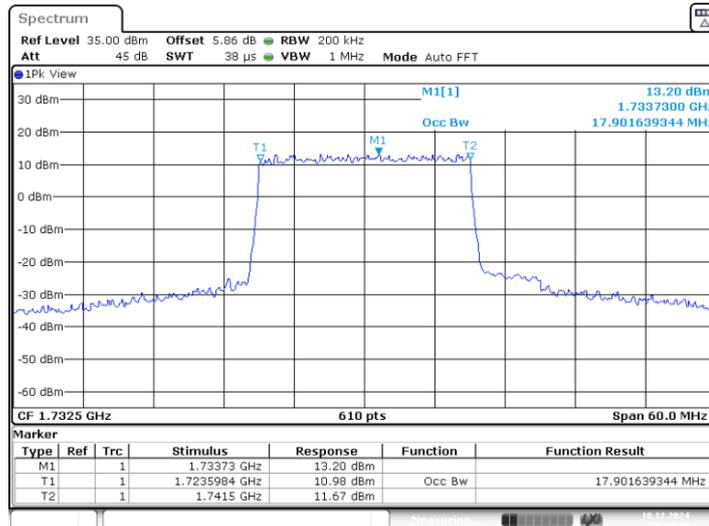


**LTE band 4 , 15MHz Bandwidth,MID,16QAM (99% BW)**



**LTE band 4,20MHz(99%)**

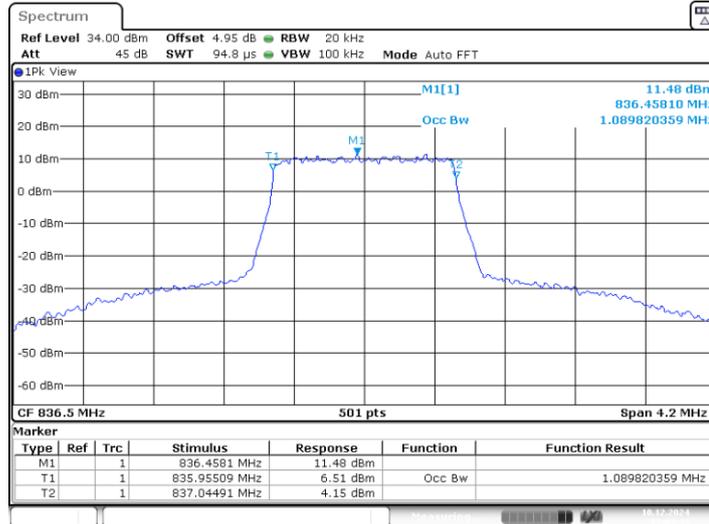
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1732.5	17.902	17.902

**LTE band 4 , 20MHz Bandwidth,MID,QPSK (99% BW)**

**LTE band 4 , 20MHz Bandwidth,MID,16QAM (99% BW)**


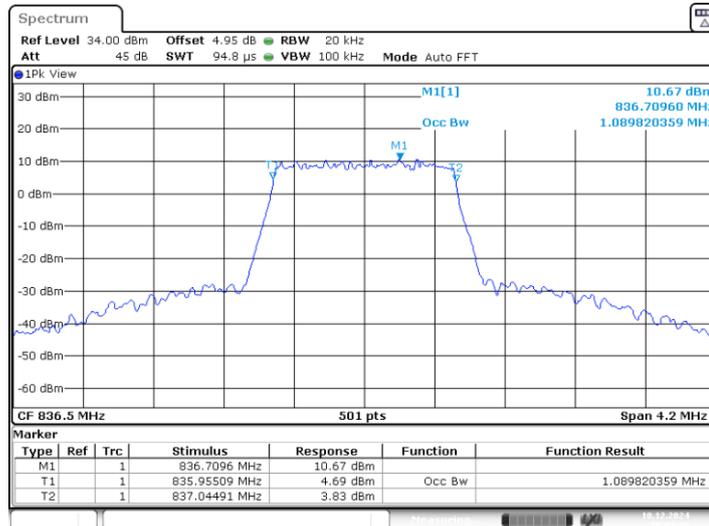
**LTE band 5,1.4MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
836.5	1.090	1.090

**LTE band 5 , 1.4MHz Bandwidth,MID,QPSK (99% BW)**



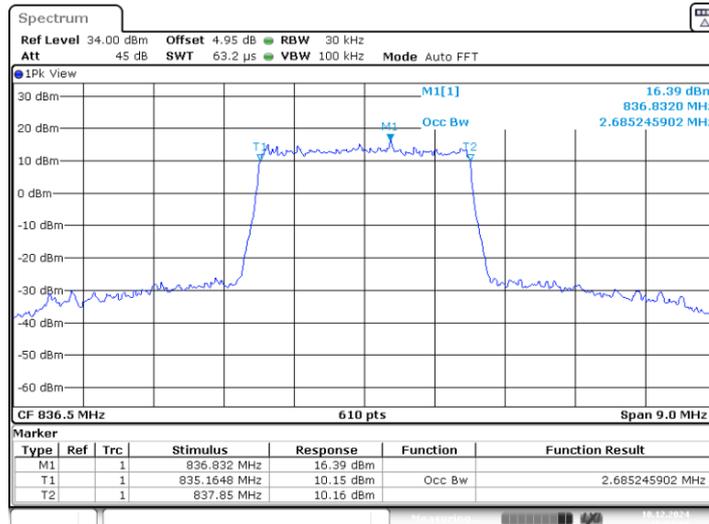
**LTE band 5 , 1.4MHz Bandwidth,MID,16QAM (99% BW)**



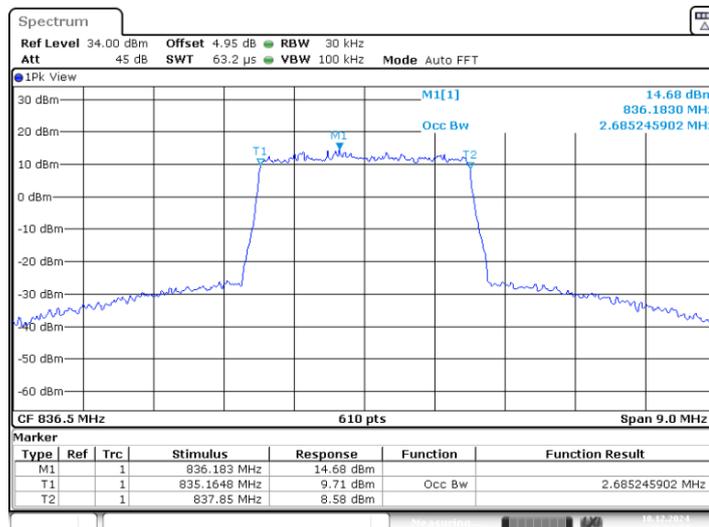
### LTE band 5,3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
836.5	2.685	2.685

### LTE band 5 , 3MHz Bandwidth,MID,QPSK (99% BW)



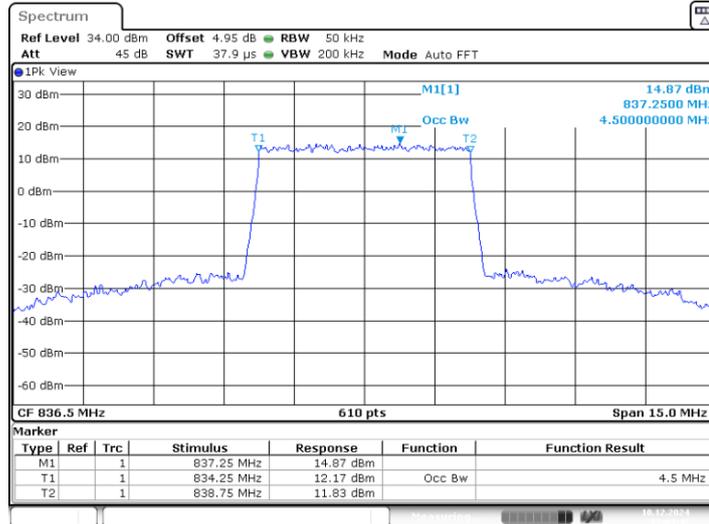
### LTE band 5 , 3MHz Bandwidth,MID,16QAM (99% BW)



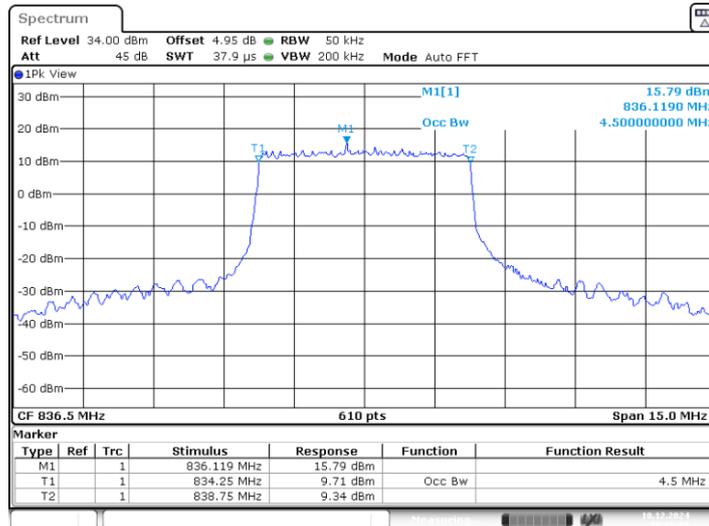
**LTE band 5,5MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
836.5	4.500	4.500

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



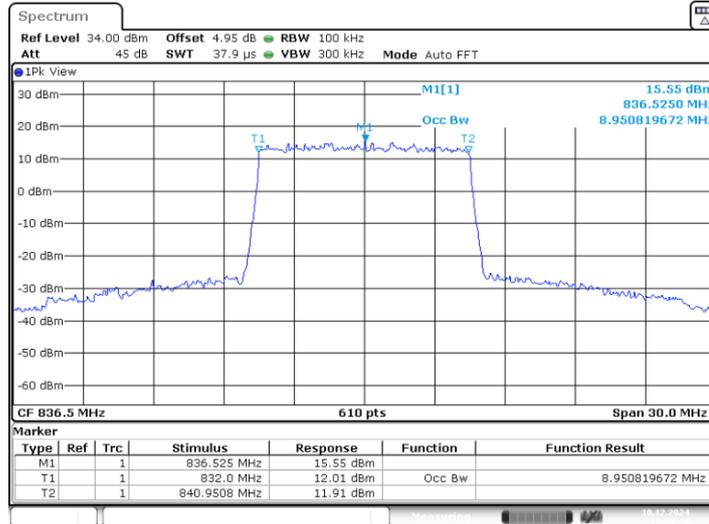
**LTE band 5 , 5MHz Bandwidth,MID,16QAM (99% BW)**



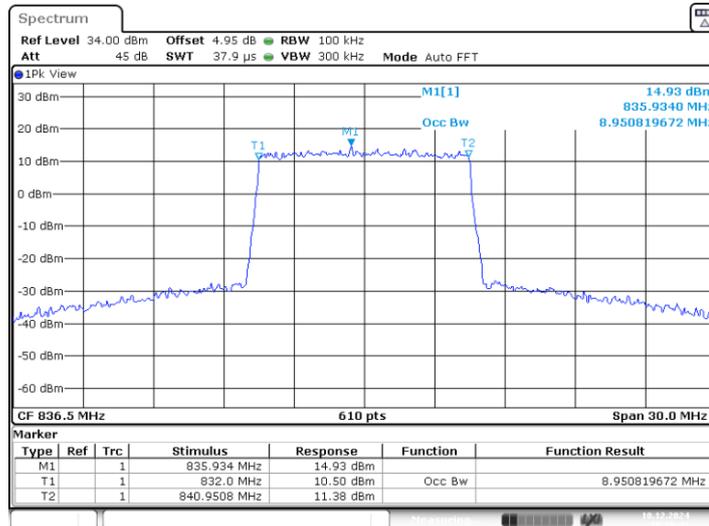
**LTE band 5,10MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
836.5	8.951	8.951

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

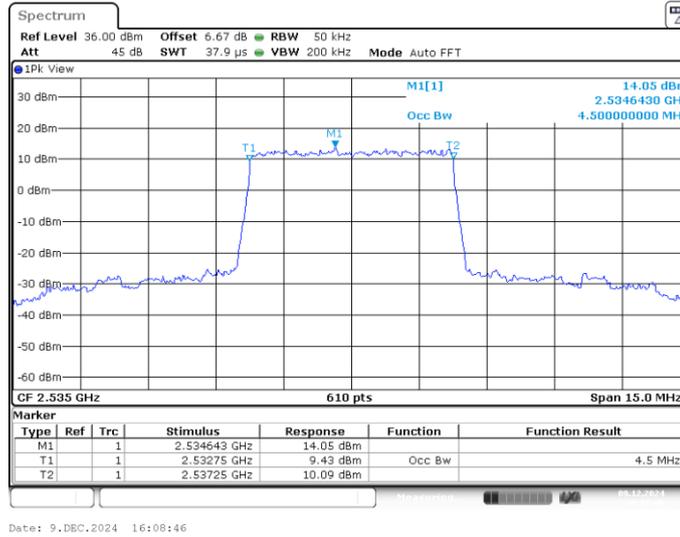
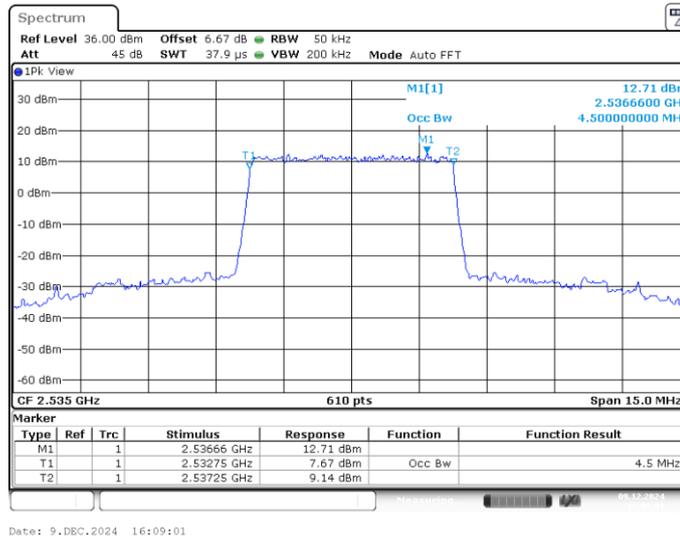


**LTE band 5 , 10MHz Bandwidth,MID,16QAM (99% BW)**



**LTE band 7,5MHz(99%)**

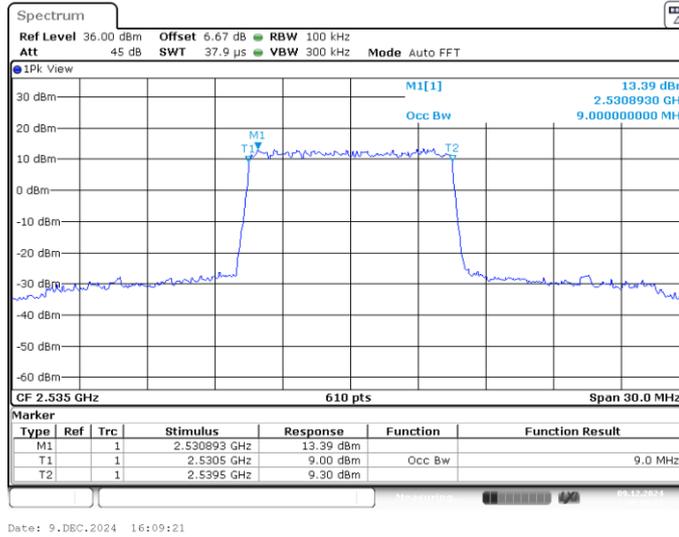
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2535	4.500	4.500

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

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


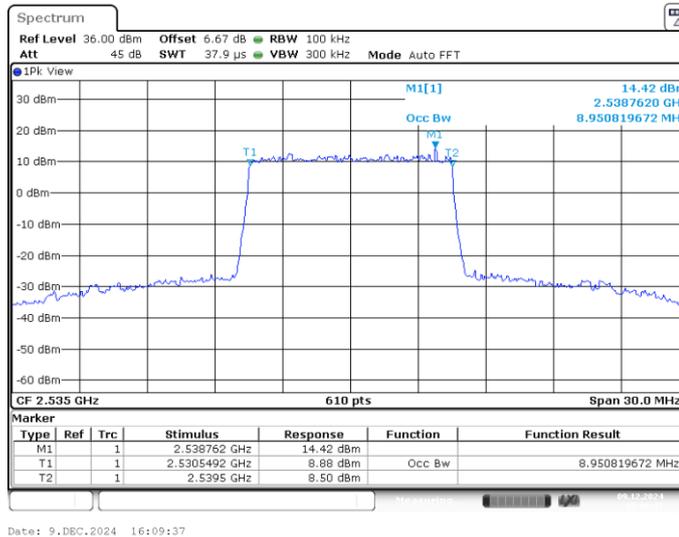
**LTE band 7,10MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2535	9.000	8.951

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



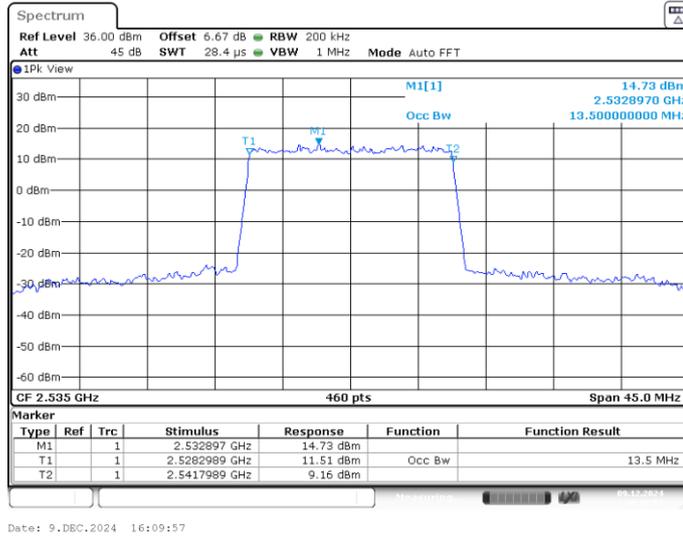
**LTE band 7 , 10MHz Bandwidth,MID,16QAM (99% BW)**



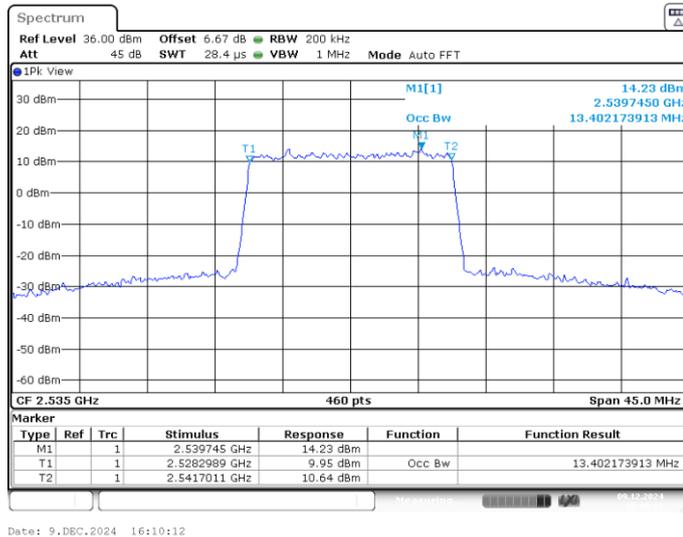
**LTE band 7,15MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2535	13.500	13.402

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

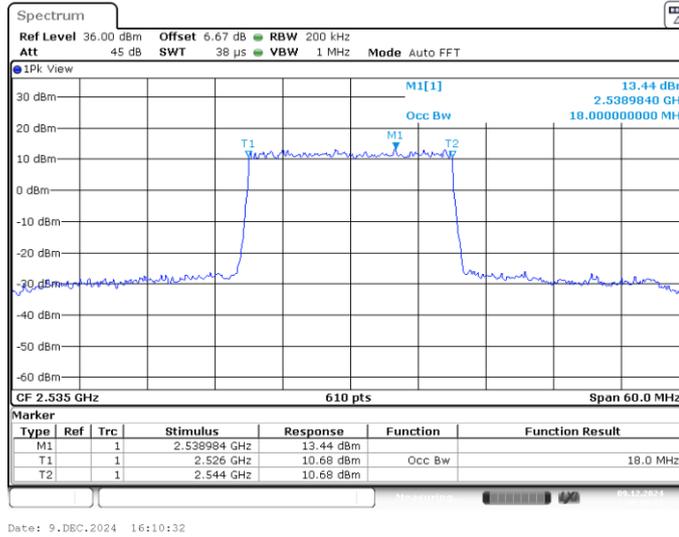
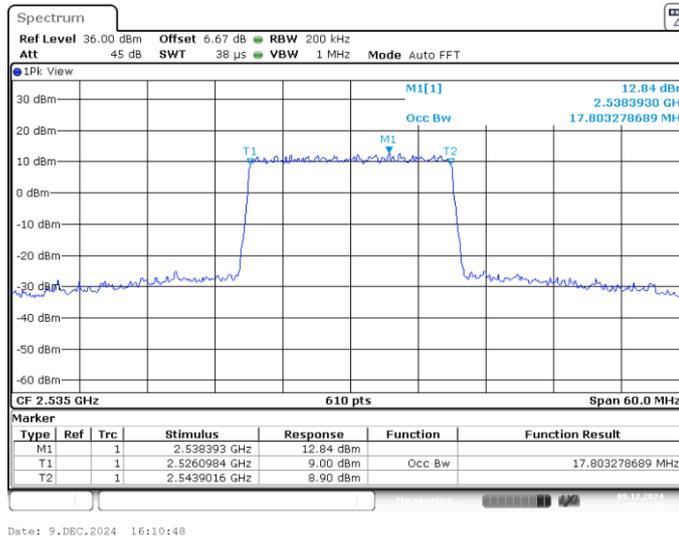


**LTE band 7 , 15MHz Bandwidth,MID,16QAM (99% BW)**



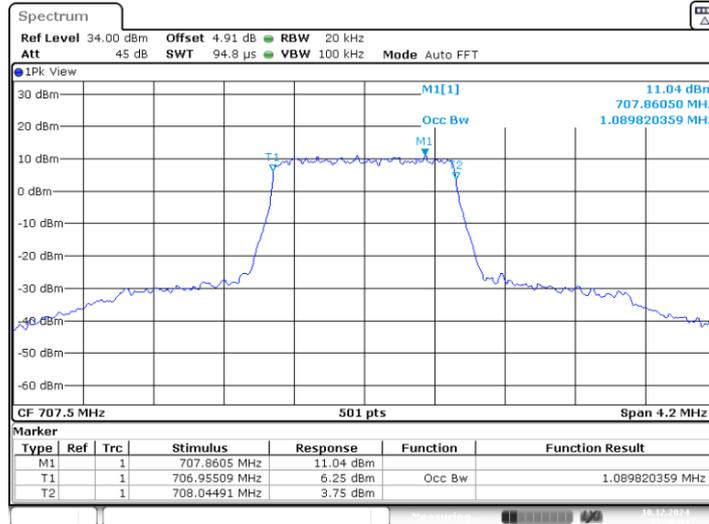
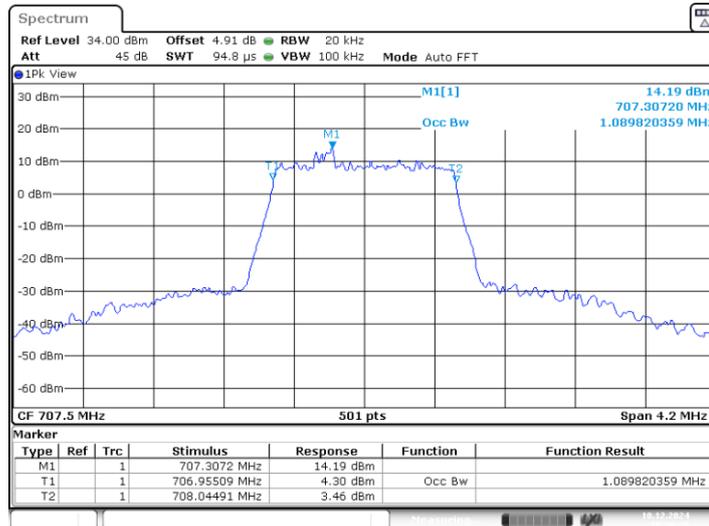
**LTE band 7,20MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2535	18.000	17.803

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

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


**LTE band 12,1.4MHz(99%)**

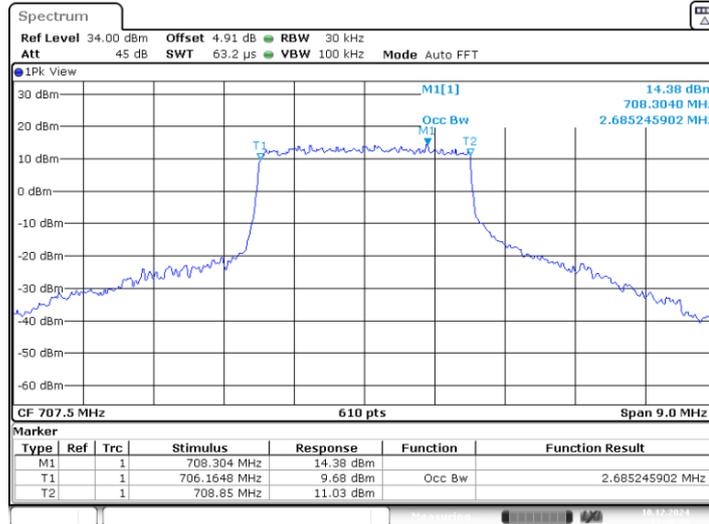
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
707.5	1.090	1.090

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

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


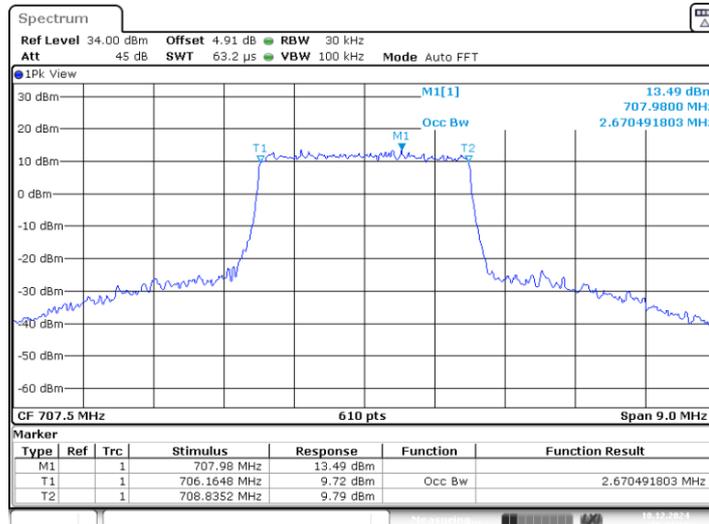
**LTE band 12,3MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
707.5	2.685	2.670

**LTE band 12 , 3MHz Bandwidth,MID,QPSK (99% BW)**



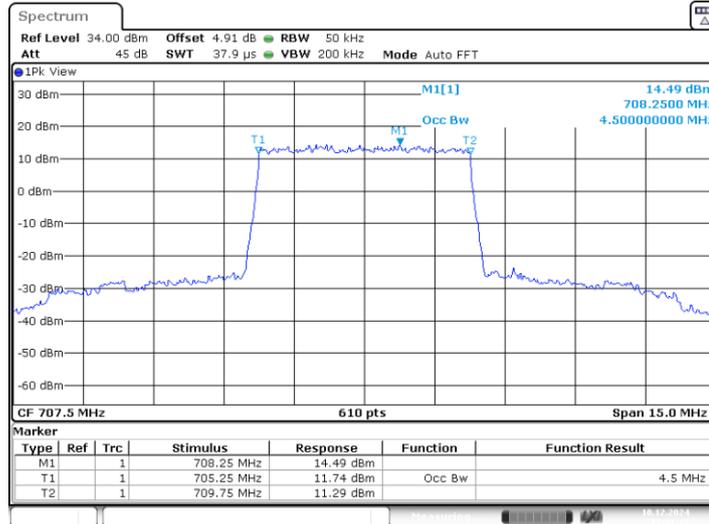
**LTE band 12 , 3MHz Bandwidth,MID,16QAM (99% BW)**



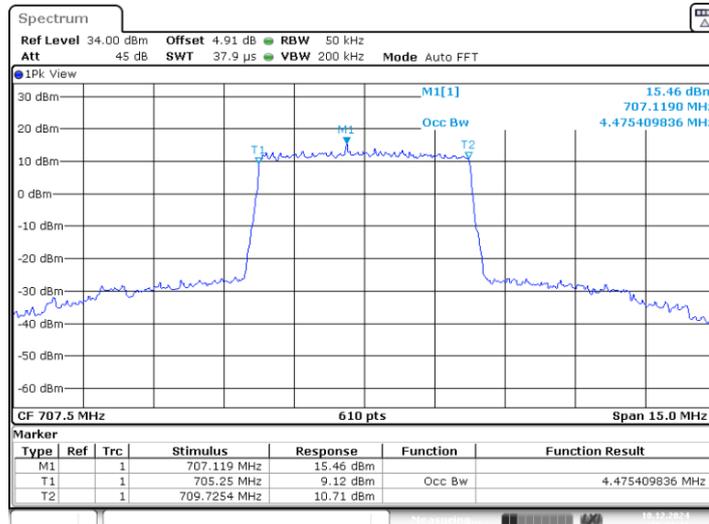
**LTE band 12,5MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
707.5	4.500	4.475

**LTE band 12 , 5MHz Bandwidth,MID,QPSK (99% BW)**



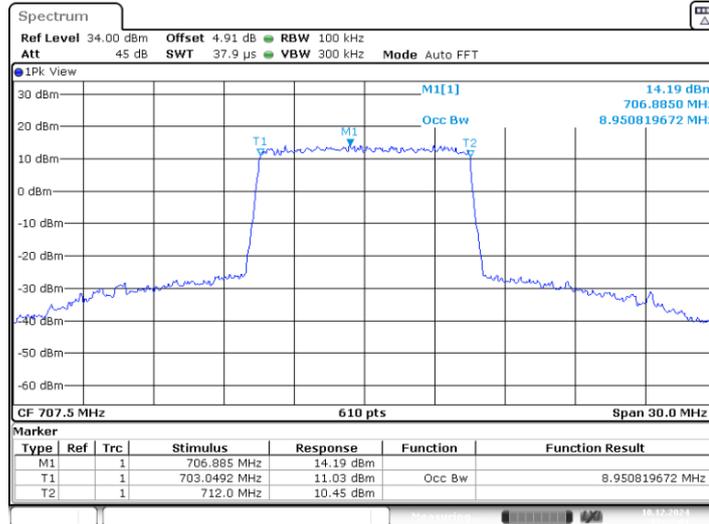
**LTE band 12 , 5MHz Bandwidth,MID,16QAM (99% BW)**



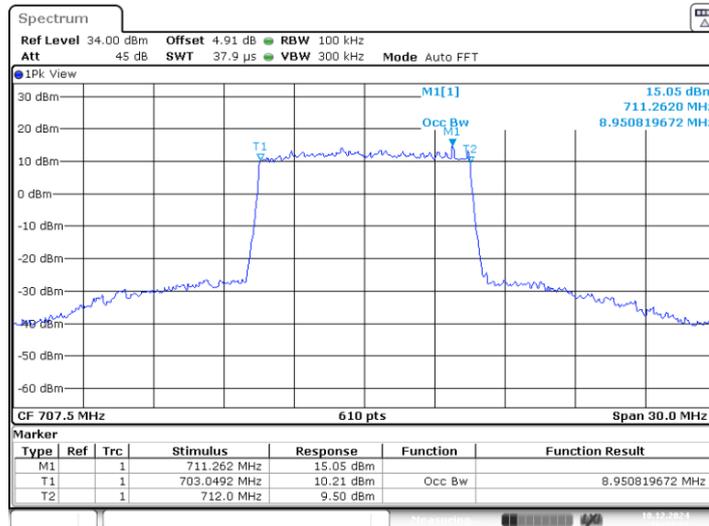
### LTE band 12,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
707.5	8.951	8.951

### LTE band 12 , 10MHz Bandwidth,MID,QPSK (99% BW)

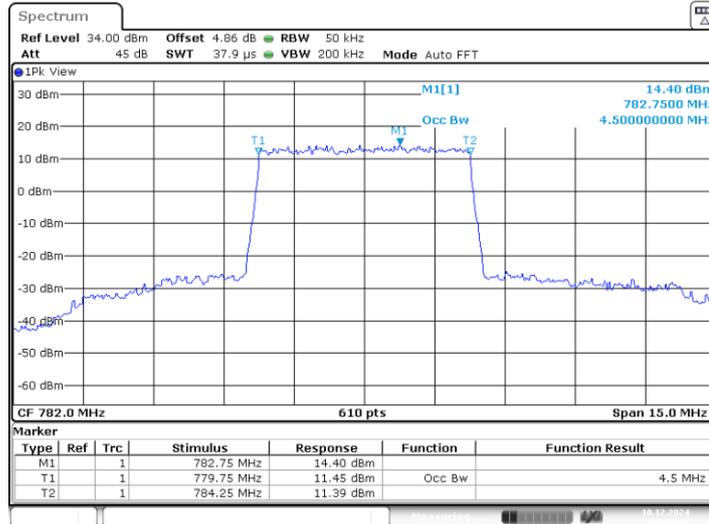
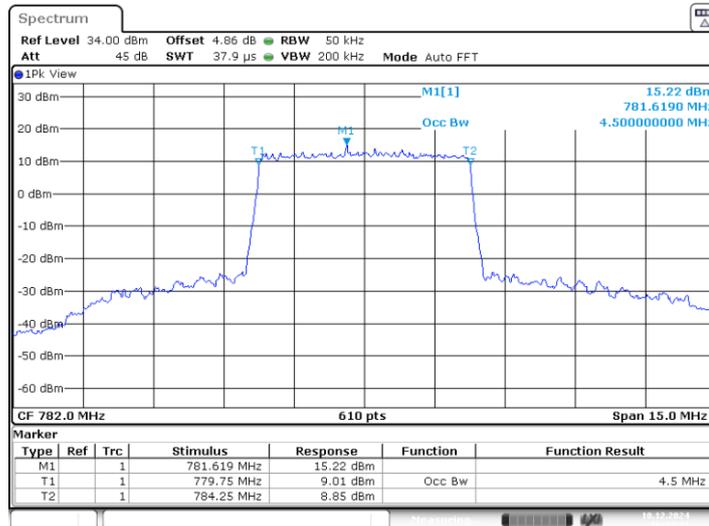


### LTE band 12 , 10MHz Bandwidth,MID,16QAM (99% BW)



**LTE band 13,5MHz(99%)**

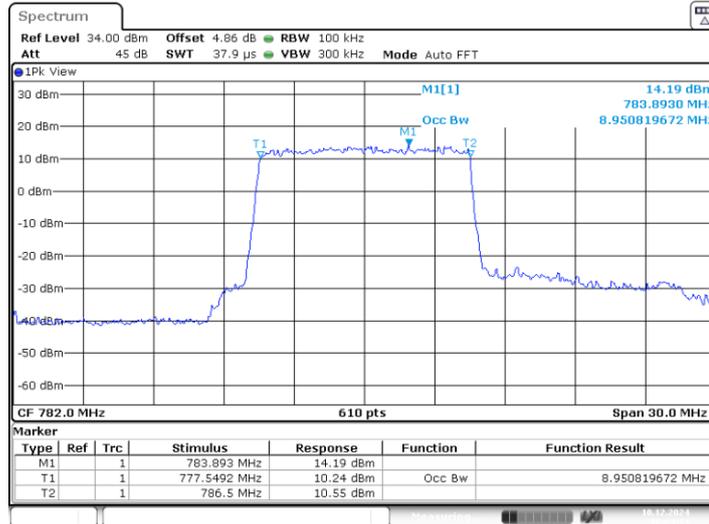
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
782	4.500	4.500

**LTE band 13 , 5MHz Bandwidth,MID,QPSK (99% BW)**

**LTE band 13 , 5MHz Bandwidth,MID,16QAM (99% BW)**


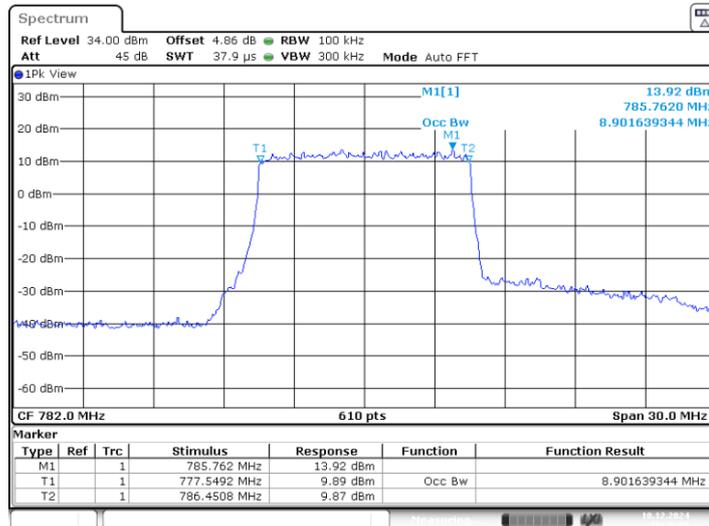
**LTE band 13,10MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
782	8.951	8.902

**LTE band 13 , 10MHz Bandwidth,MID,QPSK (99% BW)**

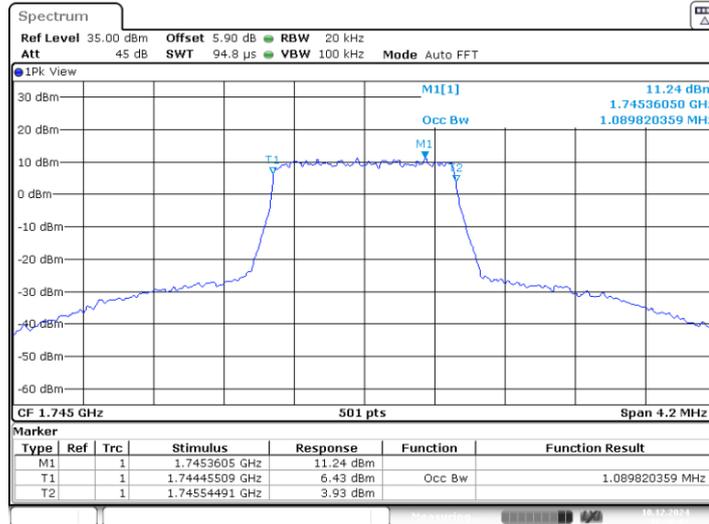
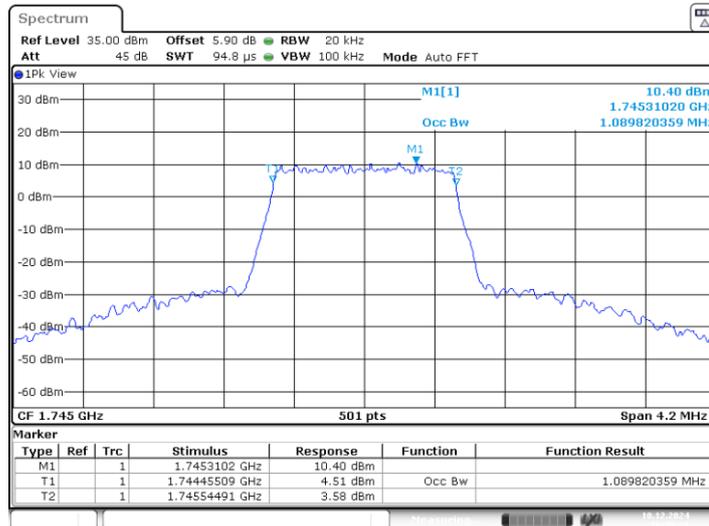


**LTE band 13 , 10MHz Bandwidth,MID,16QAM (99% BW)**



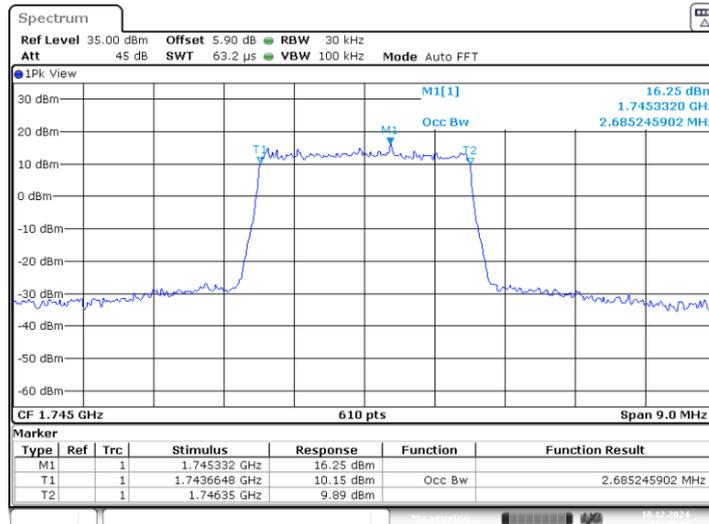
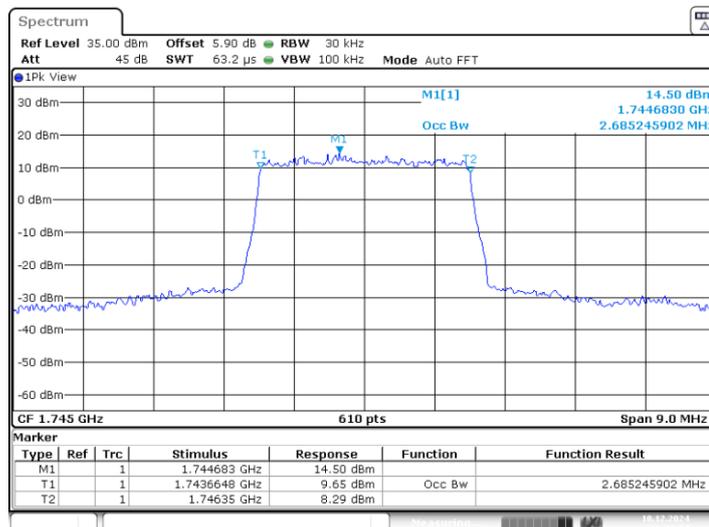
**LTE band 66,1.4MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	1.090	1.090

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

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


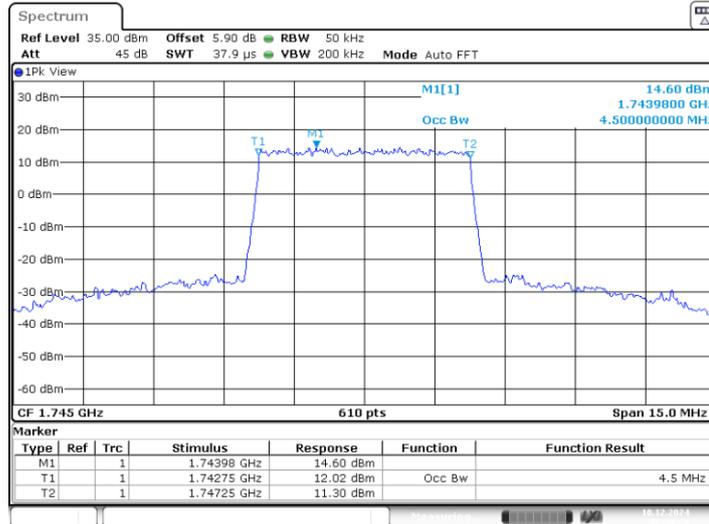
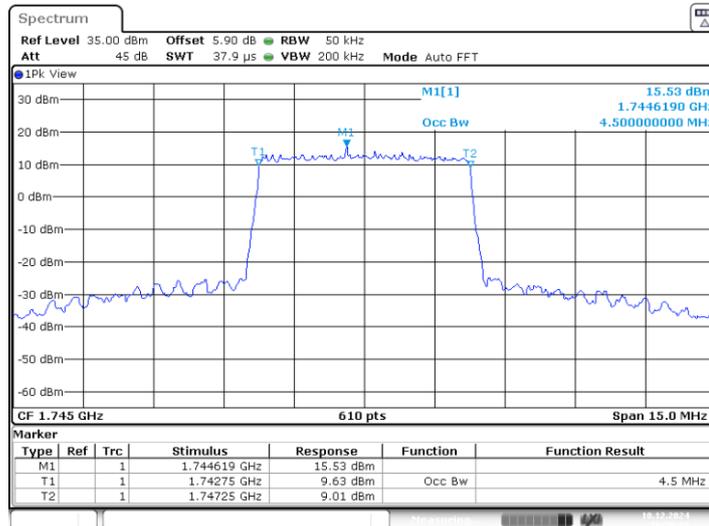
**LTE band 66,3MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	2.685	2.685

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

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


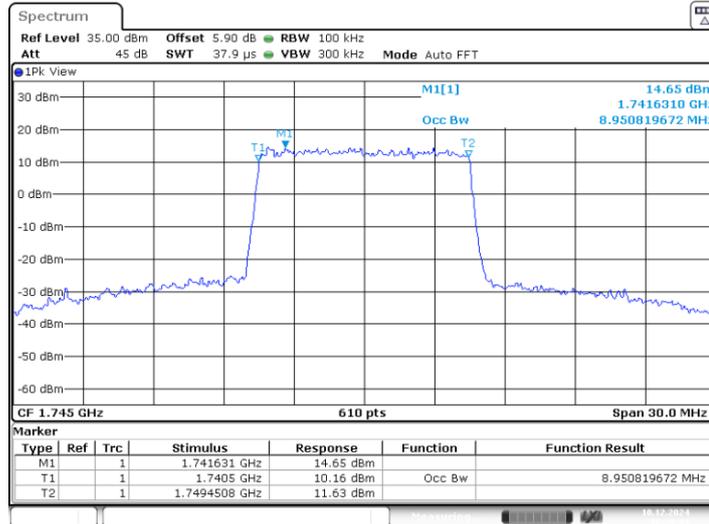
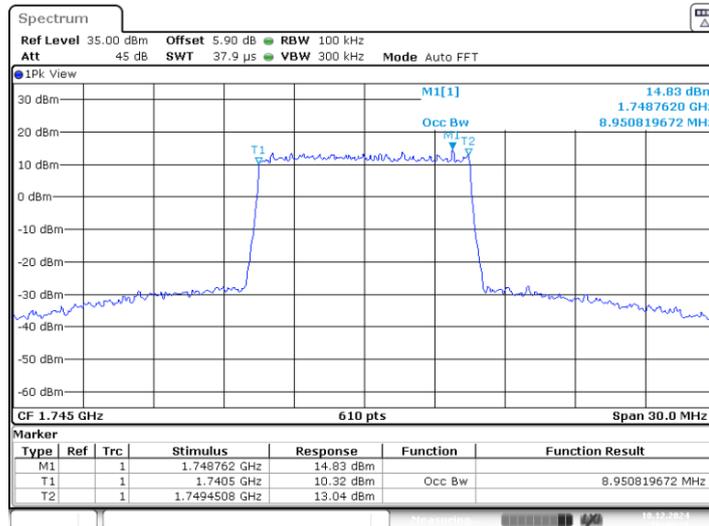
**LTE band 66,5MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	4.500	4.500

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

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


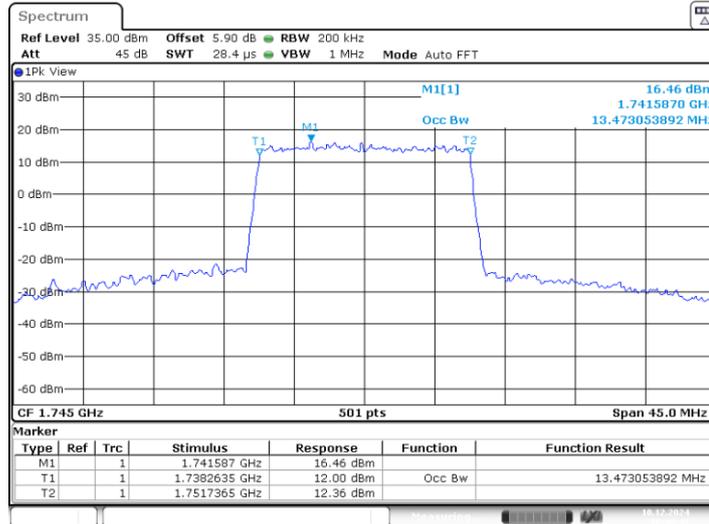
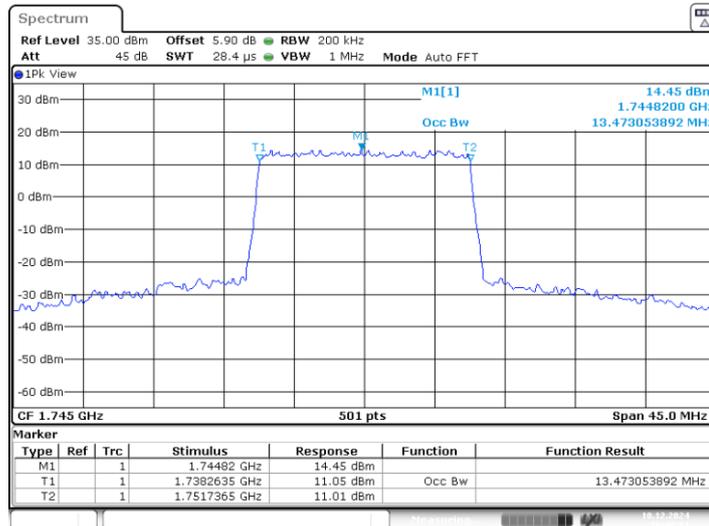
**LTE band 66,10MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	8.951	8.951

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

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


**LTE band 66,15MHz(99%)**

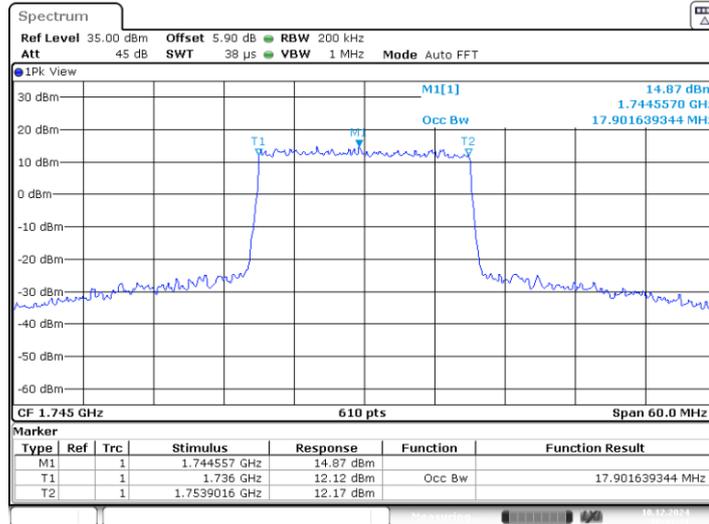
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	13.473	13.473

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

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


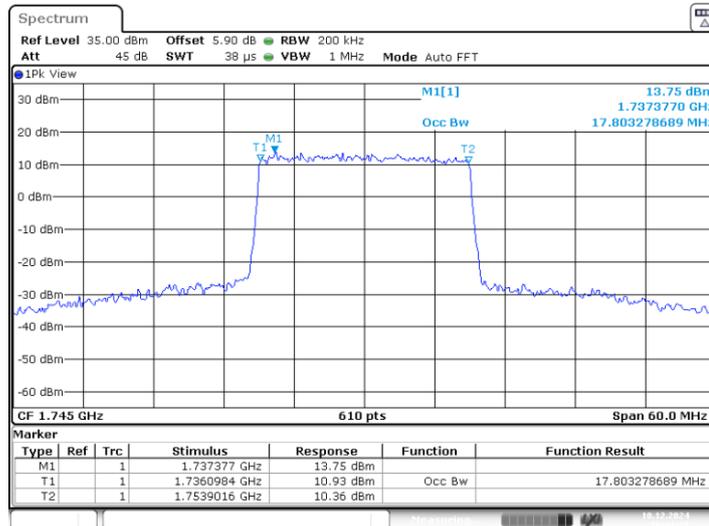
**LTE band 66,20MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	17.902	17.803

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



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



## **A.5 Emission Bandwidth**

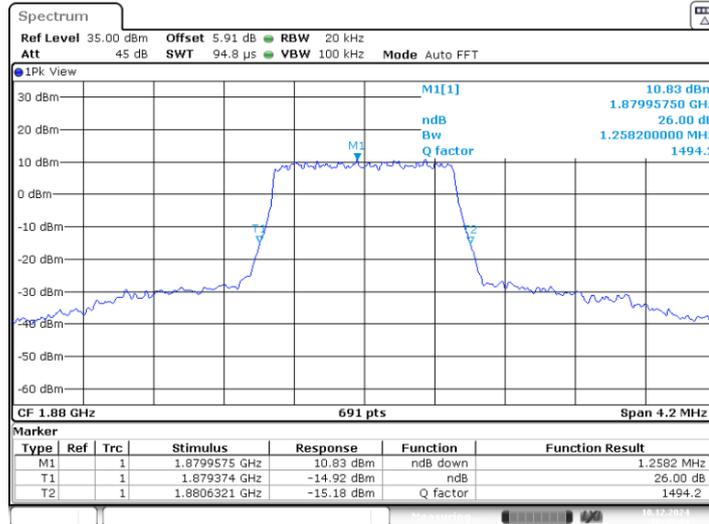
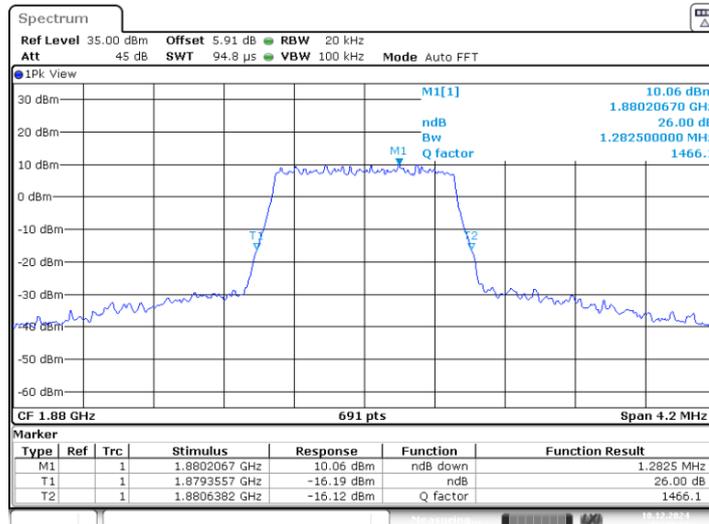
The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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)**

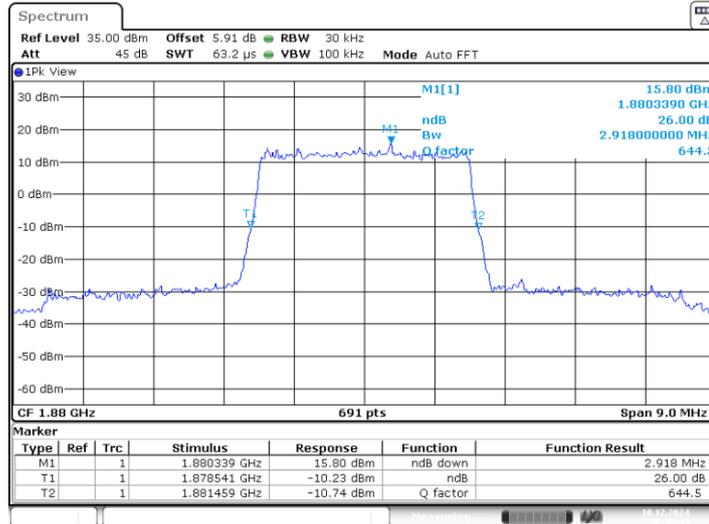
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1880	1.258	1.282

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

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


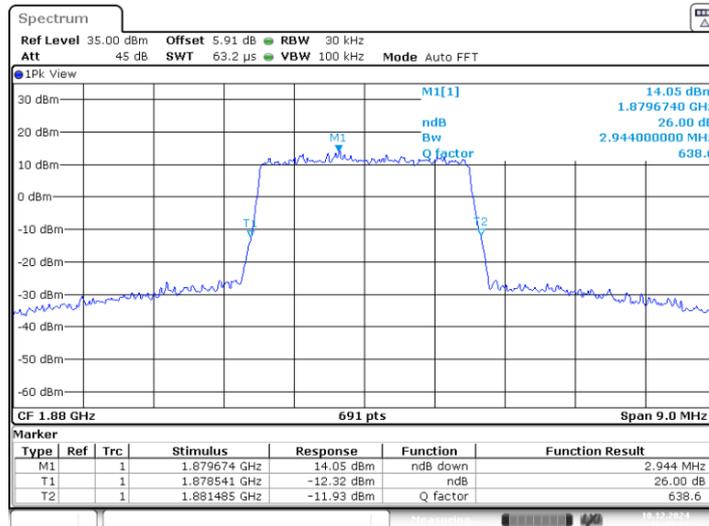
**LTE band 2,3MHz(-26dBc)**

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1880	2.918	2.944

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



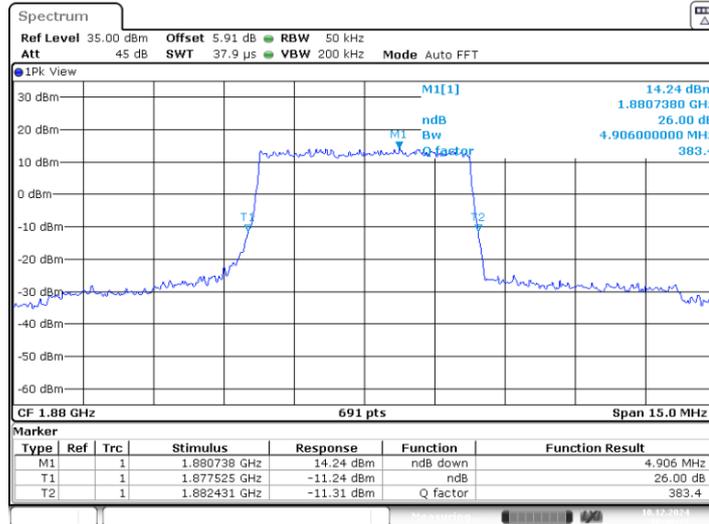
**LTE band 2 , 3MHz Bandwidth,MID,16QAM (-26dBc BW)**



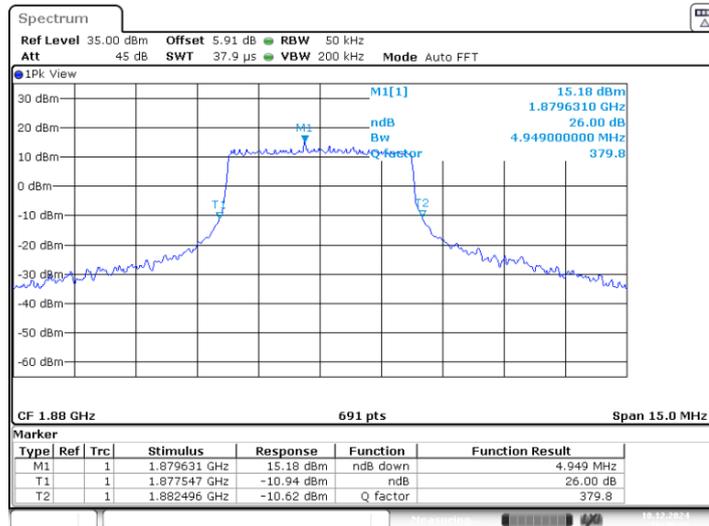
### LTE band 2,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1880	4.906	4.949

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



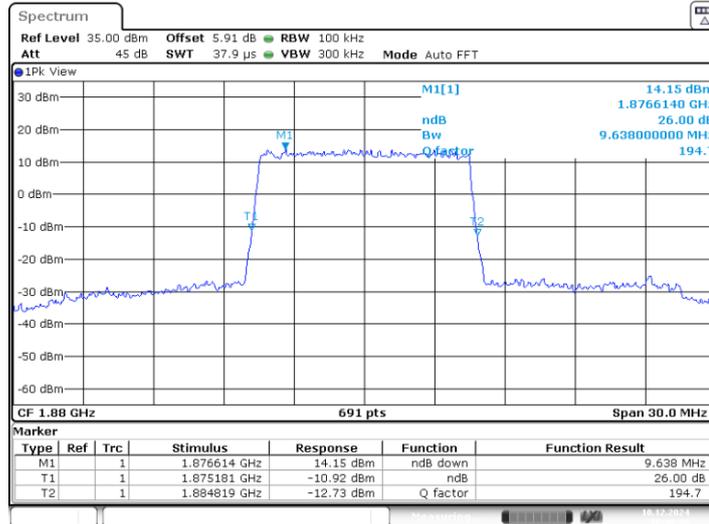
### LTE band 2 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)



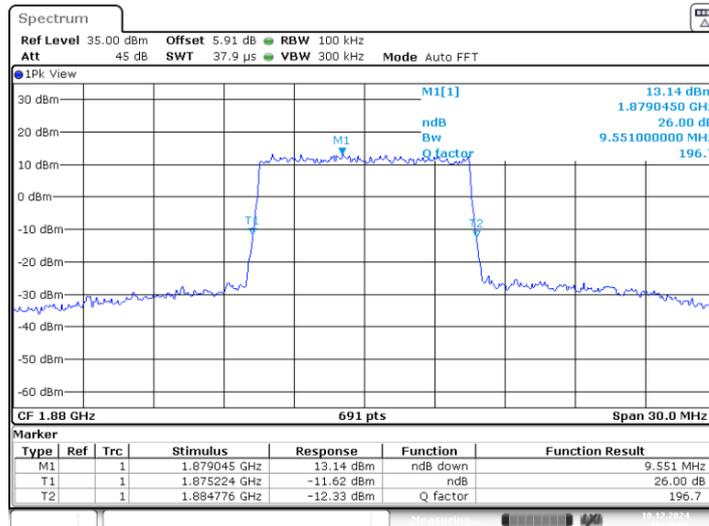
**LTE band 2,10MHz(-26dBc)**

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1880	9.638	9.551

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



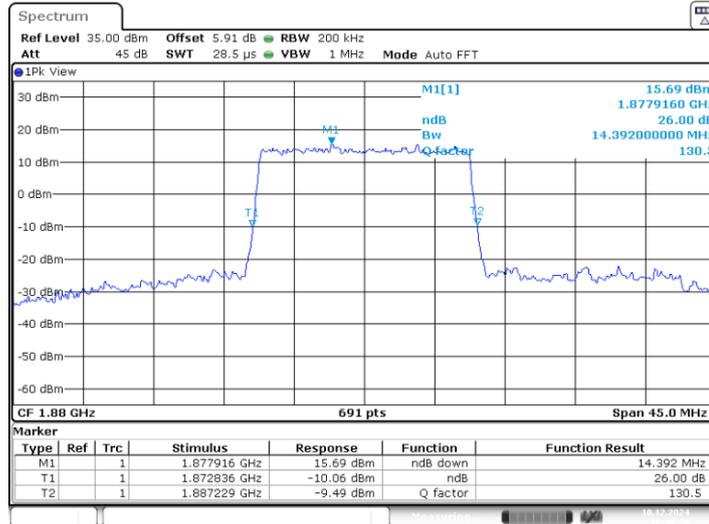
**LTE band 2 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)**



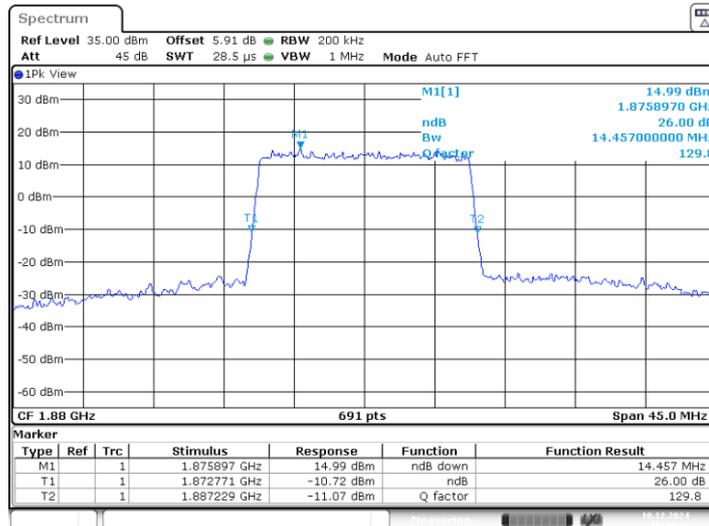
### LTE band 2,15MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1880	14.392	14.457

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



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



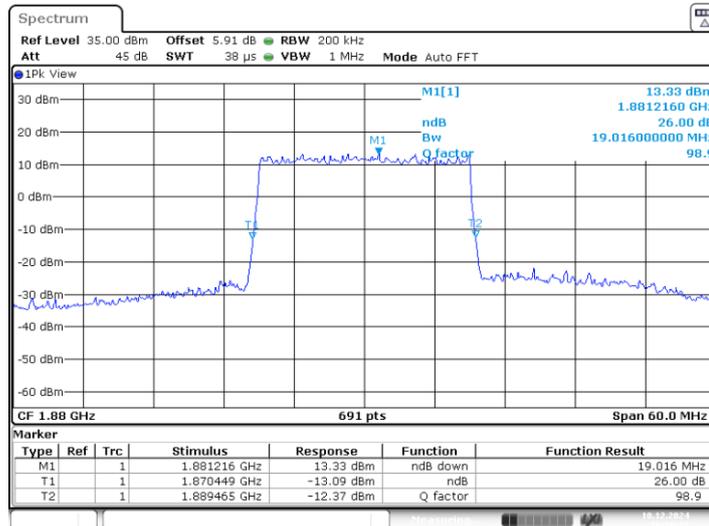
**LTE band 2,20MHz(-26dBc)**

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1880	19.016	19.016

**LTE band 2 , 20MHz Bandwidth,MID,QPSK (-26dBc BW)**



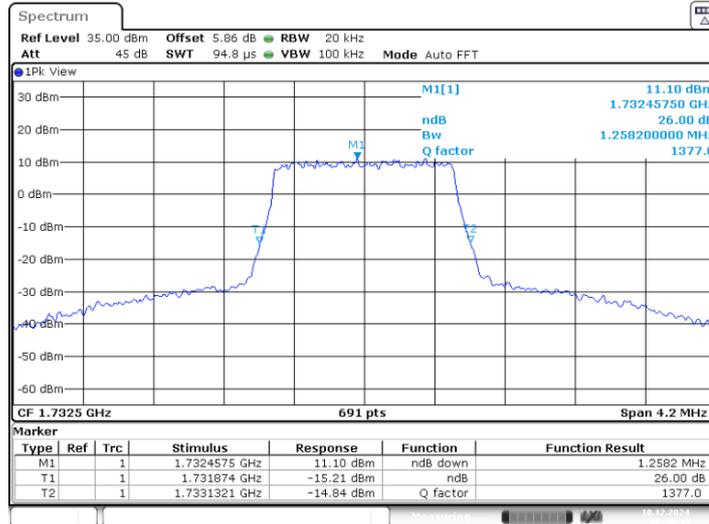
**LTE band 2 , 20MHz Bandwidth,MID,16QAM (-26dBc BW)**



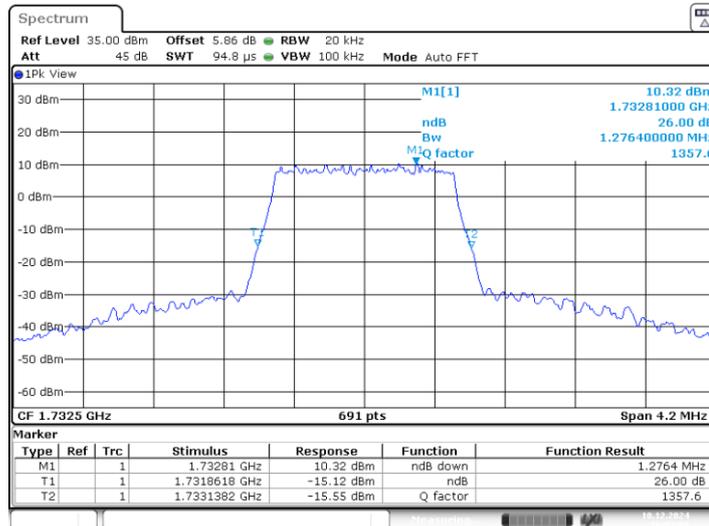
**LTE band 4,1.4MHz(-26dBc)**

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1732.5	1.258	1.276

**LTE band 4 , 1.4MHz Bandwidth,MID,QPSK (-26dBc BW)**



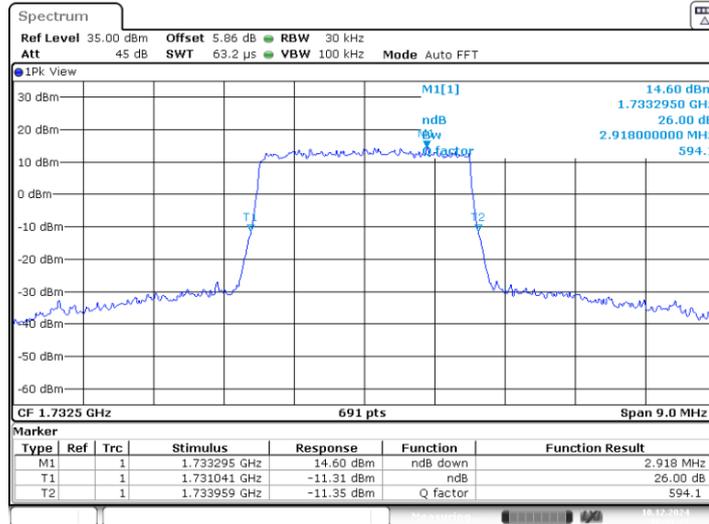
**LTE band 4 , 1.4MHz Bandwidth,MID,16QAM (-26dBc BW)**



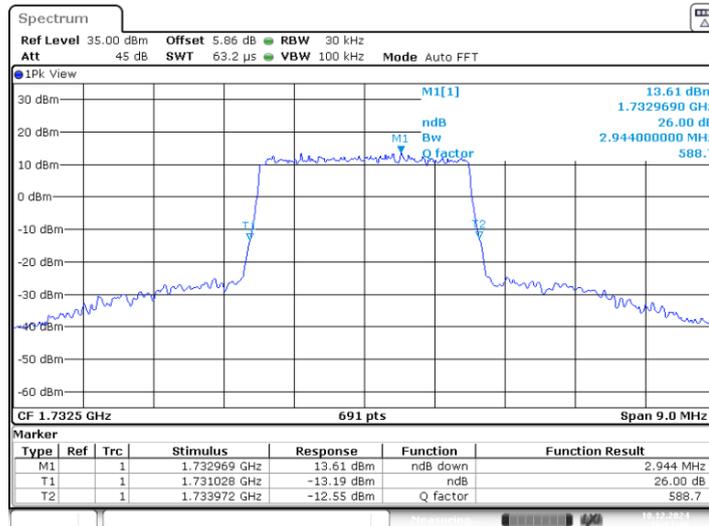
**LTE band 4,3MHz(-26dBc)**

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1732.5	2.918	2.944

**LTE band 4 , 3MHz Bandwidth,MID,QPSK (-26dBc BW)**



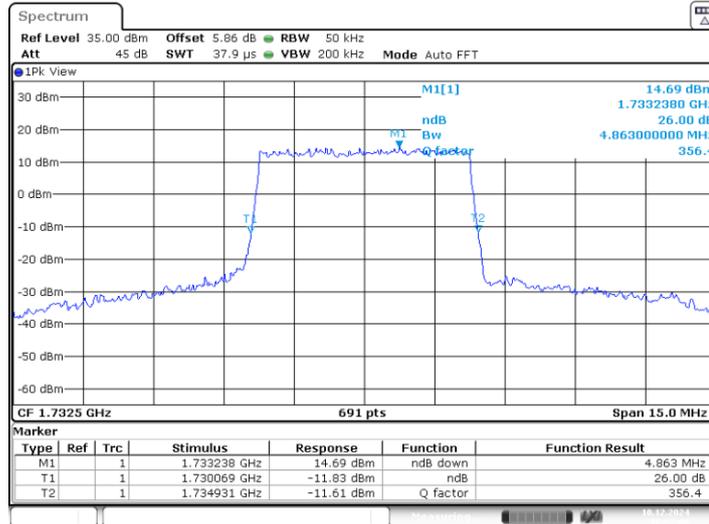
**LTE band 4 , 3MHz Bandwidth,MID,16QAM (-26dBc BW)**



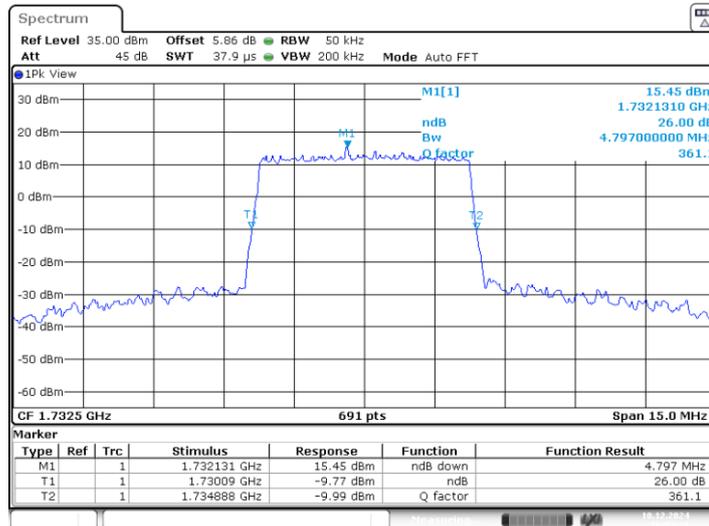
**LTE band 4,5MHz(-26dBc)**

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1732.5	4.863	4.797

**LTE band 4 , 5MHz Bandwidth,MID,QPSK (-26dBc BW)**



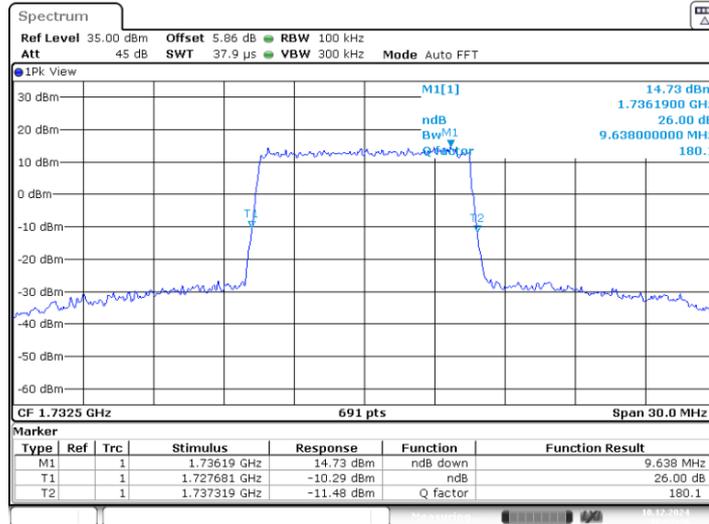
**LTE band 4 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)**



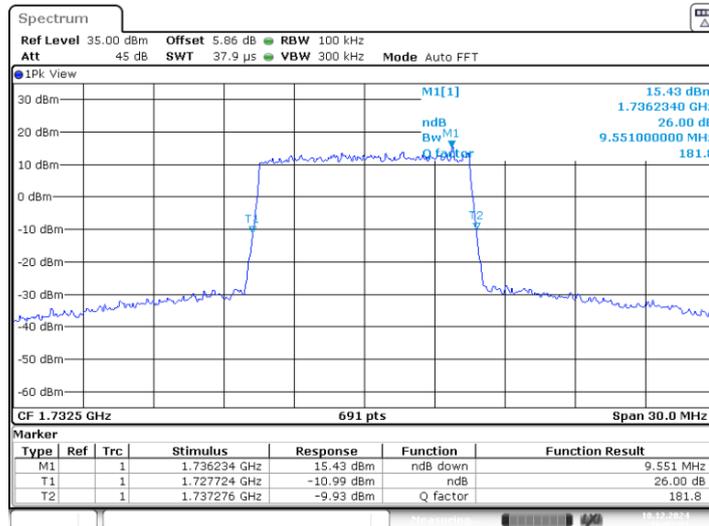
**LTE band 4,10MHz(-26dBc)**

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1732.5	9.638	9.551

**LTE band 4 , 10MHz Bandwidth,MID,QPSK (-26dBc BW)**



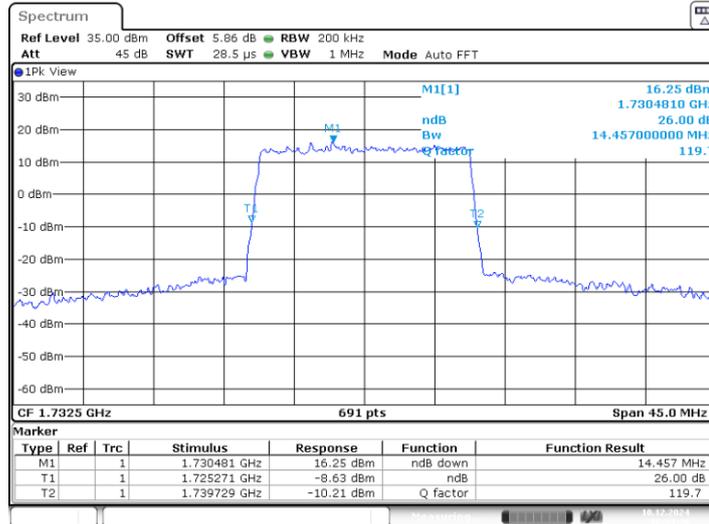
**LTE band 4 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)**



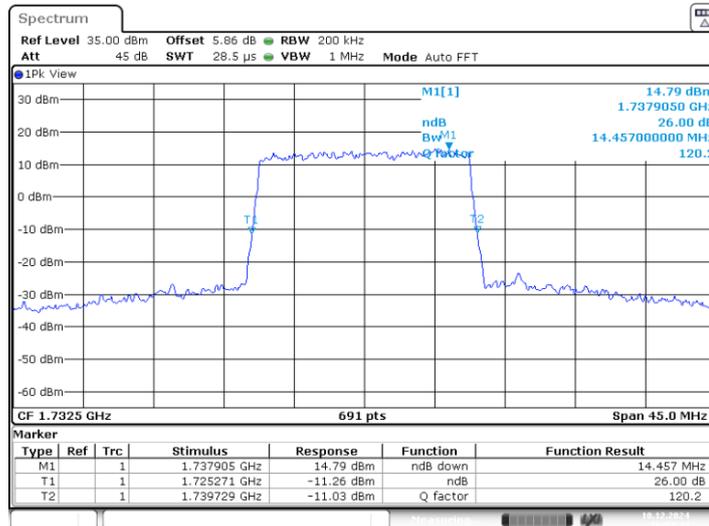
**LTE band 4,15MHz(-26dBc)**

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1732.5	14.457	14.457

**LTE band 4 , 15MHz Bandwidth,MID,QPSK (-26dBc BW)**

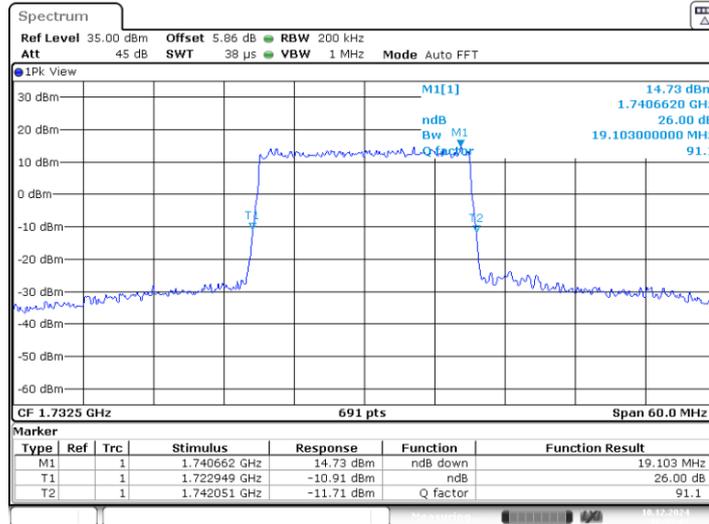
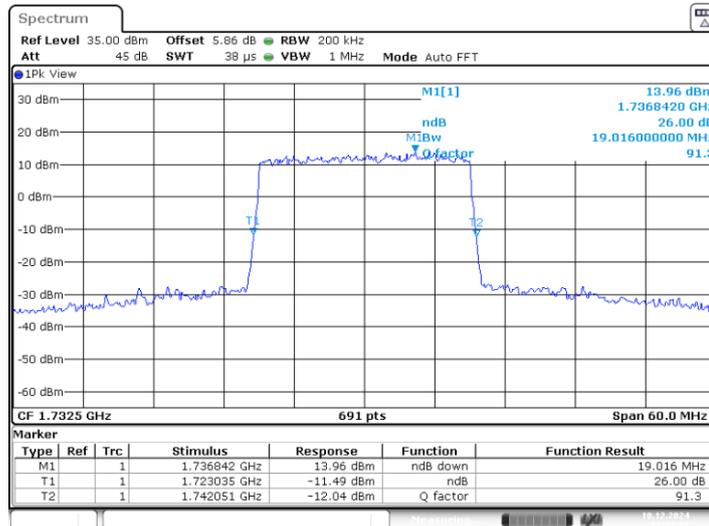


**LTE band 4 , 15MHz Bandwidth,MID,16QAM (-26dBc BW)**



**LTE band 4,20MHz(-26dBc)**

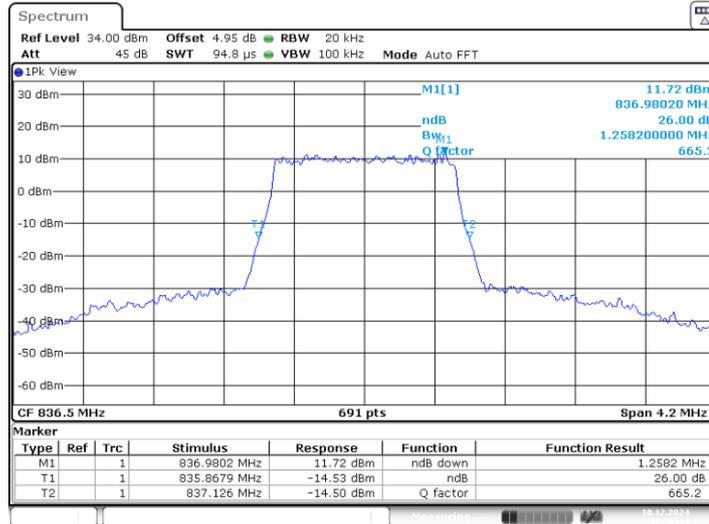
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1732.5	19.103	19.016

**LTE band 4 , 20MHz Bandwidth,MID,QPSK (-26dBc BW)**

**LTE band 4 , 20MHz Bandwidth,MID,16QAM (-26dBc BW)**


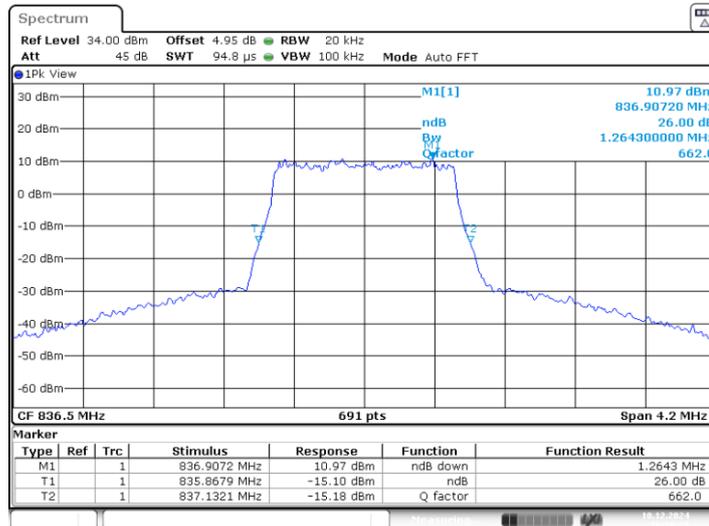
**LTE band 5,1.4MHz(-26dBc)**

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	1.258	1.264

**LTE band 5 , 1.4MHz Bandwidth,MID,QPSK (-26dBc BW)**



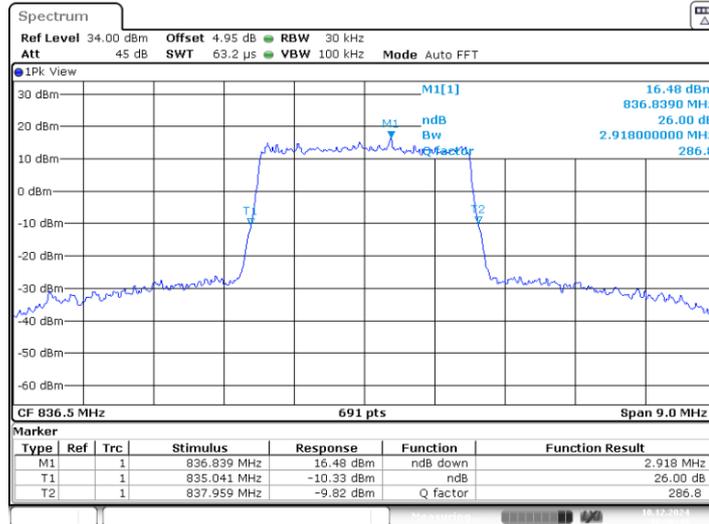
**LTE band 5 , 1.4MHz Bandwidth,MID,16QAM (-26dBc BW)**



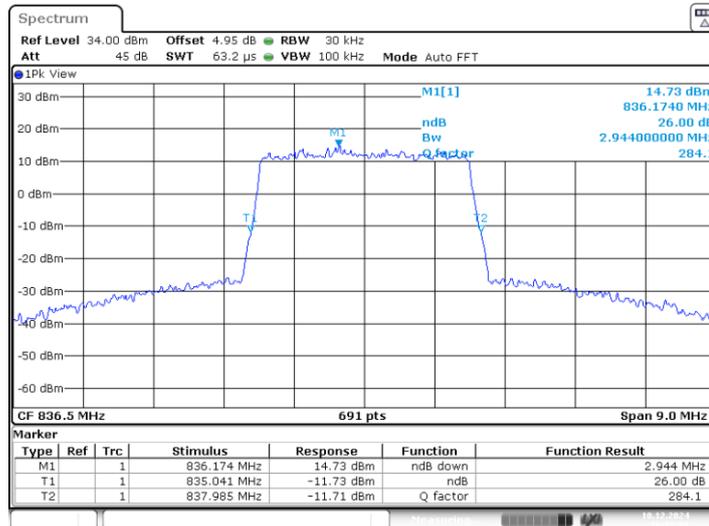
**LTE band 5,3MHz(-26dBc)**

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	2.918	2.944

**LTE band 5 , 3MHz Bandwidth,MID,QPSK (-26dBc BW)**



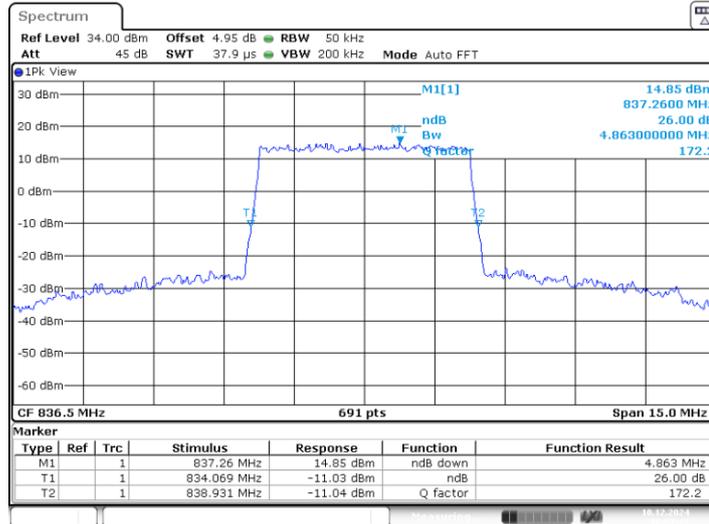
**LTE band 5 , 3MHz Bandwidth,MID,16QAM (-26dBc BW)**



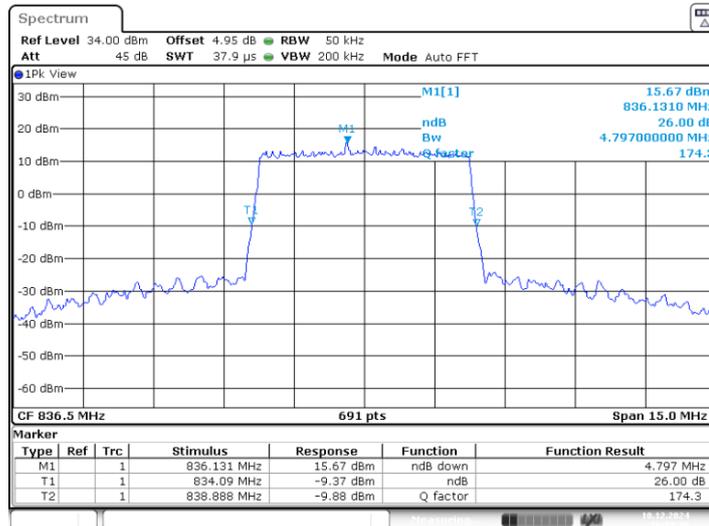
**LTE band 5,5MHz(-26dBc)**

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	4.863	4.797

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



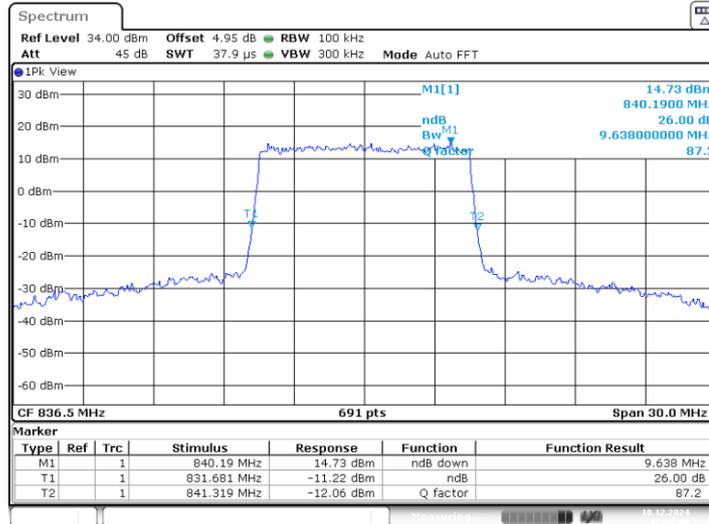
**LTE band 5 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)**



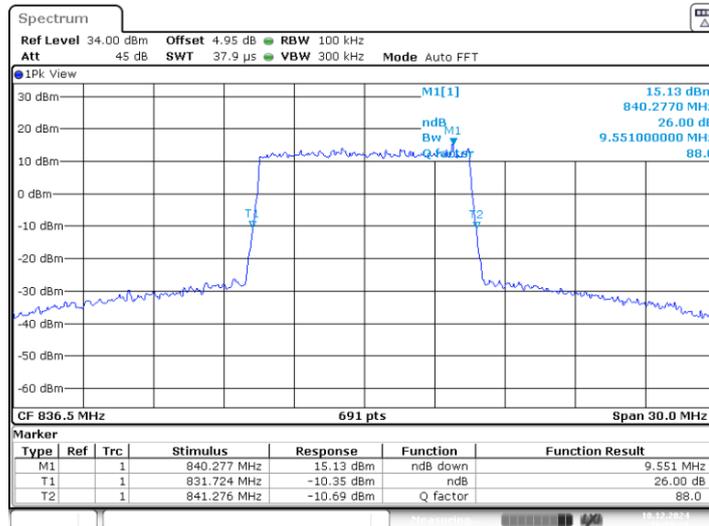
**LTE band 5,10MHz(-26dBc)**

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	9.638	9.551

**LTE band 5 , 10MHz Bandwidth,MID,QPSK (-26dBc BW)**



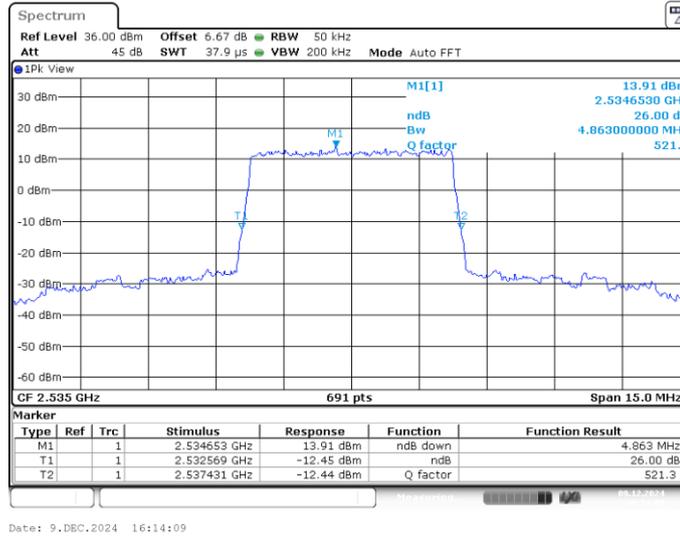
**LTE band 5 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)**



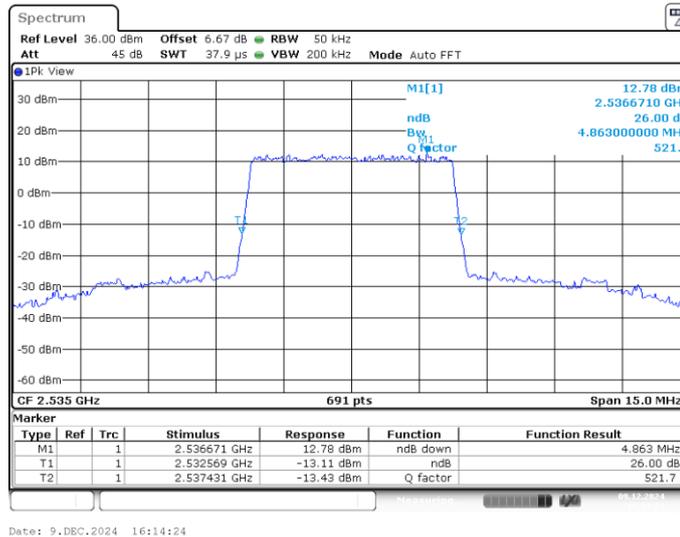
**LTE band 7,5MHz(-26dBc)**

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2535	4.863	4.863

**LTE band 7 , 5MHz Bandwidth,MID,QPSK (-26dBc BW)**



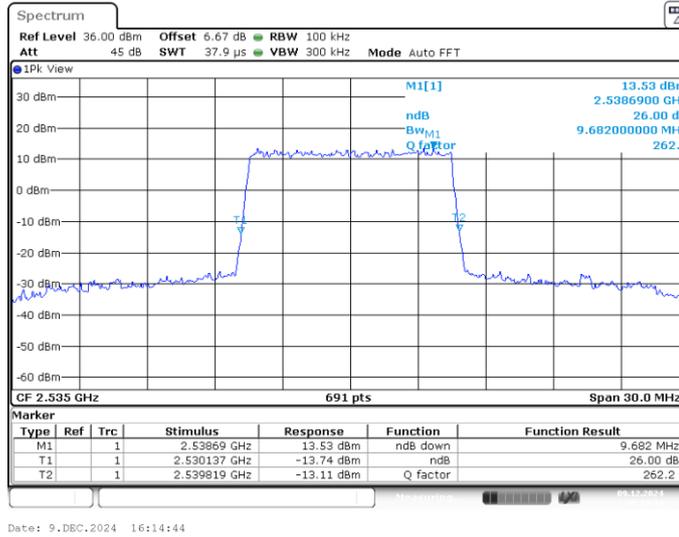
**LTE band 7 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)**



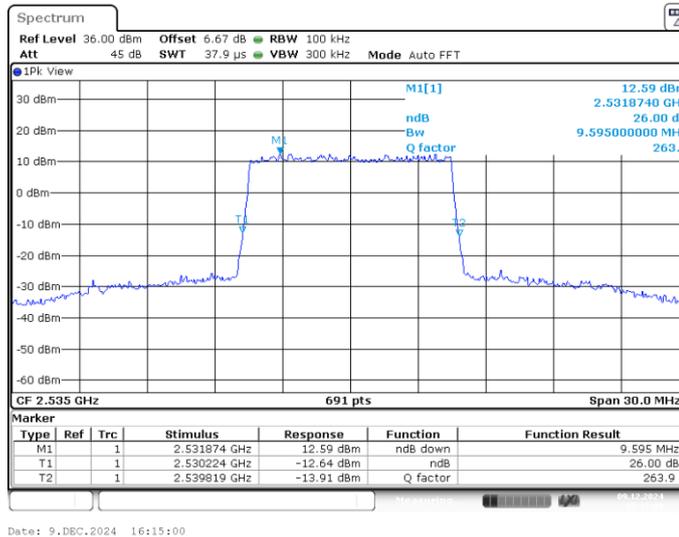
**LTE band 7,10MHz(-26dBc)**

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2535	9.682	9.595

**LTE band 7 , 10MHz Bandwidth,MID,QPSK (-26dBc BW)**



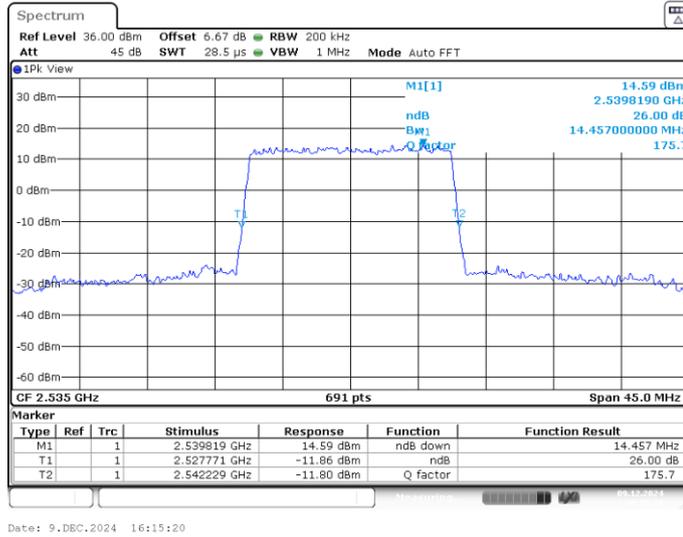
**LTE band 7 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)**



**LTE band 7,15MHz(-26dBc)**

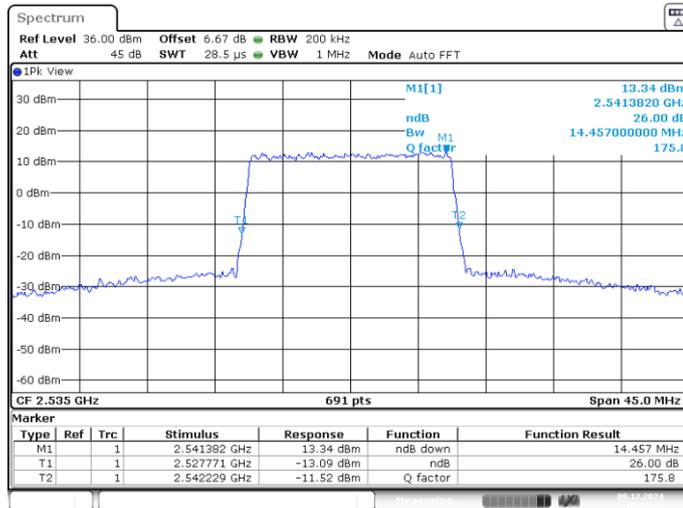
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2535	14.457	14.457

**LTE band 7 , 15MHz Bandwidth,MID,QPSK (-26dBc BW)**



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**LTE band 7 , 15MHz Bandwidth,MID,16QAM (-26dBc BW)**

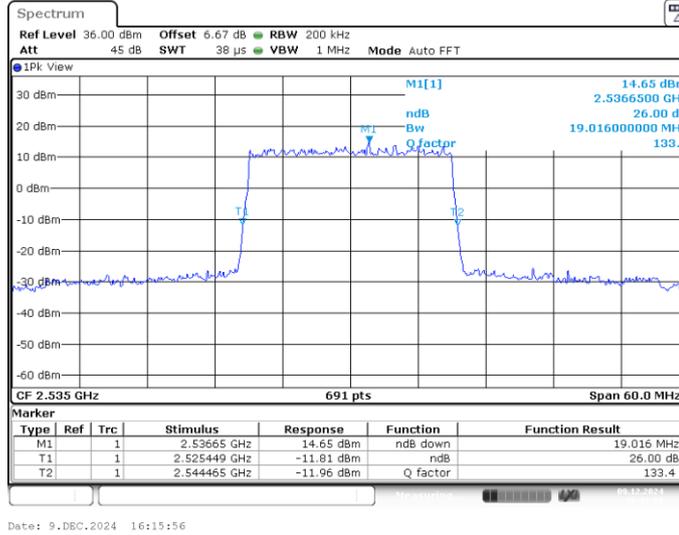


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**LTE band 7,20MHz(-26dBc)**

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2535	19.016	19.016

**LTE band 7 , 20MHz Bandwidth,MID,QPSK (-26dBc BW)**



**LTE band 7 , 20MHz Bandwidth,MID,16QAM (-26dBc BW)**

