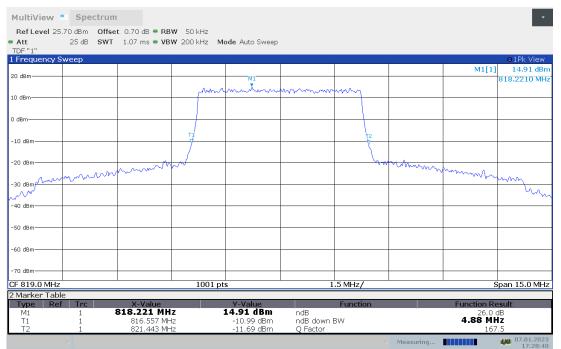


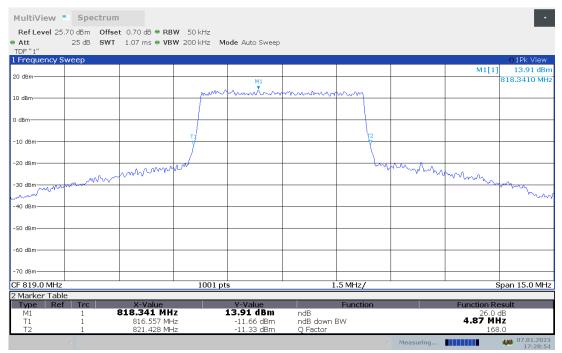
LTE band (814MHz-824MHz),5MHz(-26dBc BW)

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
819	4.885	4.870

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



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

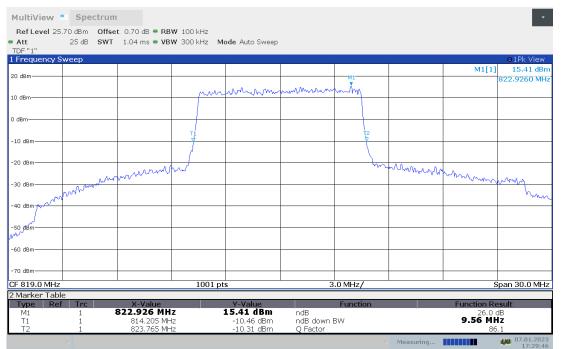




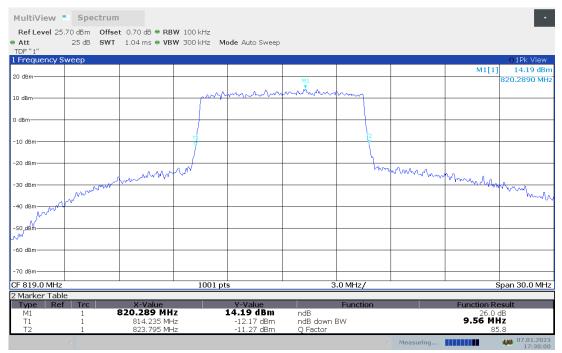
LTE band (814MHz-824MHz),10MHz(-26dBc BW)

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
819	9.560	9.560

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



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

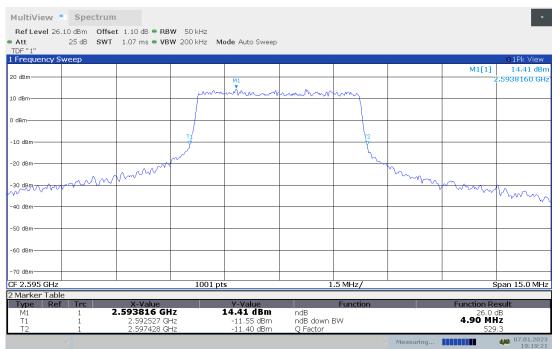




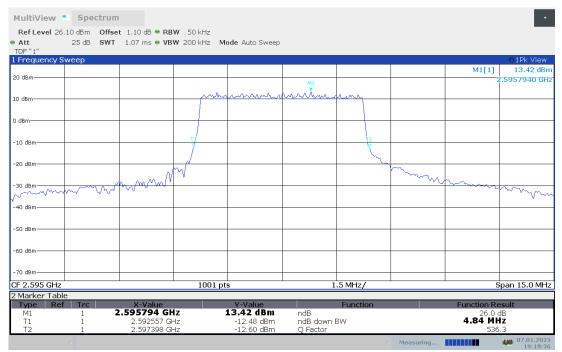
LTE band 38,5MHz(-26dBc BW)

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
2595	4.900	4.840

LTE band 38 , 5MHz Bandwidth,QPSK (-26dBc BW)



LTE band 38, 5MHz Bandwidth,16QAM (-26dBc BW)

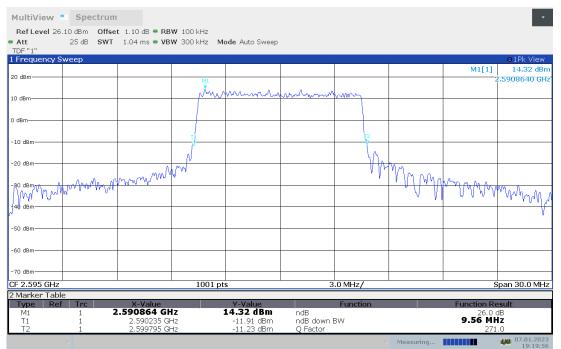




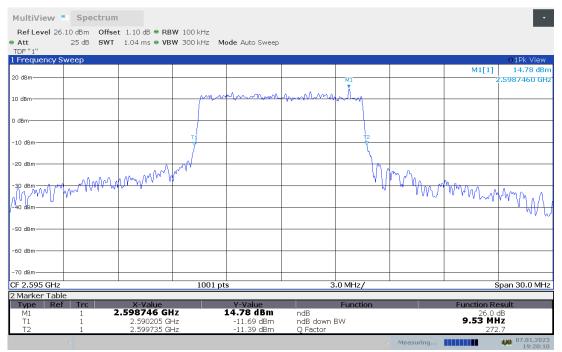
LTE band 38,10MHz(-26dBc BW)

	Emission Bandwidth (-26dBc BW)(MHz)	
Frequency(MHz)	QPSK	16QAM
2595	9.560	9.530

LTE band 38 , 10MHz Bandwidth, QPSK (-26dBc BW)



LTE band 38, 10MHz Bandwidth,16QAM (-26dBc BW)

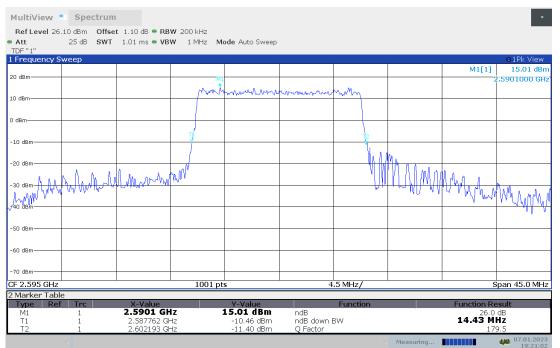




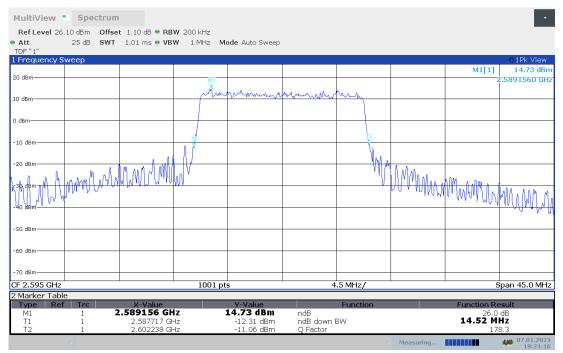
LTE band 38,15MHz(-26dBc BW)

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
2595	14.431	14.520

LTE band 38 , 15MHz Bandwidth, QPSK (-26dBc BW)



LTE band 38, 15MHz Bandwidth,16QAM (-26dBc BW)

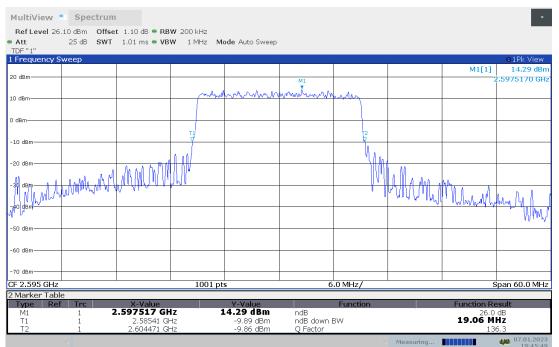




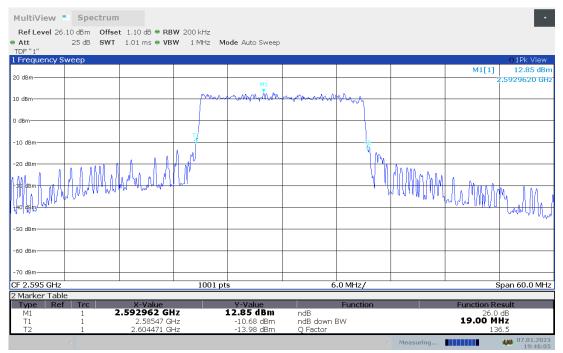
LTE band 38,20MHz(-26dBc BW)

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
2595	19.061	19.001

LTE band 38 , 20MHz Bandwidth, QPSK (-26dBc BW)



LTE band 38, 20MHz Bandwidth,16QAM (-26dBc BW)





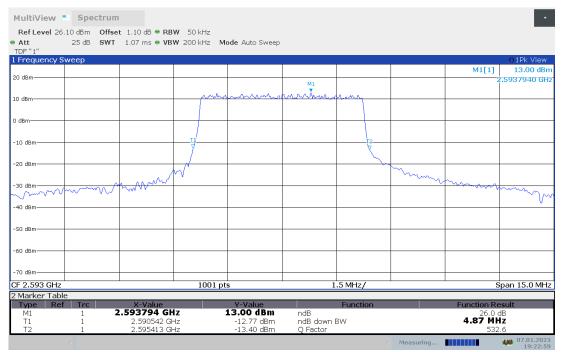
LTE band 41,5MHz(-26dBc BW)

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
2593	4.900	4.870

LTE band 41 , 5MHz Bandwidth,QPSK (-26dBc BW)



LTE band 41, 5MHz Bandwidth,16QAM (-26dBc BW)

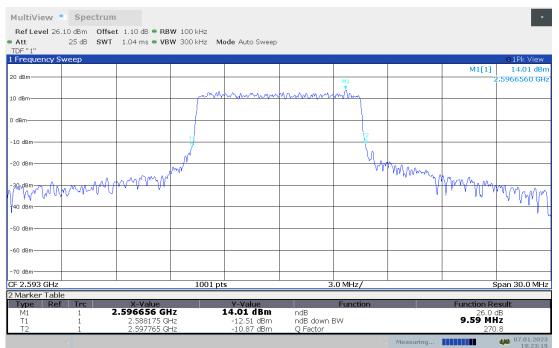




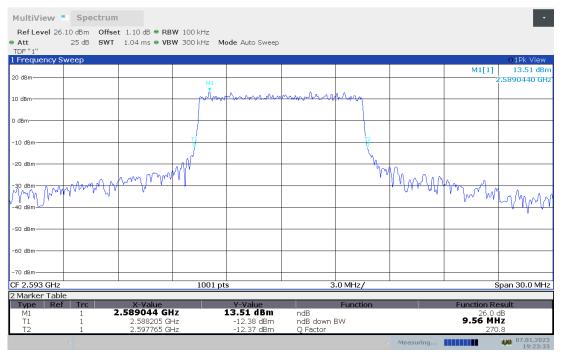
LTE band 41,10MHz(-26dBc BW)

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
2593	9.590	9.560

LTE band 41 , 10MHz Bandwidth,QPSK (-26dBc BW)



LTE band 41, 10MHz Bandwidth,16QAM (-26dBc BW)

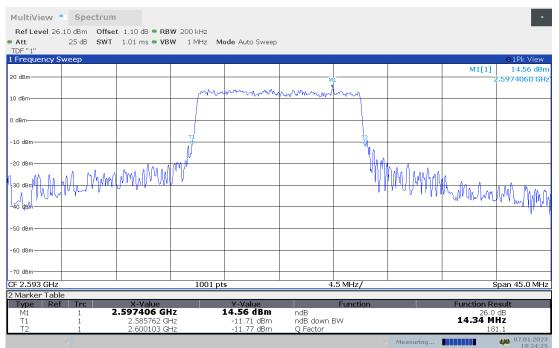




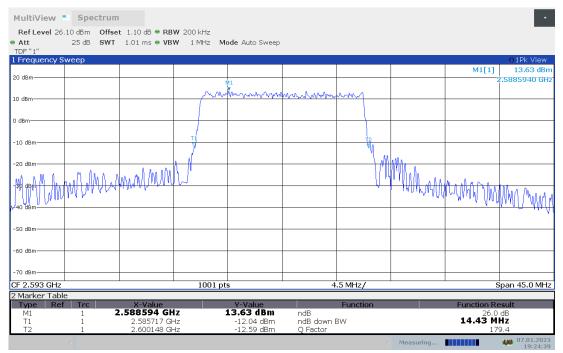
LTE band 41,15MHz(-26dBc BW)

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
2593	14.341	14.431

LTE band 41, 15MHz Bandwidth, QPSK (-26dBc BW)



LTE band 41 , 15MHz Bandwidth,16QAM (-26dBc BW)





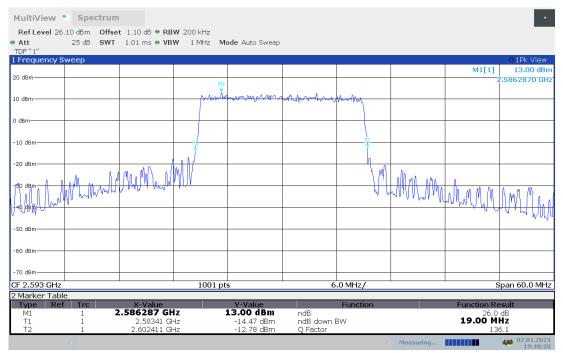
LTE band 41,20MHz(-26dBc BW)

	Emission Bandwidth (-26dBc BW)(MHz)	
Frequency(MHz)	QPSK	16QAM
2593	19.001	19.001

LTE band 41 , 20MHz Bandwidth,QPSK (-26dBc BW)



LTE band 41, 20MHz Bandwidth,16QAM (-26dBc BW)





LTE band 66,1.4MHz(-26dBc BW)

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1745	1.271	1.267

LTE band 66 , 1.4MHz Bandwidth,QPSK (-26dBc BW)



LTE band 66 , 1.4MHz Bandwidth,16QAM (-26dBc BW)

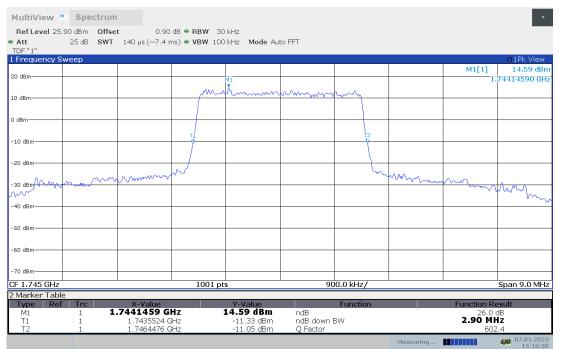




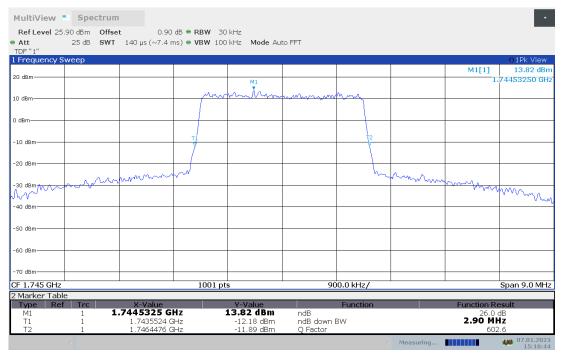
LTE band 66,3MHz(-26dBc BW)

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1745	2.895	2.895

LTE band 66, 3MHz Bandwidth,QPSK (-26dBc BW)



LTE band 66, 3MHz Bandwidth, 16QAM (-26dBc BW)

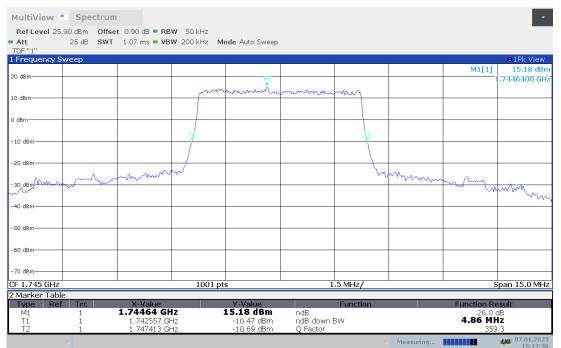




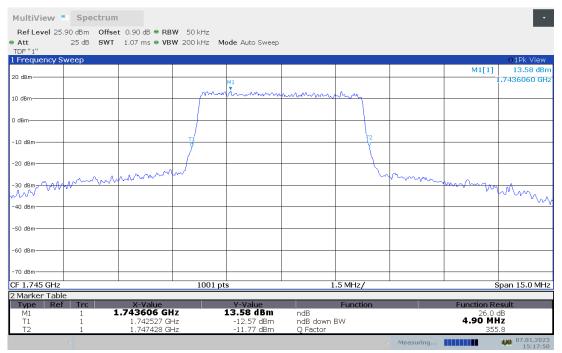
LTE band 66,5MHz(-26dBc BW)

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)			
	QPSK	16QAM		
1745	4.855	4.900		

LTE band 66 , 5MHz Bandwidth,QPSK (-26dBc BW)



LTE band 66 , 5MHz Bandwidth,16QAM (-26dBc BW)

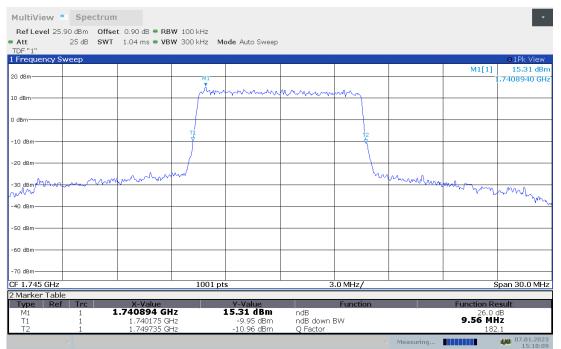




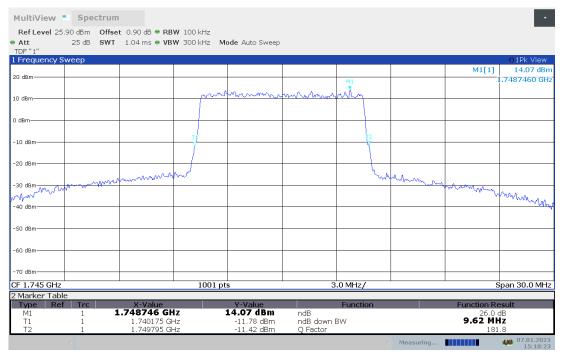
LTE band 66,10MHz(-26dBc BW)

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)			
	QPSK	16QAM		
1745	9.560	9.620		

LTE band 66 , 10MHz Bandwidth,QPSK (-26dBc BW)



LTE band 66 , 10MHz Bandwidth,16QAM (-26dBc BW)

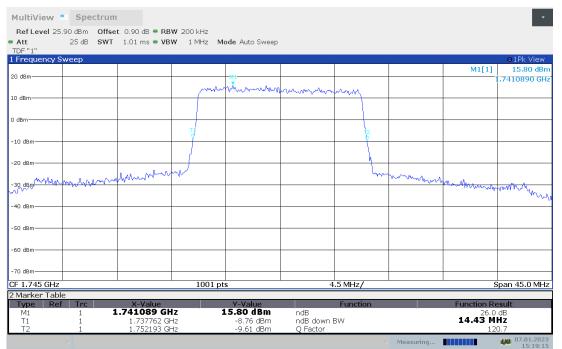




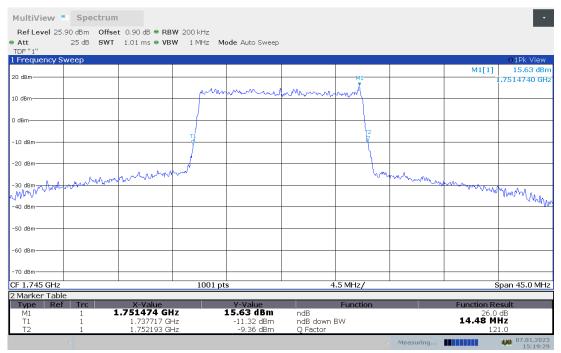
LTE band 66,15MHz(-26dBc BW)

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)			
	QPSK	16QAM		
1745	14.431	14.476		

LTE band 66 , 15MHz Bandwidth,QPSK (-26dBc BW)



LTE band 66 , 15MHz Bandwidth,16QAM (-26dBc BW)

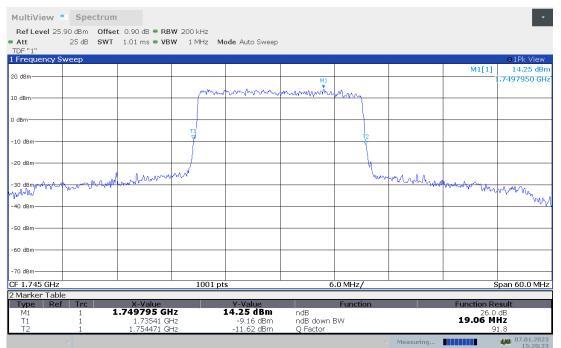




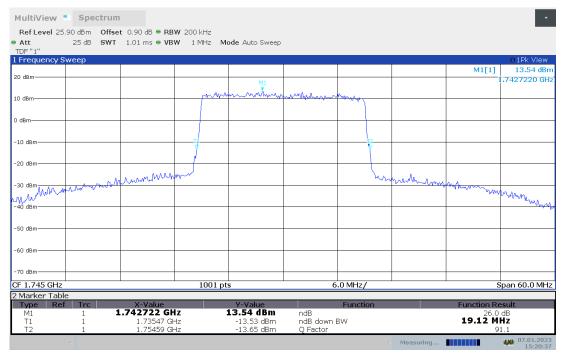
LTE band 66,20MHz(-26dBc BW)

Frequency/(MHz)	Emission Bandwidth (-26dBc BW)(MHz)			
Frequency(MHz)	QPSK	16QAM		
1745	19.061	19.121		

LTE band 66 , 20MHz Bandwidth,QPSK (-26dBc BW)



LTE band 66 , 20MHz Bandwidth,16QAM (-26dBc BW)

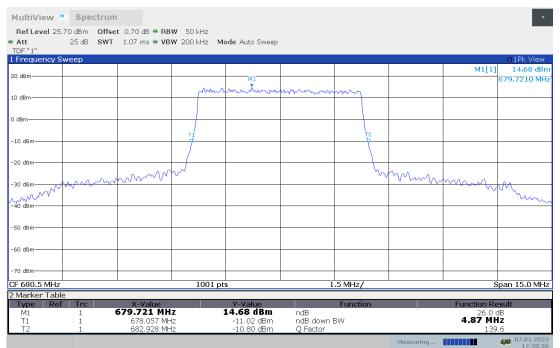




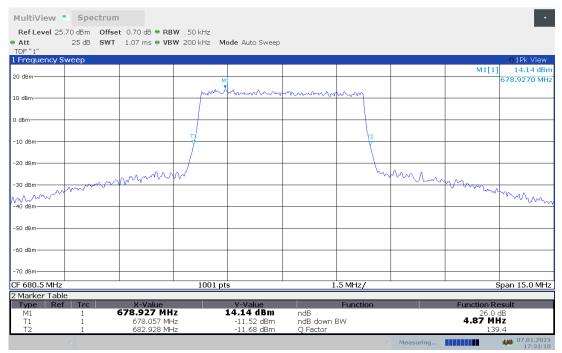
LTE band 71,5MHz(-26dBc BW)

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)			
	QPSK	16QAM		
680.5	4.870	4.870		

LTE band 71 , 5MHz Bandwidth,QPSK (-26dBc BW)



LTE band 71, 5MHz Bandwidth,16QAM (-26dBc BW)

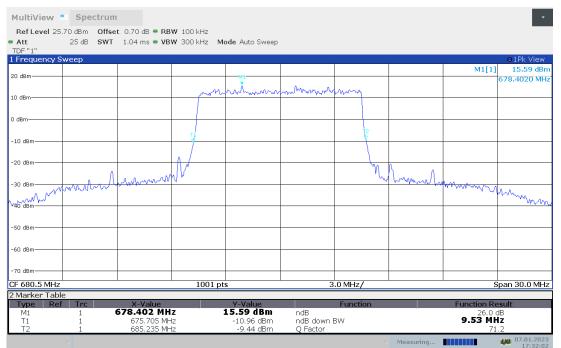




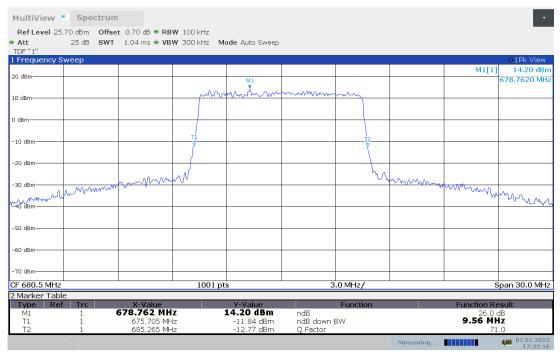
LTE band 71,10MHz(-26dBc BW)

Fraguanov/MHz)	Emission Bandwidth (-26dBc BW)(MHz)			
Frequency(MHz)	QPSK	16QAM		
680.5	9.530	9.560		

LTE band 71 , 10MHz Bandwidth,QPSK (-26dBc BW)



LTE band 71, 10MHz Bandwidth,16QAM (-26dBc BW)





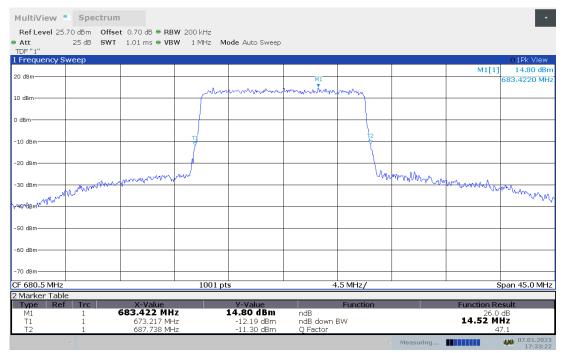
LTE band 71,15MHz(-26dBc BW)

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)			
	QPSK	16QAM		
680.5	14.431	14.520		

LTE band 71 , 15MHz Bandwidth,QPSK (-26dBc BW)



LTE band 71, 15MHz Bandwidth, 16QAM (-26dBc BW)

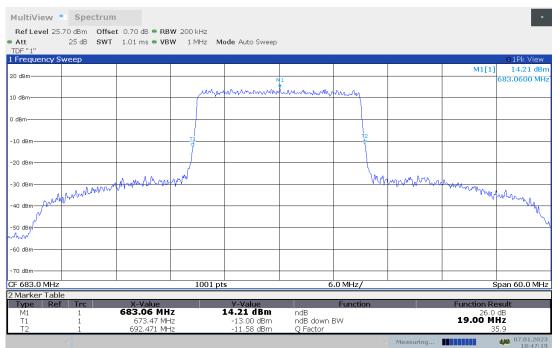




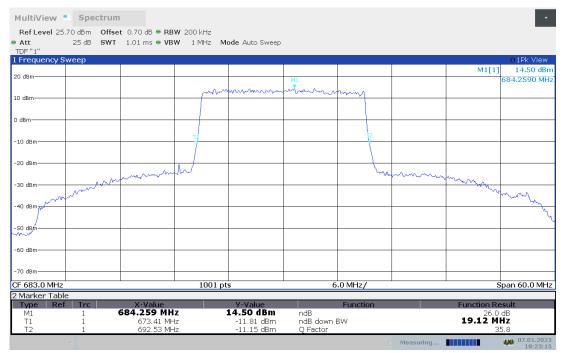
LTE band 71,20MHz(-26dBc BW)

Frequency/(MHz)	Emission Bandwidth (-26dBc BW)(MHz)			
Frequency(MHz)	QPSK	16QAM		
683	19.001	19.121		

LTE band 71, 20MHz Bandwidth, QPSK (-26dBc BW)



LTE band 71, 20MHz Bandwidth,16QAM (-26dBc BW)



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



A.5 BAND EDGE COMPLIANCE

A.5.1 Measurement limit

Part 22.917,Part 24.238 and Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10 log(P) dB.

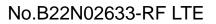
Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than 40+ 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43+10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55+10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43+10log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55+10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 +10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Part 27.53(c) states for operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 +10 log (P) dB;(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 +10 log (P) dB;(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 +10 log (P) dB;(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65+10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43+10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Part 90.691 states that out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows: For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50+10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed





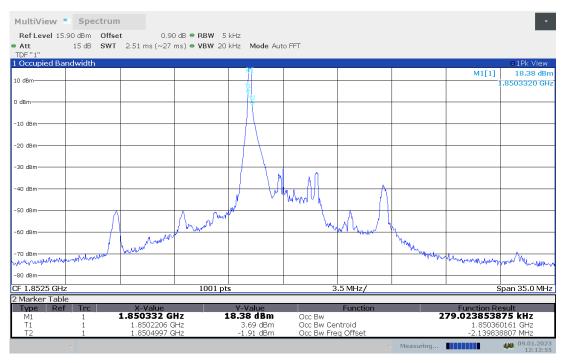
from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43+10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

The spectrum analyzer readings are corrected by [10 log (1/duty cycle)] for the non-continuous transmitting scenario.

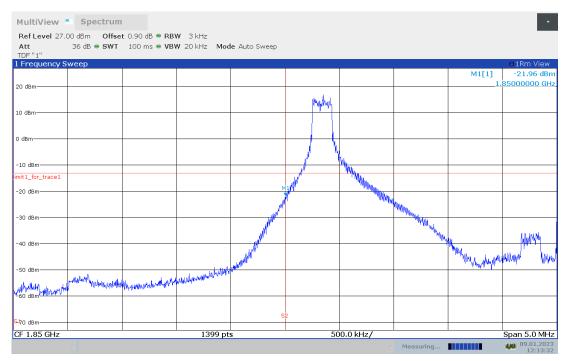


A.5.2Measurement Procedure Only worst case result is given below LTE band 2

OBW: 1RB-LOW_offset



LOW BAND EDGE BLOCK-1RB-LOW_offset

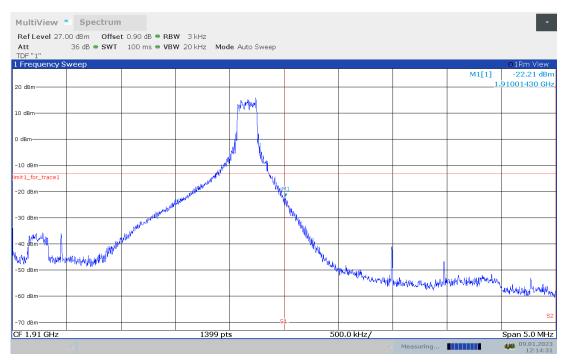




OBW: 1RB-HIGH_offset

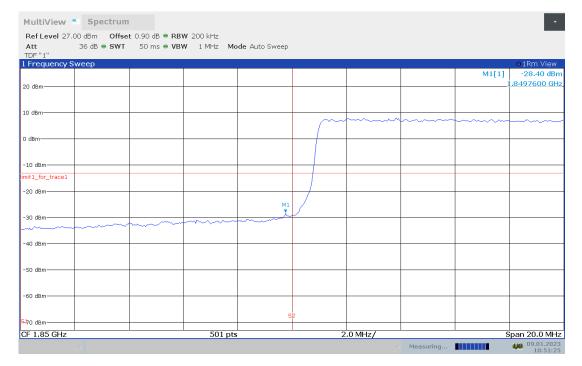


HIGH BAND EDGE BLOCK-1RB-HIGH_offset

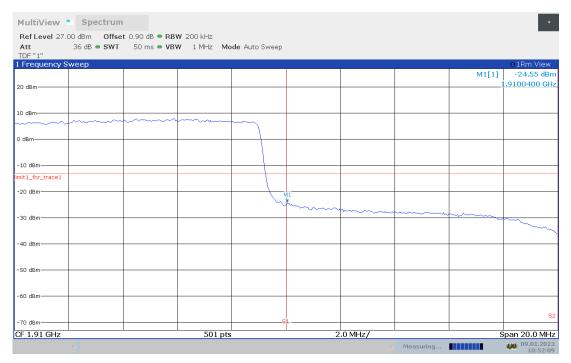




LOW BAND EDGE BLOCK-20M-100%RB



HIGH BAND EDGE BLOCK-20M-100%RB



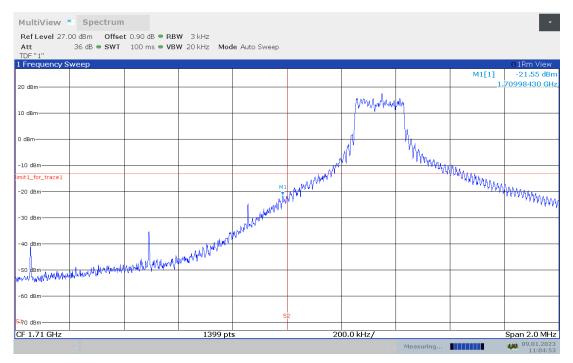


LTE band 4

OBW: 1RB-LOW_offset

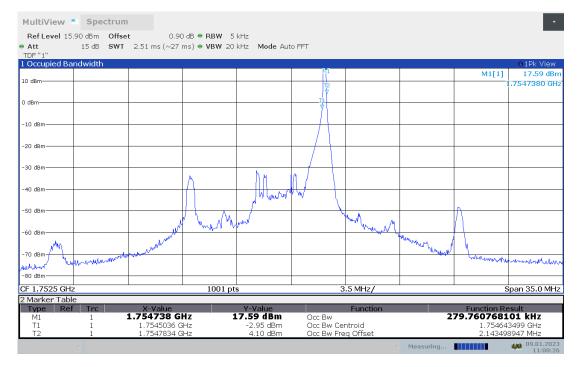


LOW BAND EDGE BLOCK-1RB-LOW_offset

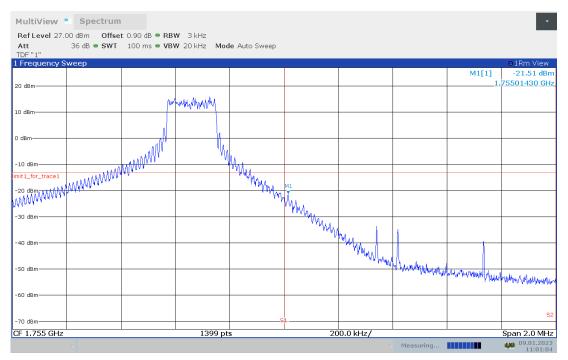




OBW: 1RB-HIGH_offset

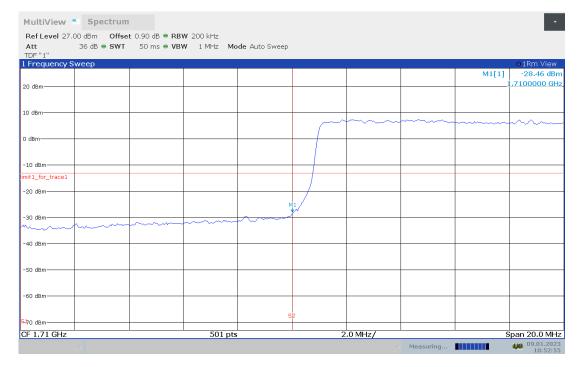


HIGH BAND EDGE BLOCK-1RB-HIGH_offset

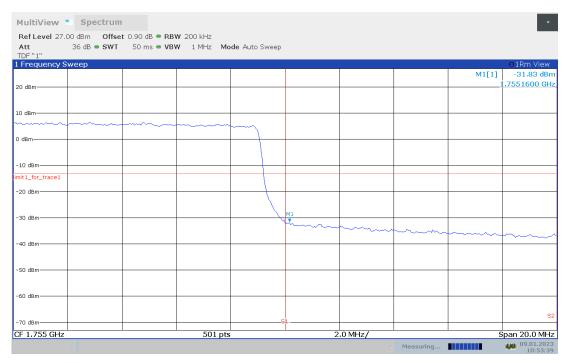




LOW BAND EDGE BLOCK-20M-100%RB



HIGH BAND EDGE BLOCK-20M-100%RB



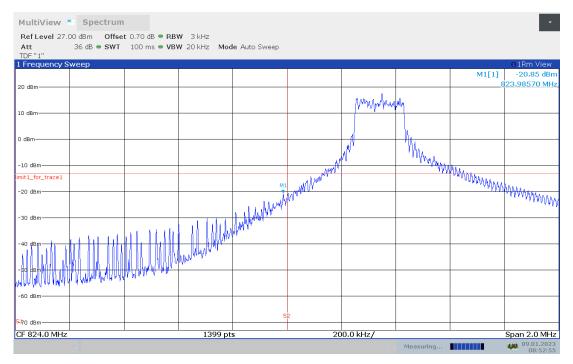


LTE band 5

OBW: 1RB-LOW_offset



LOW BAND EDGE BLOCK-1RB-LOW_offset

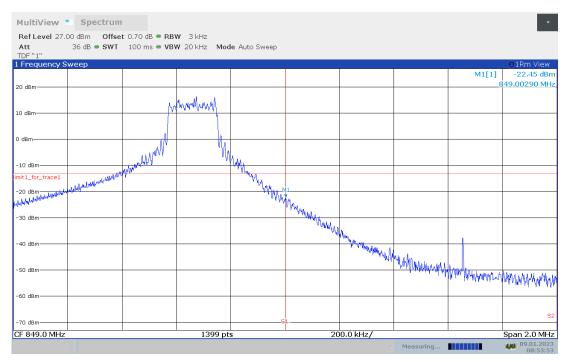




OBW: 1RB-HIGH_offset

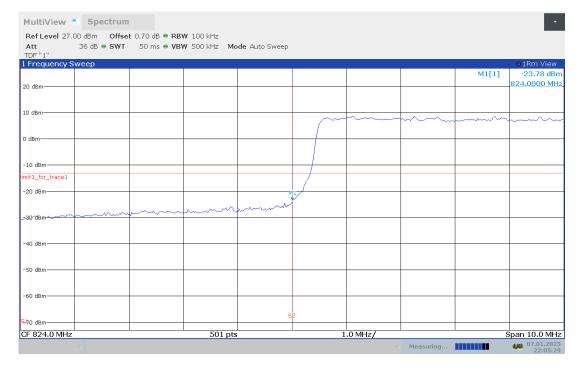


HIGH BAND EDGE BLOCK-1RB-HIGH_offset

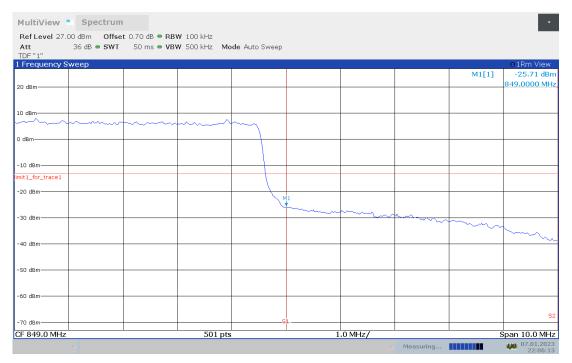




LOW BAND EDGE BLOCK-10M-100%RB



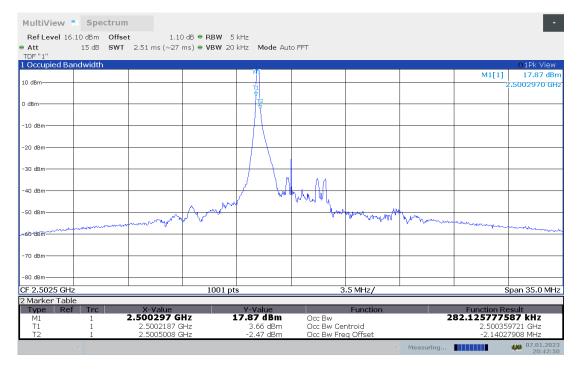
HIGH BAND EDGE BLOCK-10M-100%RB



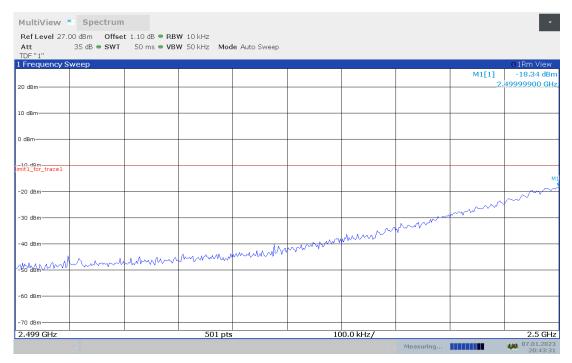


LTE band 7

OBW: 1RB-LOW_offset

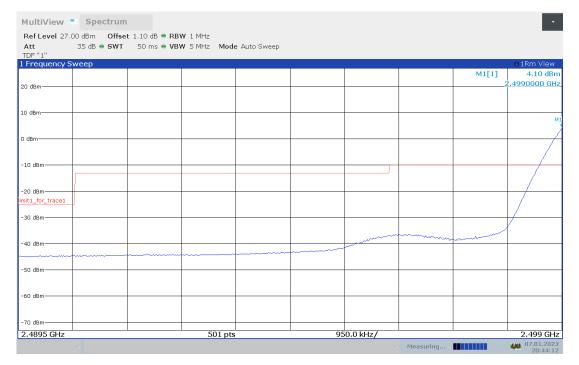


LOW BAND EDGE BLOCK-1RB-LOW_offset

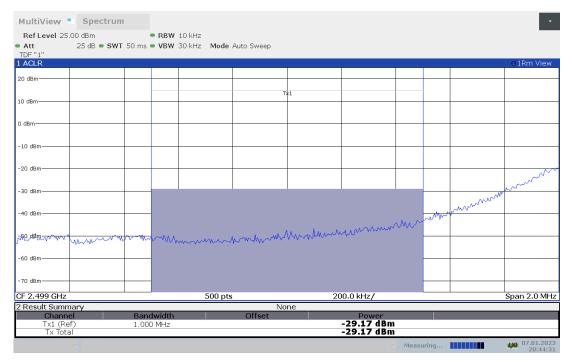




LOW BAND EDGE BLOCK-1RB-LOW_offset

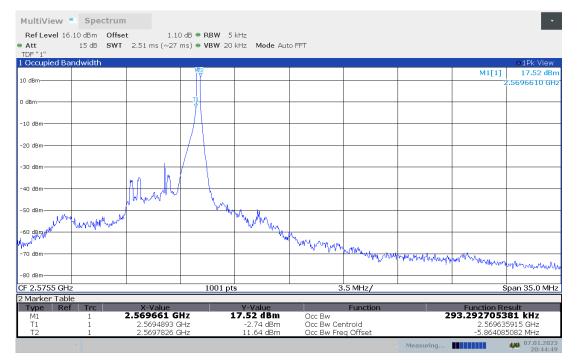


Channel power

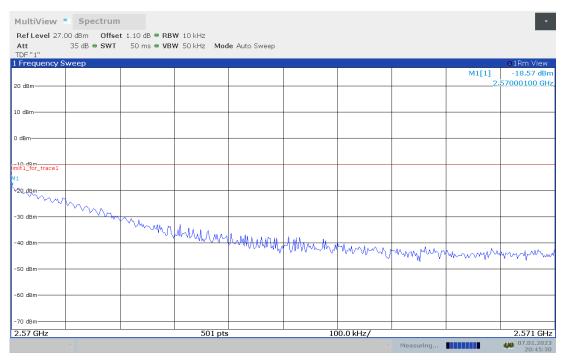




OBW: 1RB-HIGH_offset

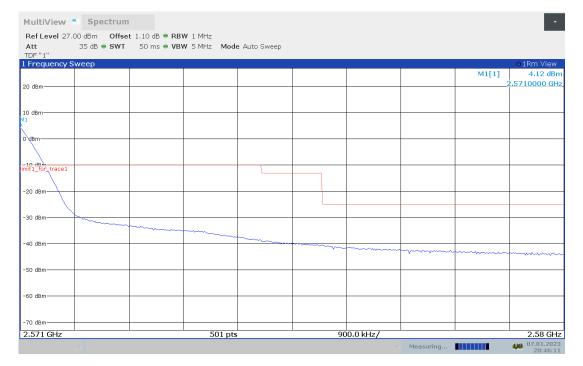


HIGH BAND EDGE BLOCK-1RB-HIGH_offset

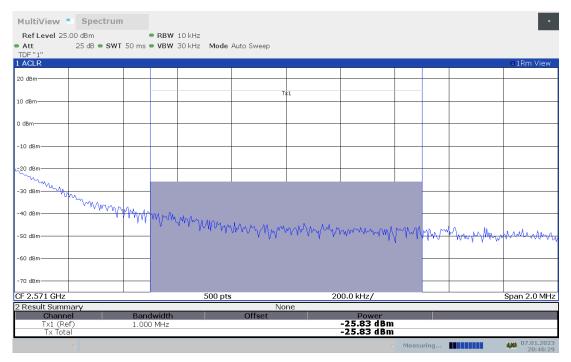




HIGH BAND EDGE BLOCK-1RB-HIGH_offset

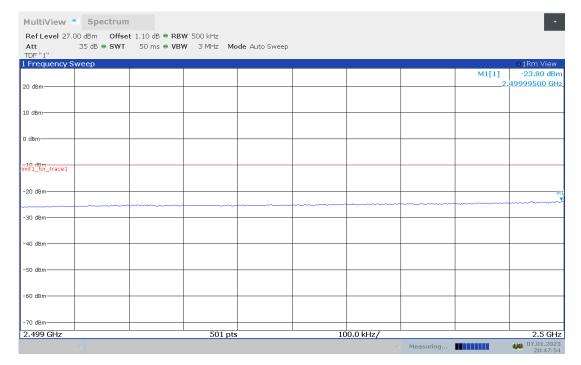


Channel power





LOW BAND EDGE BLOCK-20M-100%RB

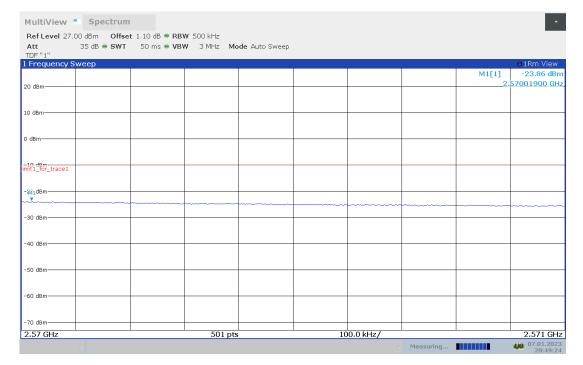


LOW BAND EDGE BLOCK-20M-100%RB

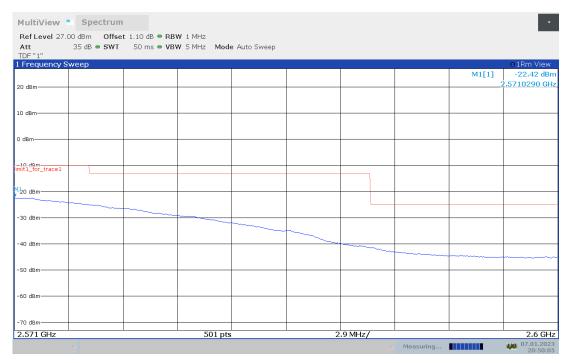
Att TDF "1" I Frequency S		50 ms 👄 VE	3W 5 MHz Mod	e Auto Sweep			o1Rm View
Frequency S	weep					M1[1]	-22.91 dB
0 dBm							2.4989910 GH
0 dBm							
dBm							
10 dBm					Г		
20 dBm							
nit1_for_trace1	J		+		 	 	
30 dBm							
40 dBm							
50 dBm							
60 dBm							
-70 dBm							
2.4895 GHz			501 pts		 50.0 kHz/		2.499 GH



HIGH BAND EDGE BLOCK-20M-100%RB

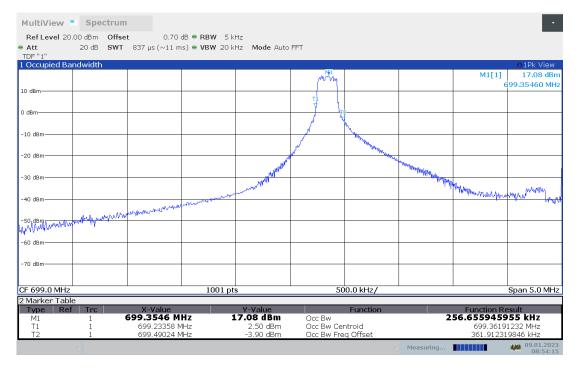


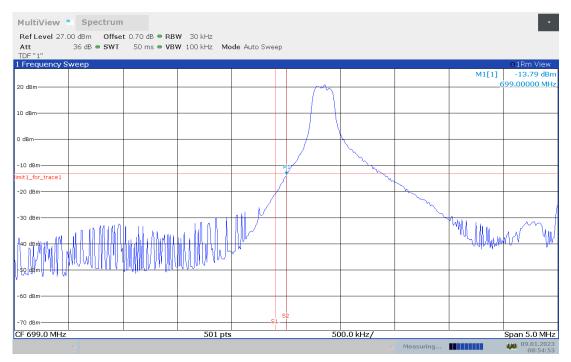
HIGH BAND EDGE BLOCK-20M-100%RB



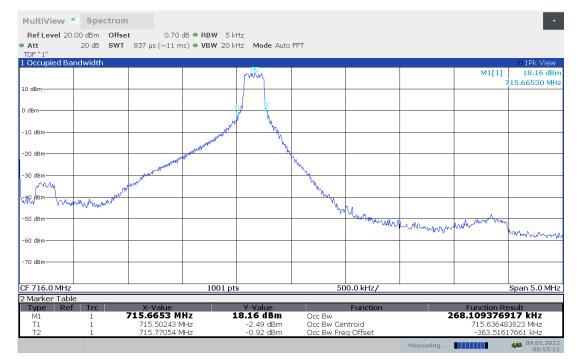


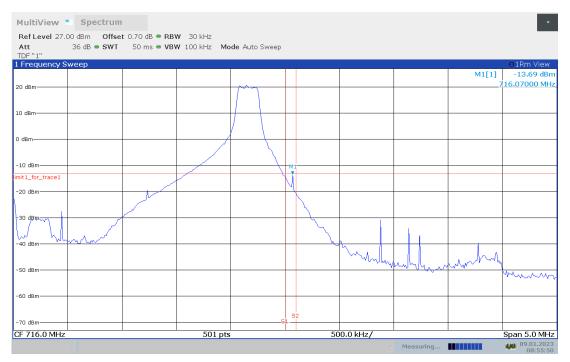
OBW: 1RB-LOW_offset





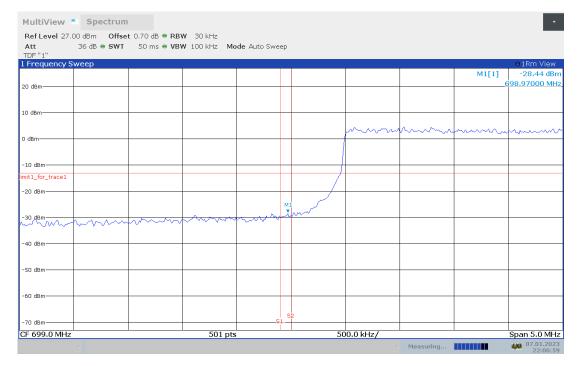




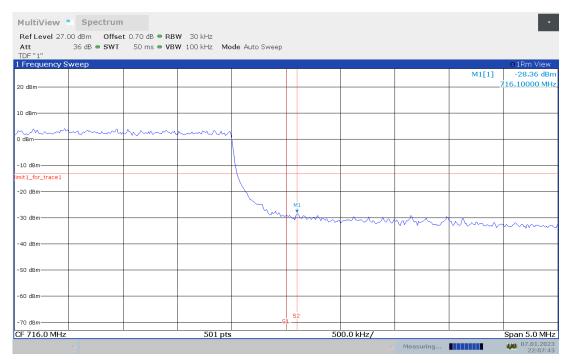




LOW BAND EDGE BLOCK-10M-100%RB



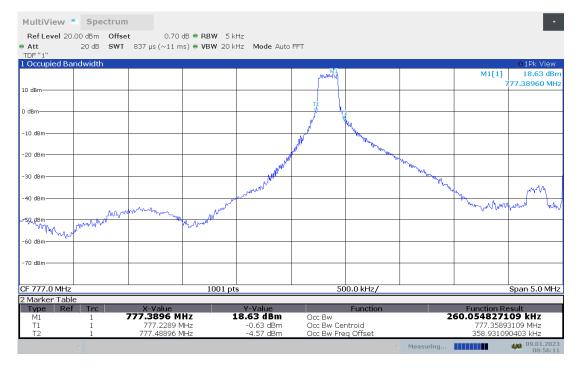
HIGH BAND EDGE BLOCK-10M-100%RB

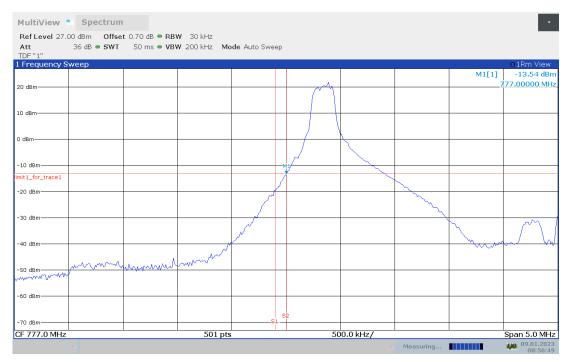




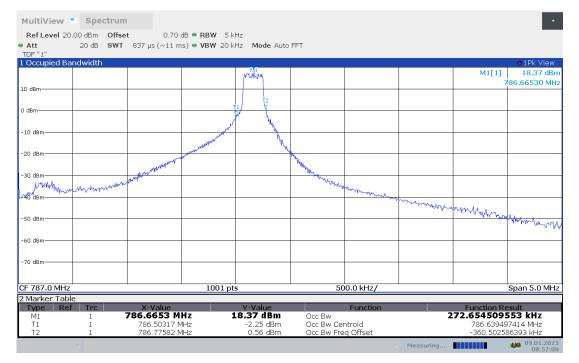


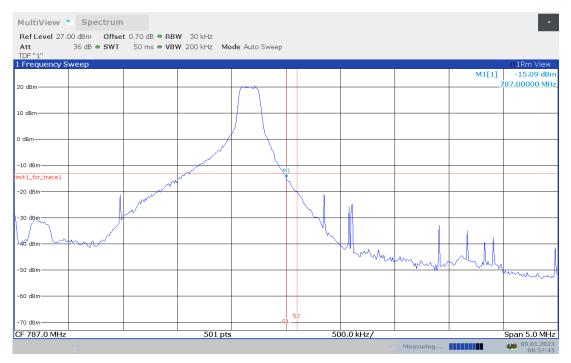
OBW: 1RB-LOW_offset





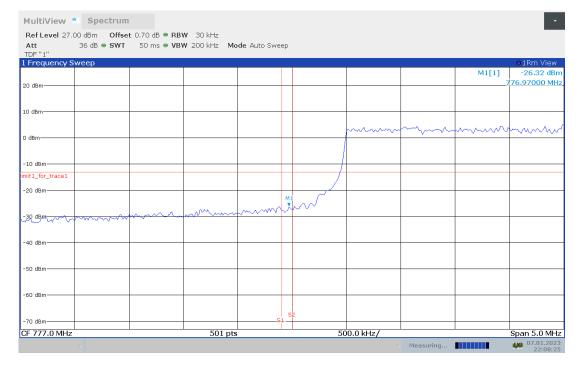




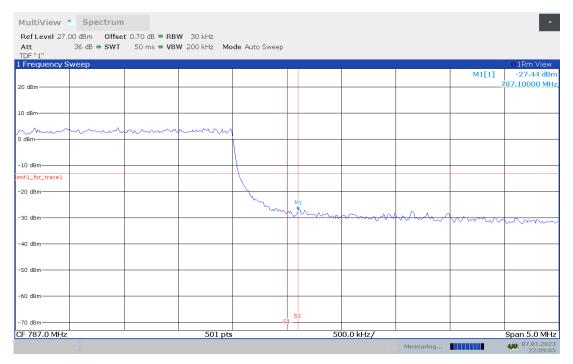


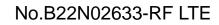


LOW BAND EDGE BLOCK-10M-100%RB



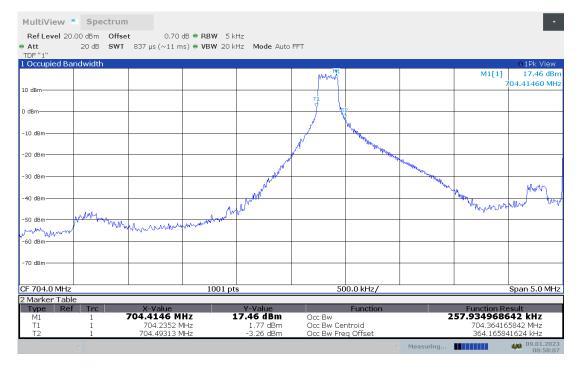
HIGH BAND EDGE BLOCK-10M-100%RB

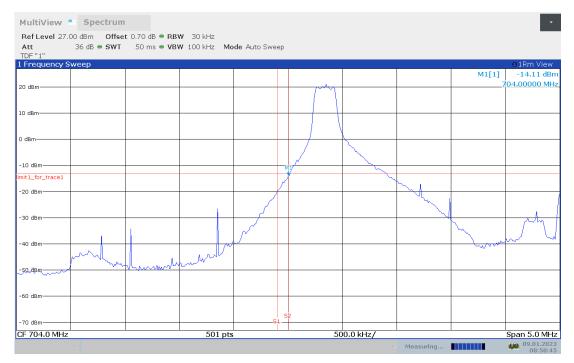






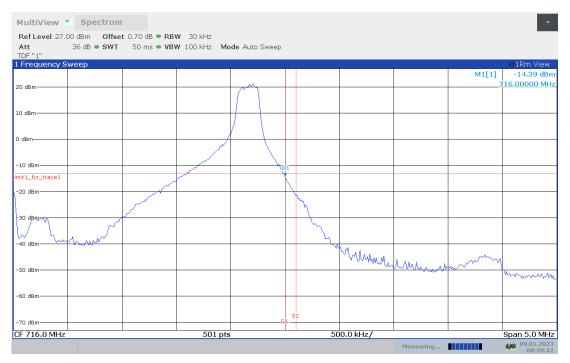
OBW: 1RB-LOW_offset





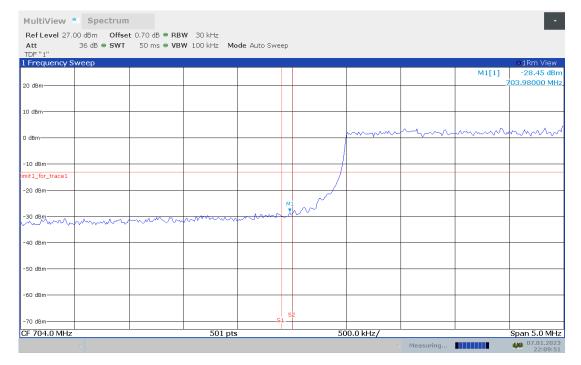




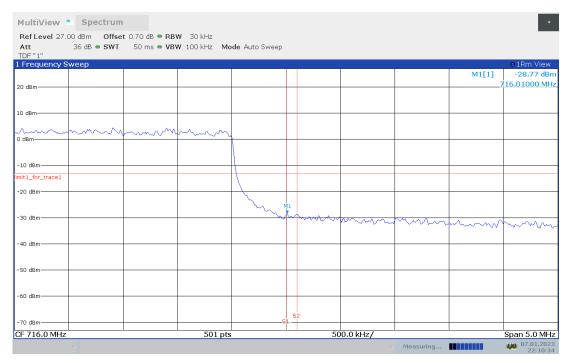




LOW BAND EDGE BLOCK-10M-100%RB

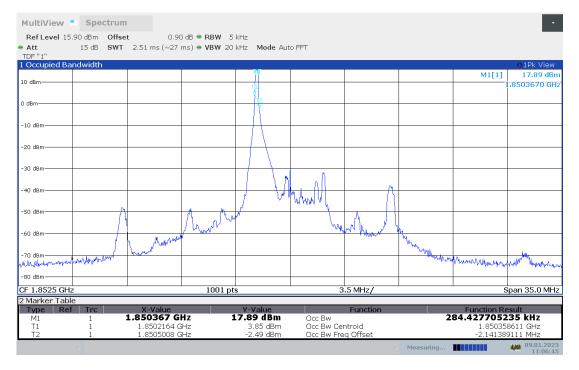


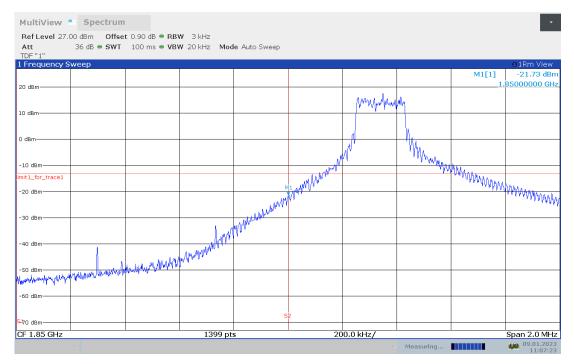
HIGH BAND EDGE BLOCK-10M-100%RB



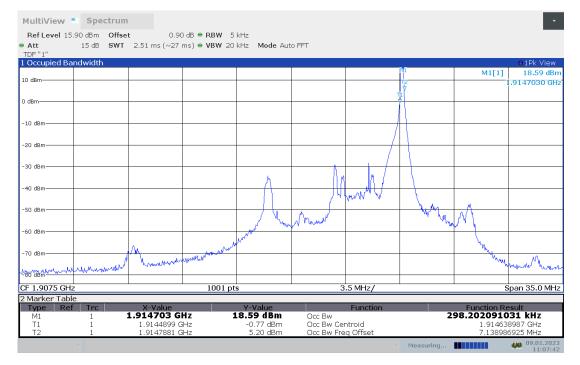


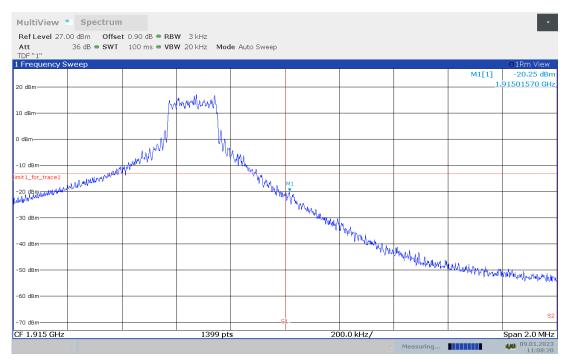
OBW: 1RB-LOW_offset





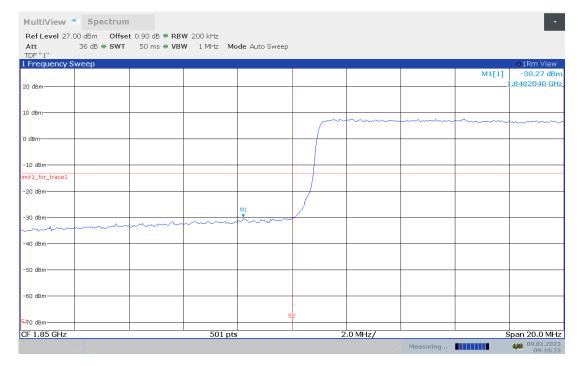




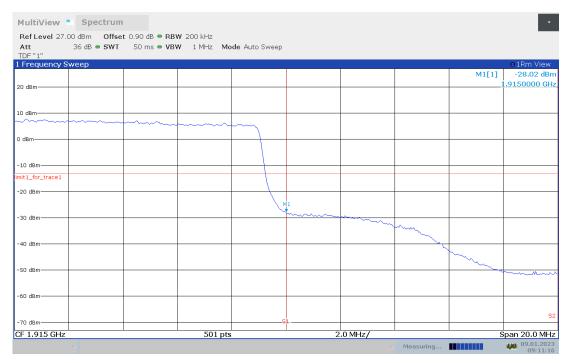




LOW BAND EDGE BLOCK-20M-100%RB



HIGH BAND EDGE BLOCK-20M-100%RB

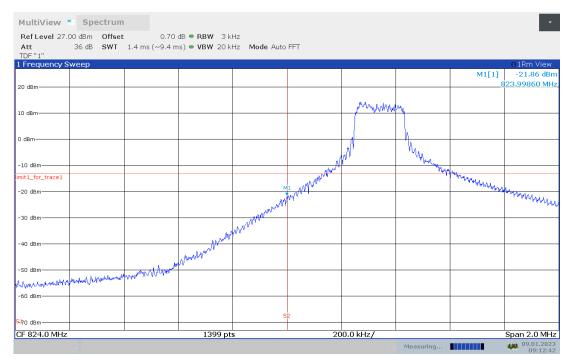




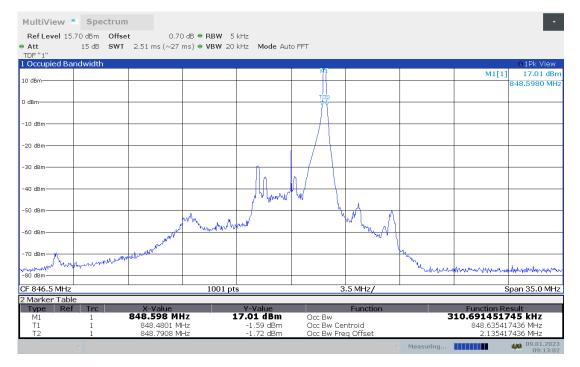
LTE band 26(824MHz-849MHz)

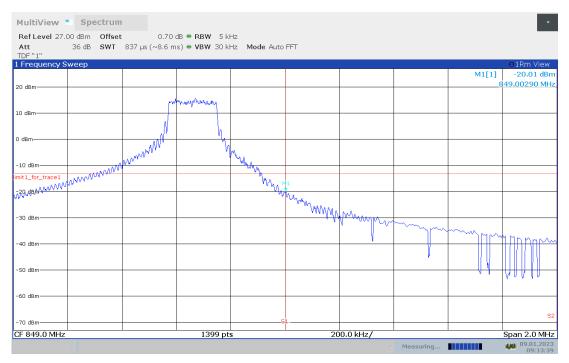
OBW: 1RB-LOW_offset





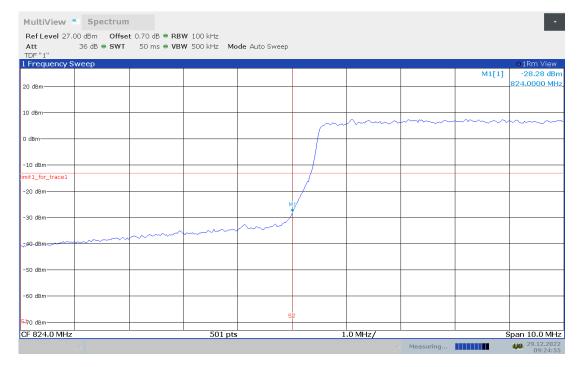




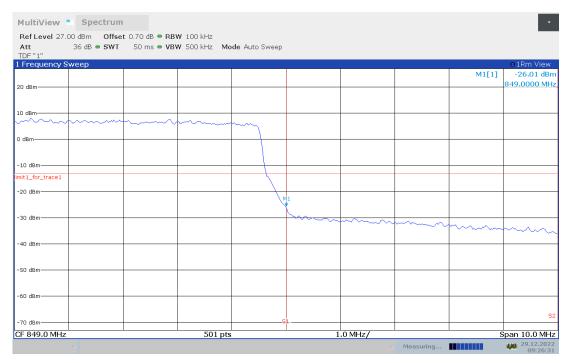




LOW BAND EDGE BLOCK-10M-100%RB



HIGH BAND EDGE BLOCK-10M-100%RB

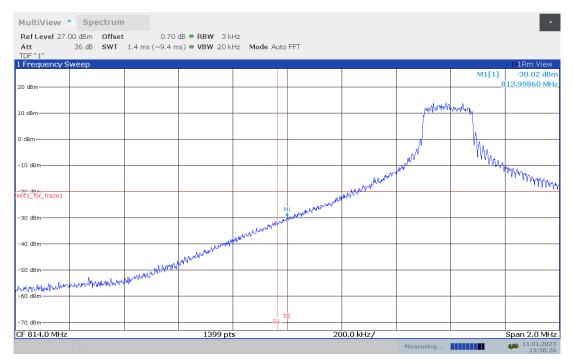




LTE band 26(814MHz-824MHz)

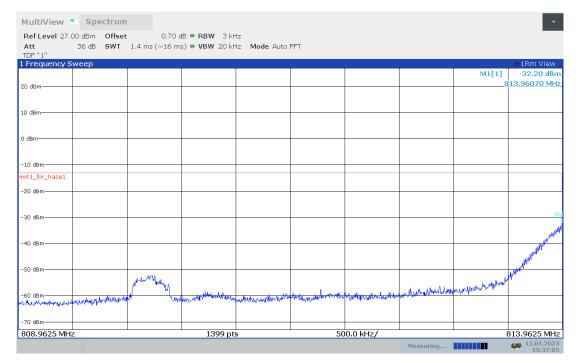
OBW: 1RB-LOW_offset



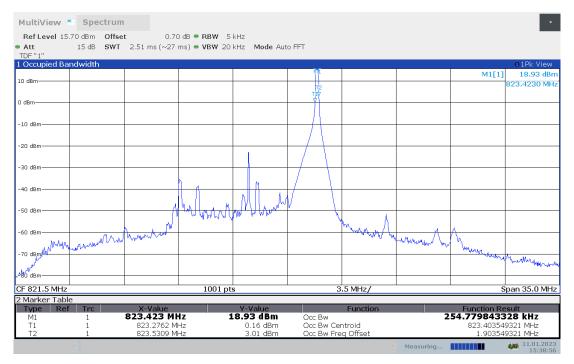




LOW BAND EDGE BLOCK-1RB-LOW_offset

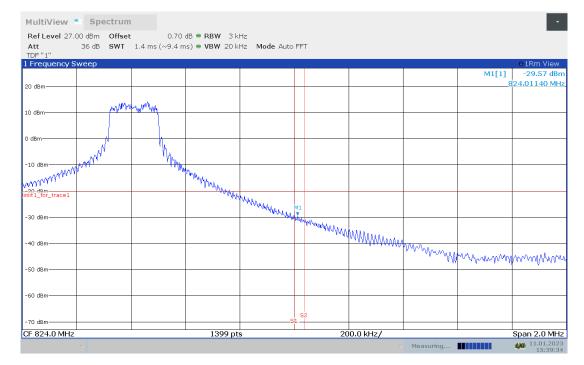


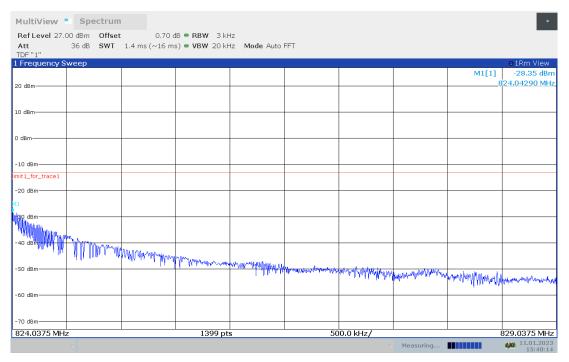
OBW: 1RB-HIGH_offset





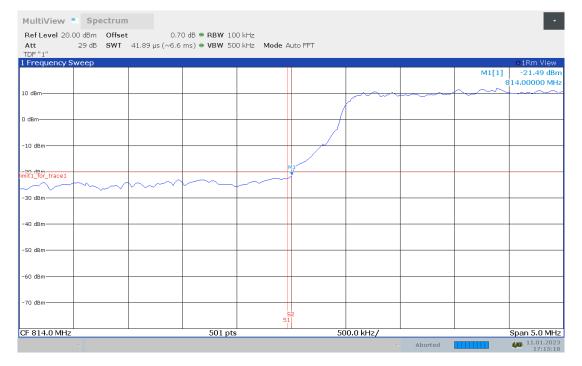
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



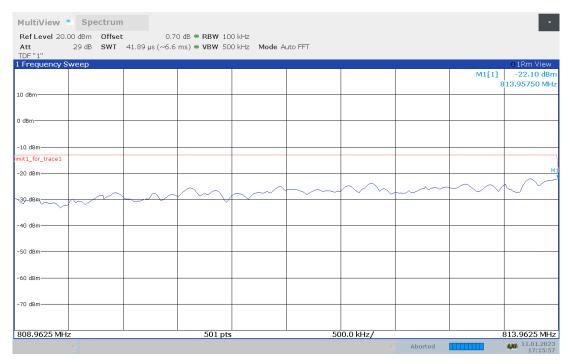




LOW BAND EDGE BLOCK-10M-100%RB

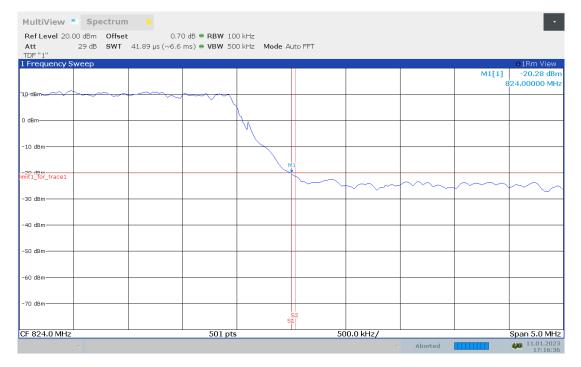


LOW BAND EDGE BLOCK-10M-100%RB

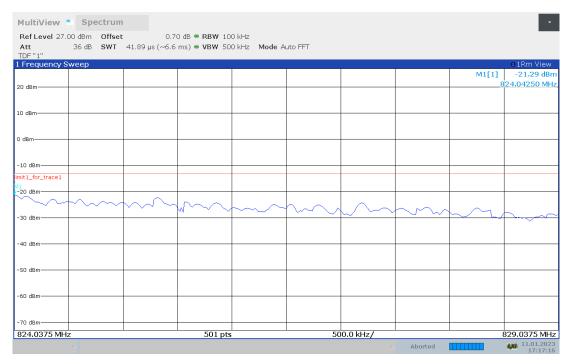




HIGH BAND EDGE BLOCK-10M-100%RB



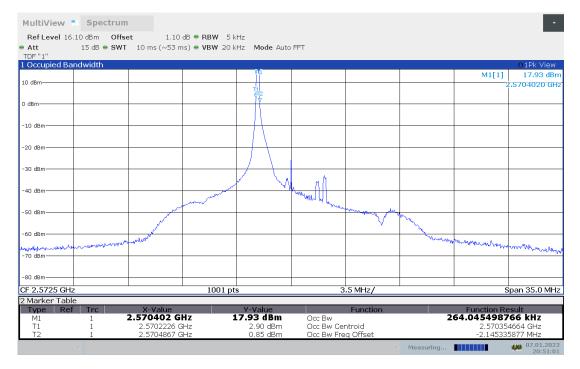
HIGH BAND EDGE BLOCK-10M-100%RB

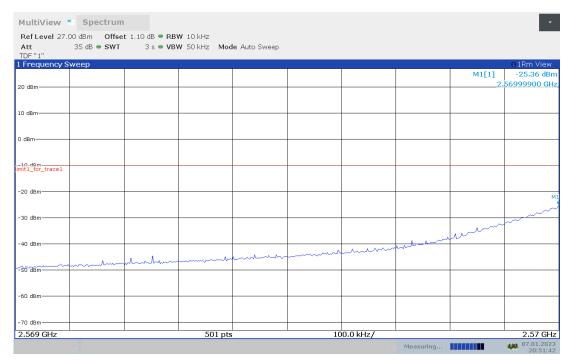






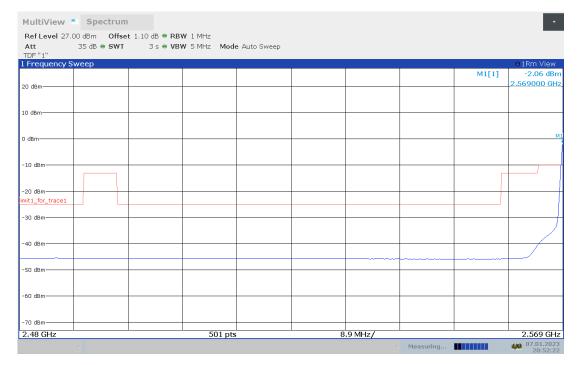
OBW: 1RB-LOW_offset



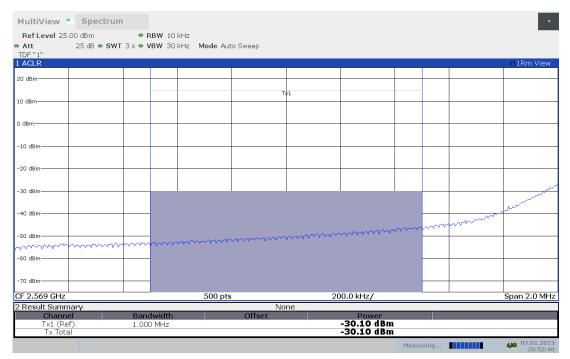




LOW BAND EDGE BLOCK-1RB-LOW_offset

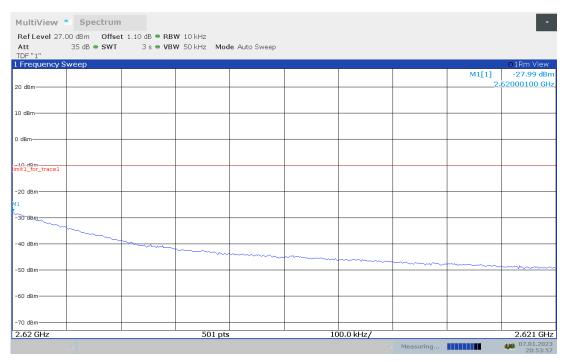


Channel power



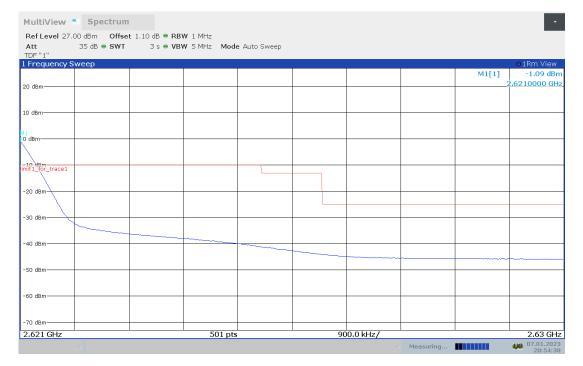




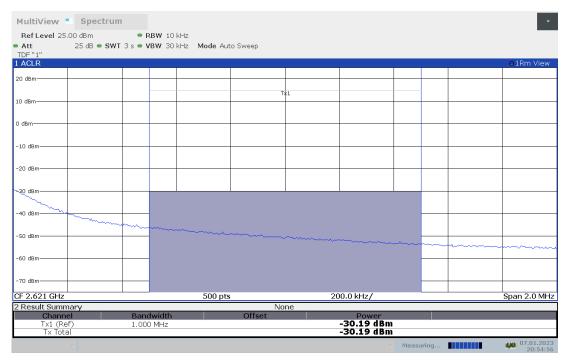




HIGH BAND EDGE BLOCK-1RB-HIGH_offset

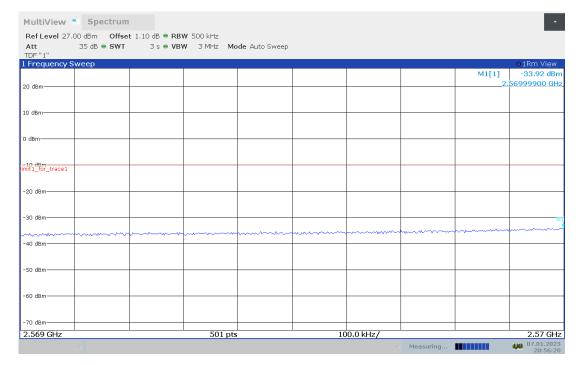


Channel power

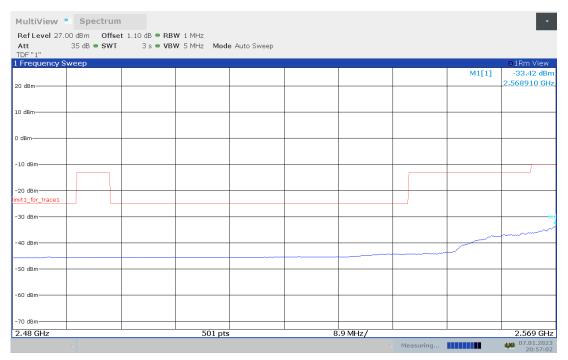




LOW BAND EDGE BLOCK-20M-100%RB

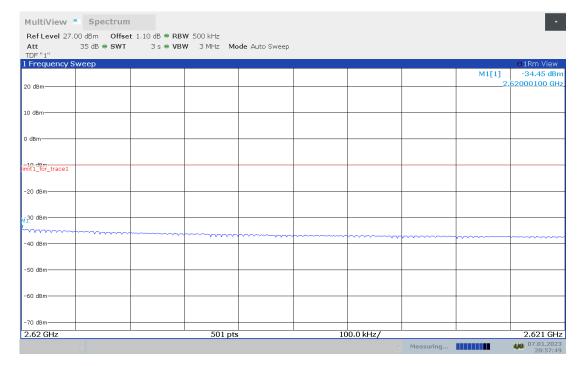


LOW BAND EDGE BLOCK-20M-100%RB

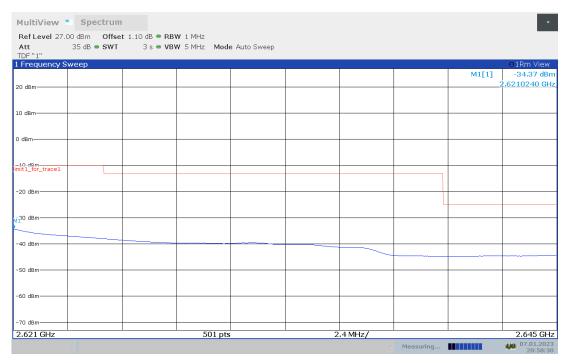




HIGH BAND EDGE BLOCK-20M-100%RB



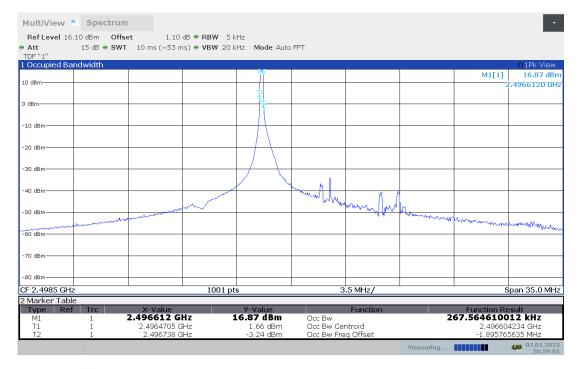
HIGH BAND EDGE BLOCK-20M-100%RB

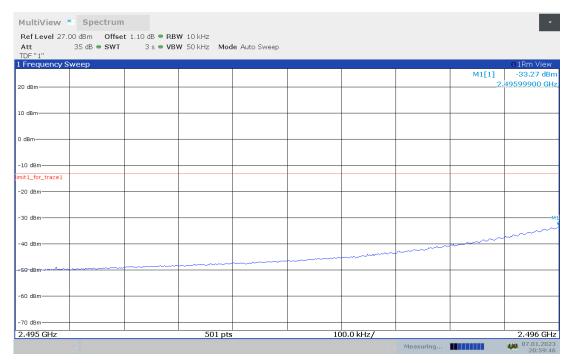






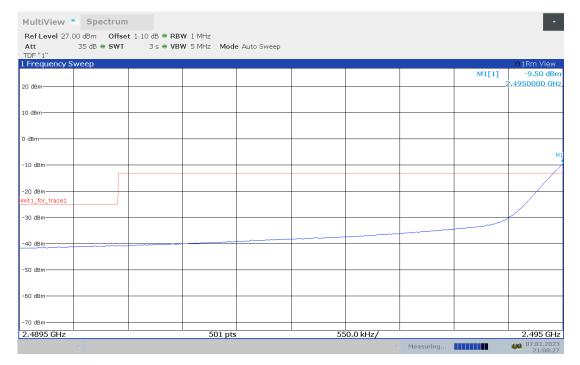
OBW: 1RB-LOW_offset



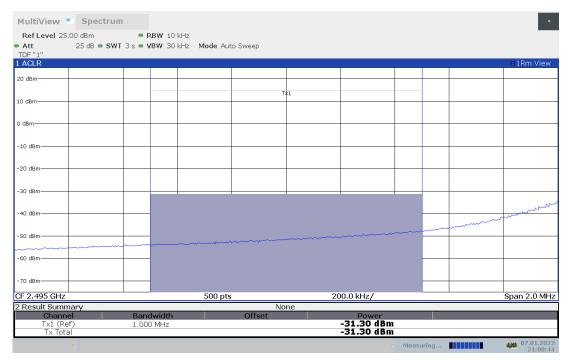




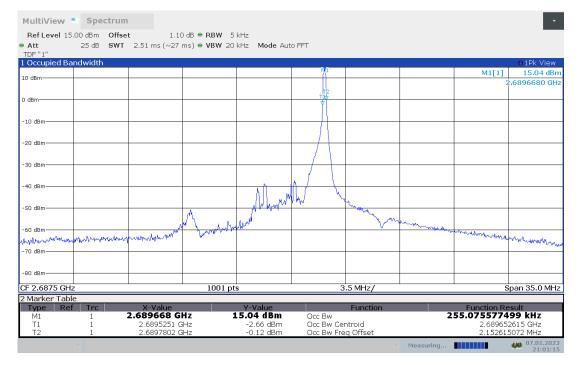
LOW BAND EDGE BLOCK-1RB-LOW_offset

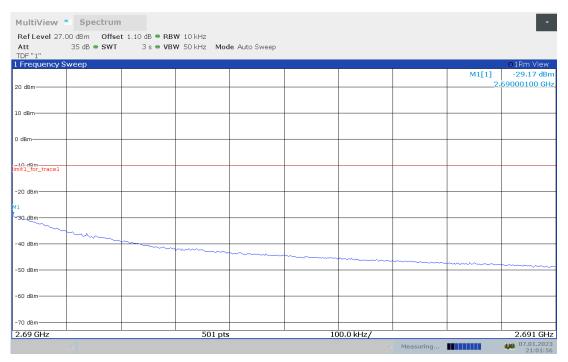


Channel power



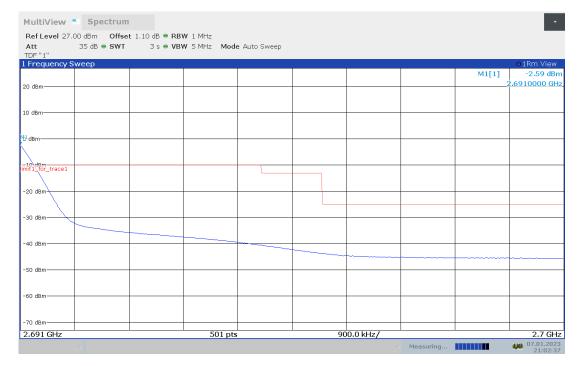




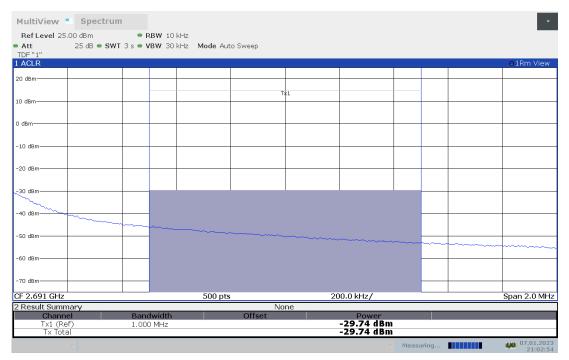




HIGH BAND EDGE BLOCK-1RB-HIGH_offset

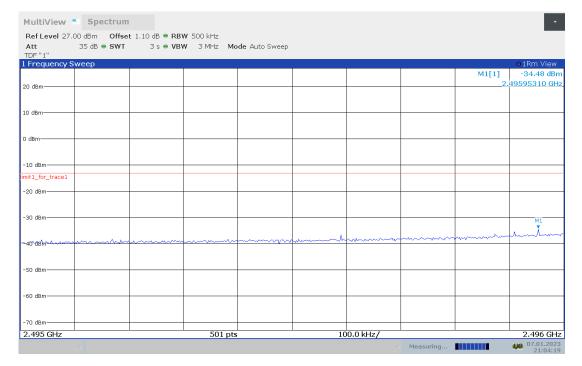


Channel power

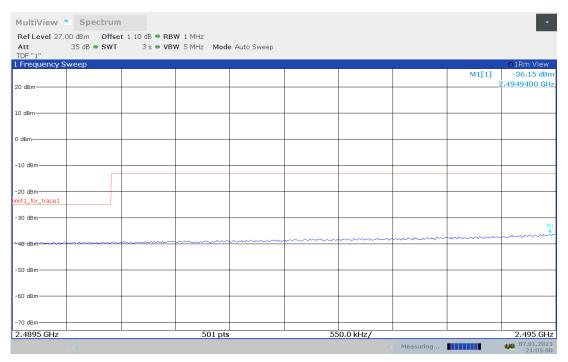




LOW BAND EDGE BLOCK-20M-100%RB

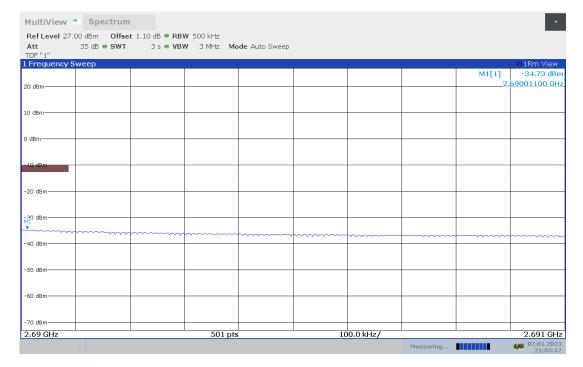


LOW BAND EDGE BLOCK-20M-100%RB

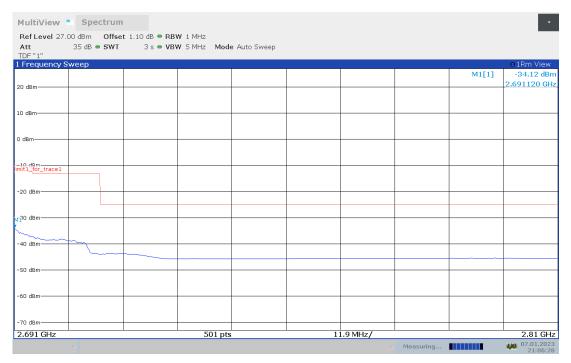




HIGH BAND EDGE BLOCK-20M-100%RB

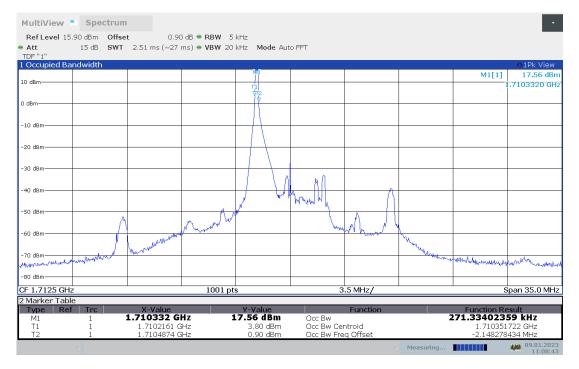


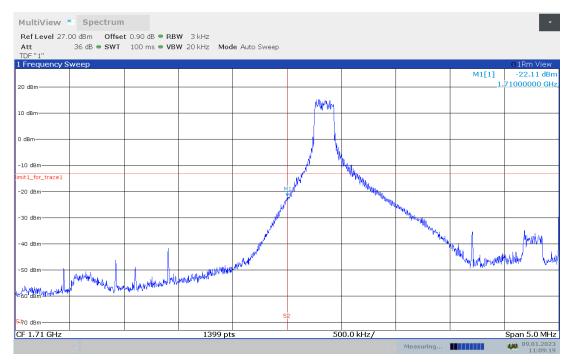
HIGH BAND EDGE BLOCK-20M-100%RB



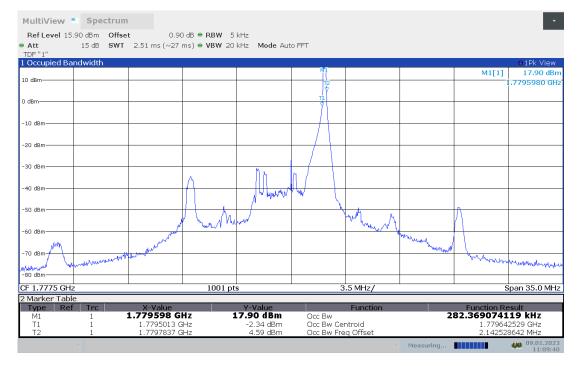


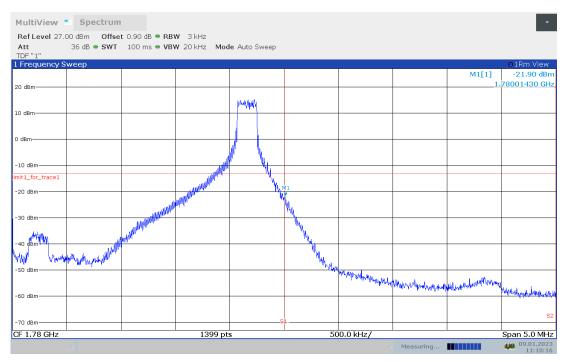
OBW: 1RB-LOW_offset





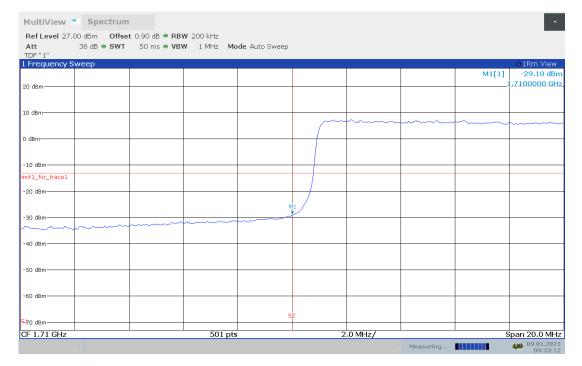




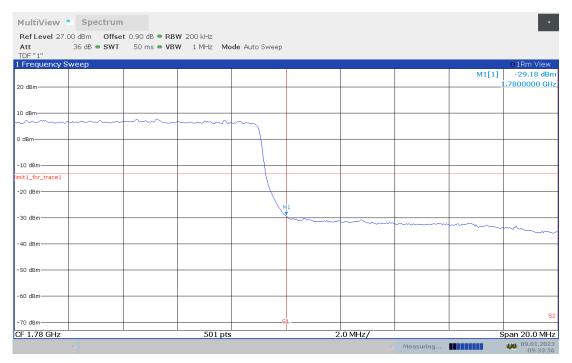




LOW BAND EDGE BLOCK-20M-100%RB



HIGH BAND EDGE BLOCK-20M-100%RB







OBW: 1RB-LOW_offset

