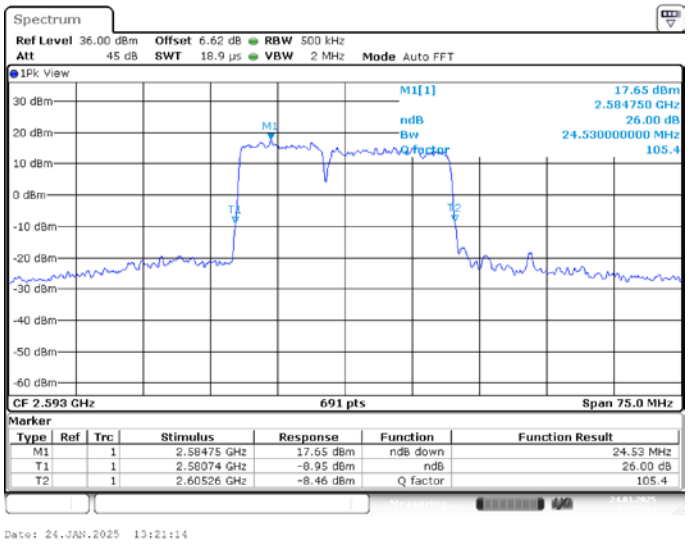
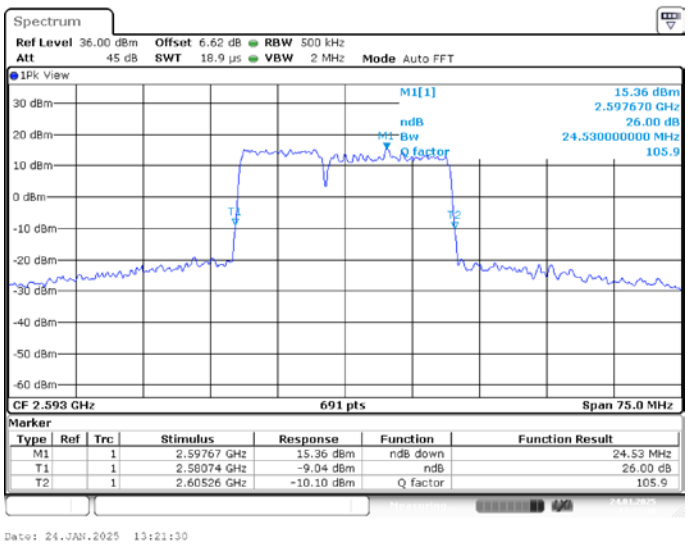
LTE CA band 41C, 10MHz+15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	24.530	24.530

LTE CA band 41C , 10MHz+15MHz Bandwidth,QPSK (-26dBc BW)



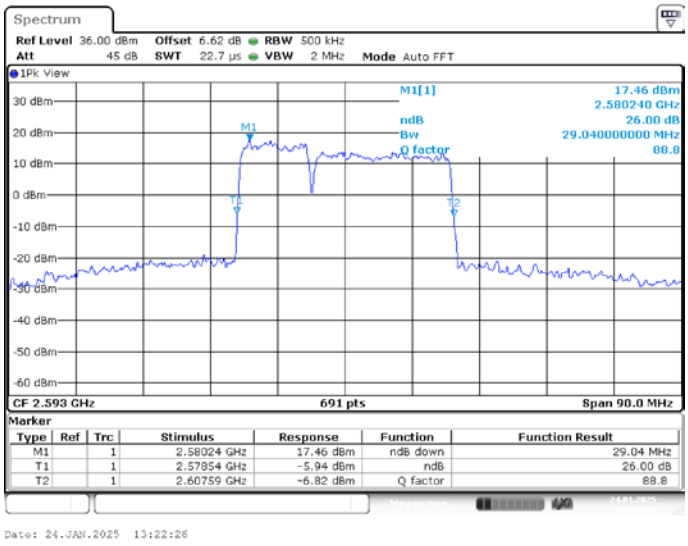
LTE CA band 41C , 10MHz+15MHz Bandwidth,16QAM (-26dBc BW)



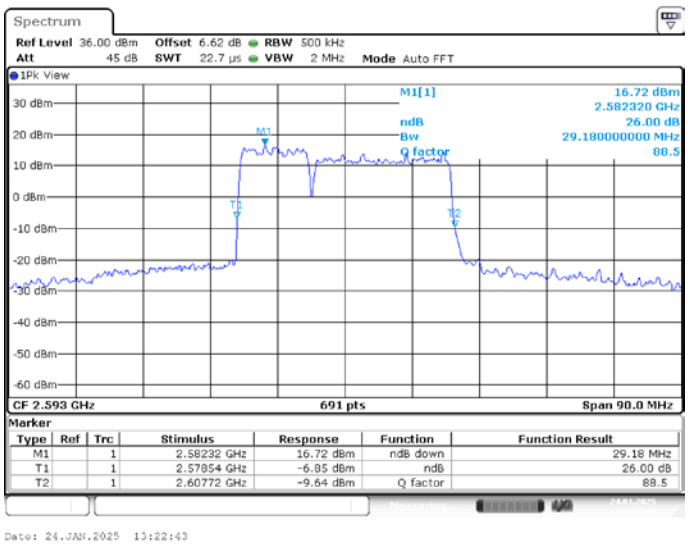
LTE CA band 41C, 10MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	29.040	29.180

LTE CA band 41C , 10MHz+20MHz Bandwidth,QPSK (-26dBc BW)



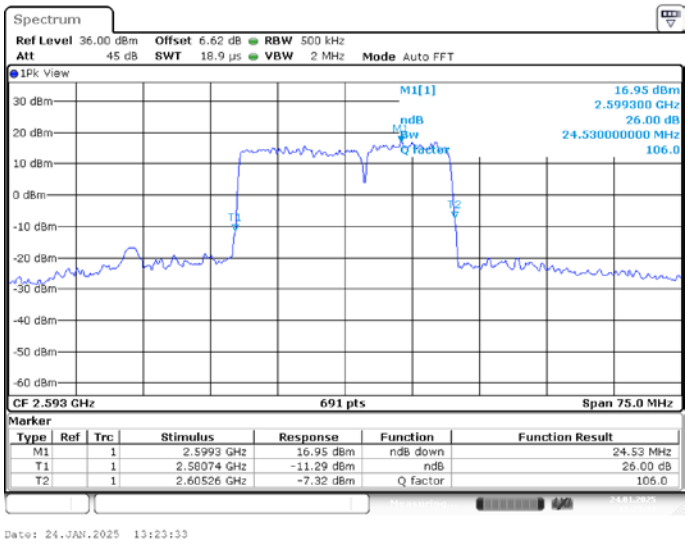
LTE CA band 41C , 10MHz+20MHz Bandwidth,16QAM (-26dBc BW)



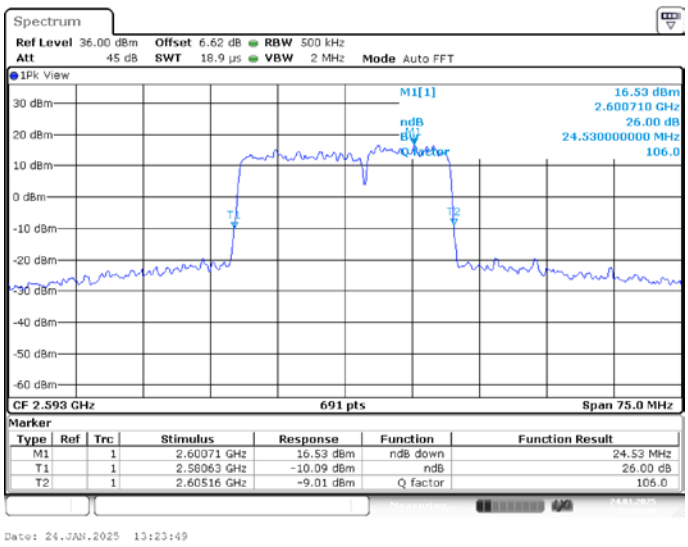
LTE CA band 41C, 15MHz+10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	24.530	24.530

LTE CA band 41C , 15MHz+10MHz Bandwidth,QPSK (-26dBc BW)



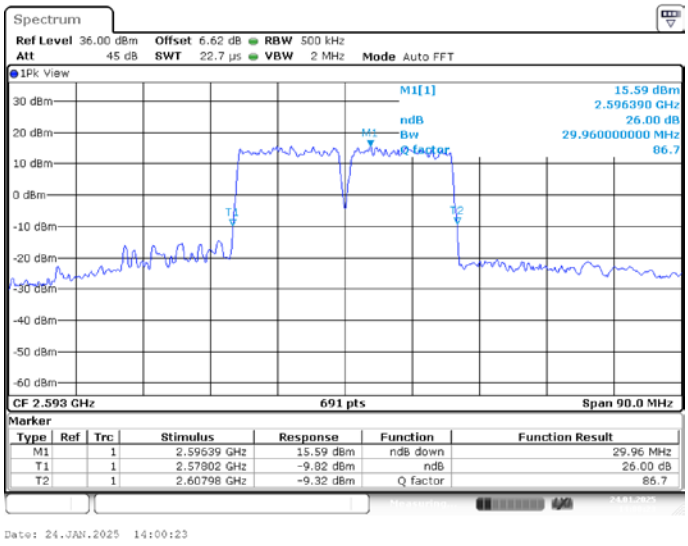
LTE CA band 41C , 15MHz+10MHz Bandwidth,16QAM (-26dBc BW)



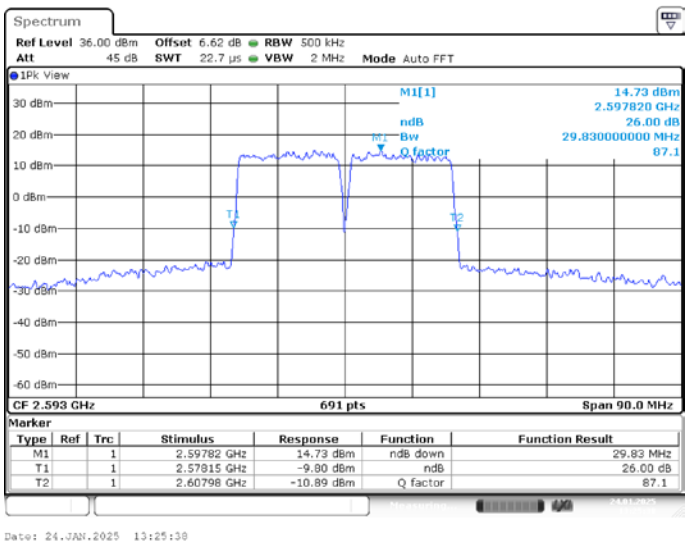
LTE CA band 41C, 15MHz+15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	29.960	29.830

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



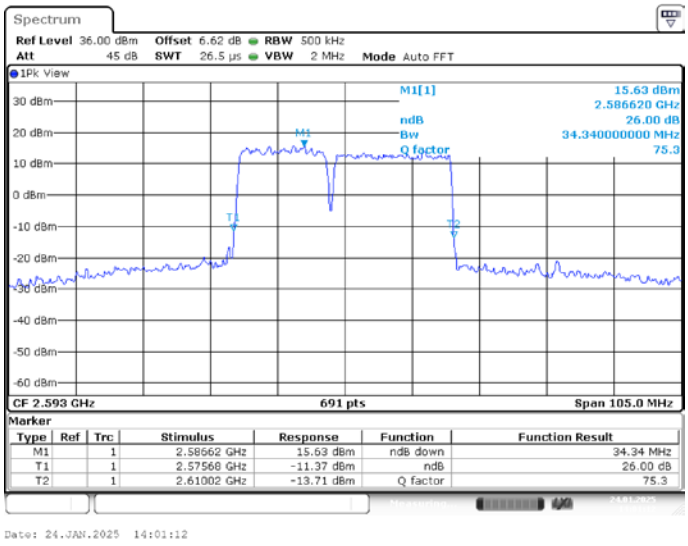
LTE CA band 41C , 15MHz+15MHz Bandwidth,16QAM (-26dBc BW)



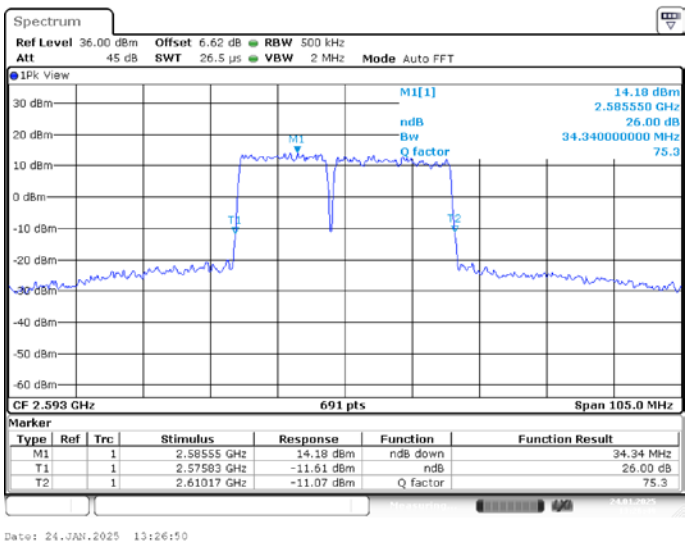
LTE CA band 41C, 15MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	34.340	34.340

LTE CA band 41C , 15MHz+20MHz Bandwidth,QPSK (-26dBc BW)



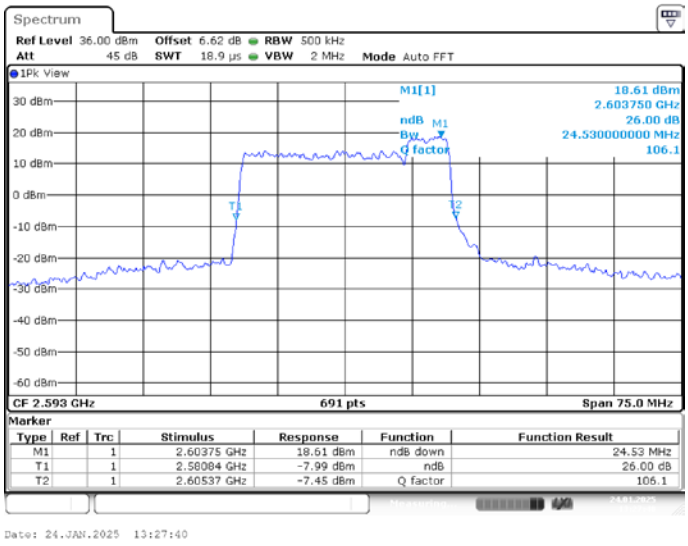
LTE CA band 41C , 15MHz+20MHz Bandwidth,16QAM (-26dBc BW)



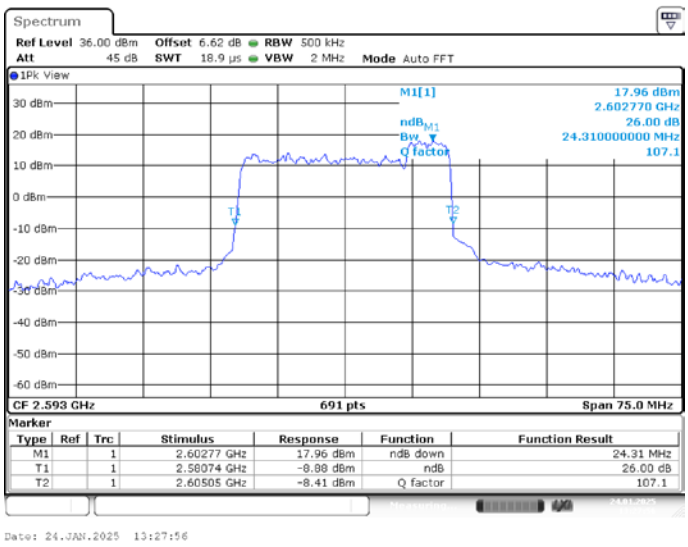
LTE CA band 41C, 20MHz+5MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	24.530	24.310

LTE CA band 41C , 20MHz+5MHz Bandwidth,QPSK (-26dBc BW)



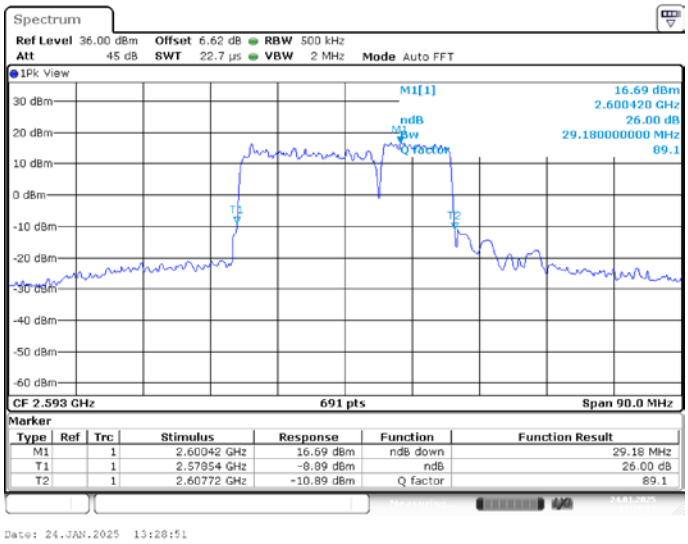
LTE CA band 41C , 20MHz+5MHz Bandwidth,16QAM (-26dBc BW)



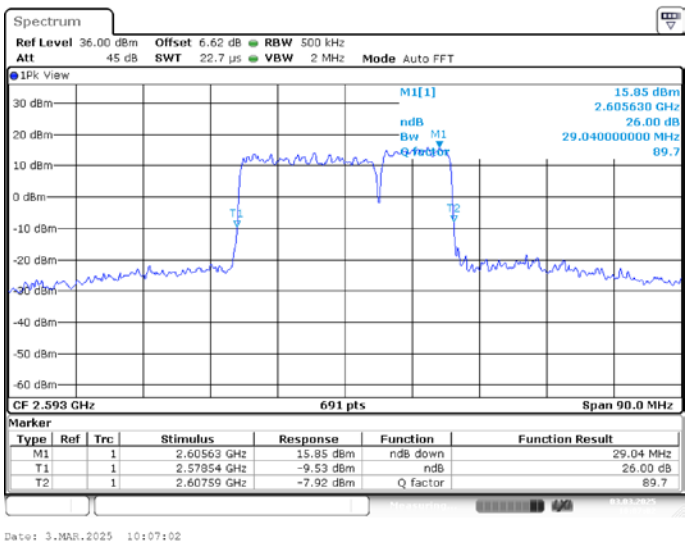
LTE CA band 41C, 20MHz+10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	29.180	29.040

LTE CA band 41C , 20MHz+10MHz Bandwidth,QPSK (-26dBc BW)



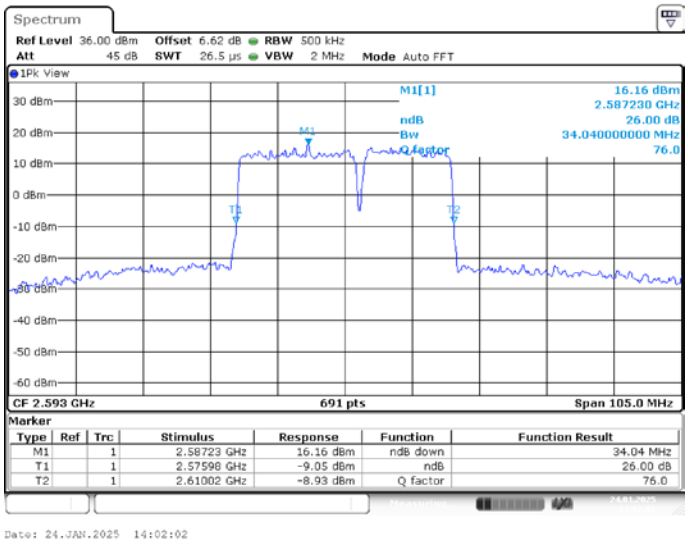
LTE CA band 41C , 20MHz+10MHz Bandwidth,16QAM (-26dBc BW)



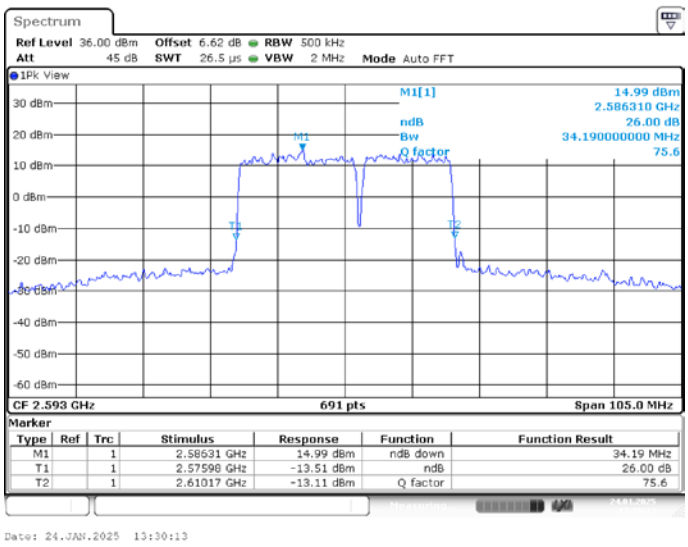
LTE CA band 41C, 20MHz+15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	34.040	34.190

LTE CA band 41C , 20MHz+15MHz Bandwidth,QPSK (-26dBc BW)



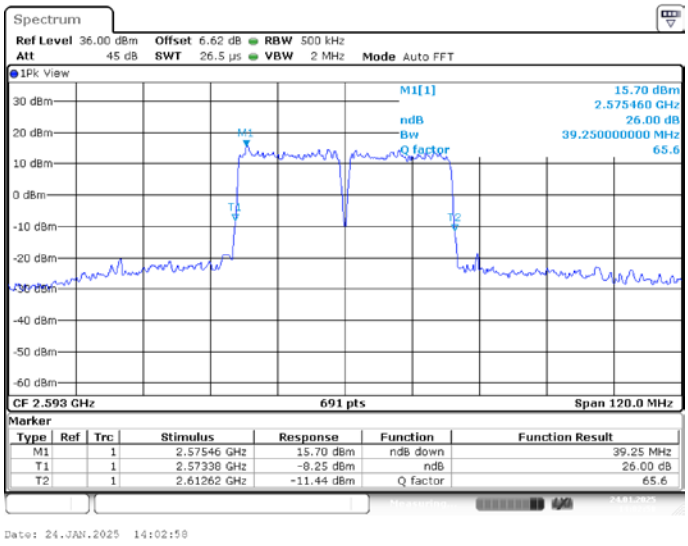
LTE CA band 41C , 20MHz+15MHz Bandwidth,16QAM (-26dBc BW)



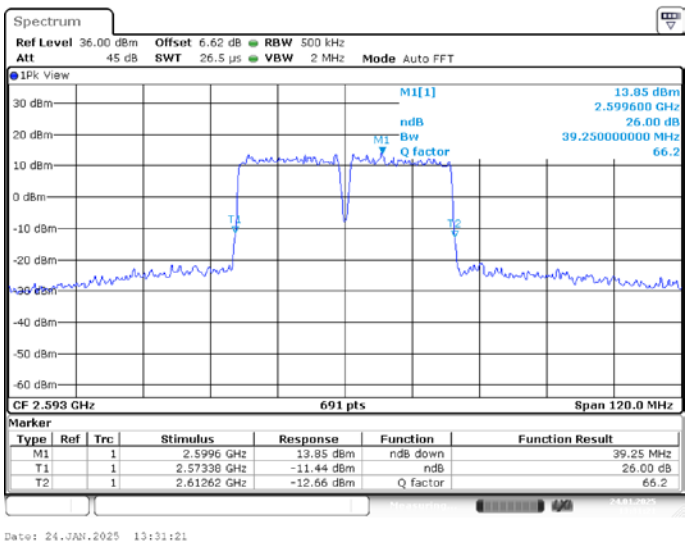
LTE CA band 41C, 20MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	39.250	39.250

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



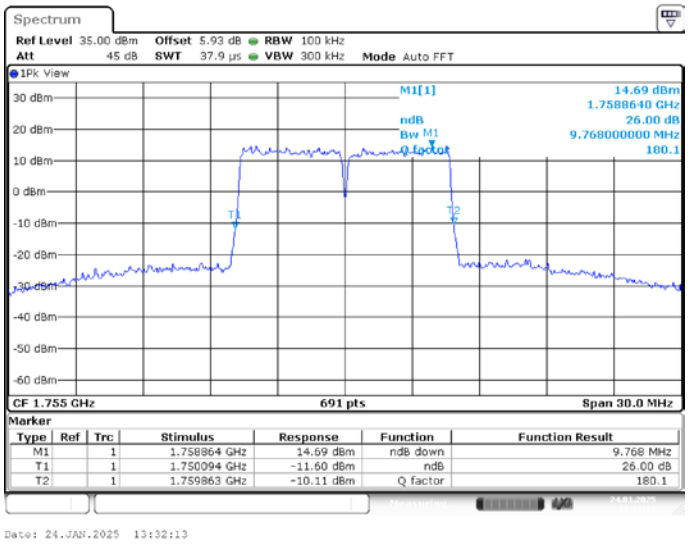
LTE CA band 41C , 20MHz+20MHz Bandwidth,16QAM (-26dBc BW)



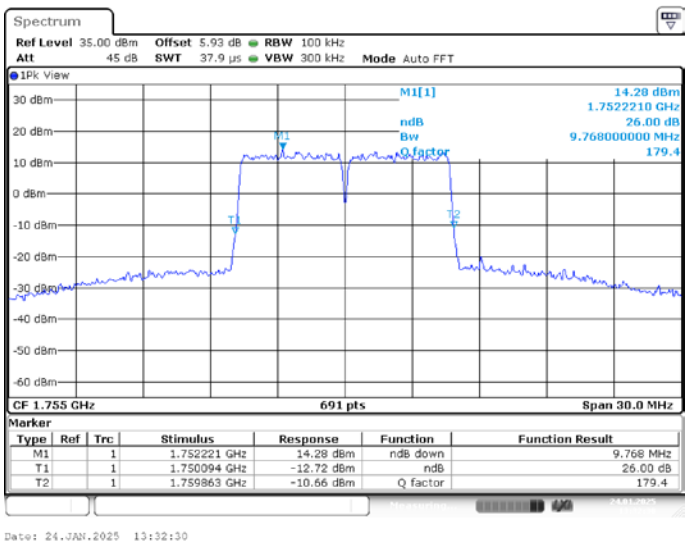
LTE CA band 66B, 5MHz+5MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	9.768	9.768

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



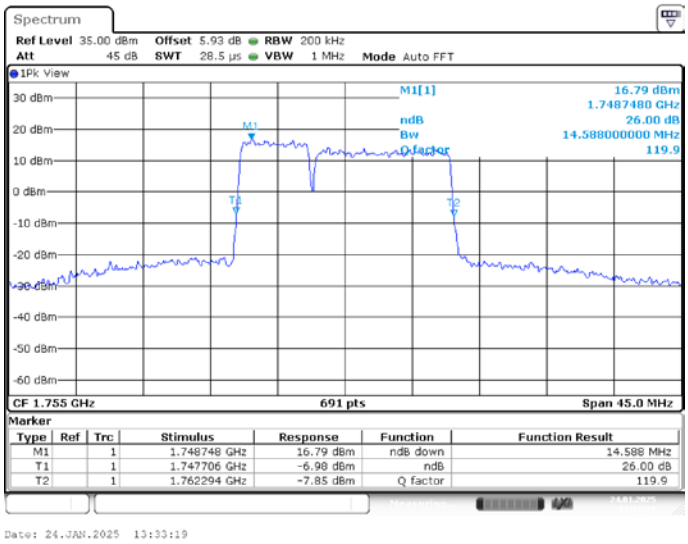
LTE CA band 66B , 5MHz+5MHz Bandwidth,16QAM (-26dBc BW)



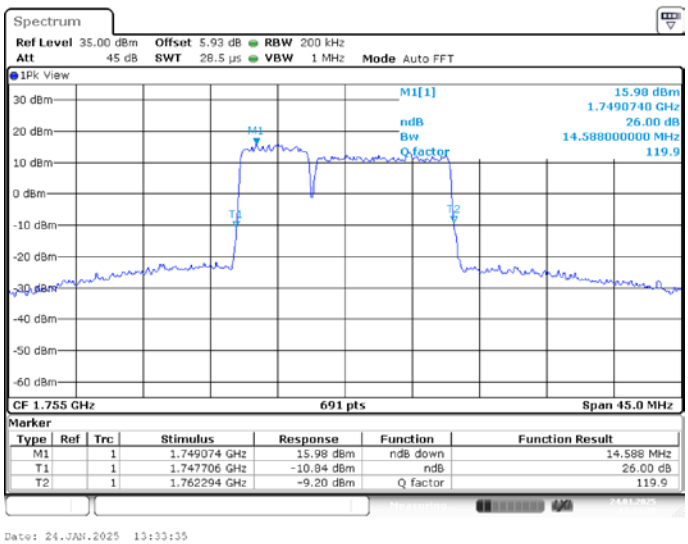
LTE CA band 66B, 5MHz+10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	14.588	14.588

LTE CA band 66B , 5MHz+10MHz Bandwidth,QPSK (-26dBc BW)



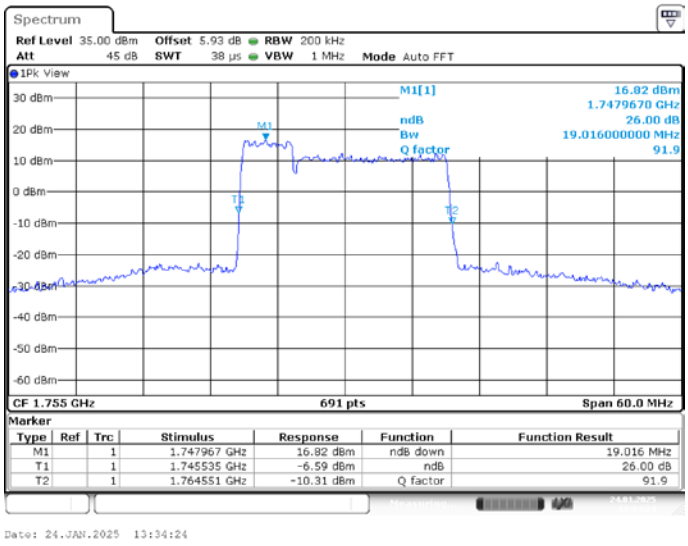
LTE CA band 66B , 5MHz+10MHz Bandwidth,16QAM (-26dBc BW)



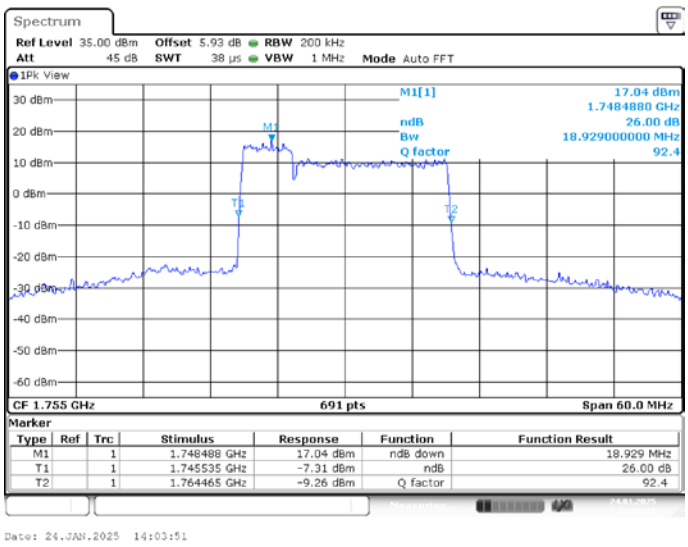
LTE CA band 66B, 5MHz+15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	19.016	18.929

LTE CA band 66B , 5MHz+15MHz Bandwidth,QPSK (-26dBc BW)



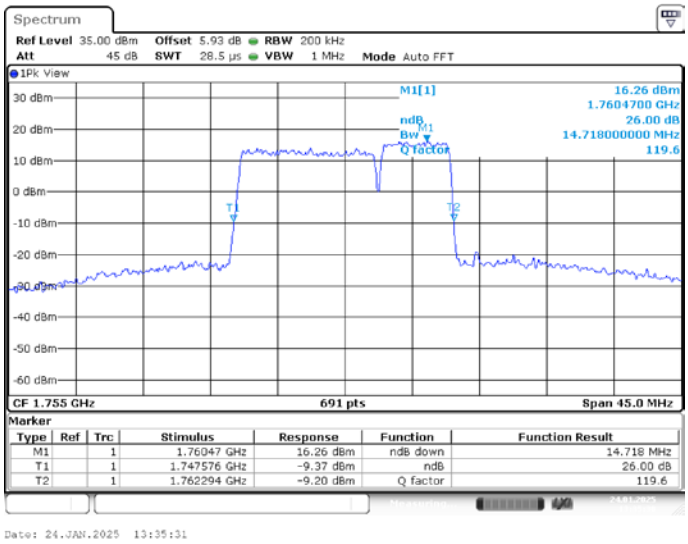
LTE CA band 66B , 5MHz+15MHz Bandwidth,16QAM (-26dBc BW)



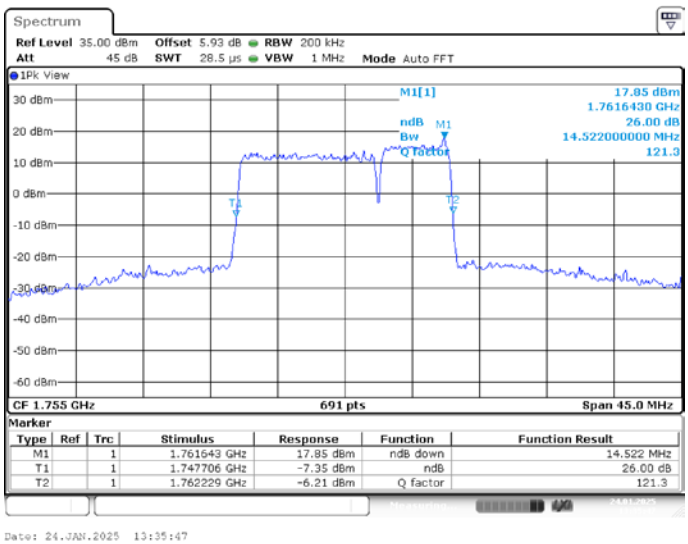
LTE CA band 66B, 10MHz+5MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	14.718	14.522

LTE CA band 66B , 10MHz+5MHz Bandwidth,QPSK (-26dBc BW)



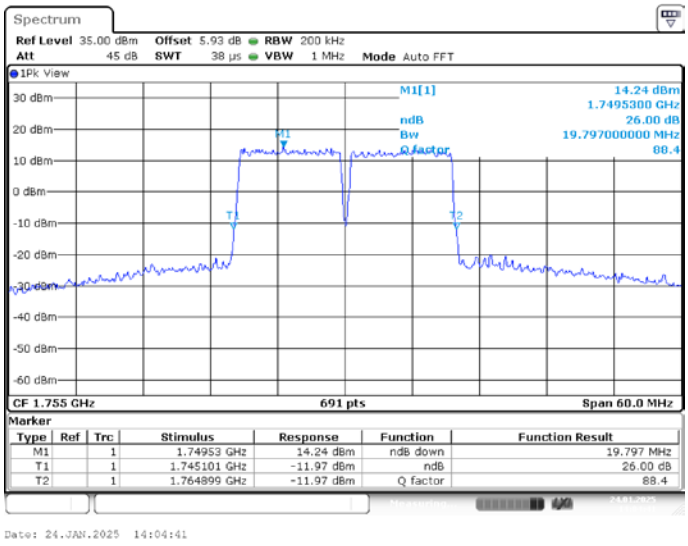
LTE CA band 66B , 10MHz+5MHz Bandwidth,16QAM (-26dBc BW)



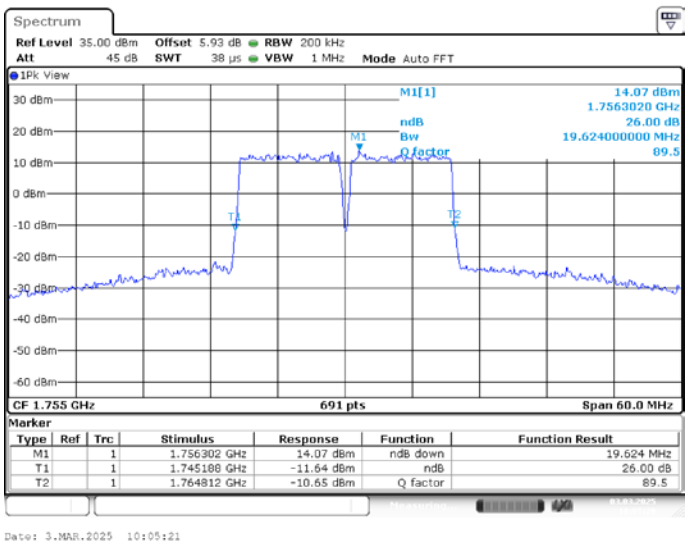
LTE CA band 66B, 10MHz+10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	19.797	19.624

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



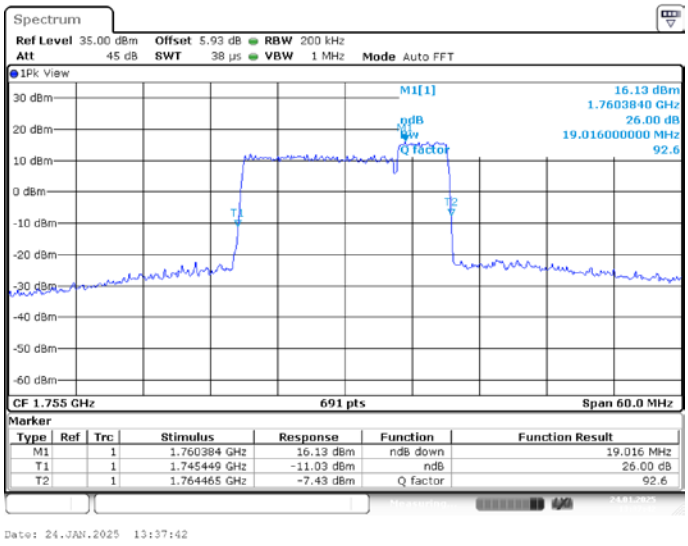
LTE CA band 66B , 10MHz+10MHz Bandwidth,16QAM (-26dBc BW)



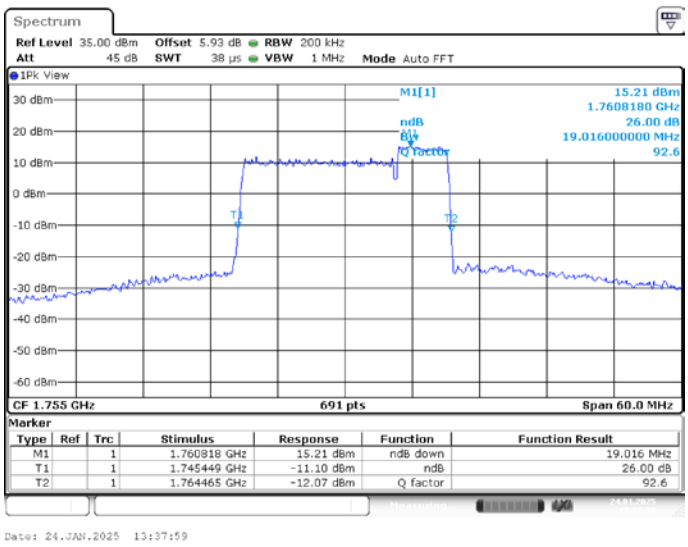
LTE CA band 66B, 15MHz+5MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	19.016	19.016

LTE CA band 66B , 15MHz+5MHz Bandwidth,QPSK (-26dBc BW)



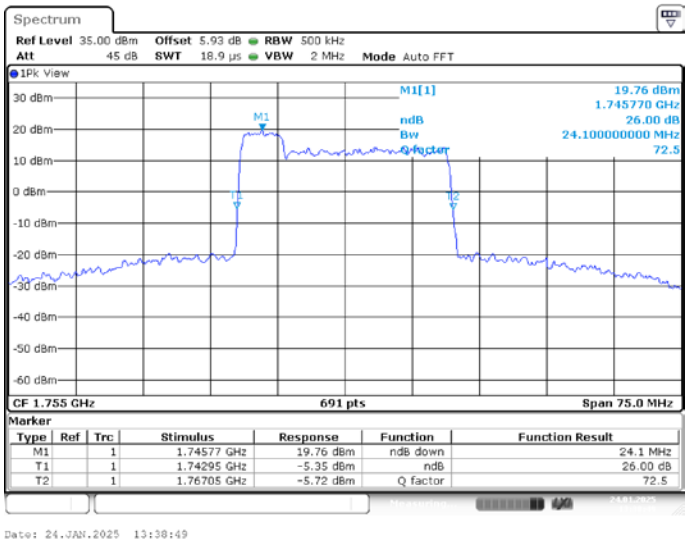
LTE CA band 66B , 15MHz+5MHz Bandwidth,16QAM (-26dBc BW)



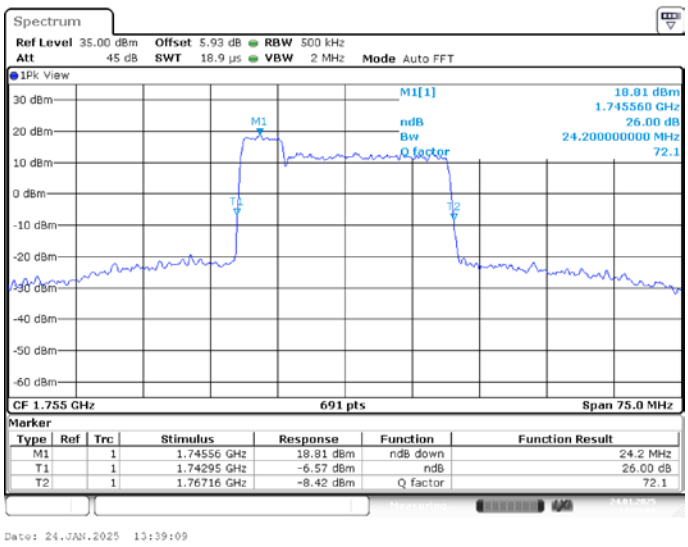
LTE CA band 66C, 5MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	24.100	24.200

LTE CA band 66C , 5MHz+20MHz Bandwidth,QPSK (-26dBc BW)



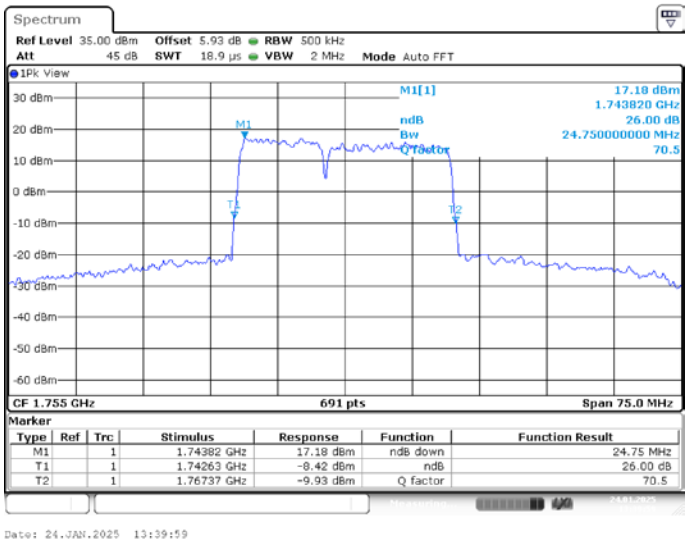
LTE CA band 66C , 5MHz+20MHz Bandwidth,16QAM (-26dBc BW)



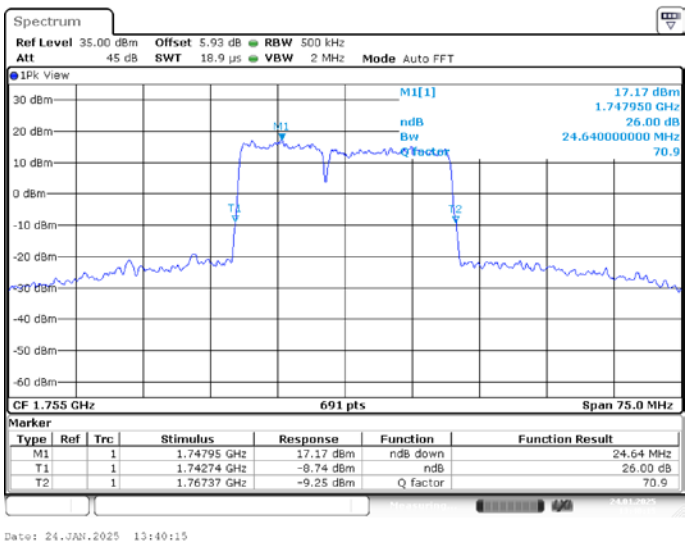
LTE CA band 66C, 10MHz+15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	24.750	24.640

LTE CA band 66C , 10MHz+15MHz Bandwidth,QPSK (-26dBc BW)



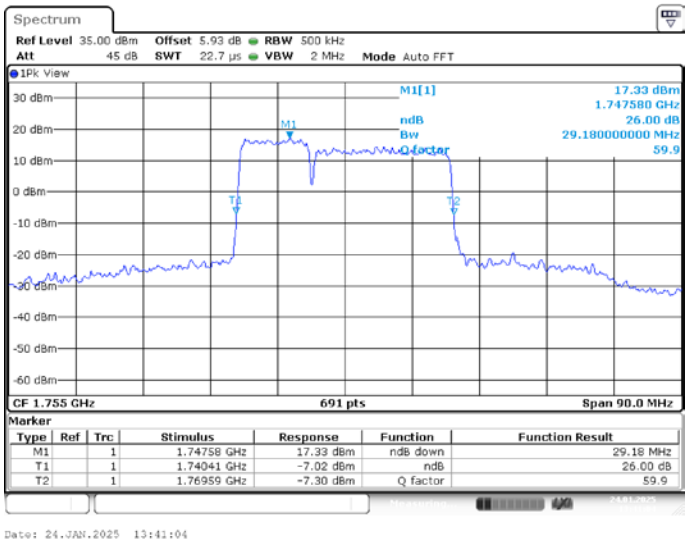
LTE CA band 66C , 10MHz+15MHz Bandwidth,16QAM (-26dBc BW)



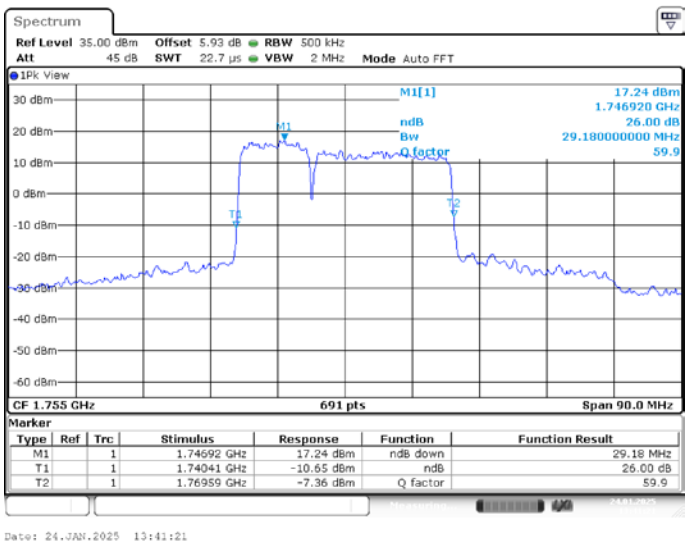
LTE CA band 66C, 10MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	29.180	29.180

LTE CA band 66C , 10MHz+20MHz Bandwidth,QPSK (-26dBc BW)



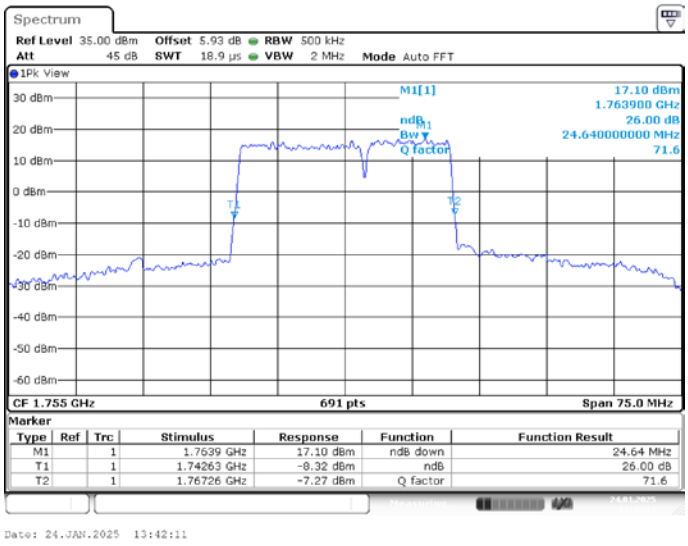
LTE CA band 66C , 10MHz+20MHz Bandwidth,16QAM (-26dBc BW)



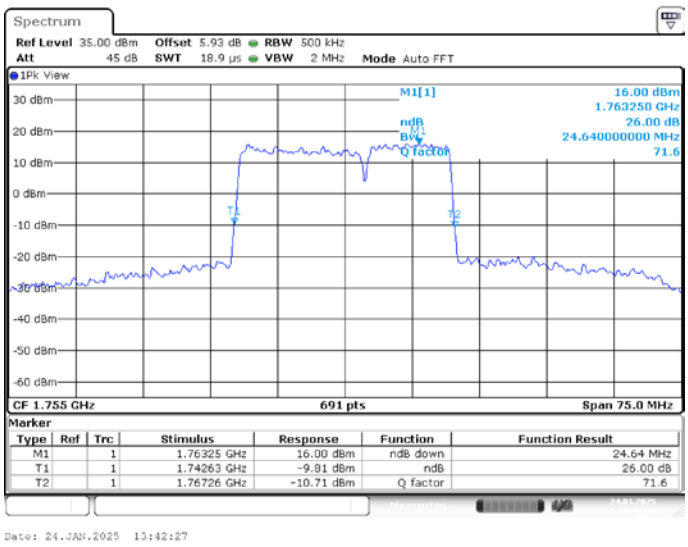
LTE CA band 66C, 15MHz+10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	24.640	24.640

LTE CA band 66C , 15MHz+10MHz Bandwidth,QPSK (-26dBc BW)



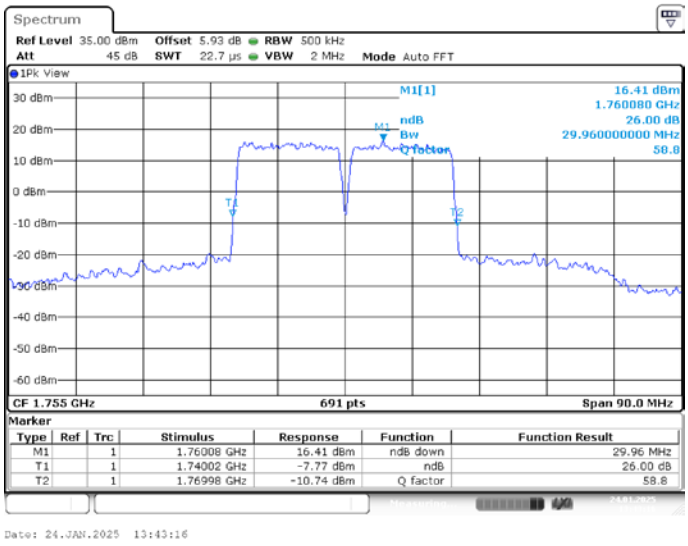
LTE CA band 66C , 15MHz+10MHz Bandwidth,16QAM (-26dBc BW)



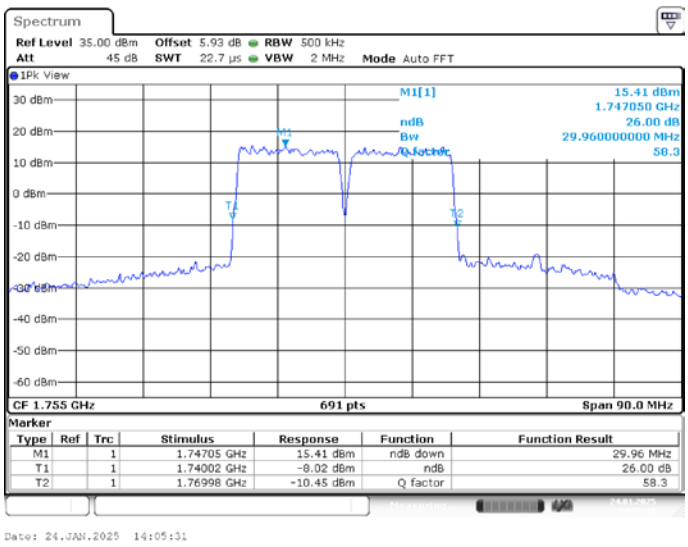
LTE CA band 66C, 15MHz+15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	29.960	29.960

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



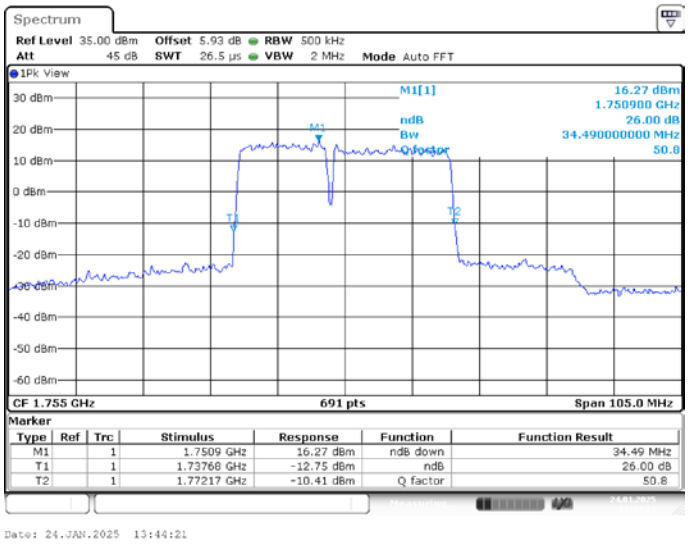
LTE CA band 66C , 15MHz+15MHz Bandwidth,16QAM (-26dBc BW)



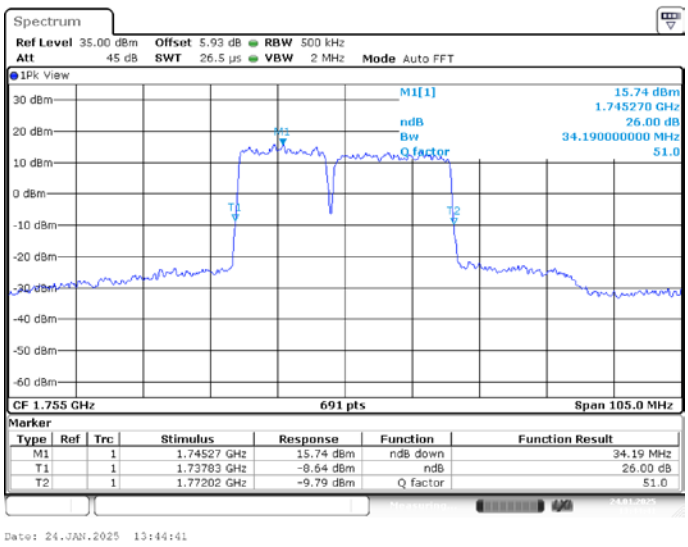
LTE CA band 66C, 15MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	34.490	34.190

LTE CA band 66C , 15MHz+20MHz Bandwidth,QPSK (-26dBc BW)



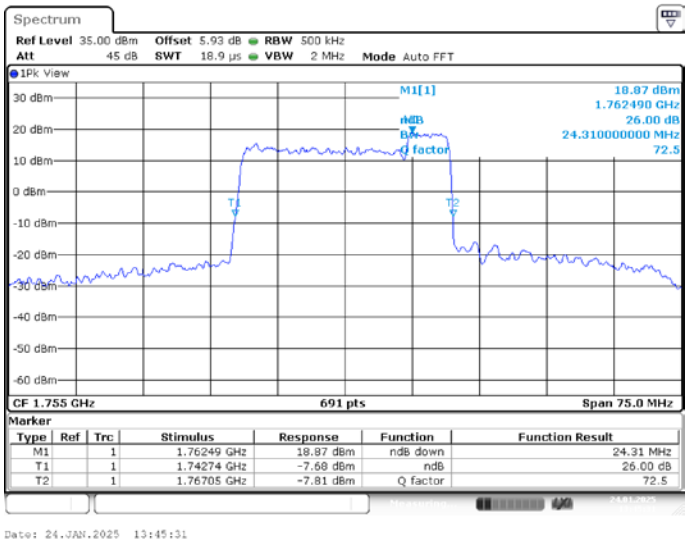
LTE CA band 66C , 15MHz+20MHz Bandwidth,16QAM (-26dBc BW)



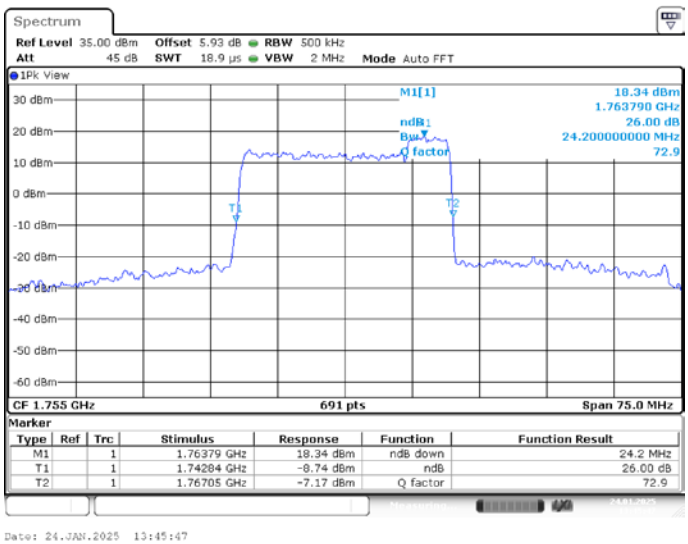
LTE CA band 66C, 20MHz+5MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	24.310	24.200

LTE CA band 66C , 20MHz+5MHz Bandwidth,QPSK (-26dBc BW)



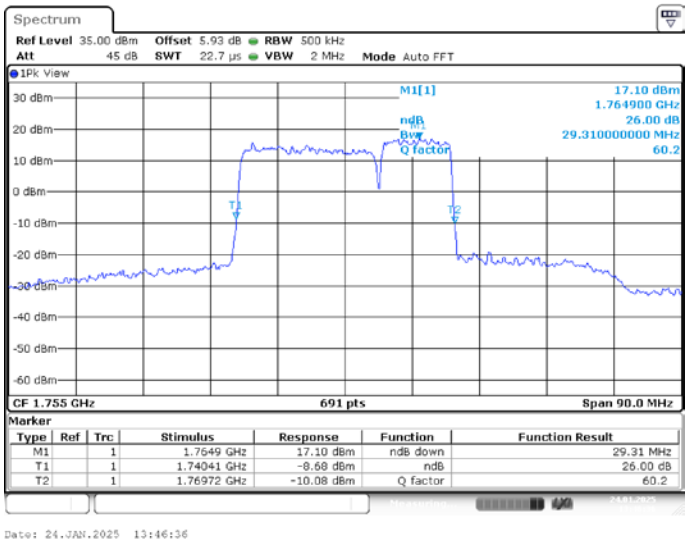
LTE CA band 66C , 20MHz+5MHz Bandwidth,16QAM (-26dBc BW)



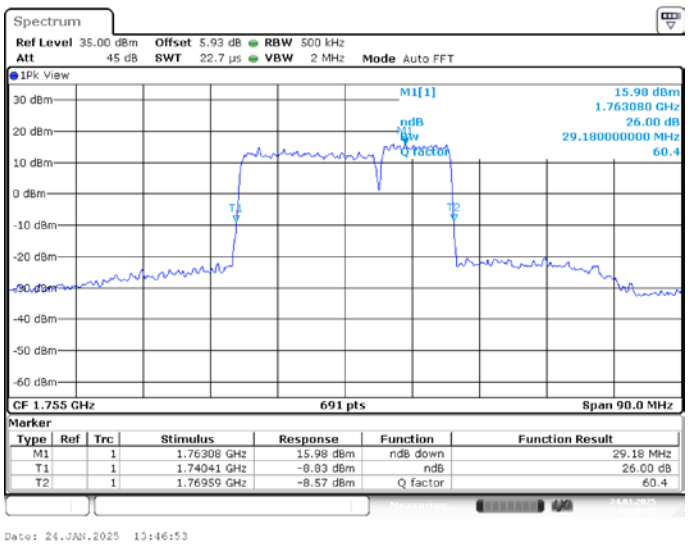
LTE CA band 66C, 20MHz+10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	29.310	29.180

LTE CA band 66C , 20MHz+10MHz Bandwidth,QPSK (-26dBc BW)



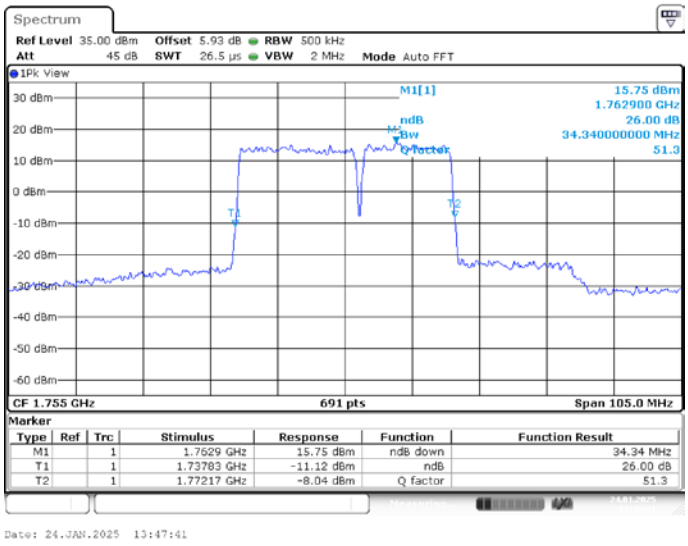
LTE CA band 66C , 20MHz+10MHz Bandwidth,16QAM (-26dBc BW)



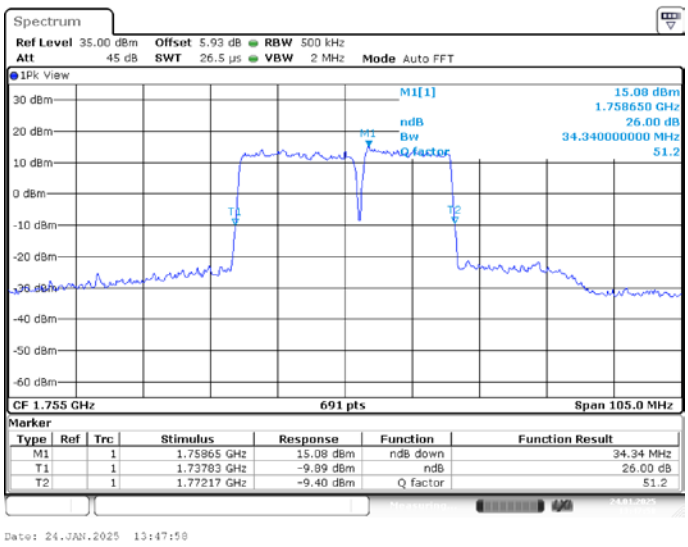
LTE CA band 66C, 20MHz+15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	34.340	34.340

LTE CA band 66C , 20MHz+15MHz Bandwidth,QPSK (-26dBc BW)



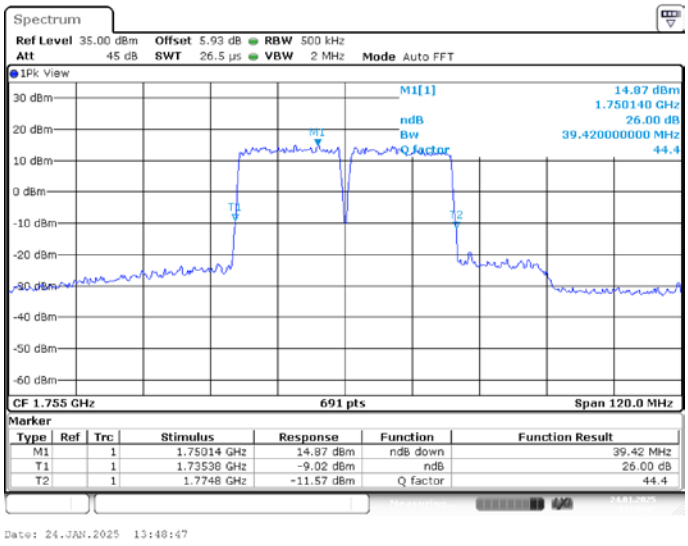
LTE CA band 66C , 20MHz+15MHz Bandwidth,16QAM (-26dBc BW)



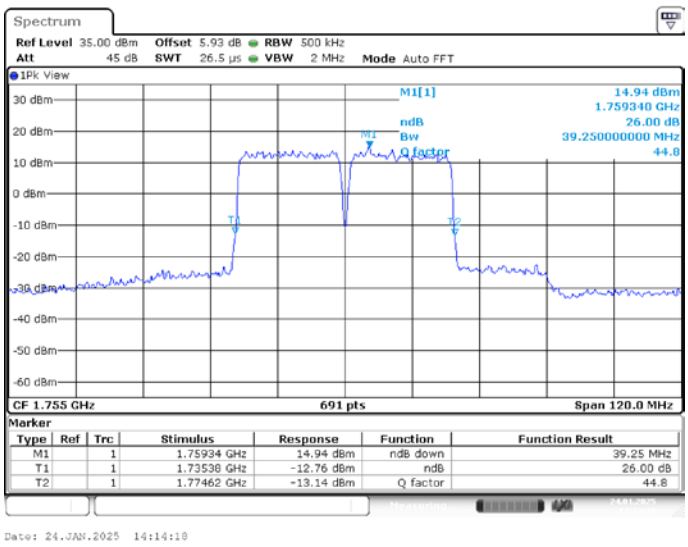
LTE CA band 66C, 20MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	39.420	39.250

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



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



A.6 Band Edge Compliance

A.6.1 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 + 10 log (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(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;(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 $116\text{Log}_{10}(f/6.1)$ decibels or 50 + 10 $\text{Log}_{10}(P)$ 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 + $10\text{Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency

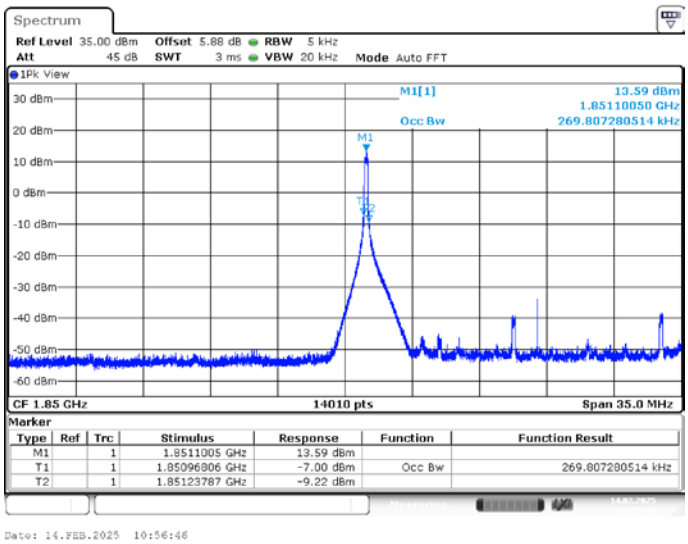
removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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

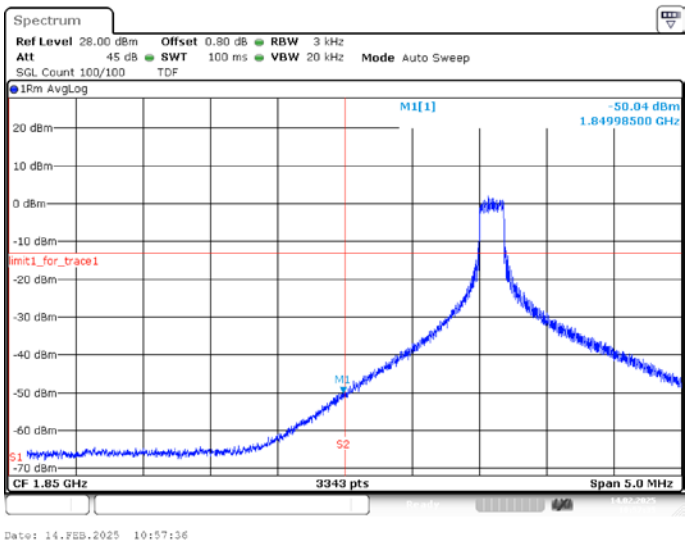
A.6.2 Measurement result

LTE band 2

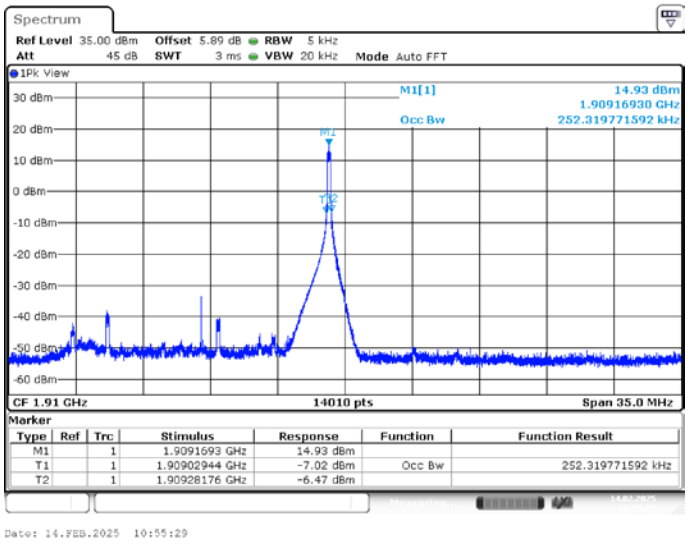
OBW: 1RB-LOW_offset



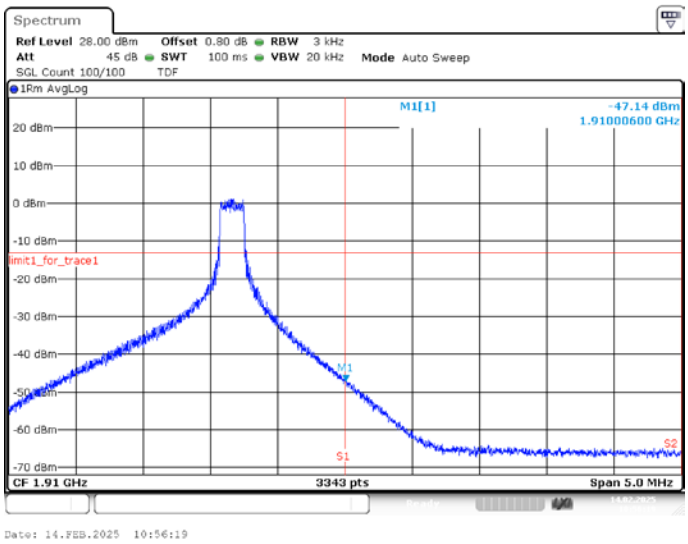
LOW BAND EDGE BLOCK-1RB-LOW_offset



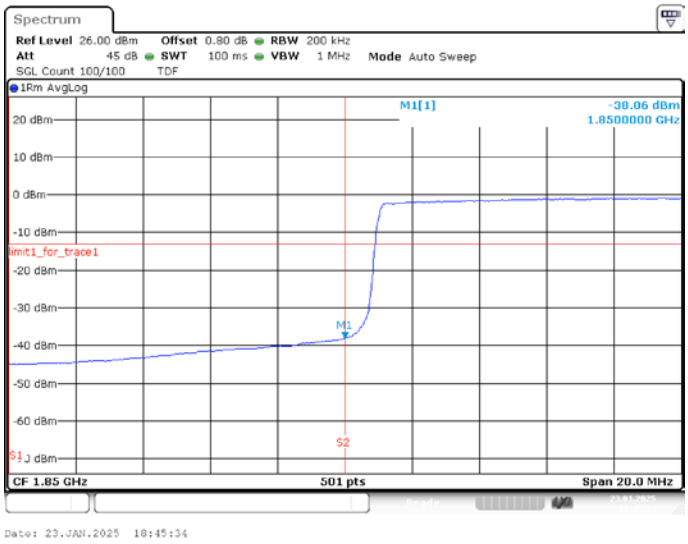
OBW: 1RB-HIGH_offset



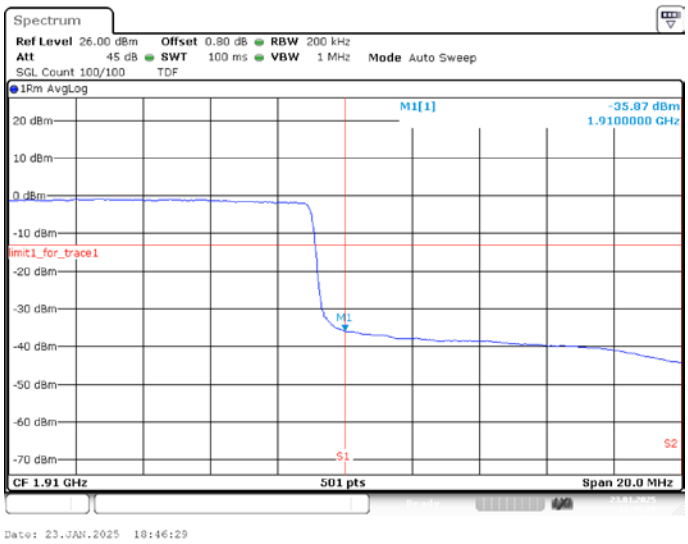
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-20MHz-100%RB

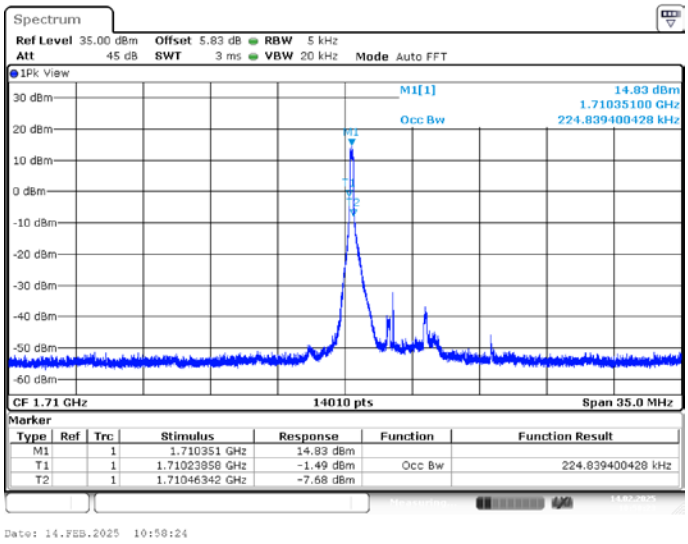


HIGH BAND EDGE BLOCK-20MHz-100%RB

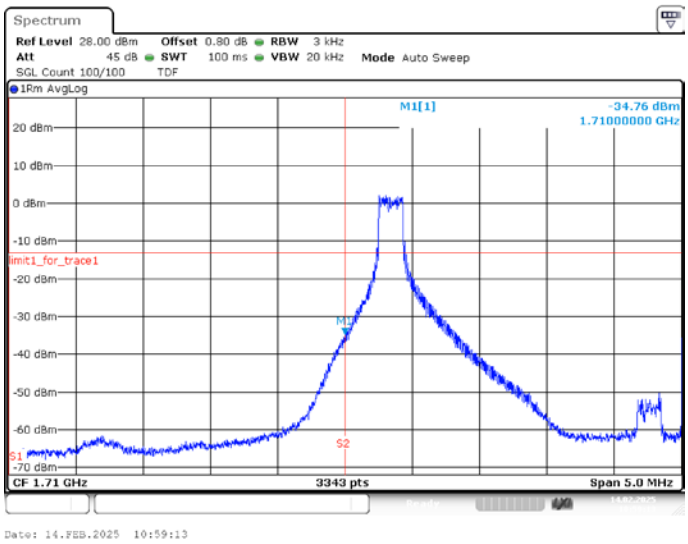


LTE band 4

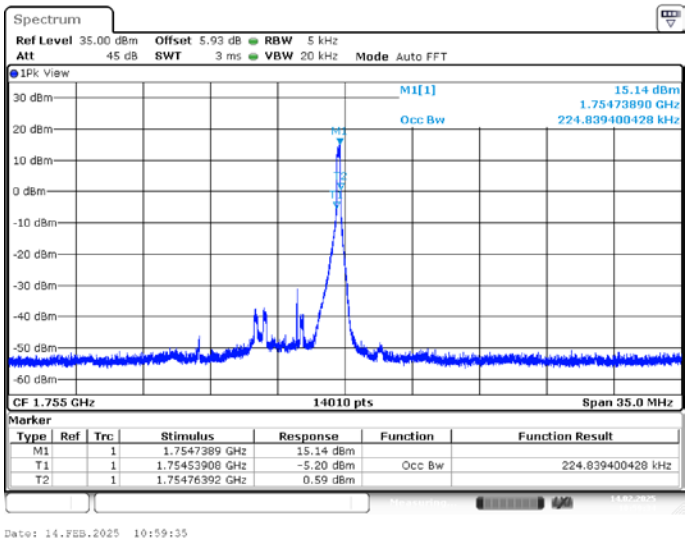
OBW: 1RB-LOW_offset



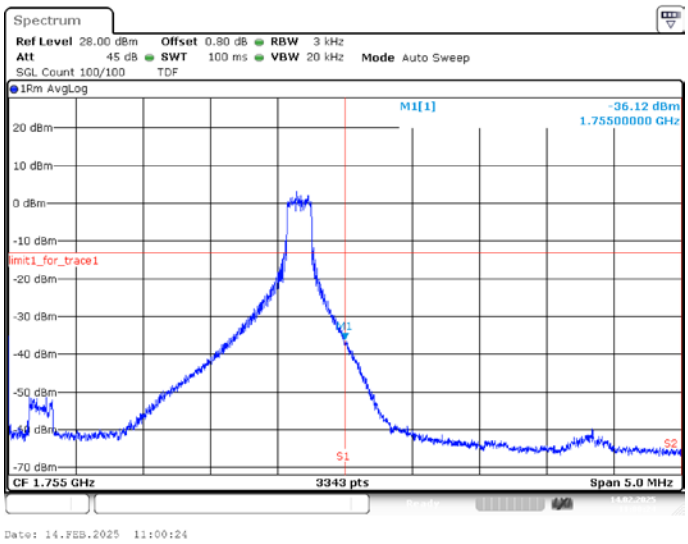
LOW BAND EDGE BLOCK-1RB-LOW_offset



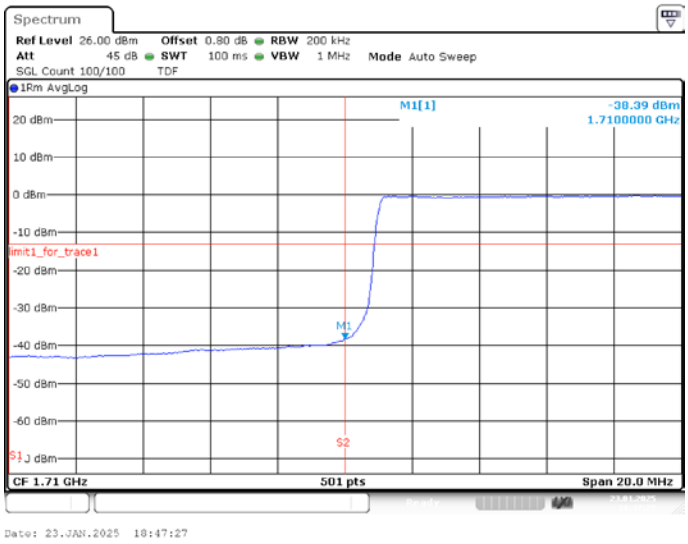
OBW: 1RB-HIGH_offset



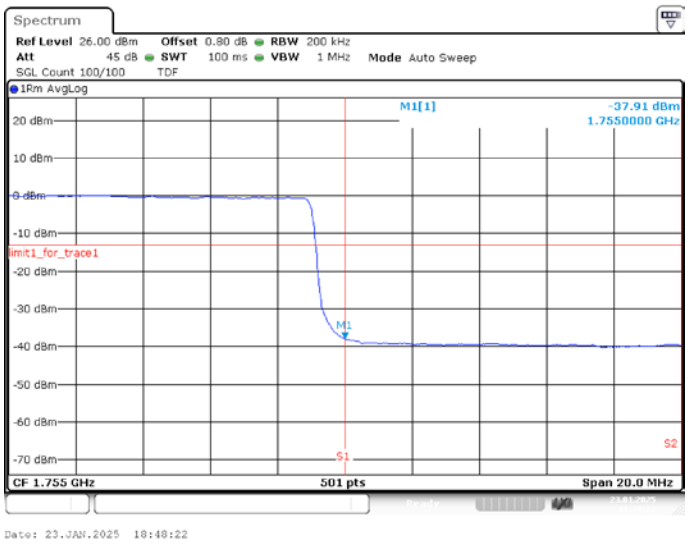
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-20MHz-100%RB

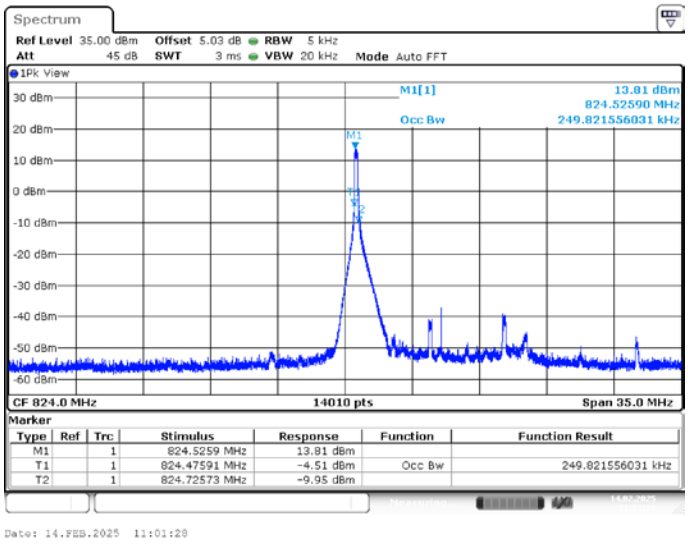


HIGH BAND EDGE BLOCK-20MHz-100%RB

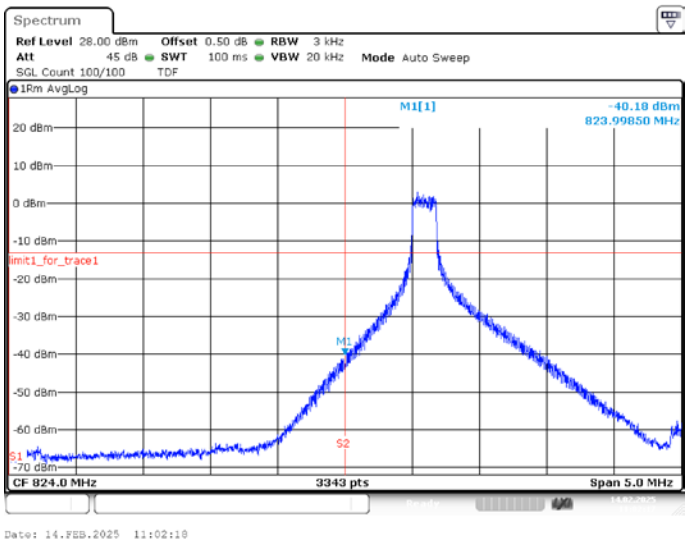


LTE band 5

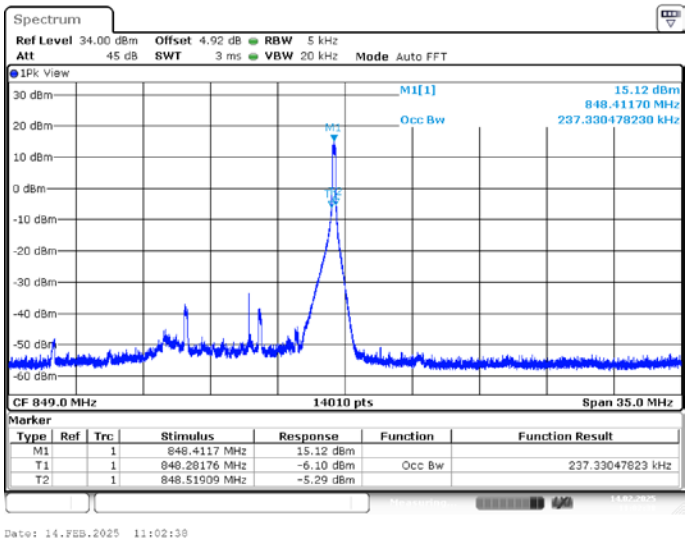
OBW: 1RB-LOW_offset



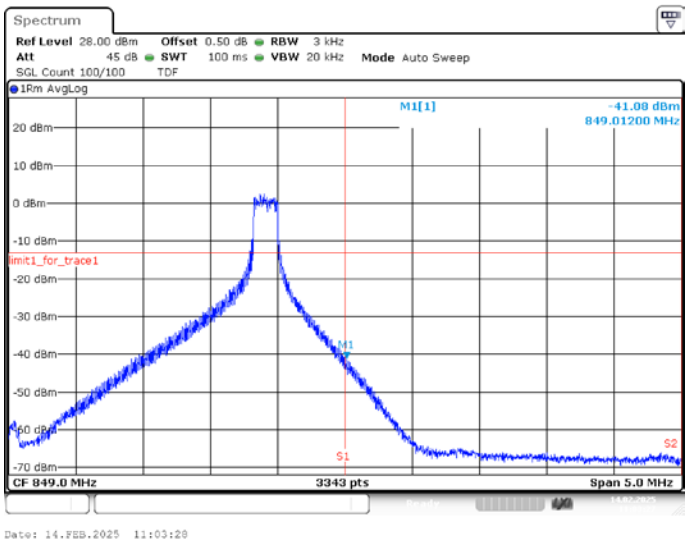
LOW BAND EDGE BLOCK-1RB-LOW_offset



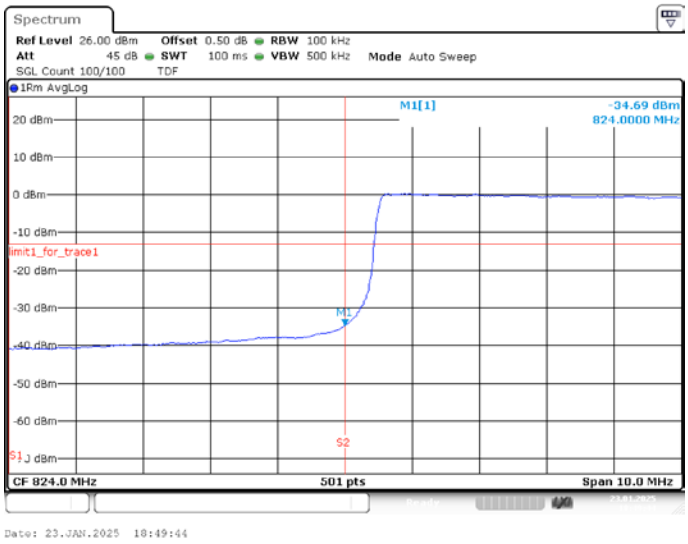
OBW: 1RB-HIGH_offset



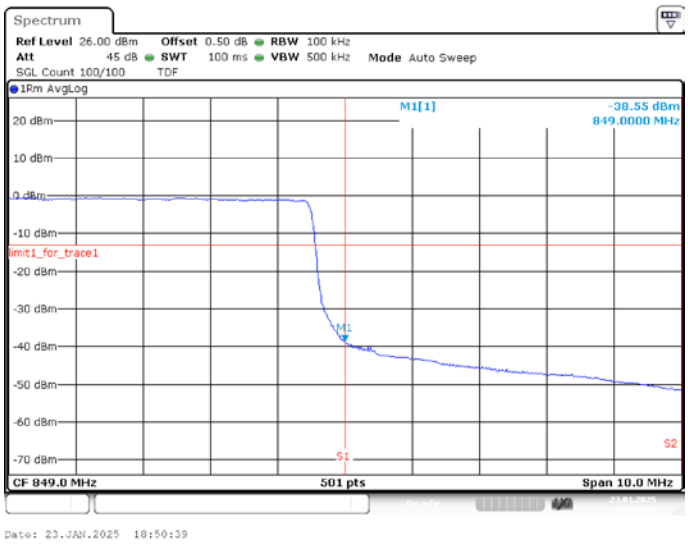
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-10MHz-100%RB

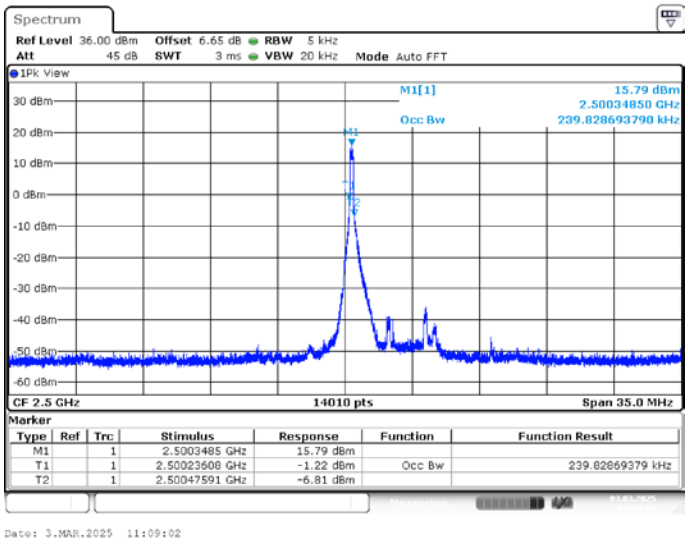


HIGH BAND EDGE BLOCK-10MHz-100%RB

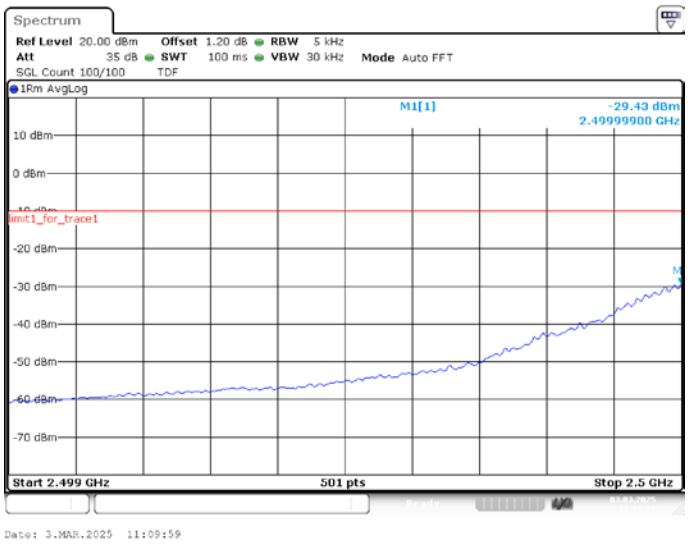


LTE band 7

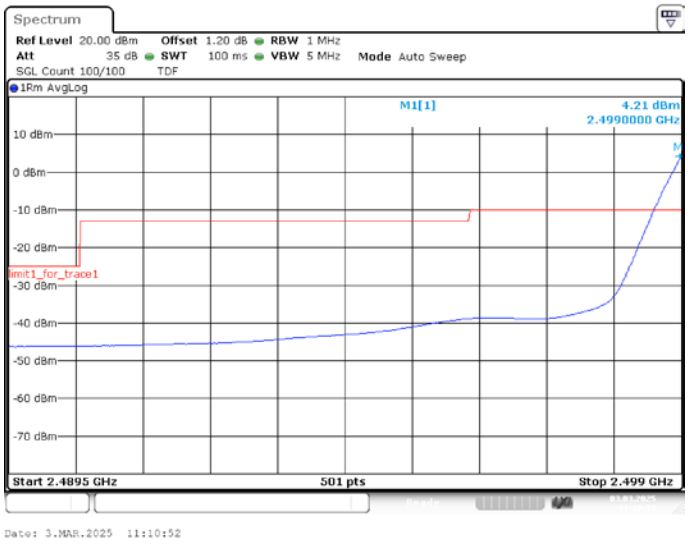
OBW: 1RB-LOW_offset



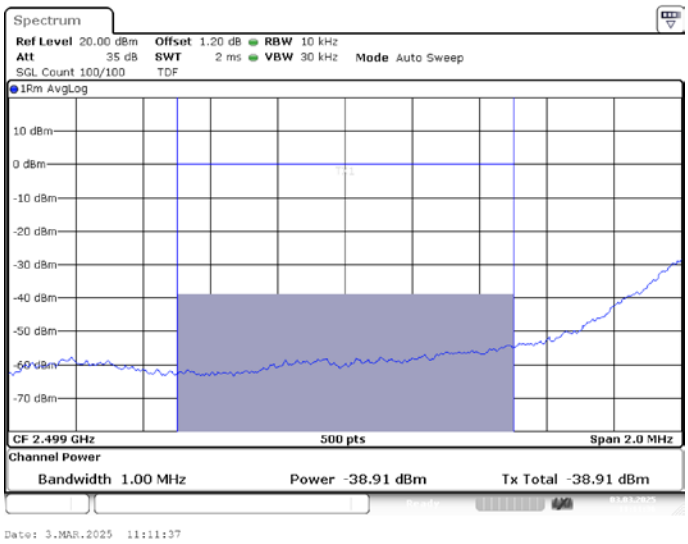
LOW BAND EDGE BLOCK-1RB-LOW_offset



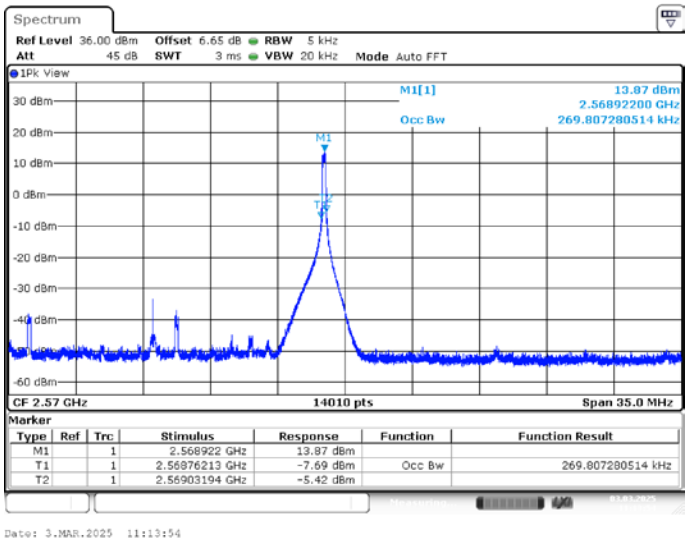
LOW BAND EDGE BLOCK-1RB-LOW_offset



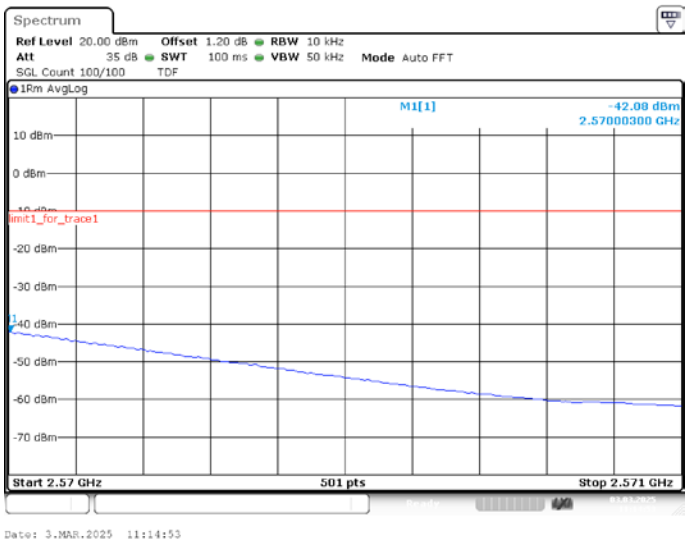
Channel power



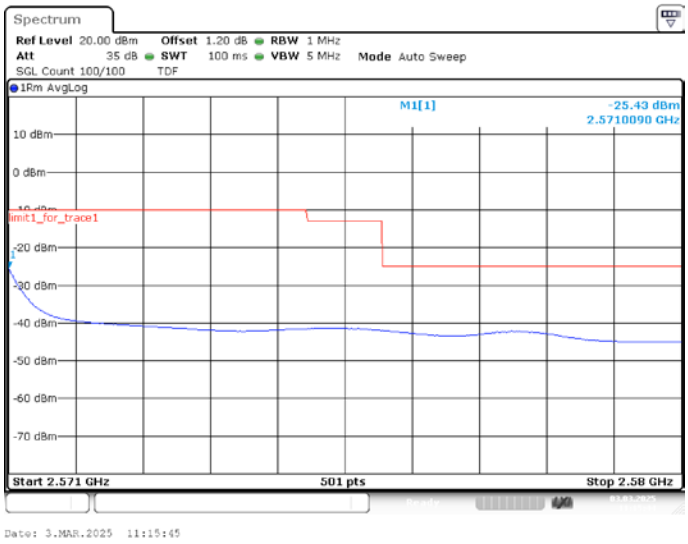
OBW: 1RB-HIGH_offset



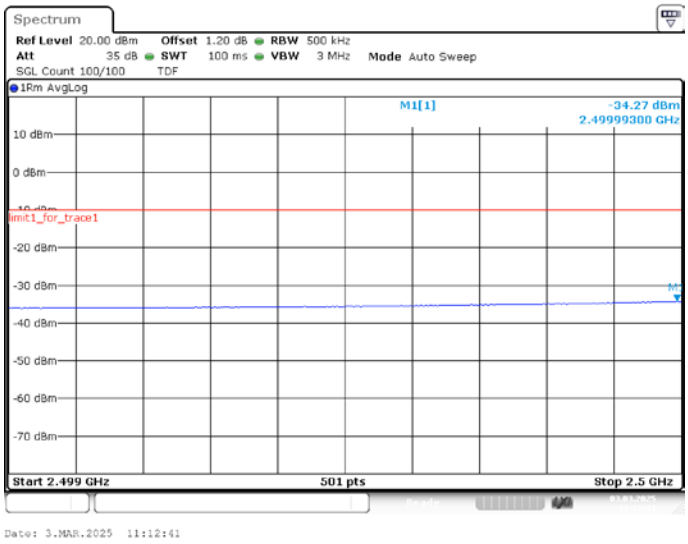
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



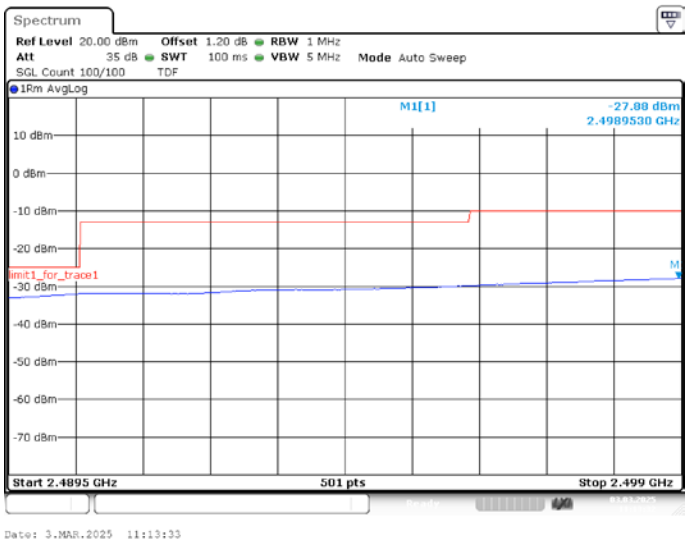
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



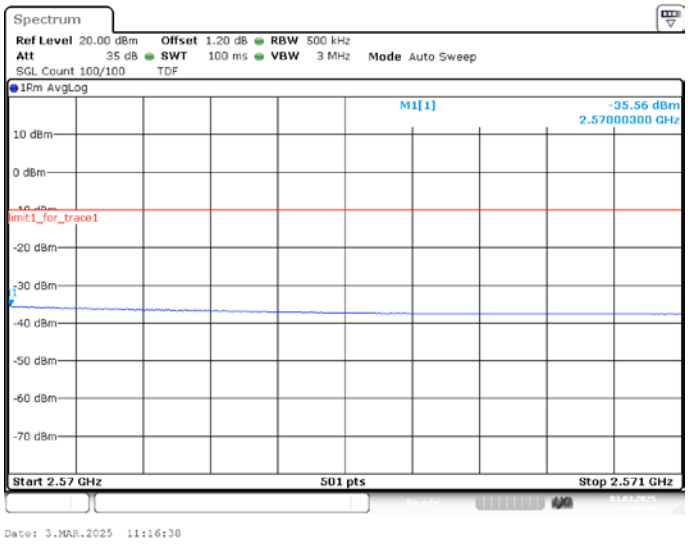
LOW BAND EDGE BLOCK-20MHz-100%RB



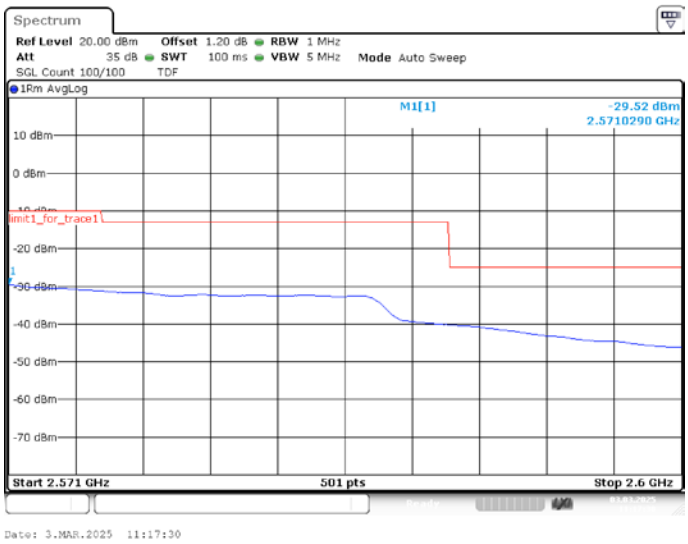
LOW BAND EDGE BLOCK-20MHz-100%RB



HIGH BAND EDGE BLOCK-20MHz-100%RB

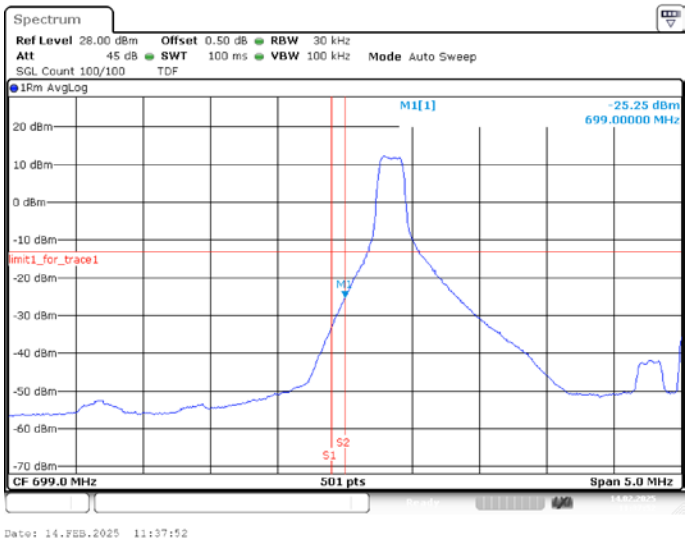


HIGH BAND EDGE BLOCK-20MHz-100%RB

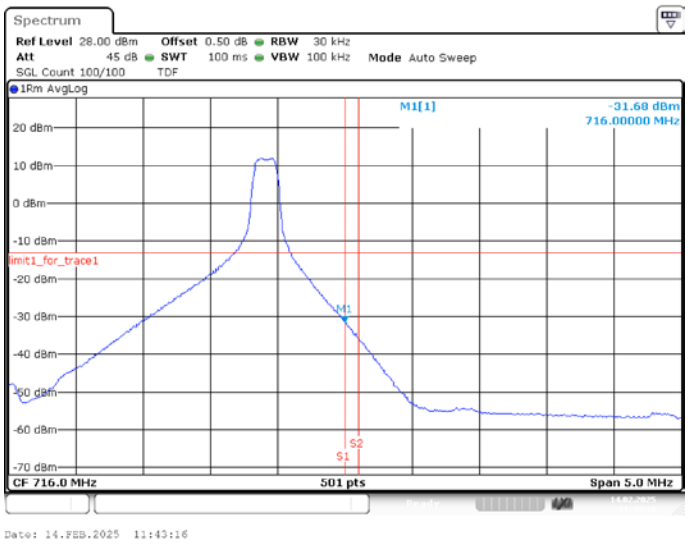


LTE band 12

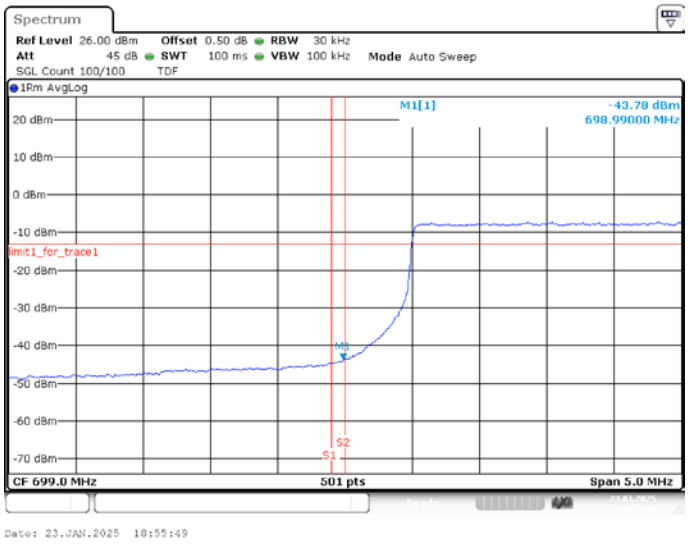
LOW BAND EDGE BLOCK-1RB-LOW_offset



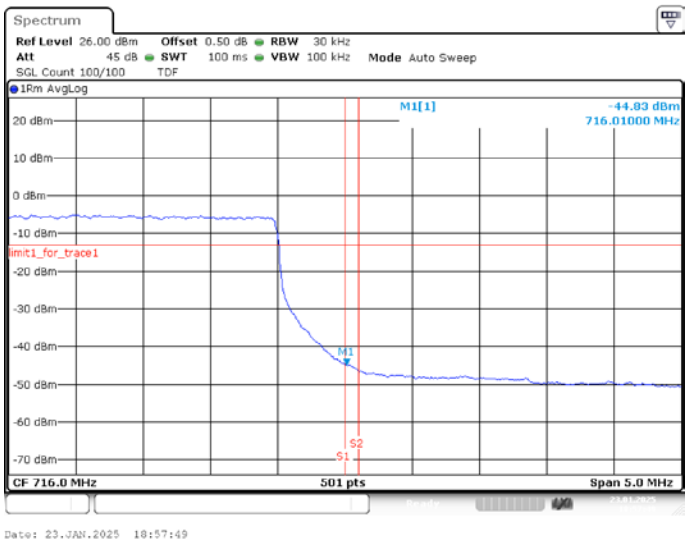
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-10MHz-100%RB

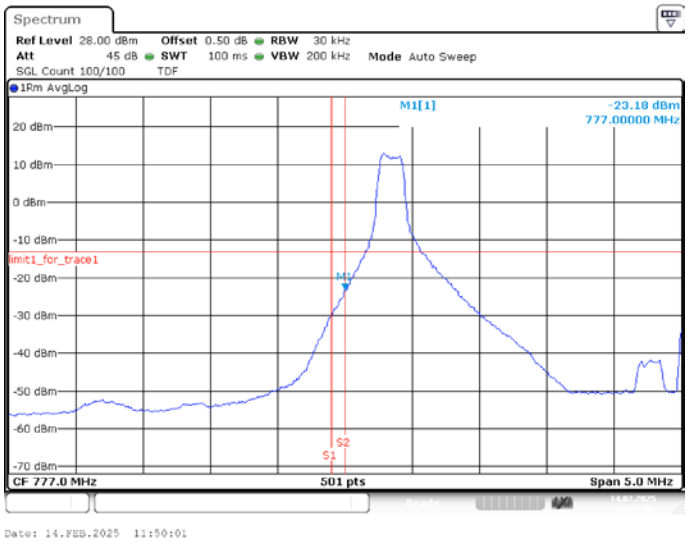


HIGH BAND EDGE BLOCK-10MHz-100%RB

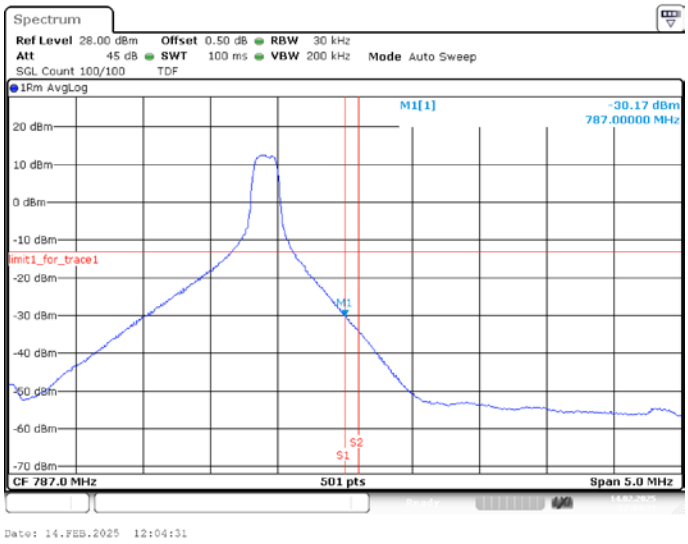


LTE band 13

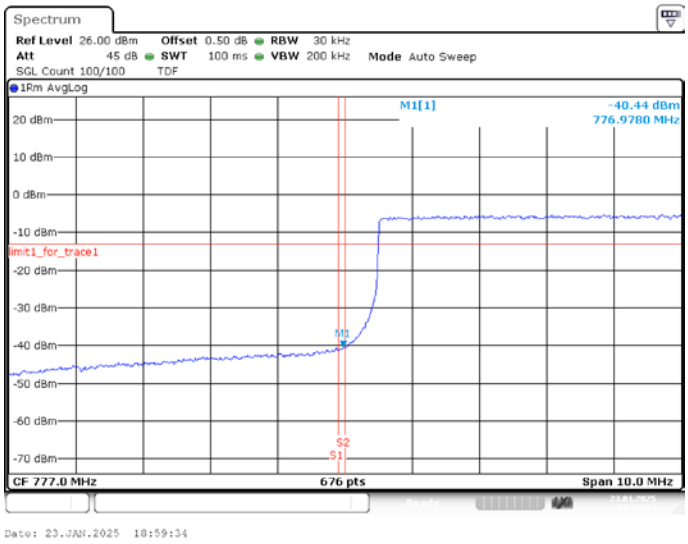
LOW BAND EDGE BLOCK-1RB-LOW_offset



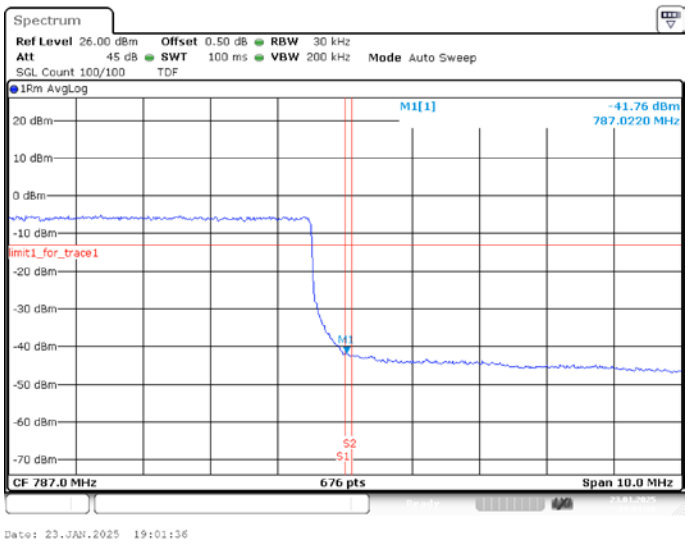
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-10MHz-100%RB

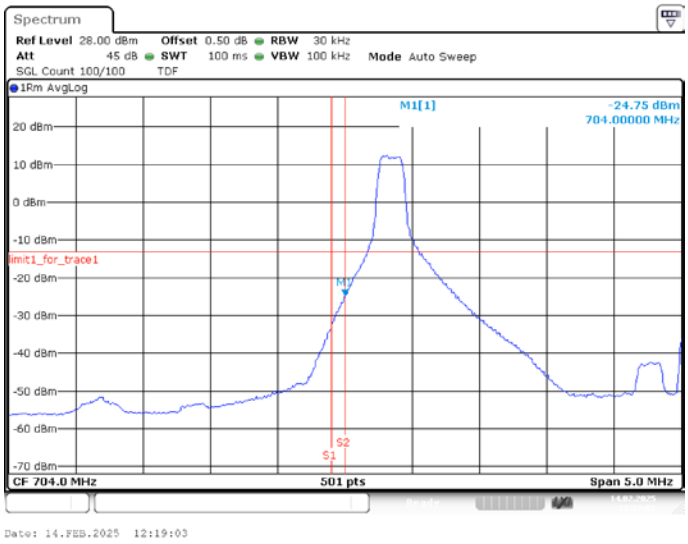


HIGH BAND EDGE BLOCK-10MHz-100%RB

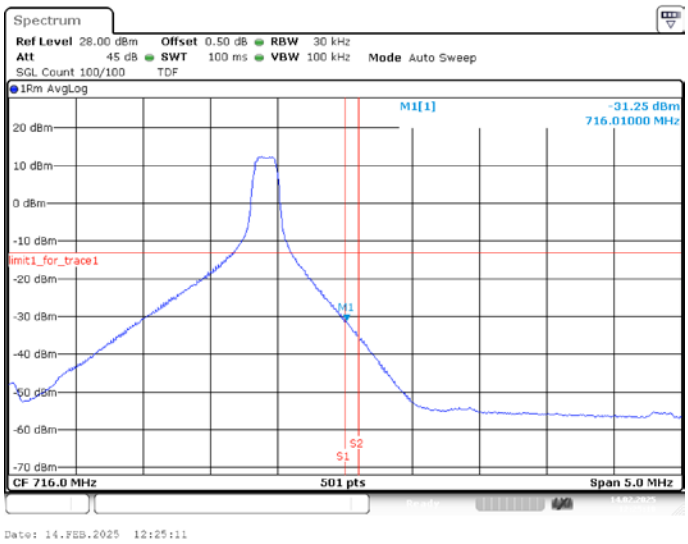


LTE band 17

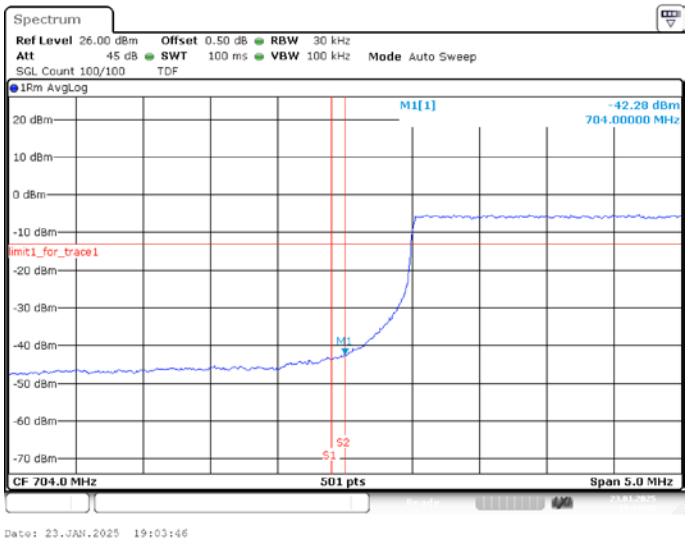
LOW BAND EDGE BLOCK-1RB-LOW_offset



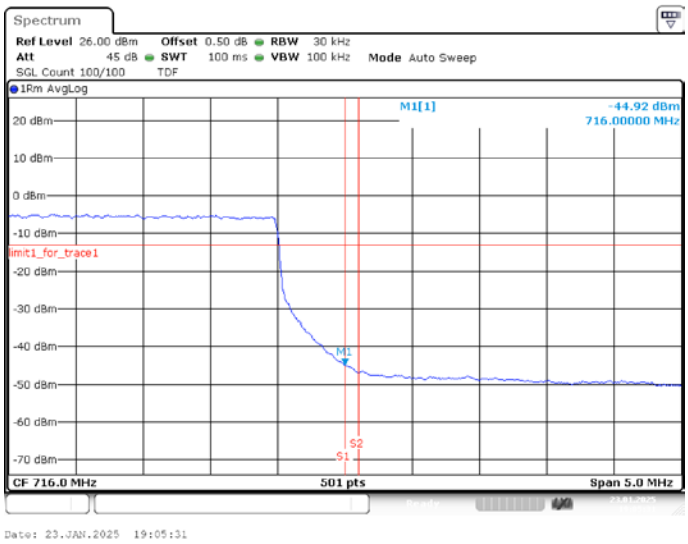
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-10MHz-100%RB

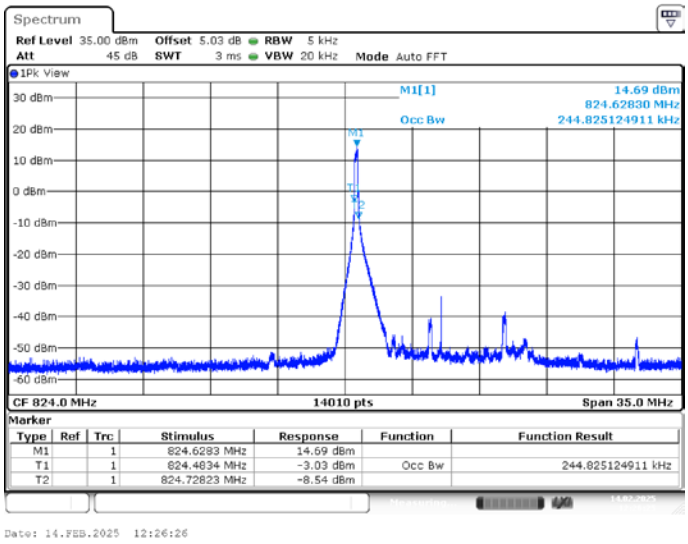


HIGH BAND EDGE BLOCK-10MHz-100%RB

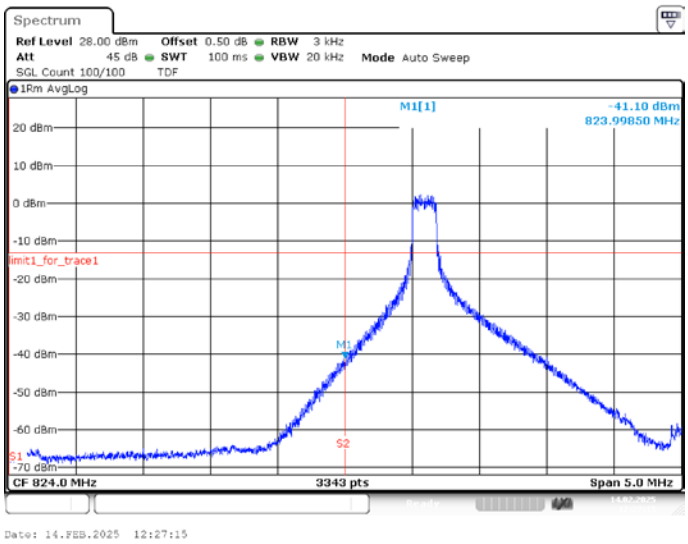


LTE band 26(824MHz~849MHz)

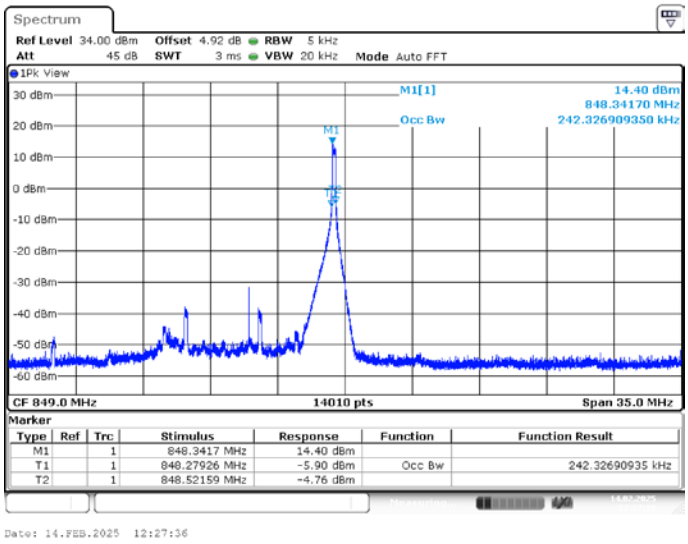
OBW: 1RB-LOW_offset



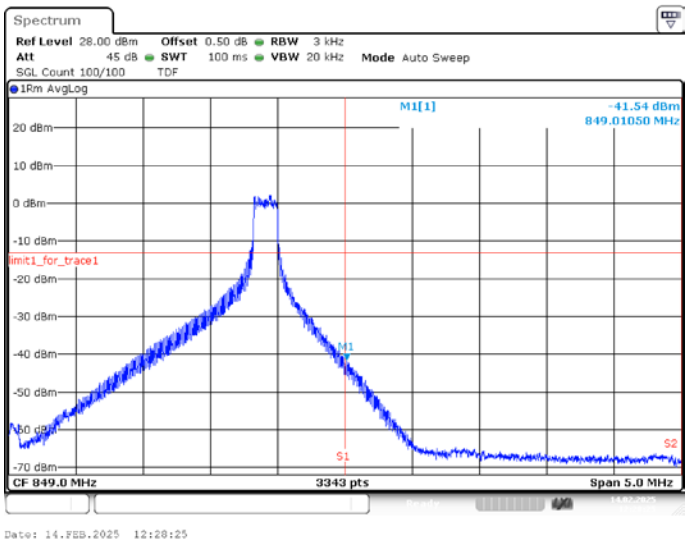
LOW BAND EDGE BLOCK-1RB-LOW_offset



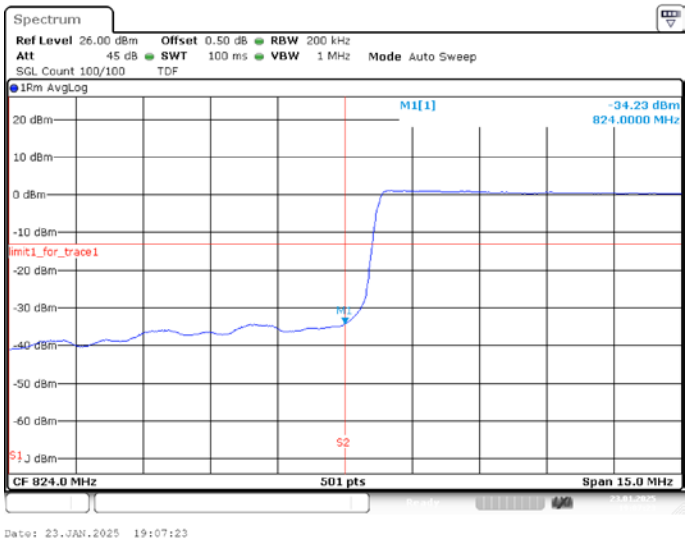
OBW: 1RB-HIGH_offset



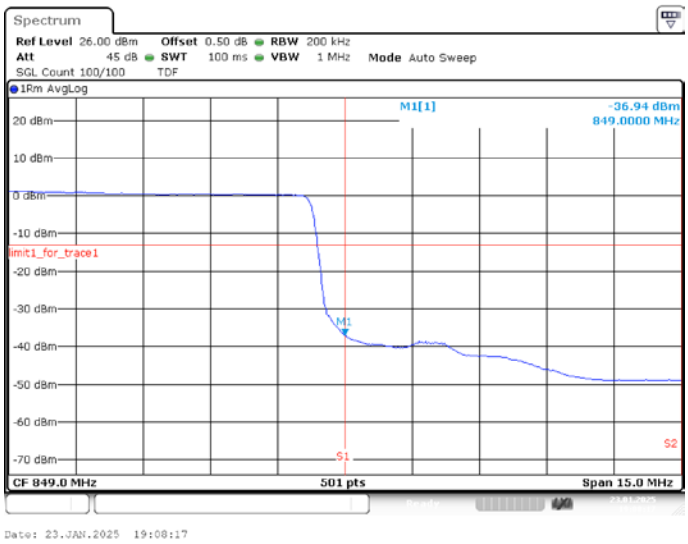
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-15MHz-100%RB

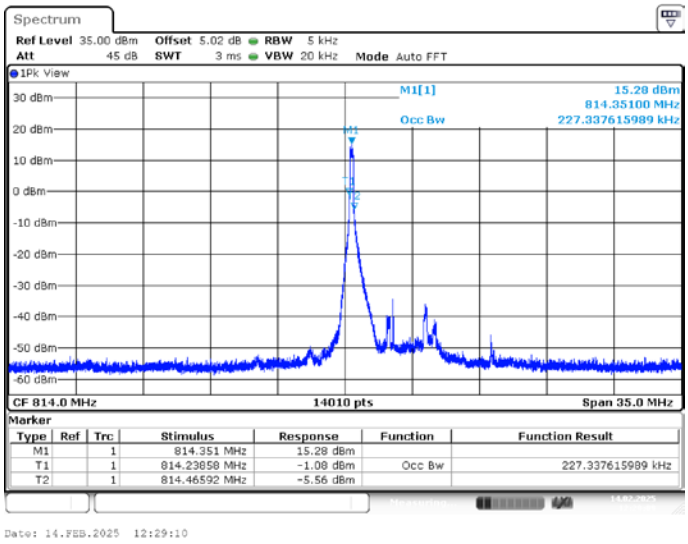


HIGH BAND EDGE BLOCK-15MHz-100%RB

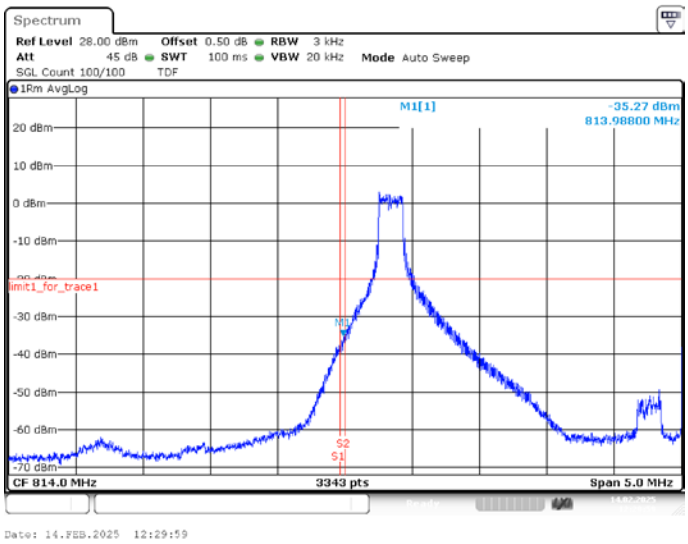


LTE band 26(814MHz~824MHz)

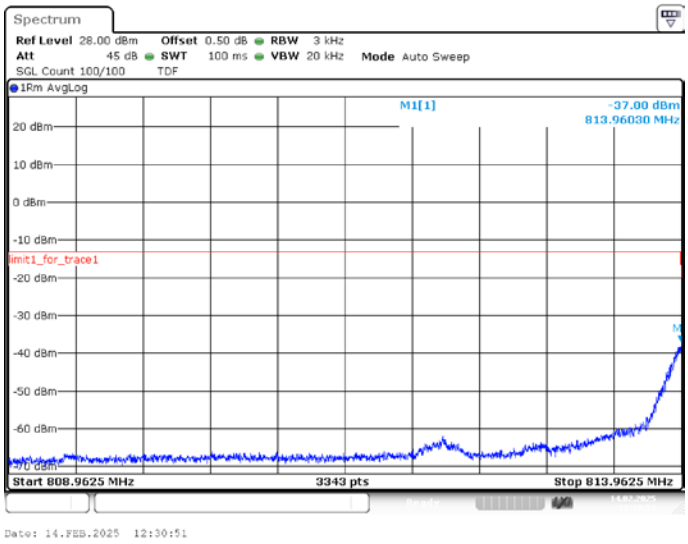
OBW: 1RB-LOW_offset



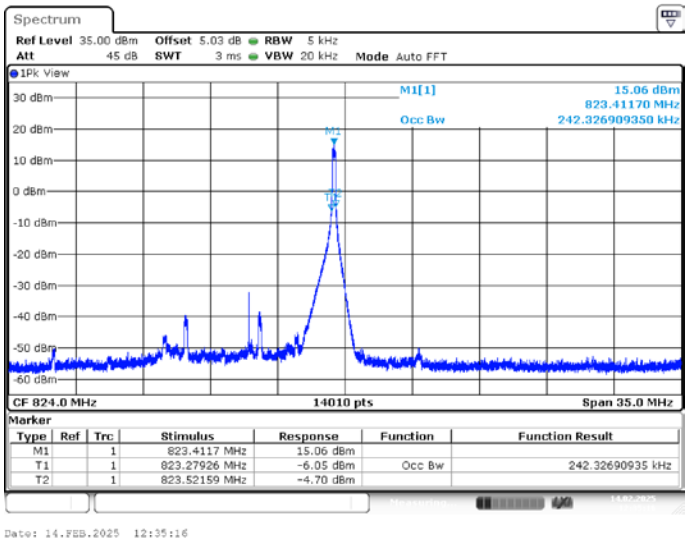
LOW BAND EDGE BLOCK-1RB-LOW_offset



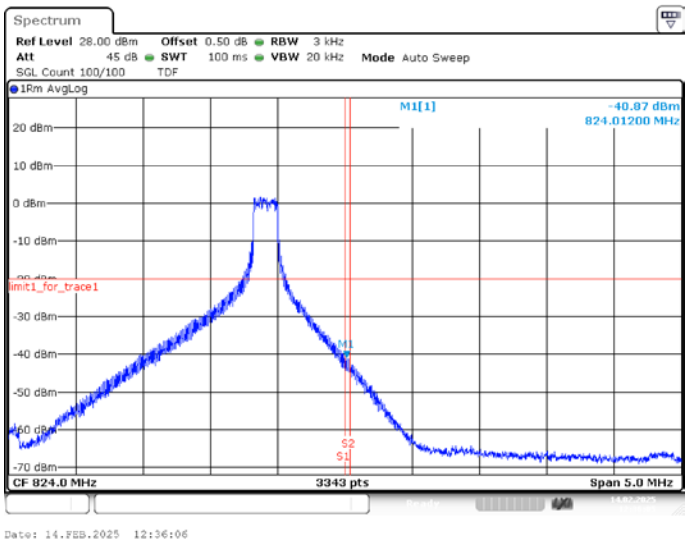
LOW BAND EDGE BLOCK-1RB-LOW_offset



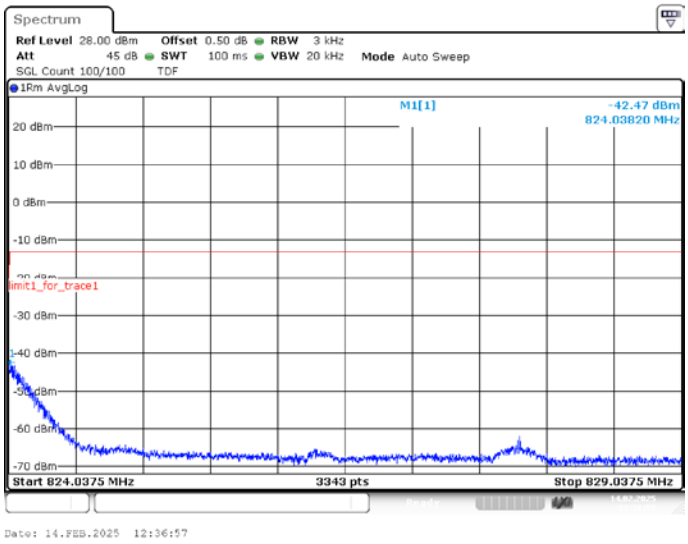
OBW: 1RB-HIGH_offset



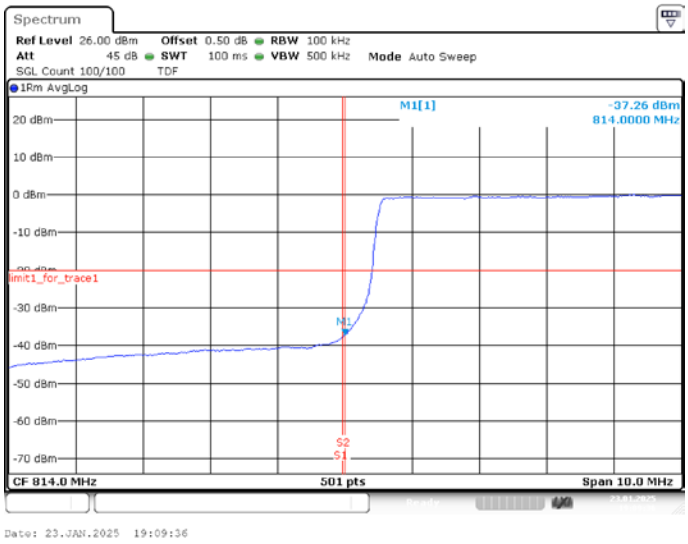
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



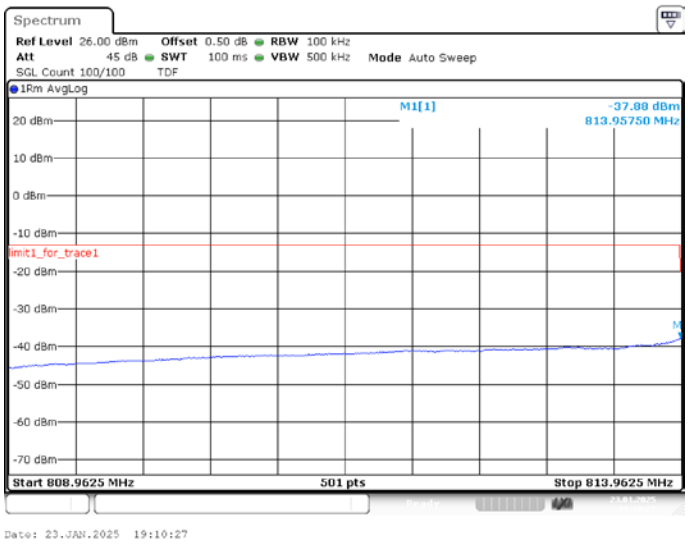
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



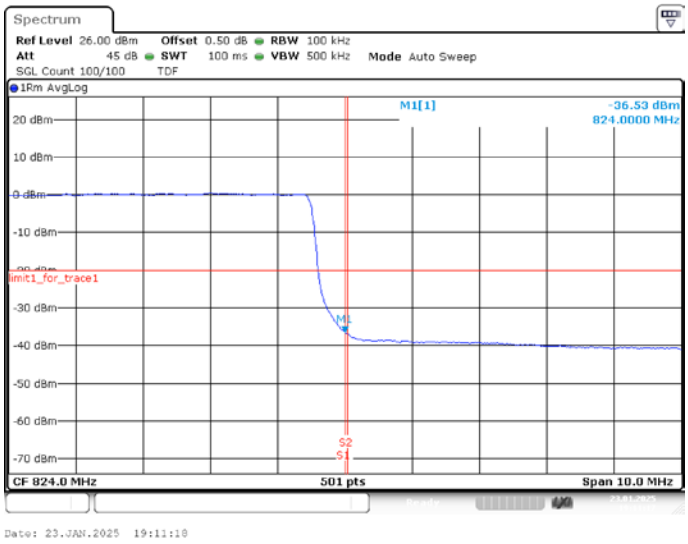
LOW BAND EDGE BLOCK-10MHz-100%RB



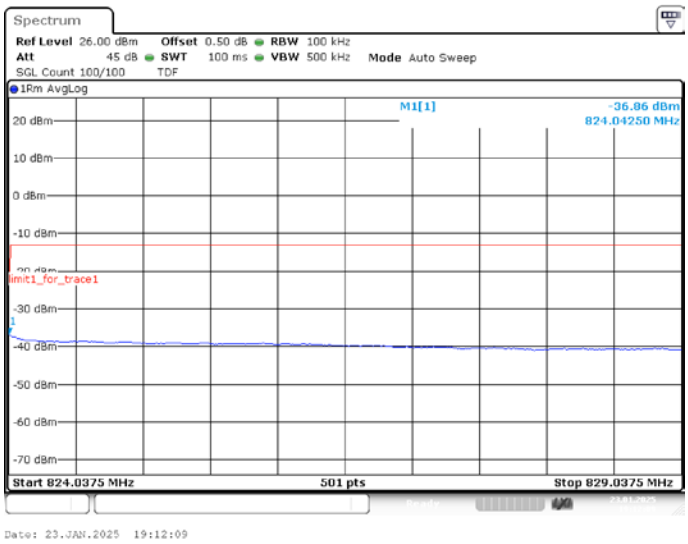
LOW BAND EDGE BLOCK-10MHz-100%RB



HIGH BAND EDGE BLOCK-10MHz-100%RB

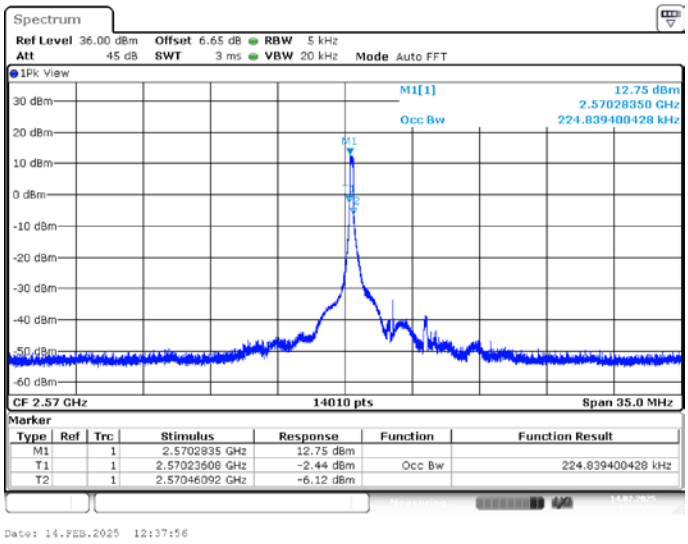


HIGH BAND EDGE BLOCK-10MHz-100%RB

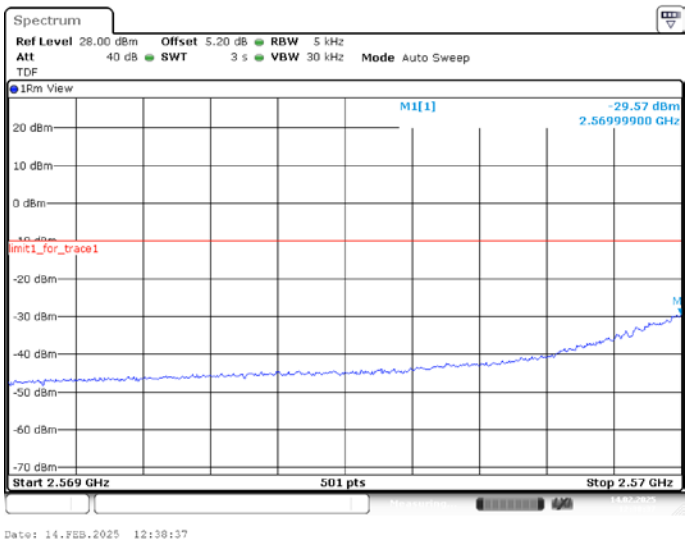


LTE band 38

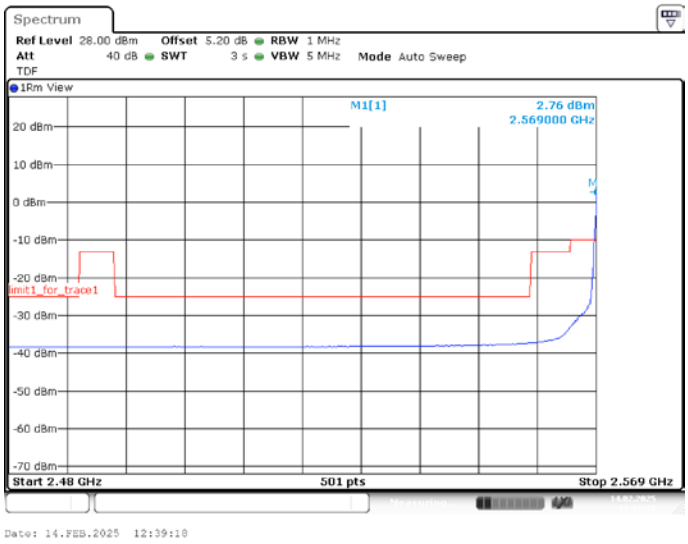
OBW: 1RB-LOW_offset



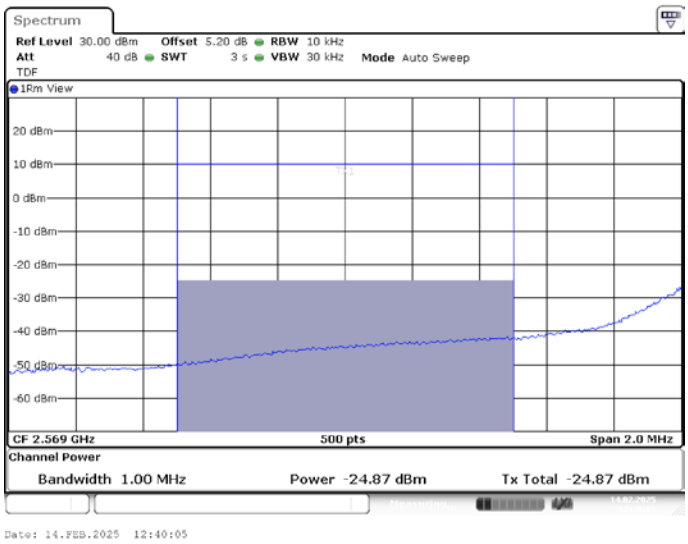
LOW BAND EDGE BLOCK-1RB-LOW_offset



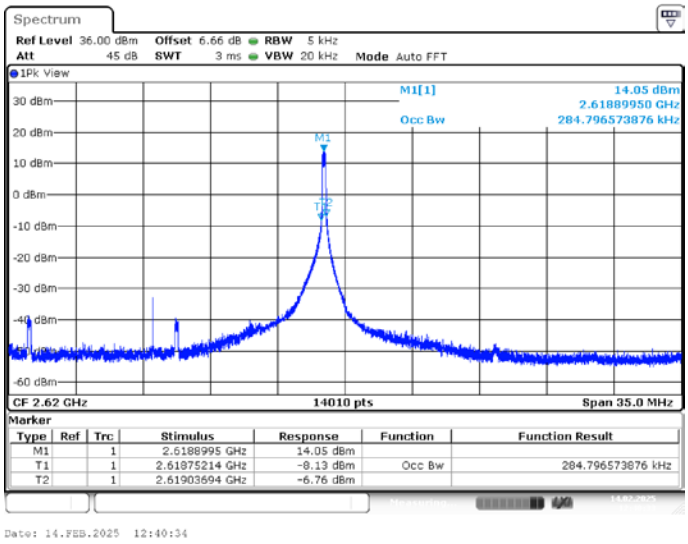
LOW BAND EDGE BLOCK-1RB-LOW_offset



Channel power



OBW: 1RB-HIGH_offset



HIGH BAND EDGE BLOCK-1RB-HIGH_offset