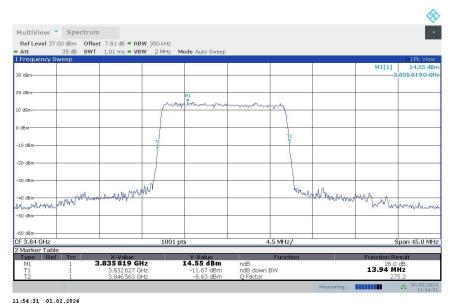




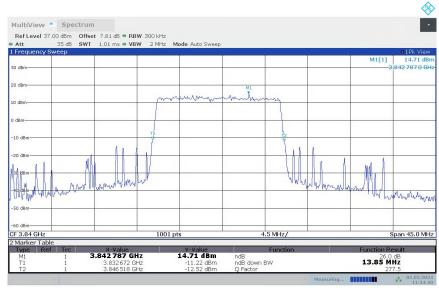
# n77H n77H,15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	13.936	13.846

#### n77H,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



#### n77H,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



11:54:48 01.02.2024

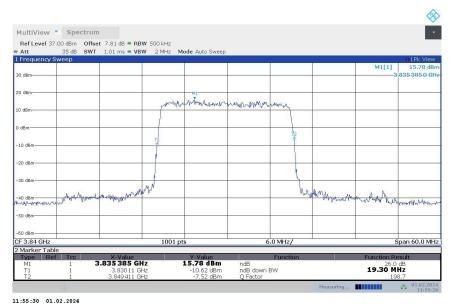




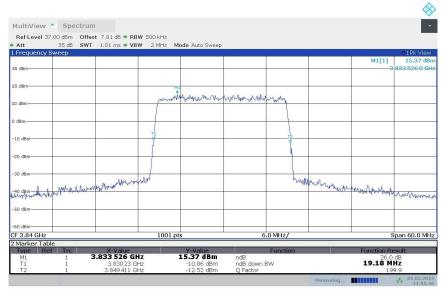
# n77H n77H,20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	19.301	19.181

#### n77H,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



#### n77H,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



11:55:47 01.02.2024

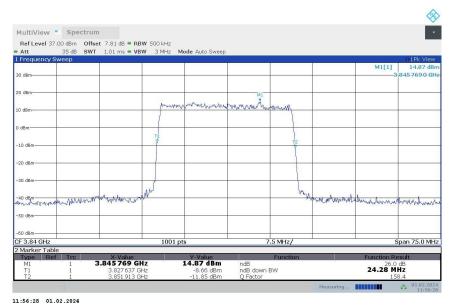




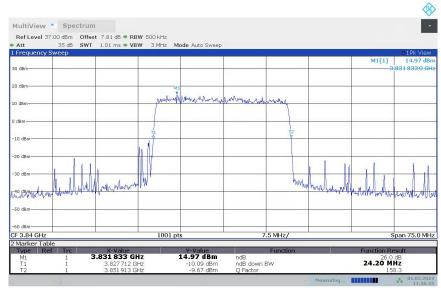
# n77H n77H,25MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	24.276	24.201

#### n77H,25MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



#### n77H,25MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



11:56:45 01.02.2024

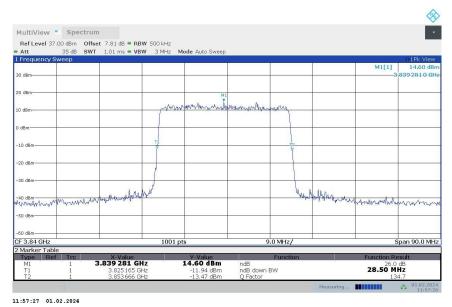




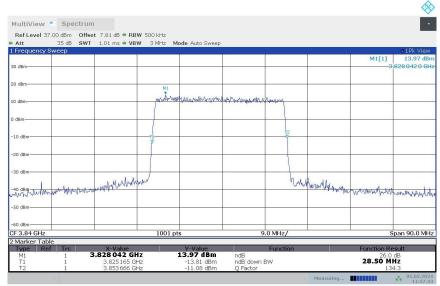
# n77H n77H,30MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	28.501	28.501

#### n77H,30MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



#### n77H,30MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



11:57:43 01.02.2024

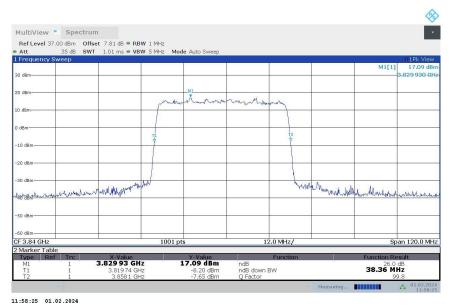




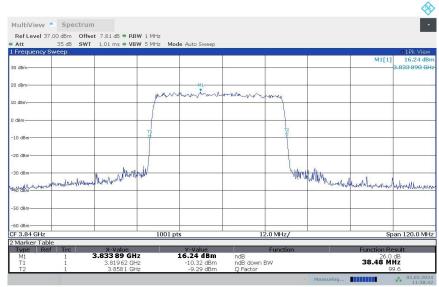
# n77H n77H,40MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	38.360	38.480

#### n77H,40MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



#### n77H,40MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



11:58:42 01.02.2024

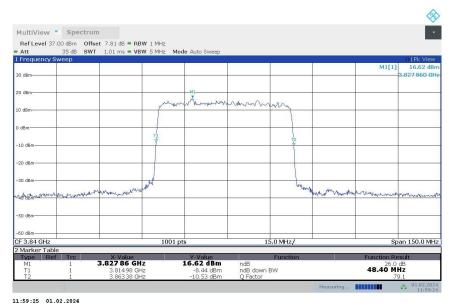




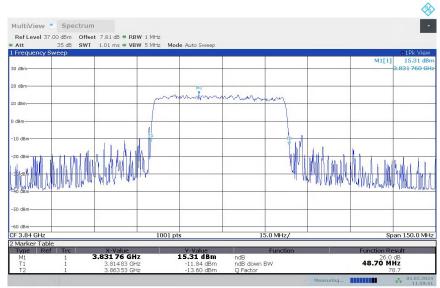
# n77H n77H,50MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	48.400	48.700

#### n77H,50MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



#### n77H,50MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



11:59:41 01.02.2024





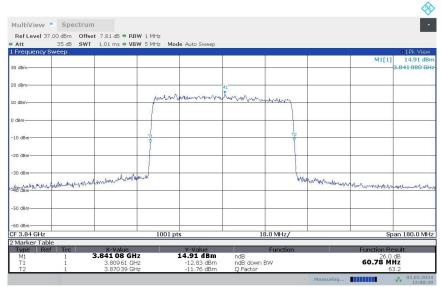
# n77H n77H,60MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	60.780	60.780

#### n77H,60MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



#### n77H,60MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



12:00:40 01.02.2024





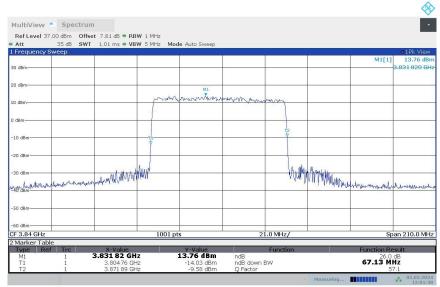
# n77H n77H,70MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	67.130	67.130

#### n77H,70MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



#### n77H,70MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



12:01:39 01.02.2024

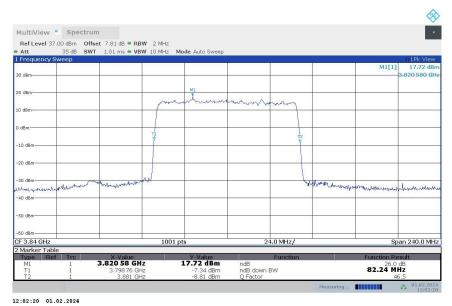




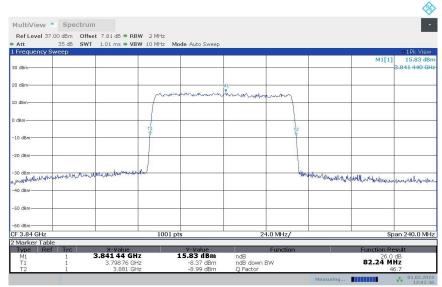
# n77H n77H,80MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	82.240	82.240

#### n77H,80MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



#### n77H,80MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



12:02:37 01.02.2024

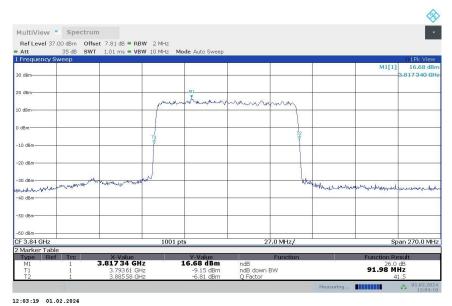




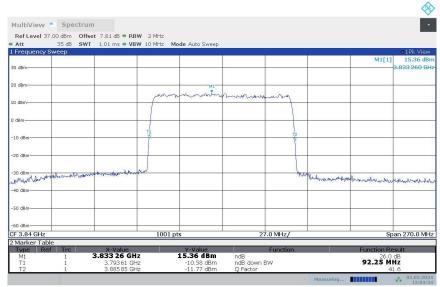
# n77H n77H,90MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	91.980	92.250

#### n77H,90MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



#### n77H,90MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



12:03:35 01.02.2024

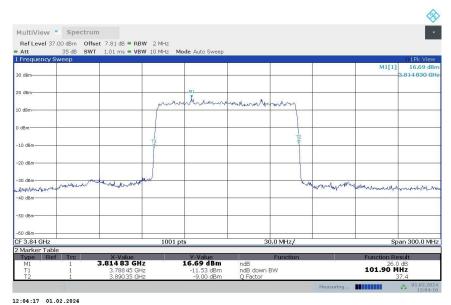




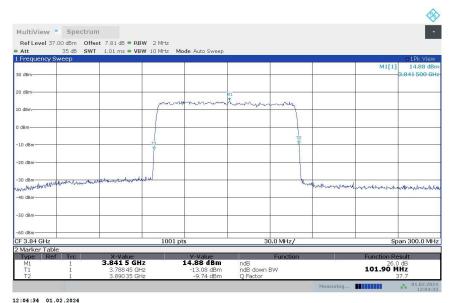
# n77H n77H,100MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	101.900	101.900

#### n77H,100MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



#### n77H,100MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



Note: The maximum value of expanded measurement uncertainty for this test item is U = 0.626 kHz, k = 2.





# 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(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 116Log10(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 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.

Part 96.41(e) states for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, @Copyright. All rights reserved by CTTL. Page 666 of 743





the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB. Part 27.53(n) states for mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. 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.

Part 27.53(I) states for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (I)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either 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.

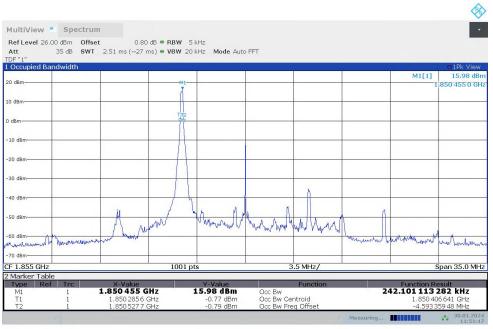
The spectrum analyzer readings are corrected by [10 log (1/duty cycle)] for the non-continuous transmitting scenario.





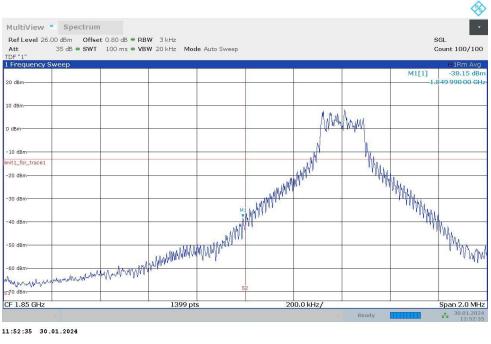
# A.6.2 Measurement result NR n2

# OBW: 1RB-LOW\_offset



11:51:48 30.01.2024

# LOW BAND EDGE BLOCK-1RB-LOW\_offset

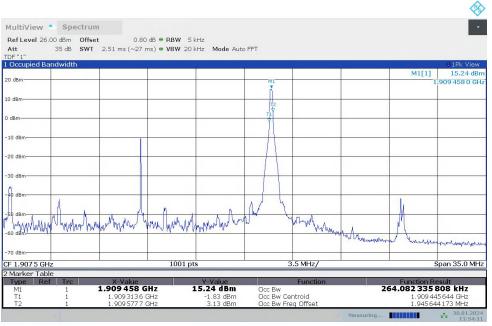


11:52:35 30.01.2024



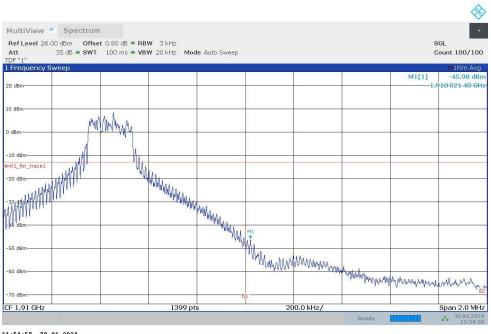


#### OBW: 1RB-HIGH\_offset



11:54:11 30.01.2024

# HIGH BAND EDGE BLOCK-1RB-HIGH\_offset

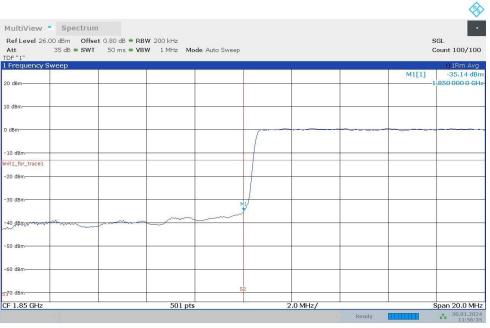


11:54:58 30.01.2024





# LOW BAND EDGE BLOCK-40M-100%RB



11:56:36 30.01.2024

## HIGH BAND EDGE BLOCK-40M-100%RB

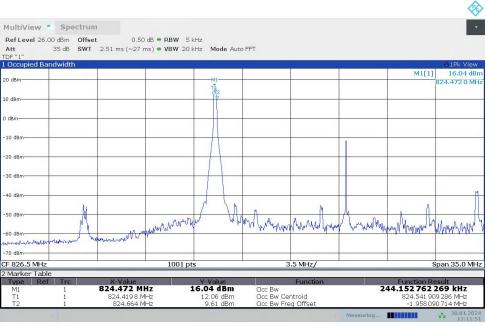
MultiView Spectrum Ref Level 26.00 dBm Offset 0					SGL
	50 ms = VBW 1 MHz Moo	le Auto Sweep			Count 100/100
Frequency Sweep			1		O1Rm Avg
0 dBm				M	1[1] -38.18 dBi 
0 dBm					
rdBm					
10 dBm					
hit1_for_trace1					
20 dBm-					
30 dBm					
40 dBm		W1	mm	mmm	mmmmmm
50 dBm			~ ~		
50 dBm					
70 dBm					
F 1.91 GHz	501 pts		2.0 MHz/		Span 20.0 M

11:58:29 30.01.2024



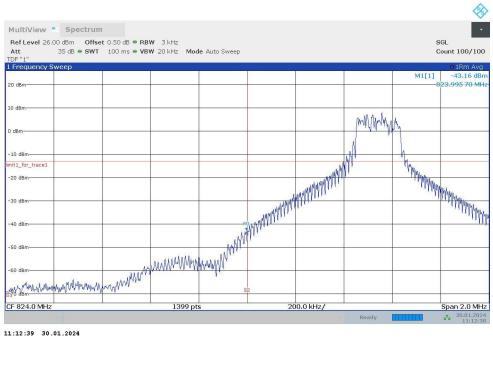


# NR n5 OBW: 1RB-LOW\_offset



11:11:51 30.01.2024

# LOW BAND EDGE BLOCK-1RB-LOW\_offset





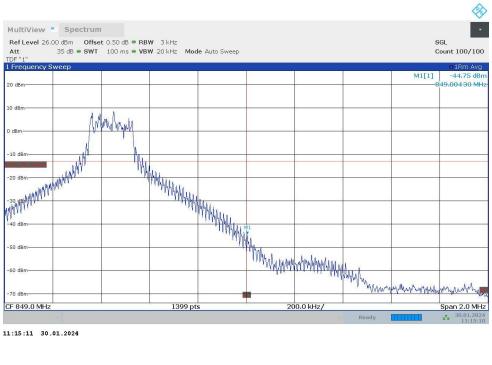


#### OBW: 1RB-HIGH\_offset



11:14:23 30.01.2024

# HIGH BAND EDGE BLOCK-1RB-HIGH\_offset

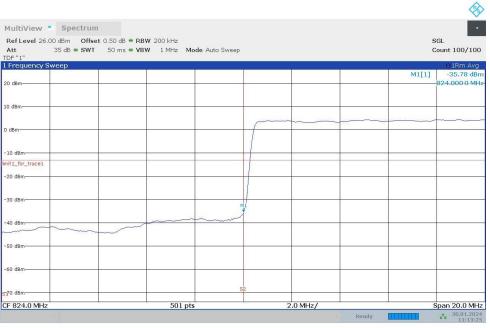


11:15:11 30.01.2024



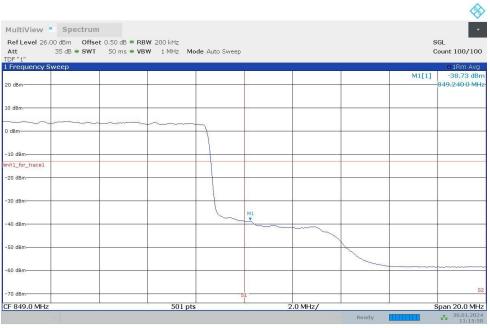


# LOW BAND EDGE BLOCK-20M-100%RB



11:13:25 30.01.2024

## HIGH BAND EDGE BLOCK-20M-100%RB

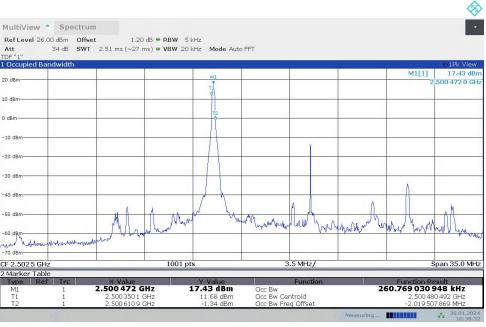


11:15:58 30.01.2024





# NR n7 OBW: 1RB-LOW\_offset



10:38:32 30.01.2024

# LOW BAND EDGE BLOCK-1RB-LOW\_offset

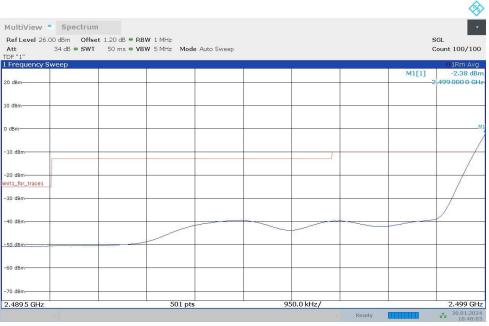
ultiView Spectrum			
tt 34 dB 🖷 SWT	1.20 dB • RBW 10 kHz 50 ms • VBW 50 kHz Mode Auto Swe	eep	SGL Count 100/10
= "1" requency Sweep	A		o 1Rm Av
dBm			M1[1] -36.87 dE
aBm-			2,499 991 00 0
dBm-			
Bm-			
dBm _for_trace1			
dBm-			
dBm			
dBm			
ubm			and a second
dBm		- A market and a	
dBm		manne	
and a second			
dBm			
499 GHz	501 pts	100.0 kHz/	2.5 G

10:39:18 30.01.2024



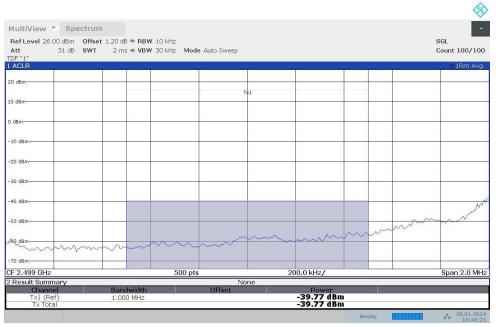


# LOW BAND EDGE BLOCK-1RB-LOW\_offset



10:40:04 30.01.2024

#### **Channel power**

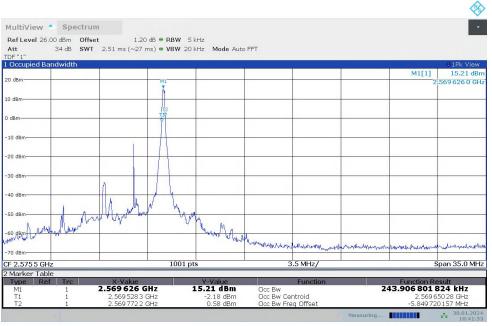


10:40:21 30.01.2024



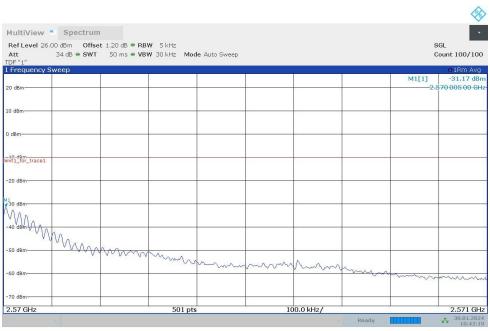


#### OBW: 1RB-HIGH\_offset



10:41:33 30.01.2024

#### HIGH BAND EDGE BLOCK-1RB-HIGH\_offset

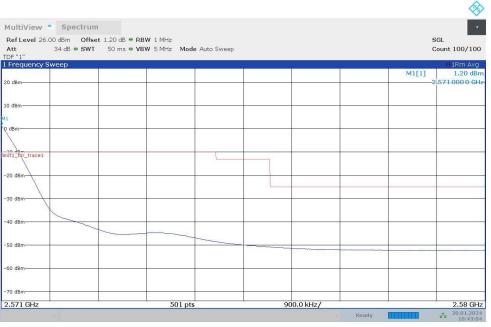


10:42:19 30.01.2024





# HIGH BAND EDGE BLOCK-1RB-HIGH\_offset



10:43:05 30.01.2024

#### **Channel power**

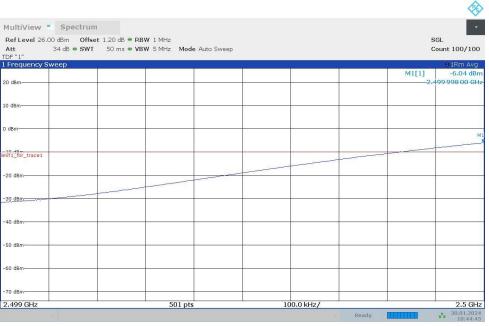


10:43:22 30.01.2024





#### LOW BAND EDGE BLOCK-50M-100%RB



10:44:46 30.01.2024

#### **Channel power**



10:45:03 30.01.2024





# LOW BAND EDGE BLOCK-50M-100%RB

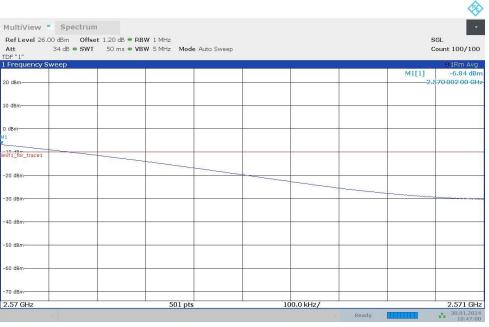
ultiView • Spectrum				V
ef Level 26.00 dBm Offset	1.20 dB 🖷 RBW 1 MHz			SGL
	50 ms • VBW 5 MHz Mode	e Auto Sweep		Count 100/100
requency Sweep				 O 1Rm Avg
d8m-				 M1[1] -30.13 dBm -2,498 972 0 GHz
JBm				 
3m				 
dBm				
dBm				 
dBm-				 M
dBm				 
189 5 GHz	501 pts	· · · · ·	950.0 kHz/	 2.499 GHz

10:45:48 30.01.2024



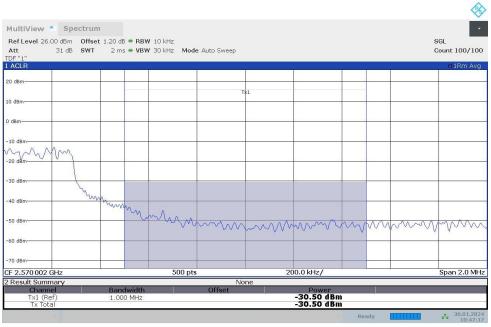


#### HIGH BAND EDGE BLOCK-50M-100%RB



10:47:00 30.01.2024

#### **Channel power**

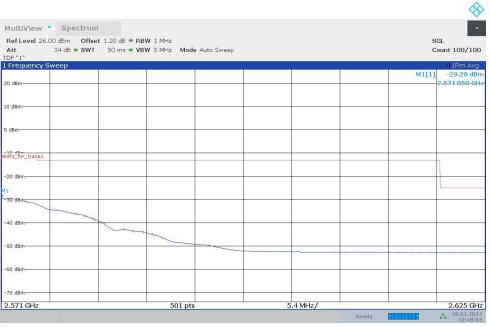


10:47:18 30.01.2024





#### HIGH BAND EDGE BLOCK-50M-100%RB

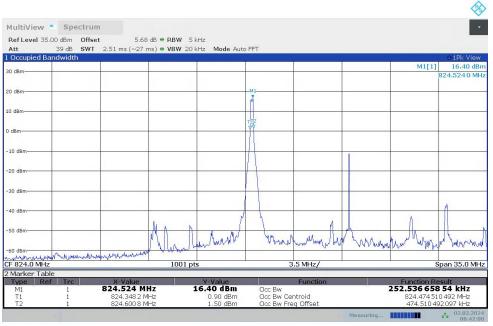


10:48:03 30.01.2024



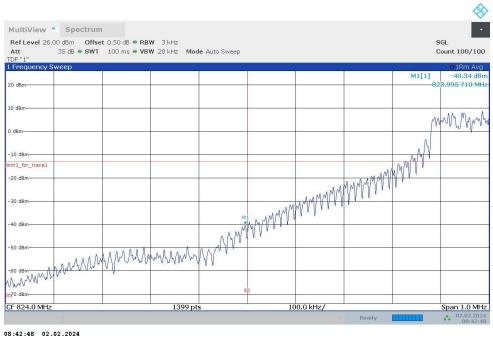


# NR n26\_Part22 OBW: 1RB-LOW\_offset



08:42:01 02.02.2024

# LOW BAND EDGE BLOCK-1RB-LOW\_offset

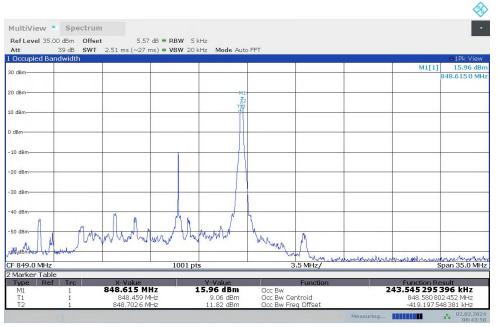


08:42:48 02.02.2024



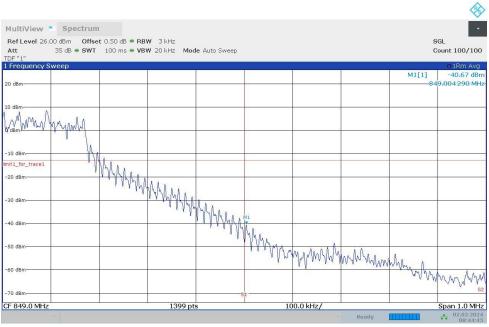


#### OBW: 1RB-HIGH\_offset



08:43:58 02.02.2024

#### HIGH BAND EDGE BLOCK-1RB-HIGH\_offset



08:44:46 02.02.2024



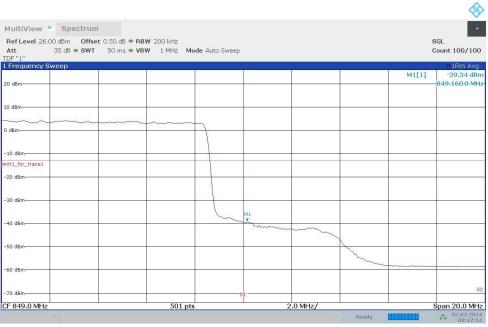


#### LOW BAND EDGE BLOCK-20M-100%RB

		M1[1]	0 1Rm Avg -36.07 dBr
			824,000 0 MH
	+		
	-		
Mį			
 ~~~			
52			

08:46:26 02.02.2024

#### HIGH BAND EDGE BLOCK-20M-100%RB

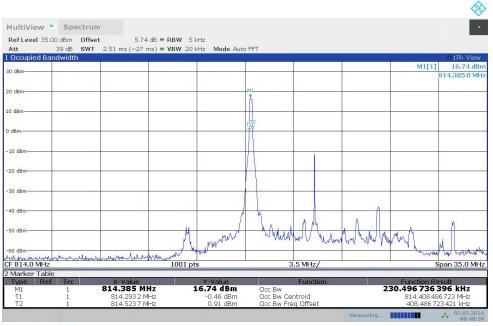


08:47:55 02.02.2024



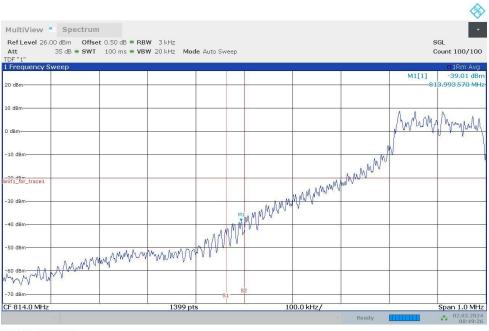


# NR n26\_Part90 OBW: 1RB-LOW\_offset



08:48:39 02.02.2024

# LOW BAND EDGE BLOCK-1RB-LOW\_offset

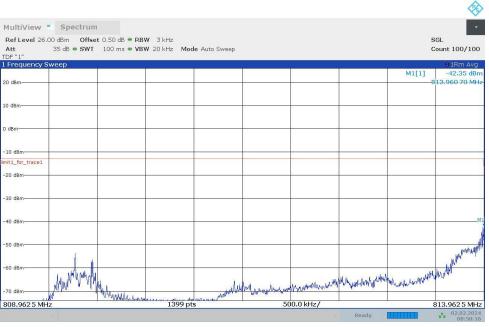


08:49:26 02.02.2024



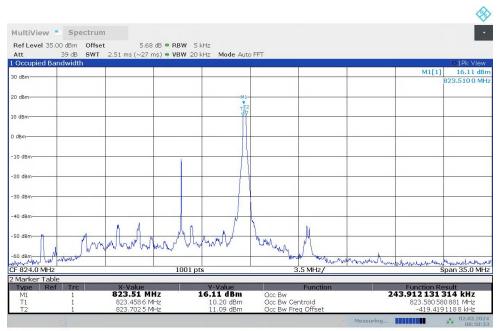


#### LOW BAND EDGE BLOCK-1RB-LOW\_offset



08:50:17 02.02.2024

#### OBW: 1RB-HIGH\_offset

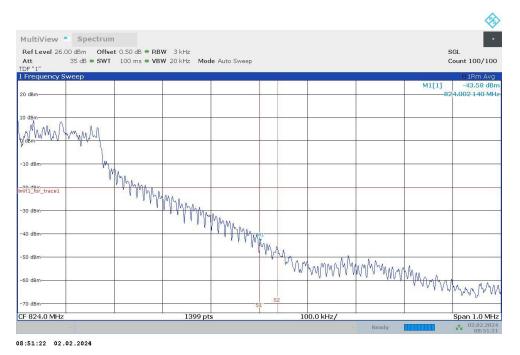


08:50:34 02.02.2024

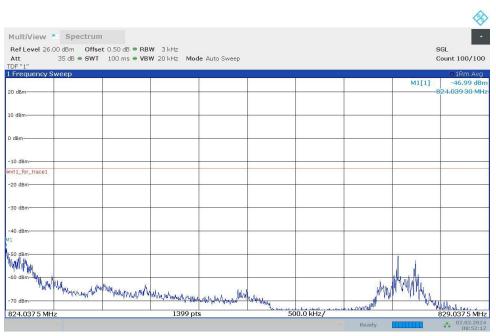




# HIGH BAND EDGE BLOCK-1RB-HIGH\_offset



HIGH BAND EDGE BLOCK-1RB-HIGH\_offset

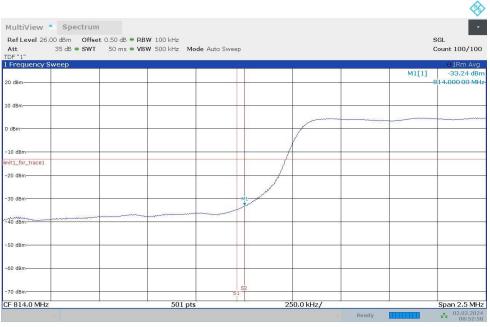


08:52:12 02.02.2024





#### LOW BAND EDGE BLOCK-10M-100%RB



08:52:59 02.02.2024

#### LOW BAND EDGE BLOCK-10M-100%RB

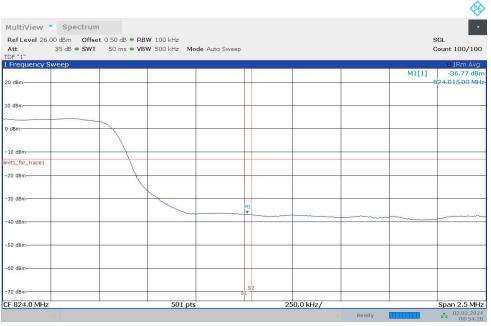
: 35 dB • SWT 50 ms "1" equency Sweep	VBW 500 kHz Mode Auto Swe	ep		Count 100/10
				o 1Rm Avg
Bm			N	M1[1] -34.93 dB 
3m				
m				
JBm				
_for_trace1				
JBm-				
JBm-				
18m				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
		7		
JBm				
JBm				

08:53:43 02.02.2024



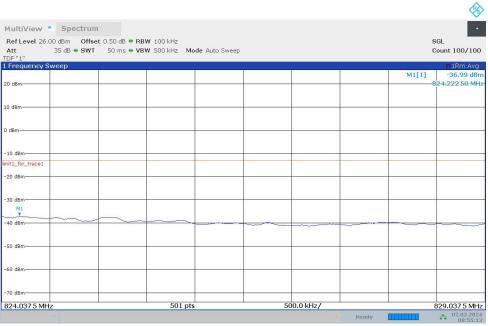


# HIGH BAND EDGE BLOCK-10M-100%RB



08:54:29 02.02.2024

#### HIGH BAND EDGE BLOCK-10M-100%RB



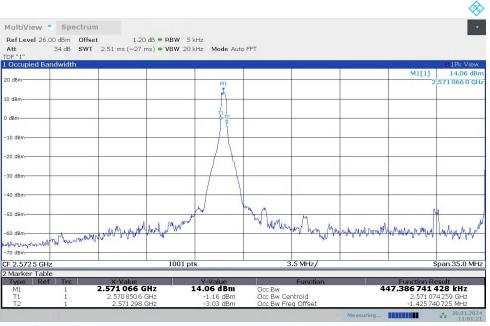
08:55:14 02.02.2024





#### NR n38

#### OBW: 1RB-LOW\_offset



11:01:22 30.01.2024

#### LOW BAND EDGE BLOCK-1RB-LOW\_offset

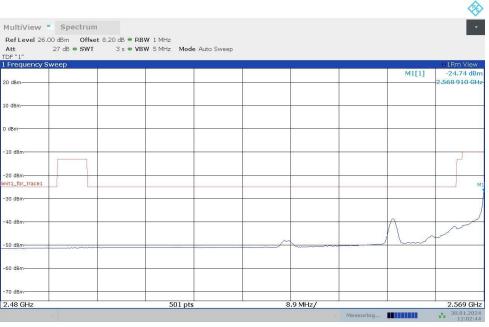
IultiView Spectrum	8.20 dB • RBW 10 kHz				_
.tt 27 dB ● SWT F "1"	3 s ● VBW 50 kHz Mode Auto Swee	p			
requency Sweep					o 1Rm Vie
dBm-			-	M1[1]	-34.14 d .569 987 00 (
IBm-			8		
3m					-
dgmfor_trace1					
dBm-					
dBm					
dBm			www	mm	m
dBm ~~ ~~ ~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	when any M	www	Y.W.	
dBm-			-		
.569 GHz	501 pts	100.0 kHz/			2.57

11:02:04 30.01.2024



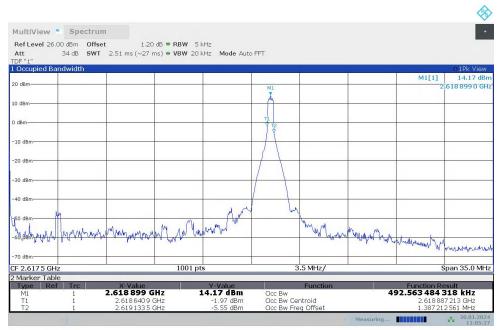


# LOW BAND EDGE BLOCK-1RB-LOW\_offset



11:02:45 30.01.2024

#### OBW: 1RB-HIGH\_offset



11:05:28 30.01.2024