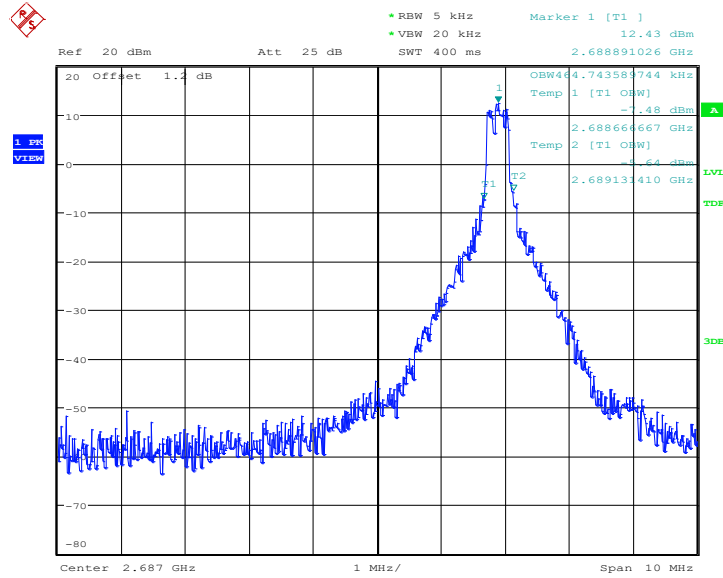
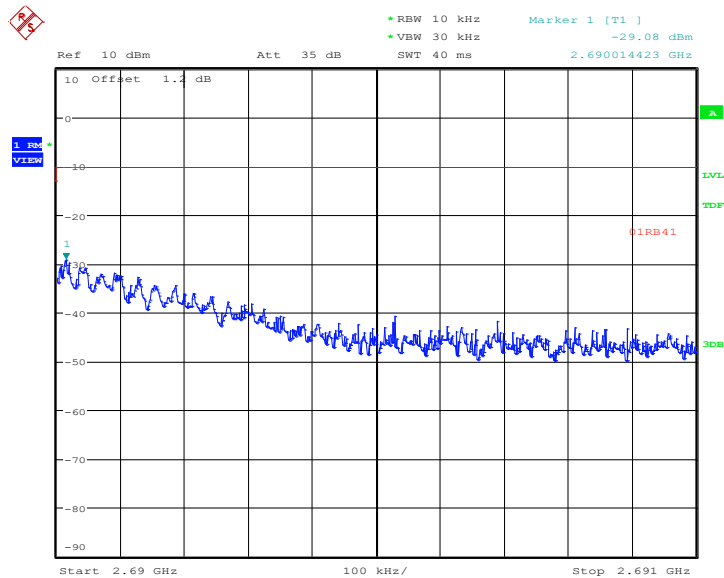


**OBW: 1RB-high\_offset**

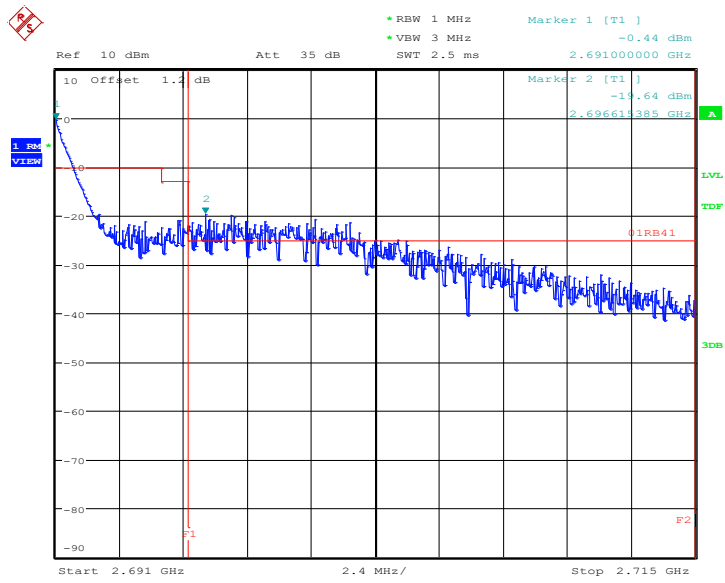


Date: 13.AUG.2020 14:42:27

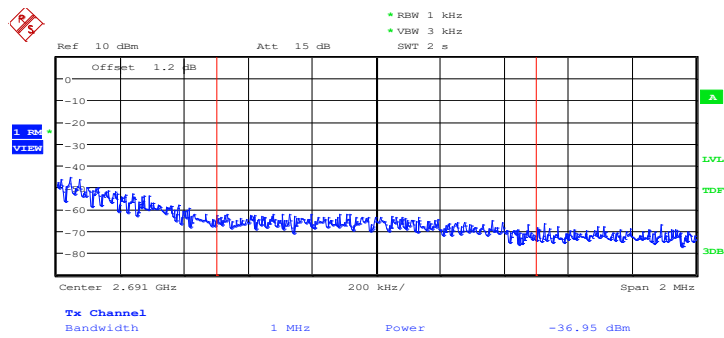
**HIGH BAND EDGE BLOCK-1RB-high\_offset**



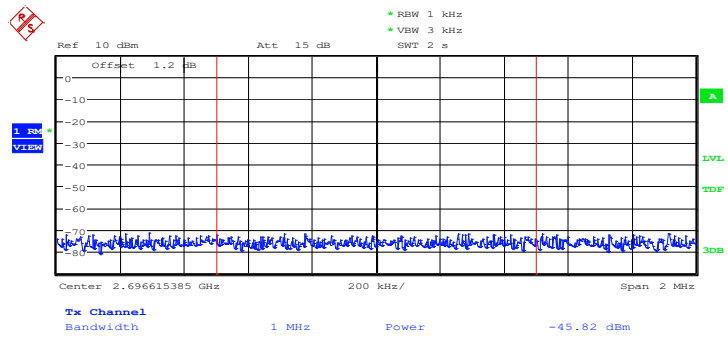
Date: 13.AUG.2020 14:44:55



Date: 13.AUG.2020 14:50:13

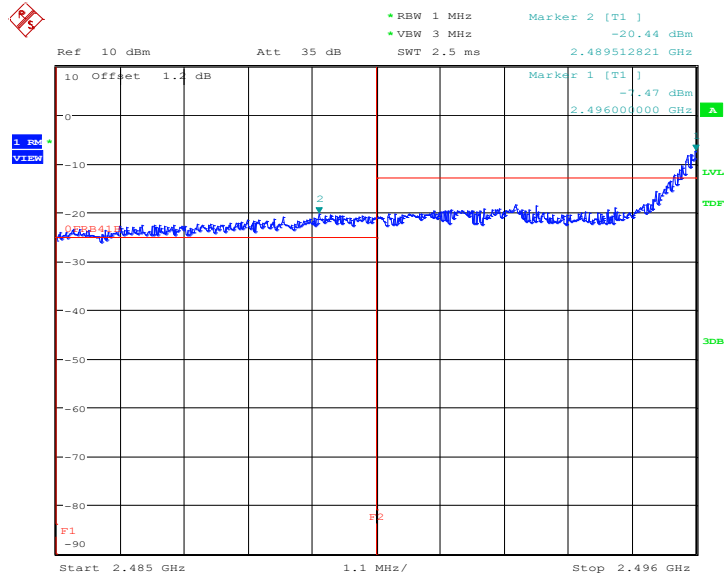


Date: 13.AUG.2020 16:55:28

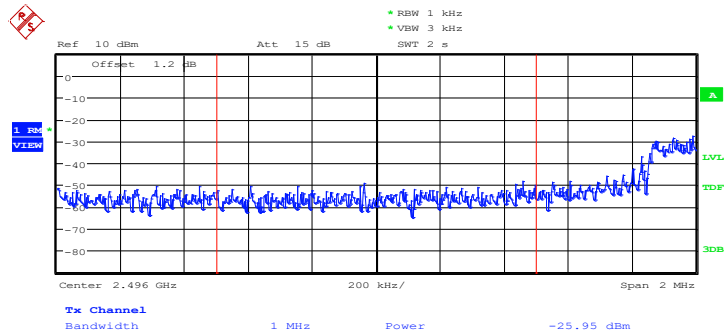


Date: 13.AUG.2020 16:57:00

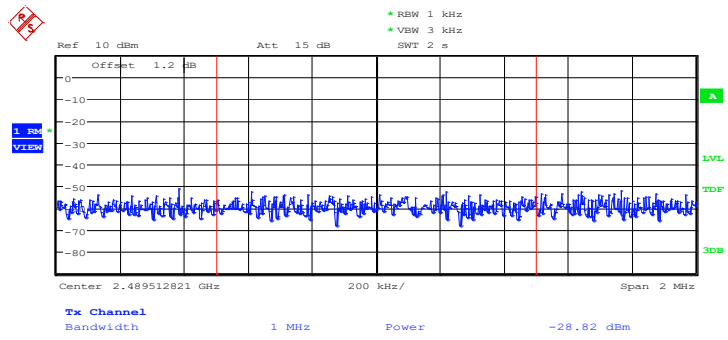
LOW BAND EDGE BLOCK-100MHz-100%RB



Date: 13.AUG.2020 15:42:02

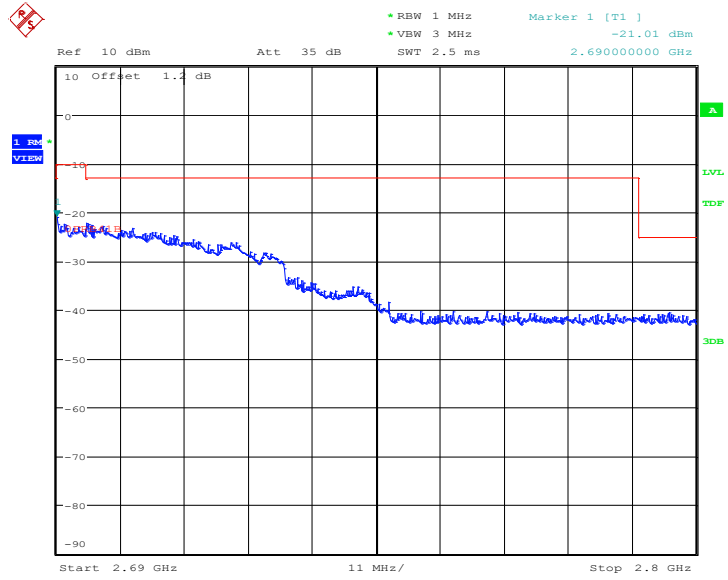


Date: 13.AUG.2020 17:02:22



Date: 13.AUG.2020 17:03:32

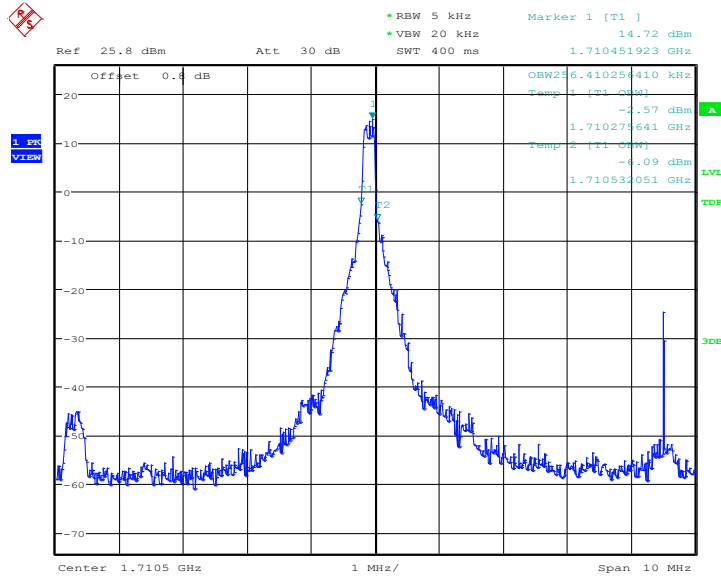
### HIGH BAND EDGE BLOCK-100MHz-100%RB



Date: 13.AUG.2020 15:45:54

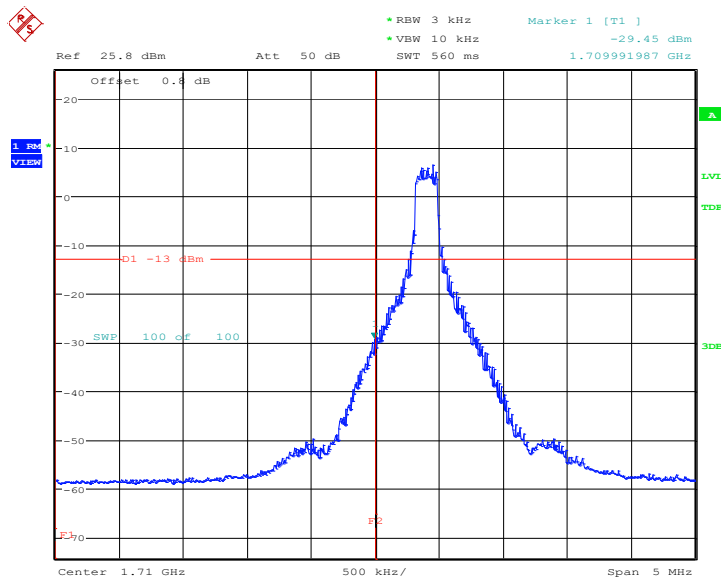
n66

OBW: 1RB-low\_offset



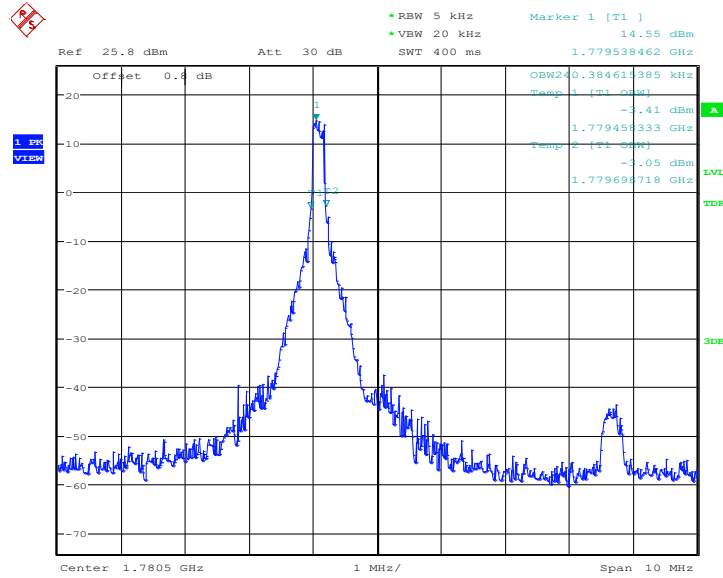
Date: 11.AUG.2020 14:01:38

LOW BAND EDGE BLOCK-1RB-low\_offset



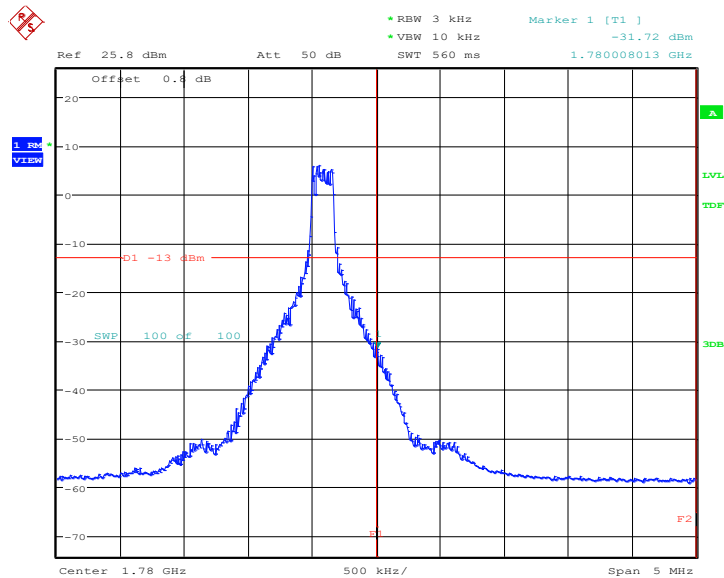
Date: 11.AUG.2020 14:09:09

### OBW: 1RB-high\_offset



Date: 11.AUG.2020 14:04:09

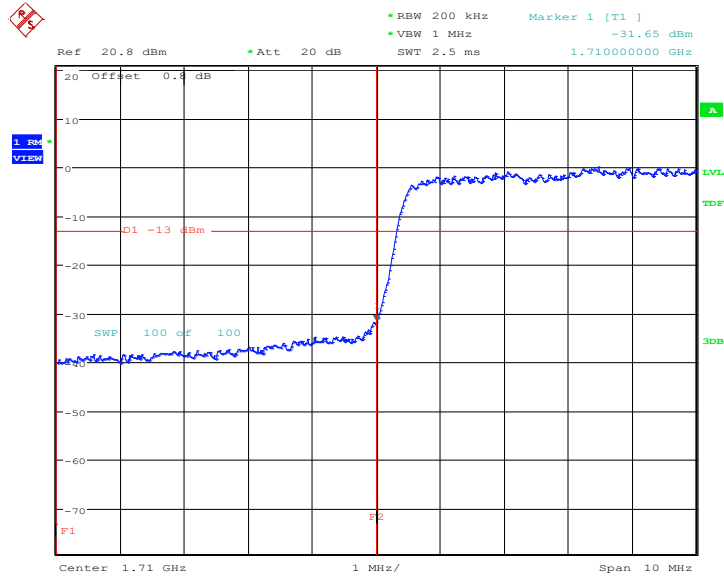
### HIGH BAND EDGE BLOCK-1RB-high\_offset



Date: 11.AUG.2020 14:06:50

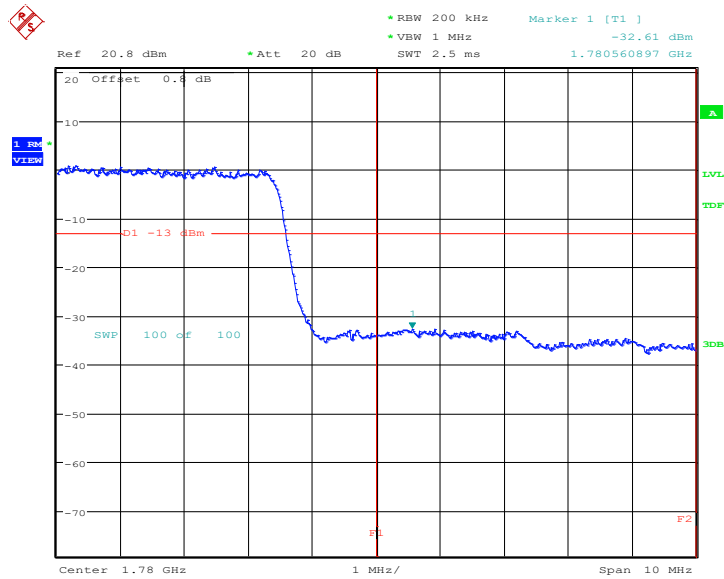


### LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 11.AUG.2020 14:43:48

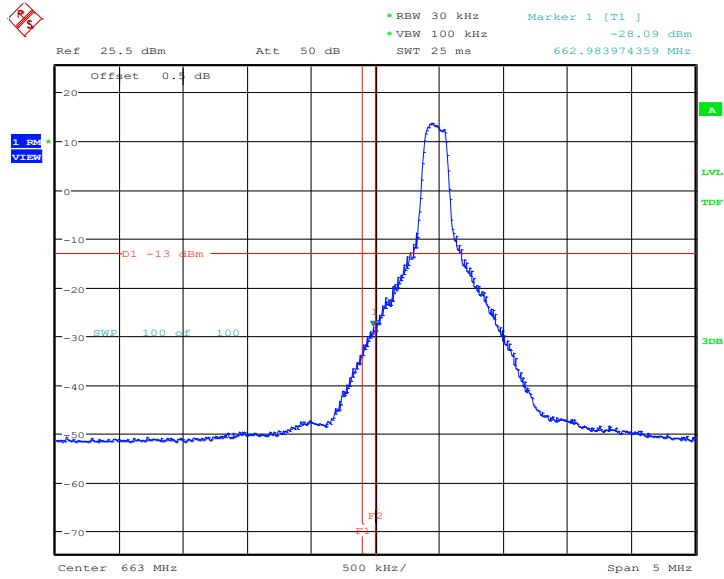
### HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 11.AUG.2020 14:47:31

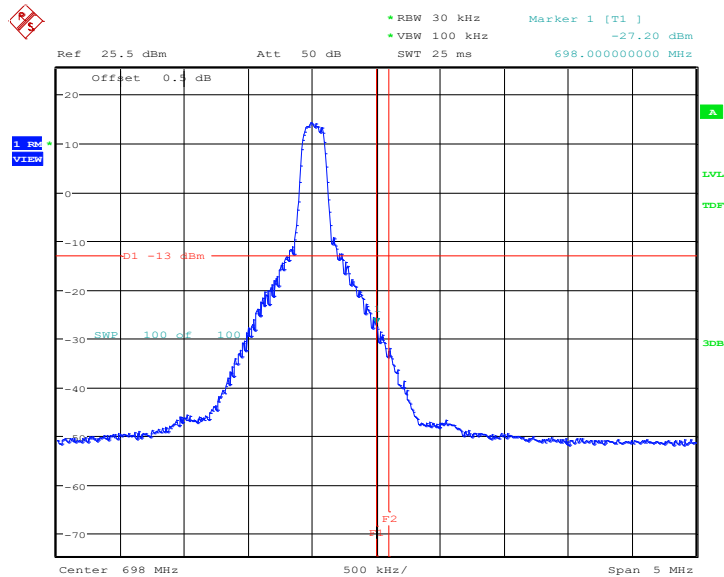
n71

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



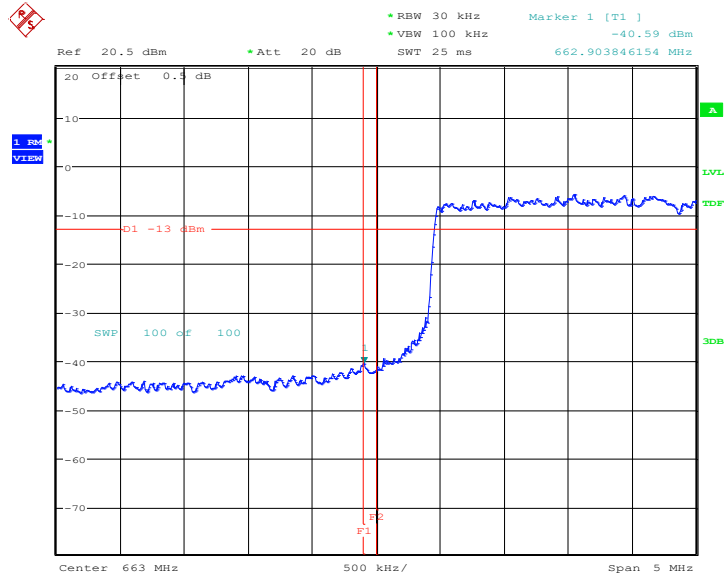
Date: 11.AUG.2020 14:14:11

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



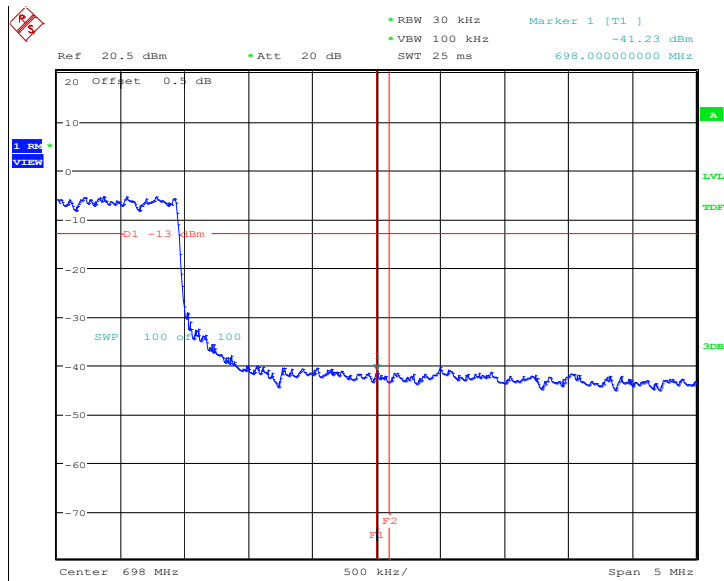
Date: 11.AUG.2020 14:16:39

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



Date: 11.AUG.2020 14:57:39

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



Date: 11.AUG.2020 15:00:29

## **A.7 Conducted Spurious Emission**

### **A.7.1 Measurement Method**

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. In measuring unwanted emissions, the spectrum shall be investigated from 30 MHz or the lowest radio frequency signal generated in the equipment, whichever is lower, without going below 9 kHz, up to at least the frequency given below:
  - (a) If the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
  - (b) If the equipment operates at or above 10 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
3. The number of sweep points of spectrum analyzer is set to 30001 which is greater than span/RBW.

### **A. 7.2 Measurement Limit**

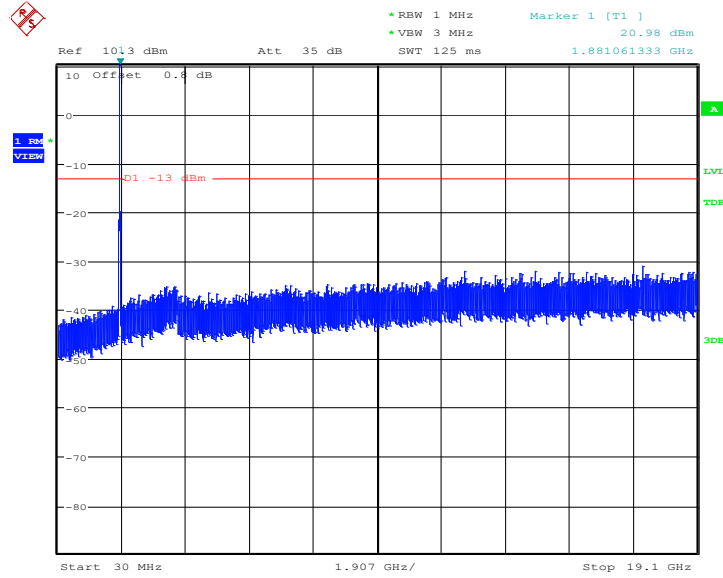
Part 24.238 and Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

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 than  $43 + 10 \log(P)$  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.

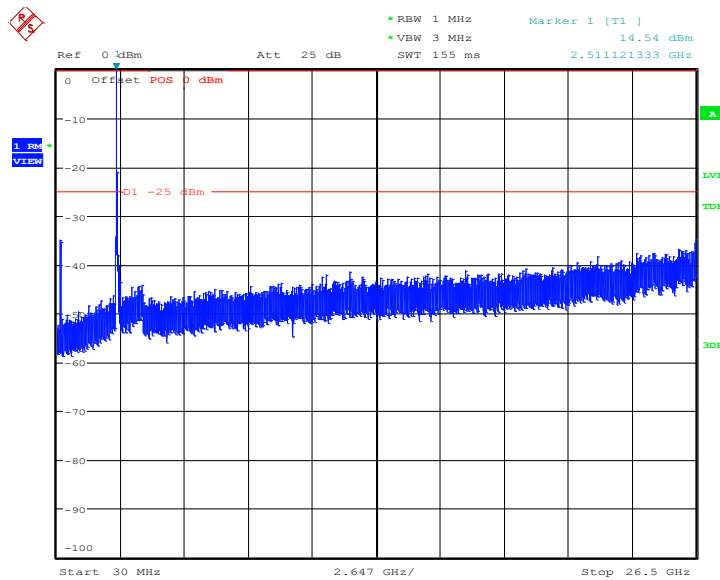
**A. 7.3 Measurement result**  
**Only the worst case result is given below**

n2



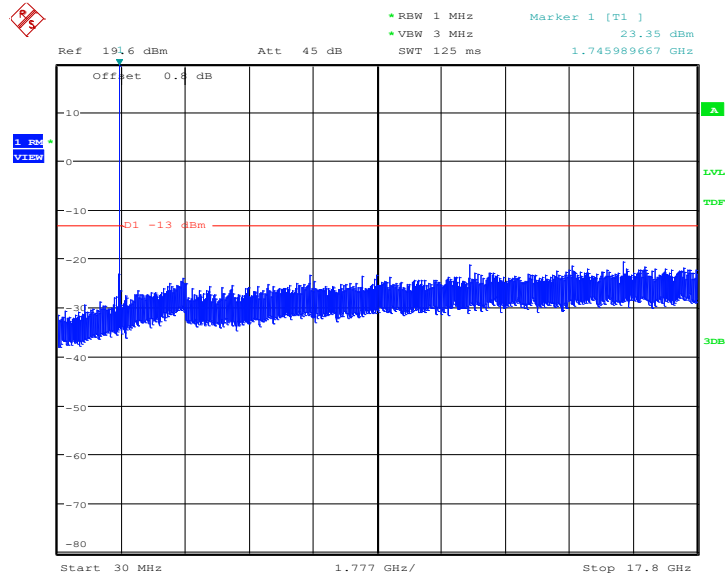
Date: 11.AUG.2020 14:34:13

n41



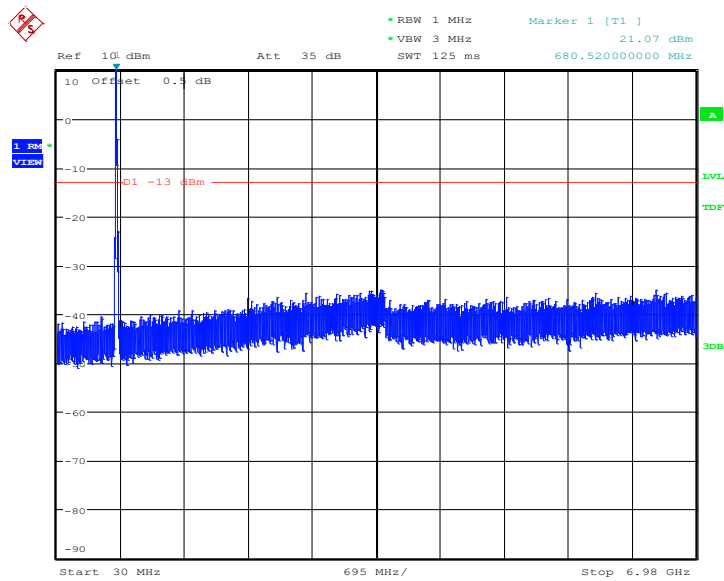
Date: 13.AUG.2020 17:19:30

n66



Date: 13.AUG.2020 17:29:24

n71



Date: 11.AUG.2020 14:29:26

## **A.8 Peak-to-Average Power Ratio**

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Record the maximum PAPR level associated with a probability of 0.1%.

### **Measurement results**

#### **n2, 20MHz**

Frequency (MHz)	PAPR (dB)							
	DFT-s-QPSK	DFT-s-16QAM	DFT-s-64QAM	DFT-s-256QAM	CP-QPSK	CP-16QAM	CP-64QAM	CP-256QAM
1880.0	6.99	7.31	7.40	7.44	8.17	8.21	8.24	8.81

#### **n41, 100MHz**

Frequency (MHz)	PAPR (dB)							
	DFT-s-QPSK	DFT-s-16QAM	DFT-s-64QAM	DFT-s-256QAM	CP-QPSK	CP-16QAM	CP-64QAM	CP-256QAM
2592.99	12.40	12.44	12.28	12.37	12.56	12.53	12.66	12.40

#### **n66, 20MHz**

Frequency (MHz)	PAPR (dB)							
	DFT-s-QPSK	DFT-s-16QAM	DFT-s-64QAM	DFT-s-256QAM	CP-QPSK	CP-16QAM	CP-64QAM	CP-256QAM
1745.0	6.96	7.18	7.24	7.31	8.01	8.08	8.17	8.49

#### **n71, 20MHz**

Frequency (MHz)	PAPR (dB)							
	DFT-s-QPSK	DFT-s-16QAM	DFT-s-64QAM	DFT-s-256QAM	CP-QPSK	CP-16QAM	CP-64QAM	CP-256QAM
680.5	6.79	7.05	7.08	7.12	8.08	8.11	8.14	8.33

## Annex B: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p>  <hr/> <p><b>Certificate of Accreditation to ISO/IEC 17025:2005</b></p> <hr/> <p>NVLAP LAB CODE: 600118-0</p> <p><b>Telecommunication Technology Labs, CAICT</b> Beijing China</p> <p><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p> <p><b>Electromagnetic Compatibility &amp; Telecommunications</b></p> <p><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i></p> <hr/> <table border="0" style="width: 100%;"><tr><td style="width: 40%; text-align: center;"><p>2019-09-26 through 2020-09-30 <i>Effective Dates</i></p></td><td style="width: 20%; text-align: center;"></td><td style="width: 40%; text-align: center;"> <i>For the National Voluntary Laboratory Accreditation Program</i></td></tr></table>		<p>2019-09-26 through 2020-09-30 <i>Effective Dates</i></p>		 <i>For the National Voluntary Laboratory Accreditation Program</i>
<p>2019-09-26 through 2020-09-30 <i>Effective Dates</i></p>		 <i>For the National Voluntary Laboratory Accreditation Program</i>		

\*\*\*END OF REPORT\*\*\*