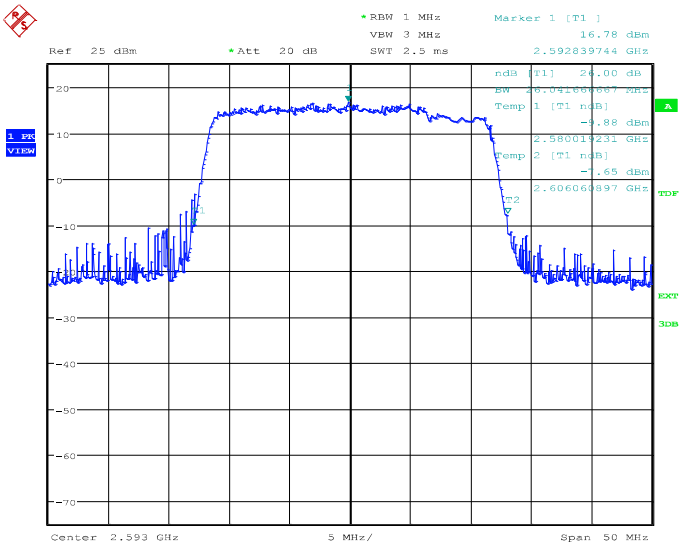
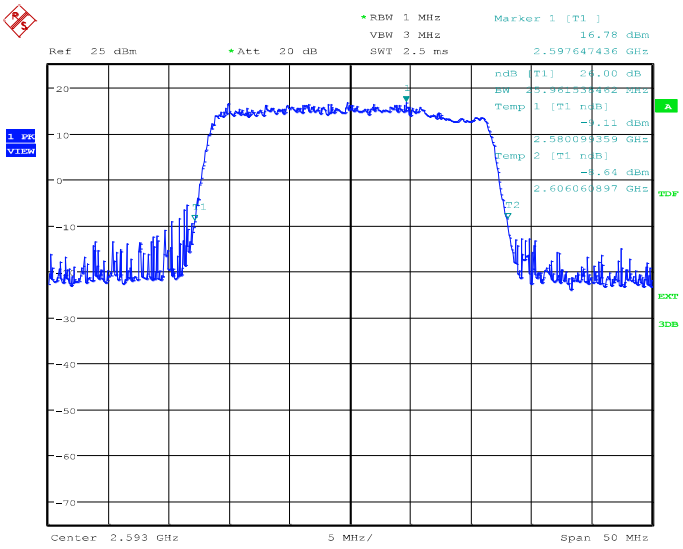
LTE Band CA_41C, 20MHz+5MHz (-26dBc BW)

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	26041.67	25961.54	26041.67

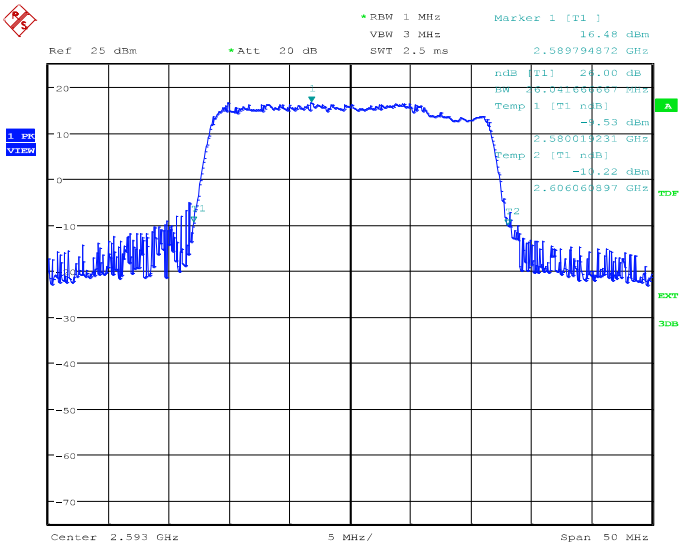
LTE Band CA_41C, 20MHz+5MHz Bandwidth, QPSK (-26dBc BW)



LTE Band CA_41C, 20MHz+5MHz Bandwidth, 16QAM (-26dBc BW)



LTE Band CA_41C, 20MHz+5MHz Bandwidth, 64QAM (-26dBc BW)

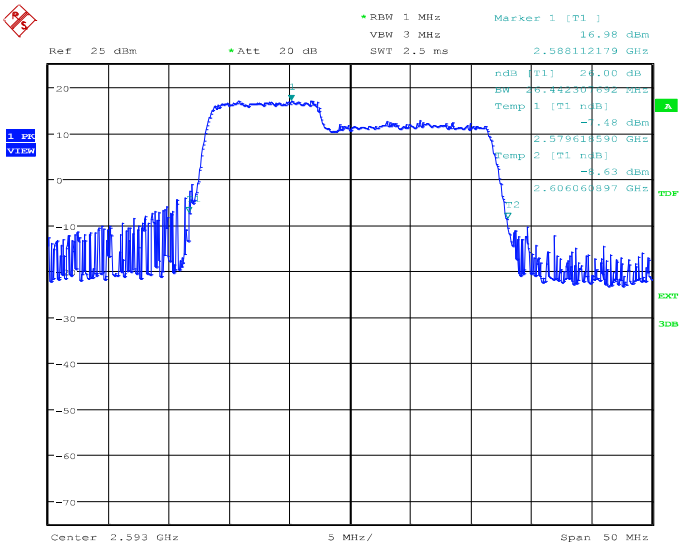


Date: 14.NOV.2021 16:11:21

LTE Band CA_41C, 10MHz+15MHz (-26dBc BW)

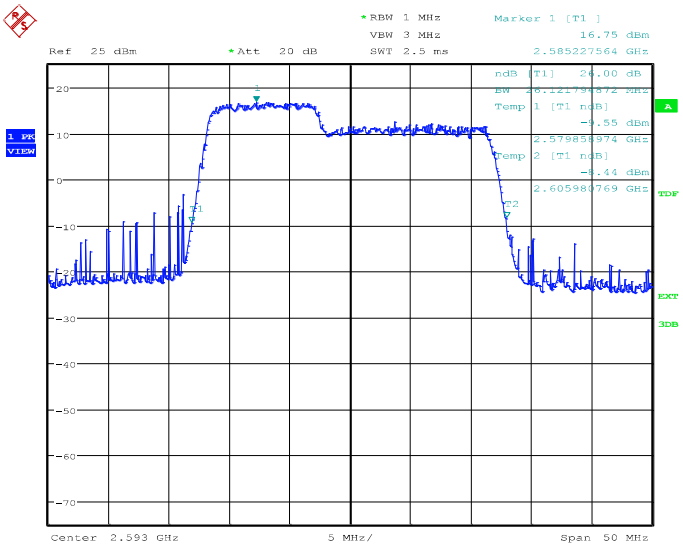
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	26442.31	26121.79	25961.54

LTE Band CA_41C, 10MHz+15MHz Bandwidth, QPSK (-26dBc BW)



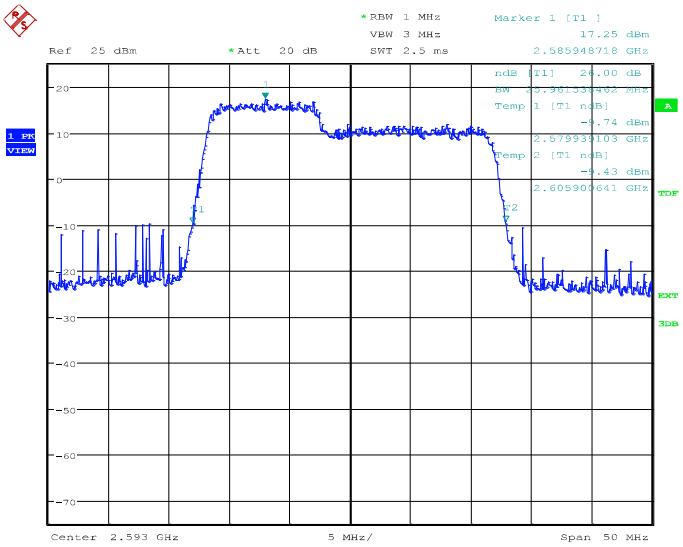
Date: 14.NOV.2021 16:13:34

LTE Band CA_41C, 10MHz+15MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.NOV.2021 16:13:50

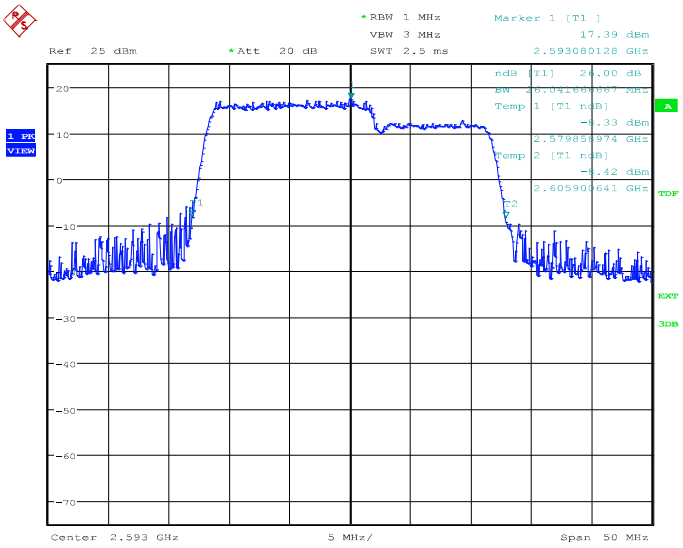
LTE Band CA_41C, 10MHz+15MHz Bandwidth, 64QAM (-26dBc BW)



LTE Band CA_41C, 15MHz+10MHz (-26dBc BW)

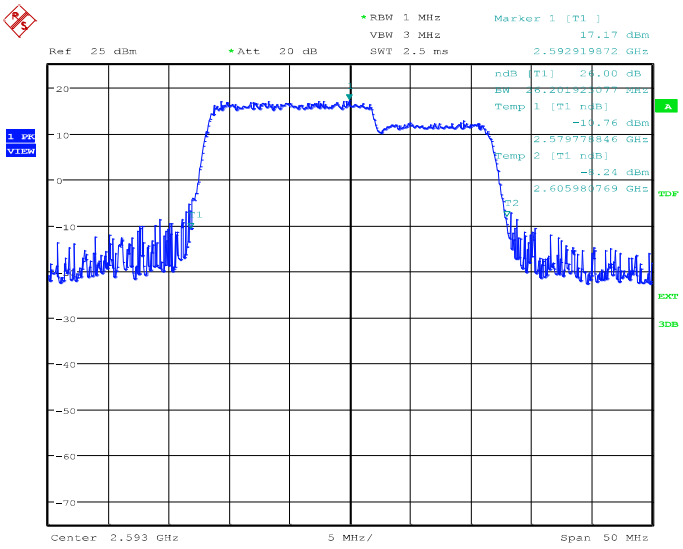
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	26041.67	26201.92	26121.79

LTE Band CA_41C, 15MHz+10MHz Bandwidth, QPSK (-26dBc BW)



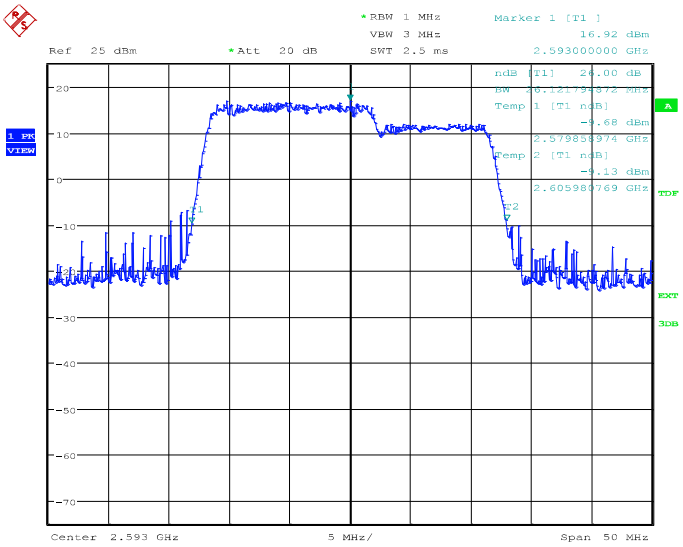
Date: 14.NOV.2021 16:16:33

LTE Band CA_41C, 15MHz+10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.NOV.2021 16:16:57

LTE Band CA_41C, 15MHz+10MHz Bandwidth, 64QAM (-26dBc BW)

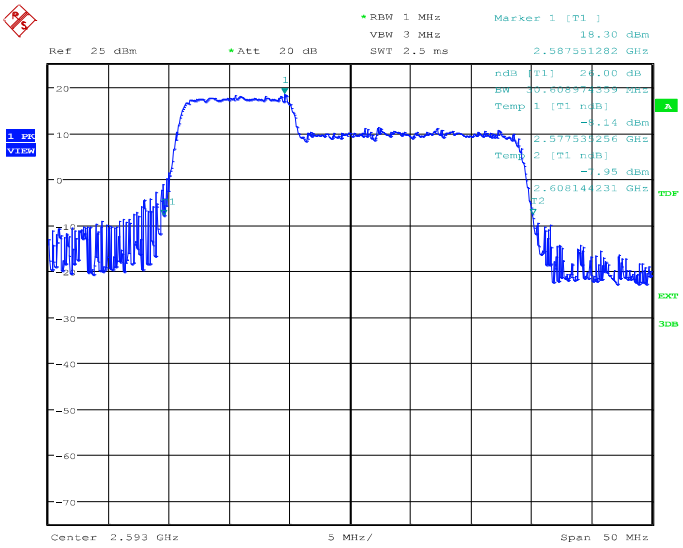


Date: 14.NOV.2021 16:17:11

LTE Band CA_41C, 10MHz+20MHz (-26dBc BW)

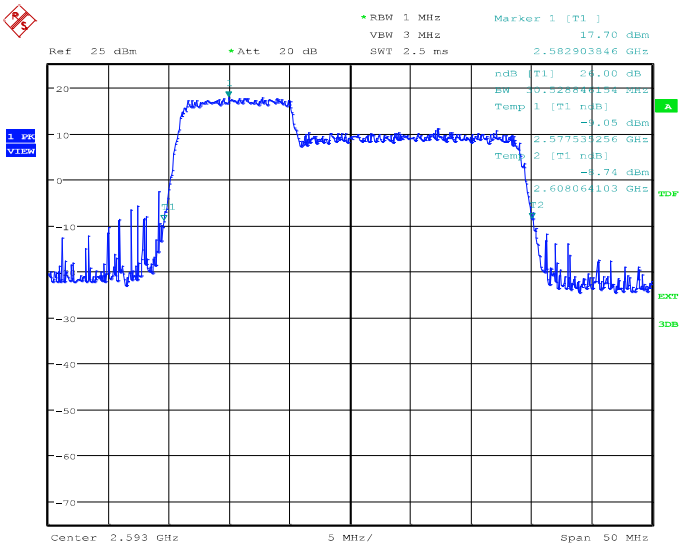
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	30608.97	30528.85	30448.72

LTE Band CA_41C, 10MHz+20MHz Bandwidth, QPSK (-26dBc BW)



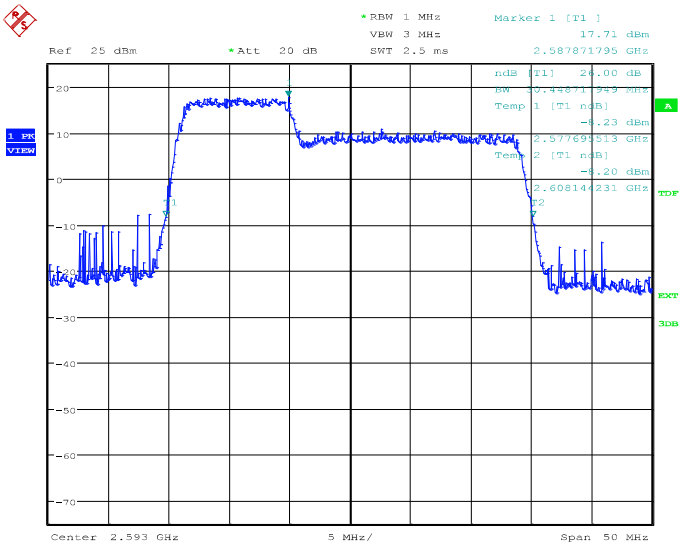
Date: 14.NOV.2021 16:18:12

LTE Band CA_41C, 10MHz+20MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.NOV.2021 16:18:27

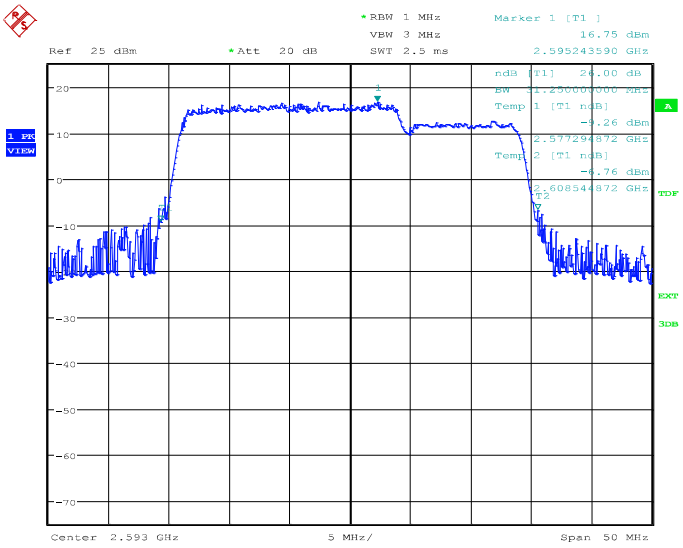
LTE Band CA_41C, 10MHz+20MHz Bandwidth, 64QAM (-26dBc BW)



LTE Band CA_41C, 20MHz+10MHz (-26dBc BW)

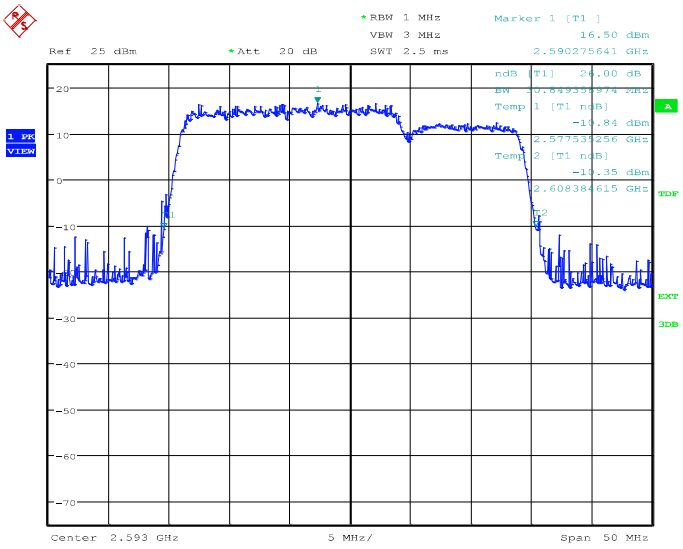
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	31250.00	30849.36	30769.23

LTE Band CA_41C, 20MHz+10MHz Bandwidth, QPSK (-26dBc BW)



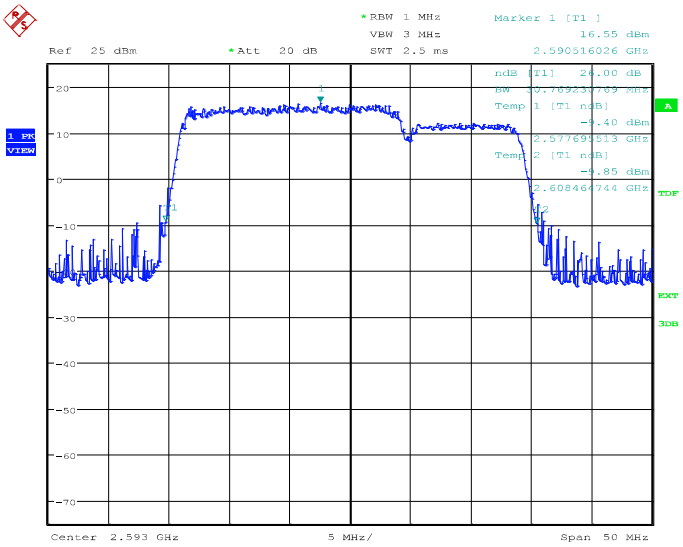
Date: 14.NOV.2021 16:21:30

LTE Band CA_41C, 20MHz+10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.NOV.2021 16:21:46

LTE Band CA_41C, 20MHz+10MHz Bandwidth, 64QAM (-26dBc BW)

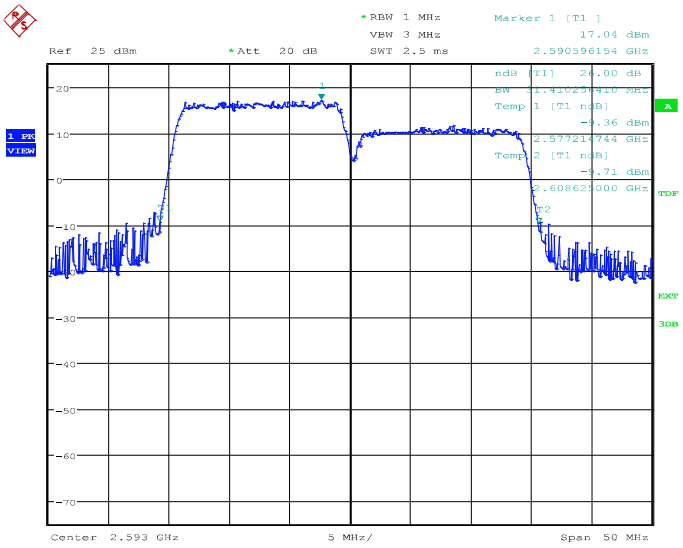


Date: 14.NOV.2021 16:22:02

LTE Band CA_41C, 15MHz+15MHz (-26dBc BW)

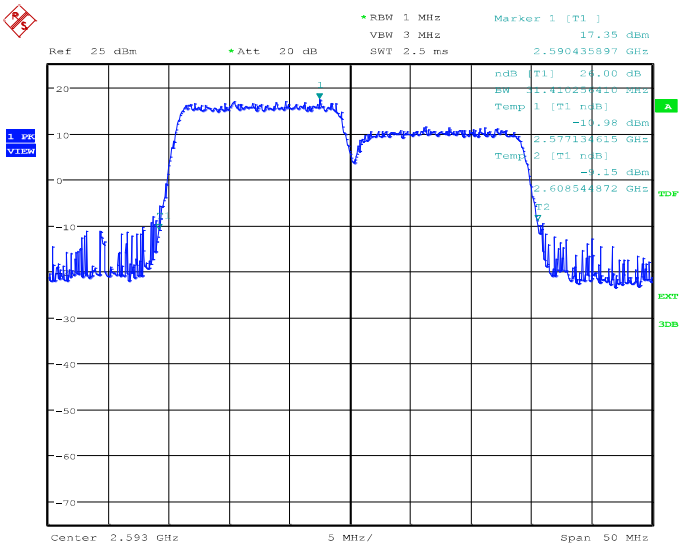
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	31410.26	31410.26	31330.13

LTE Band CA_41C, 15MHz+15MHz Bandwidth, QPSK (-26dBc BW)



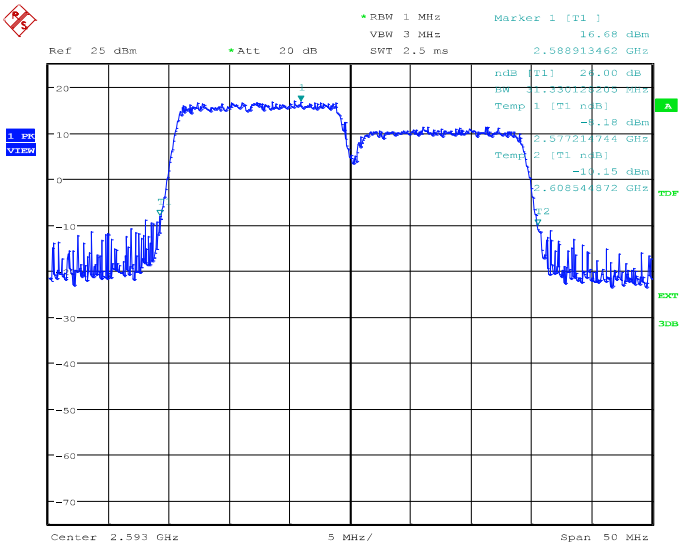
Date: 14.NOV.2021 16:22:52

LTE Band CA_41C, 15MHz+15MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.NOV.2021 16:23:06

LTE Band CA_41C, 15MHz+15MHz Bandwidth, 64QAM (-26dBc BW)

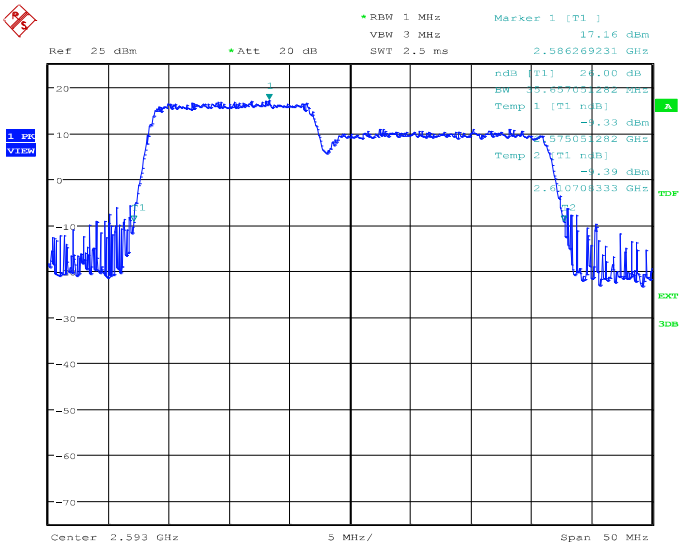


Date: 14.NOV.2021 16:23:20

LTE Band CA_41C, 15MHz+20MHz (-26dBc BW)

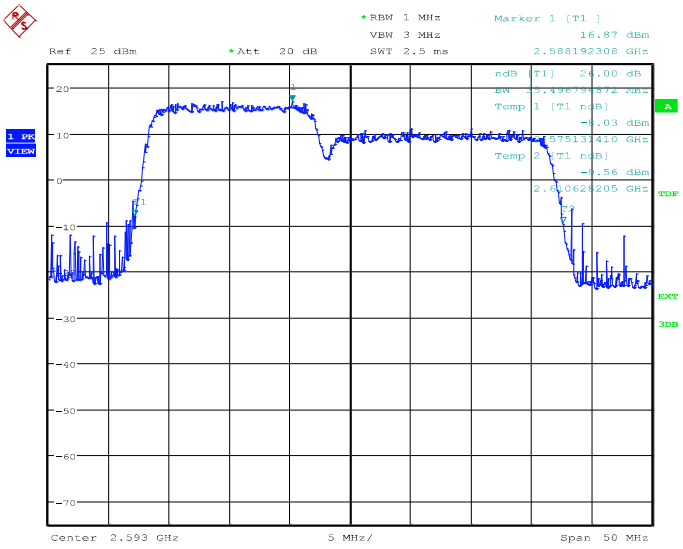
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	35657.05	35496.79	35496.79

LTE Band CA_41C, 15MHz+20MHz Bandwidth, QPSK (-26dBc BW)



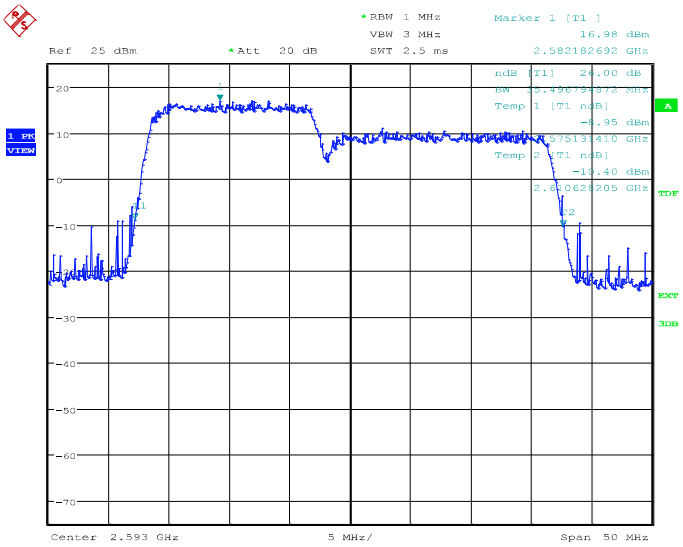
Date: 14.NOV.2021 16:26:01

LTE Band CA_41C, 15MHz+20MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.NOV.2021 16:26:17

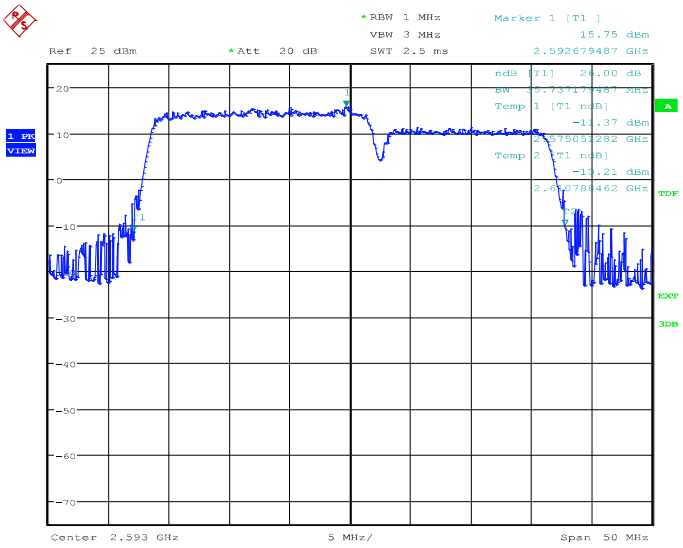
LTE Band CA_41C, 15MHz+20MHz Bandwidth, 64QAM (-26dBc BW)



LTE Band CA_41C, 20MHz+15MHz (-26dBc BW)

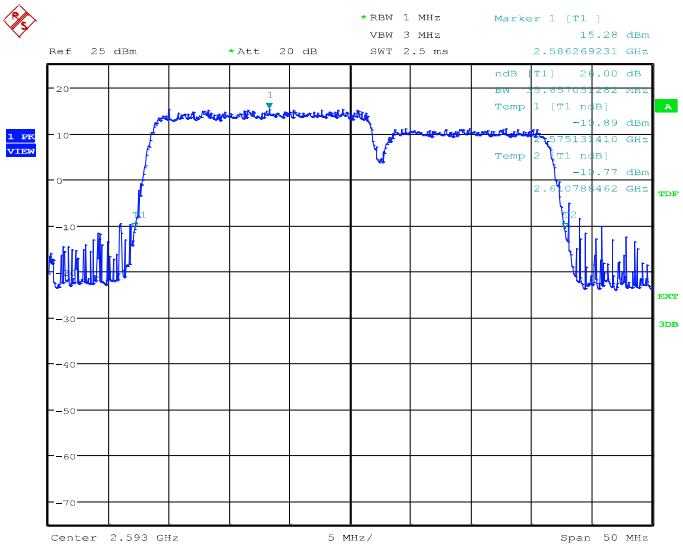
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	35737.18	35657.05	35576.92

LTE Band CA_41C, 20MHz+15MHz Bandwidth, QPSK (-26dBc BW)



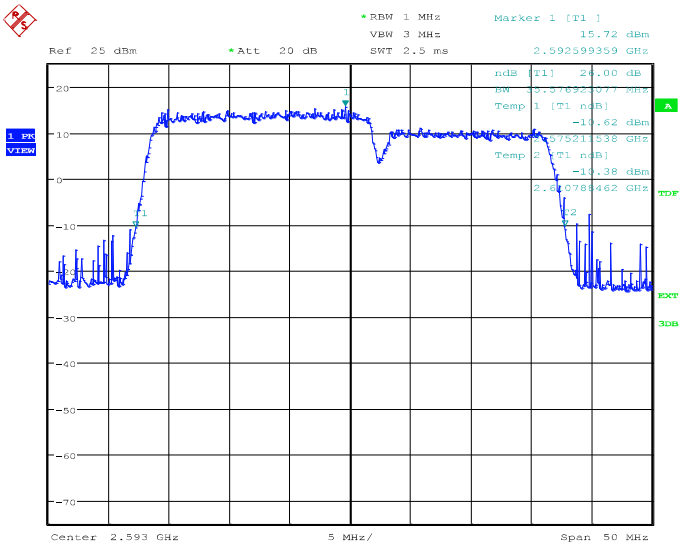
Date: 14.NOV.2021 16:27:24

LTE Band CA_41C, 20MHz+15MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.NOV.2021 16:27:39

LTE Band CA_41C, 20MHz+15MHz Bandwidth, 64QAM (-26dBc BW)

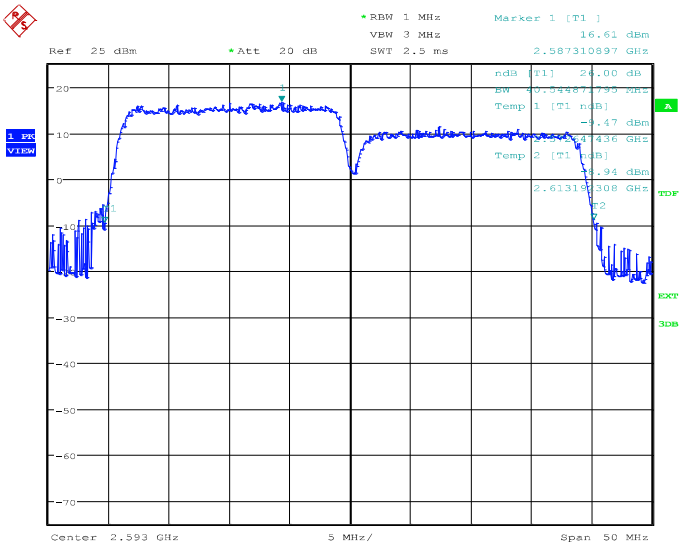


Date: 14.NOV.2021 16:27:52

LTE Band CA_41C, 20MHz+20MHz (-26dBc BW)

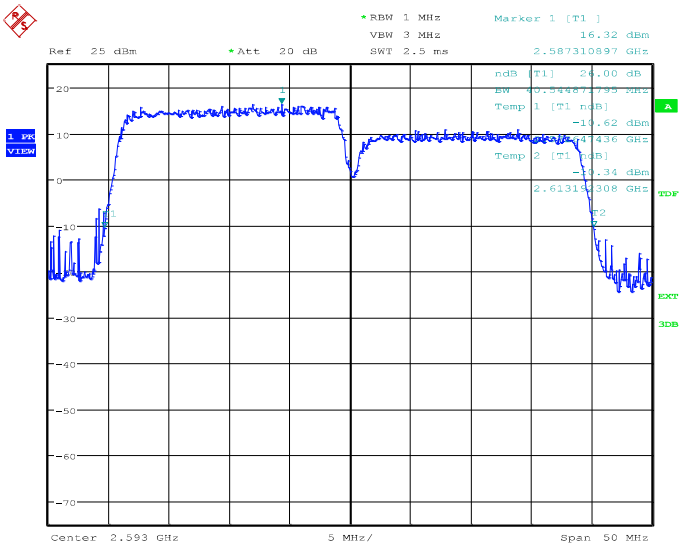
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	40544.87	40544.87	40384.62

LTE Band CA_41C, 20MHz+20MHz Bandwidth, QPSK (-26dBc BW)



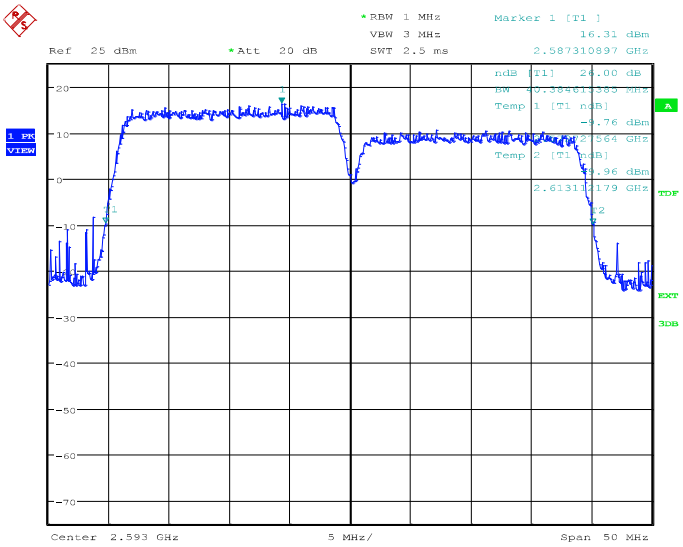
Date: 14.NOV.2021 16:30:32

LTE Band CA_41C, 20MHz+20MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.NOV.2021 16:30:43

LTE Band CA_41C, 20MHz+20MHz Bandwidth, 64QAM (-26dBc BW)



Date: 14.NOV.2021 16:30:56

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

A.6 BAND EDGE COMPLIANCE

Reference

FCC: CFR Part 2.1051, 22.917, 24.238, 27.53, 90.691.

A.6.1 Measurement limit

Part 22.917 For operations in the 824–849MHz band, the FCC limit is 43 +10 log (P)dB below the transmitter power(P) in a 100kHz bandwidth. However, in the 1MHz 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.

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.

A.6.2Measurement Procedure

The testing follows ANSI C63.26

a) The EUT was connected to spectrum analyzer and system simulator via a power divider.

b) The band edges of low and high channels for the highest RF powers were measured.

c) Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.

d) Set spectrum analyzer with RMS detector.

e) The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

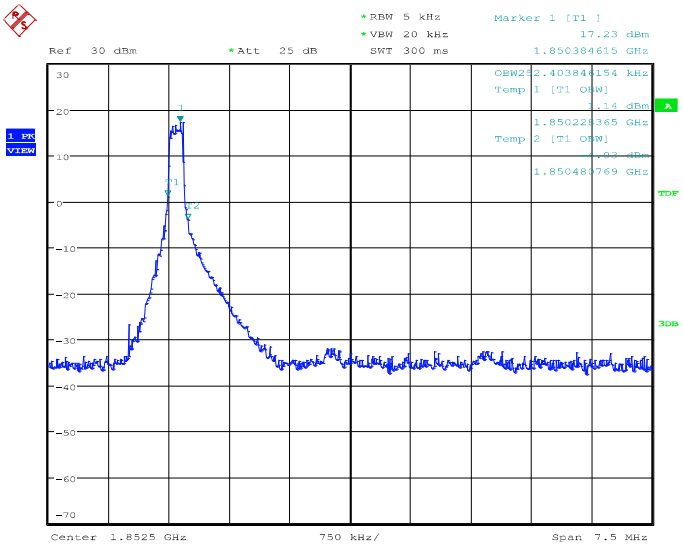
f) Checked that all the results comply with the emission limit line.

A.6.3 Measurement result

Only worst case result is given below

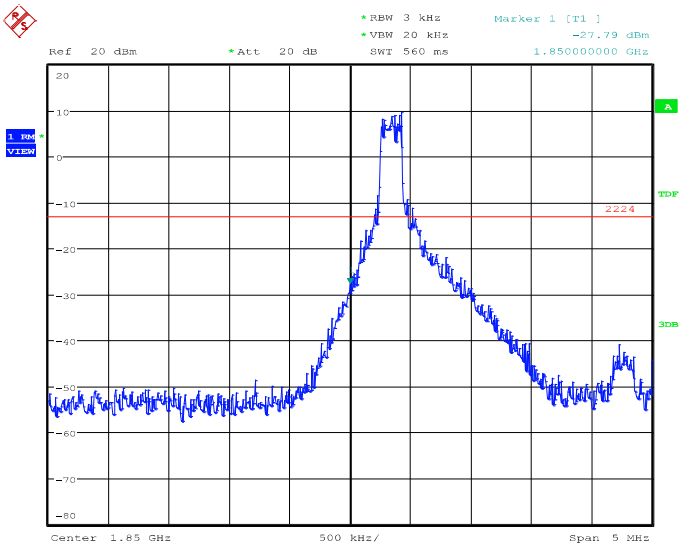
LTE band 2

OBW: 1RB-low_offset



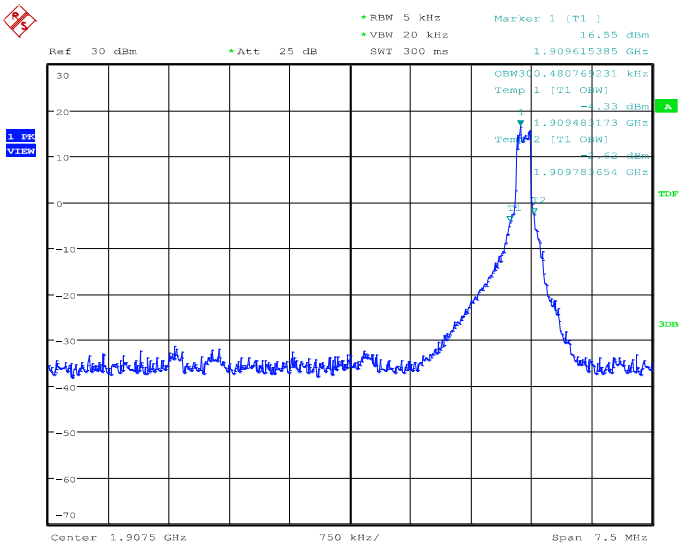
Date: 9.NOV.2021 06:00:22

LOW BAND EDGE BLOCK-1RB-low_offset

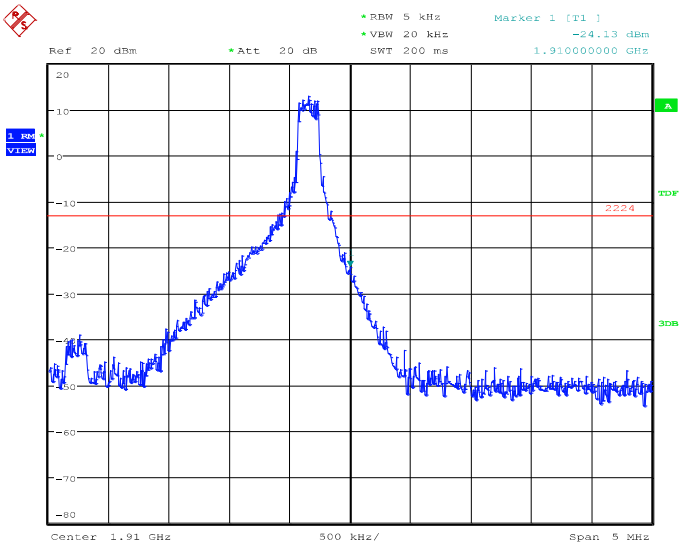


Date: 9.NOV.2021 06:01:07

OBW: 1RB-high_offset

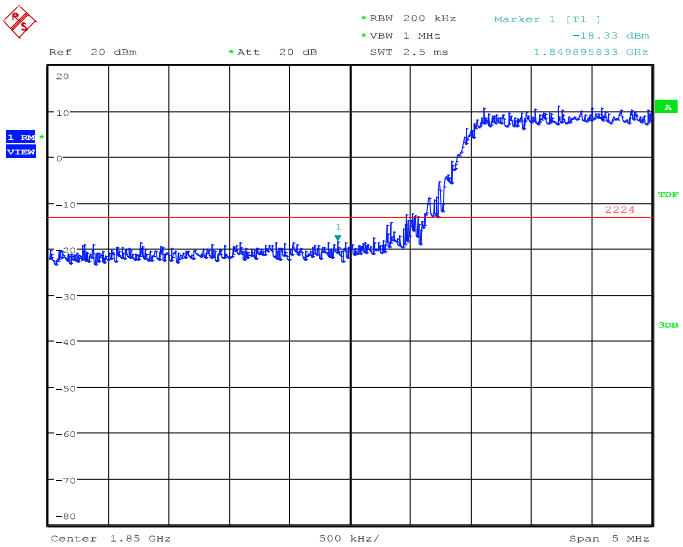


HIGH BAND EDGE BLOCK-1RB-high_offset



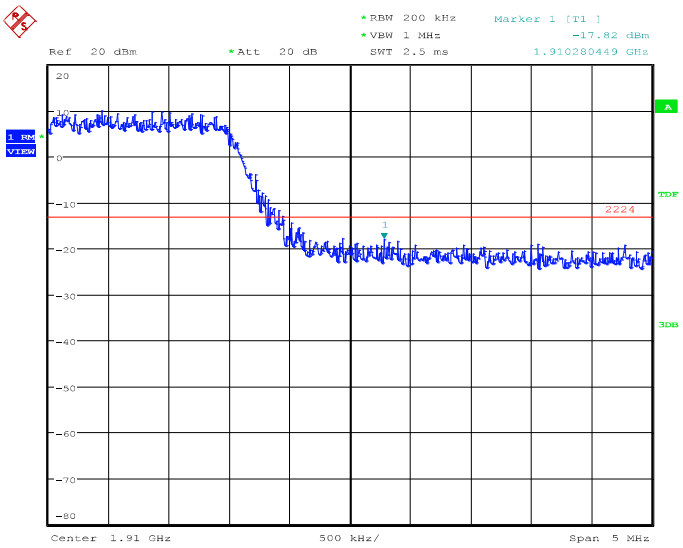
Date: 6.DEC.2021 08:37:20

LOW BAND EDGE BLOCK-20MHz-100%RB



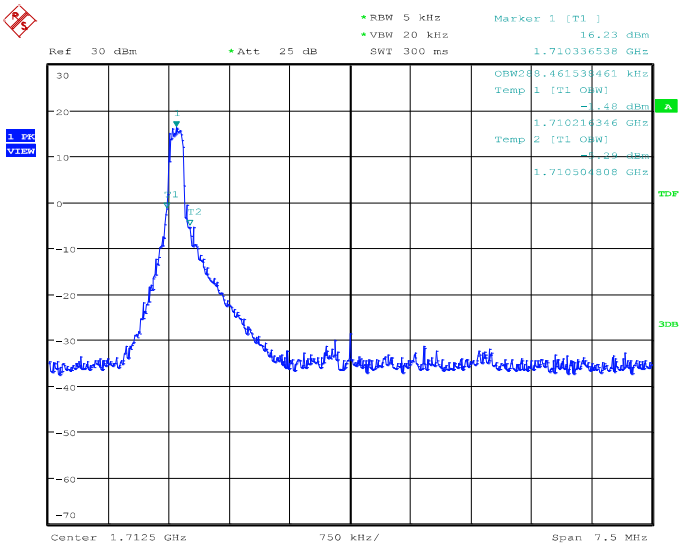
Date: 8.NOV.2021 16:23:02

HIGH BAND EDGE BLOCK-20MHz-100%RB

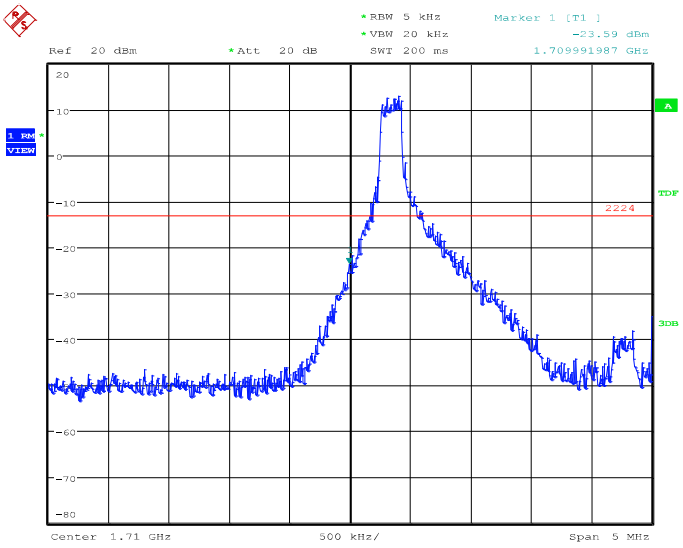


LTE band 4

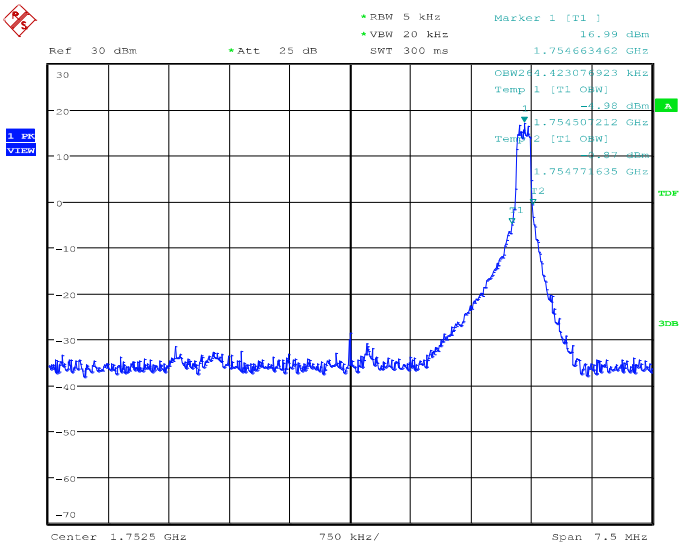
OBW: 1RB-low_offset



LOW BAND EDGE BLOCK-1RB-low_offset

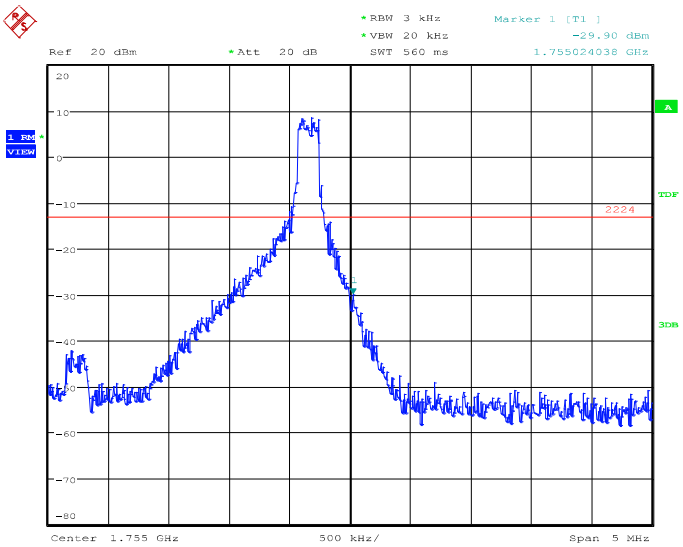


OBW: 1RB-high_offset



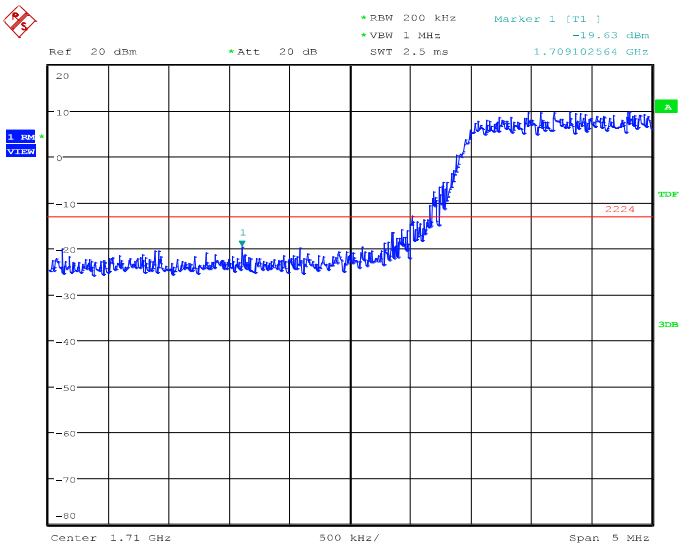
Date: 6.DEC.2021 08:47:12

HIGH BAND EDGE BLOCK-1RB-high_offset



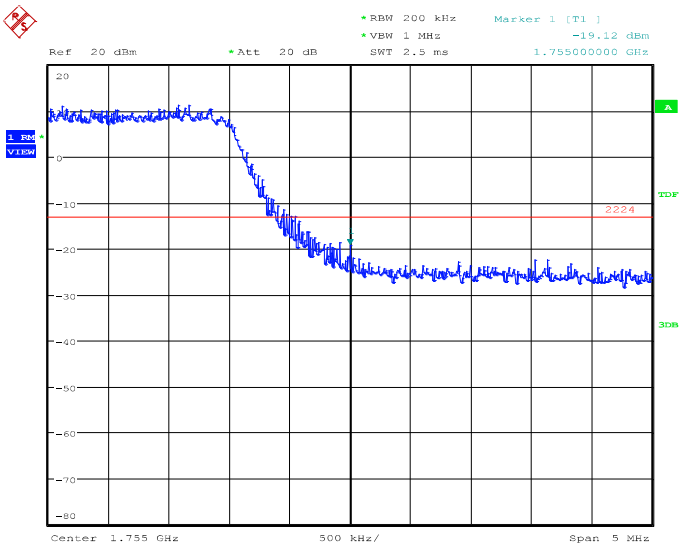
Date: 6.DEC.2021 08:47:58

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 8.NOV.2021 16:28:00

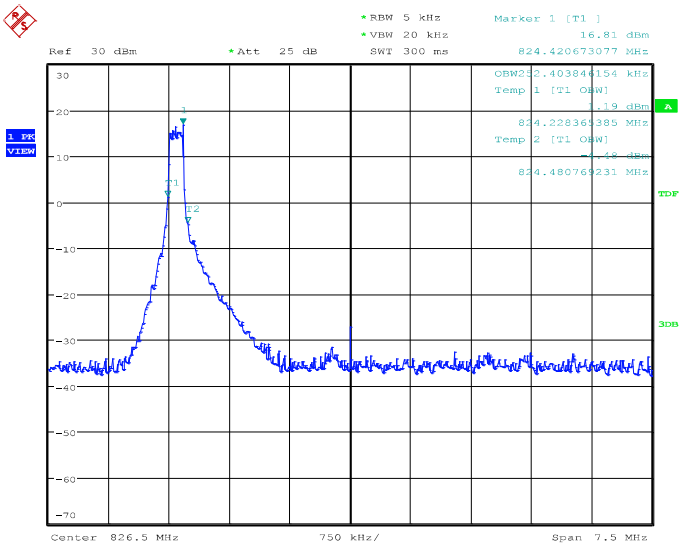
HIGH BAND EDGE BLOCK-20MHz-100%RB



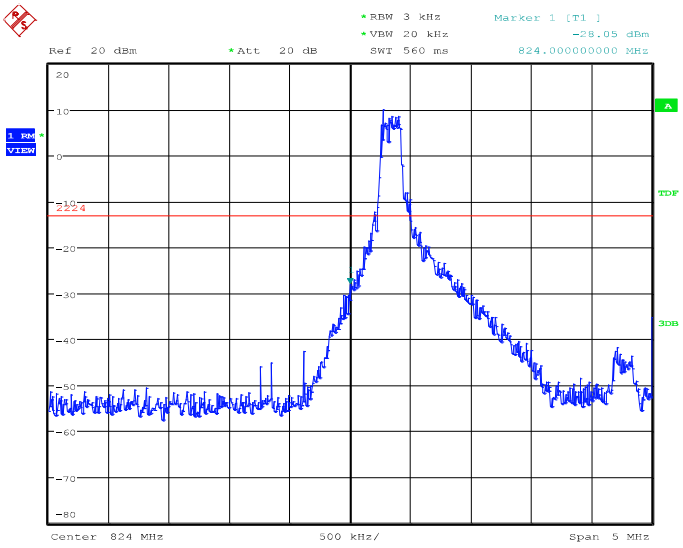
Date: 8.NOV.2021 15:58:47

LTE band 5

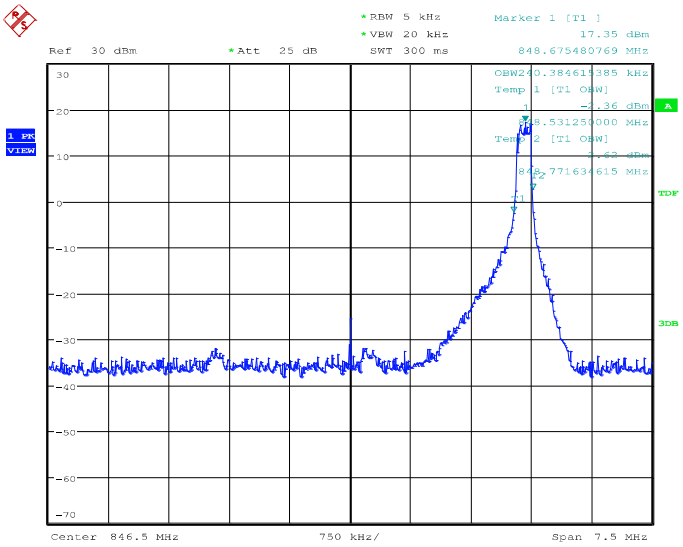
OBW: 1RB-low_offset



LOW BAND EDGE BLOCK-1RB-low_offset

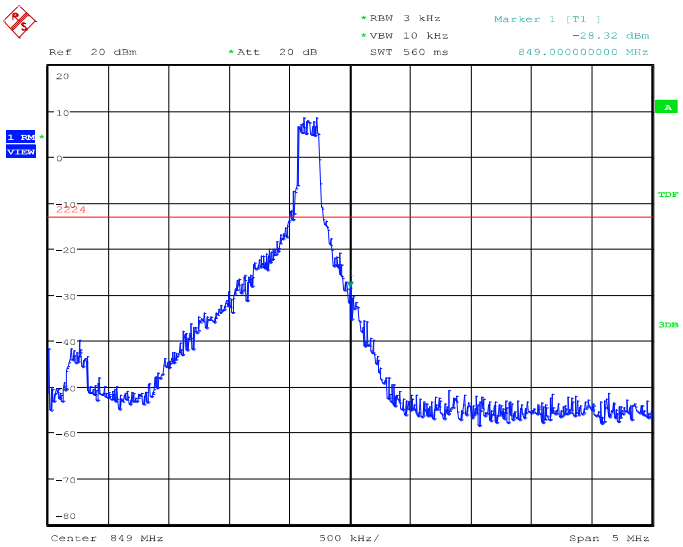


OBW: 1RB-high_offset



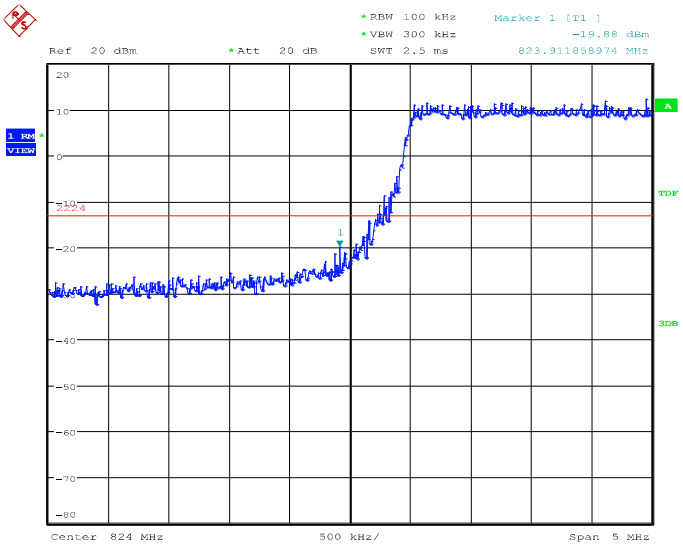
Date: 6.DEC.2021 08:29:19

HIGH BAND EDGE BLOCK-1RB-high_offset



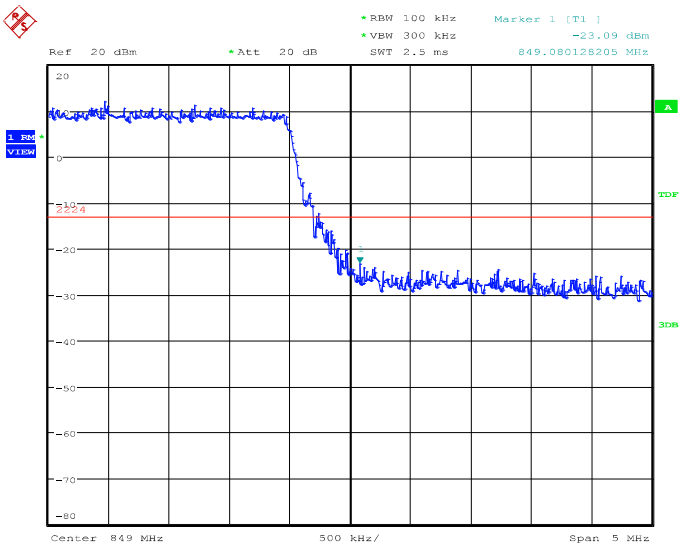
Date: 6.DEC.2021 08:30:05

LOW BAND EDGE BLOCK-10MHz-100%RB



Date: 8.NOV.2021 16:17:32

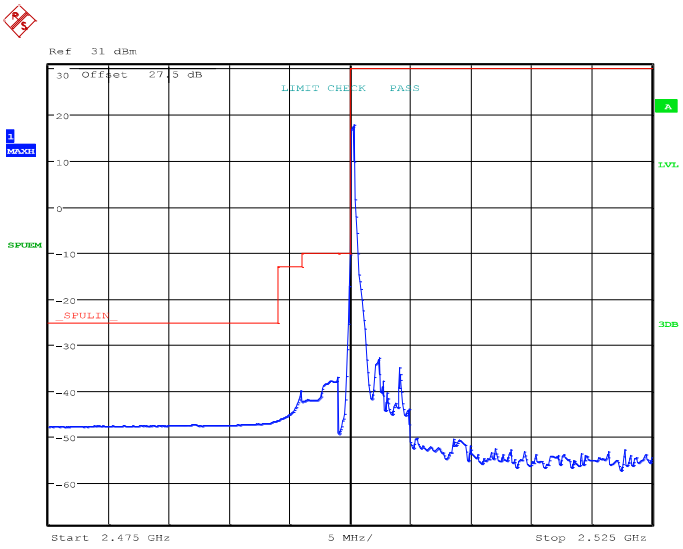
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 8.NOV.2021 15:49:30

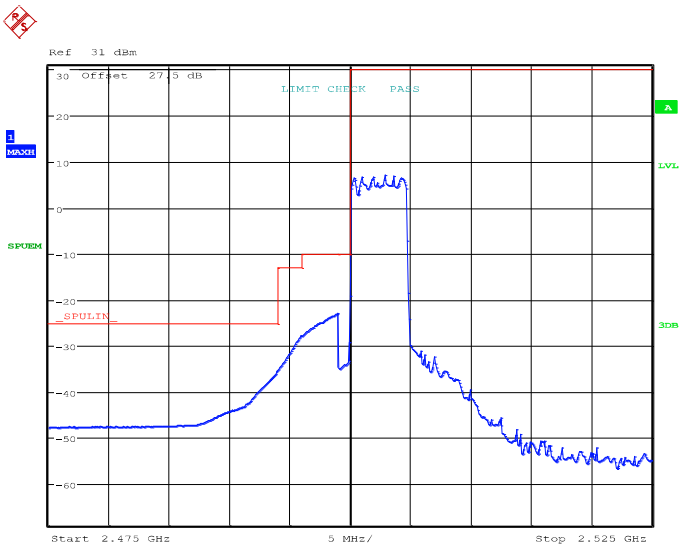
LTE band 7

LOW BAND EDGE BLOCK-5MHz_1RB-low_offset



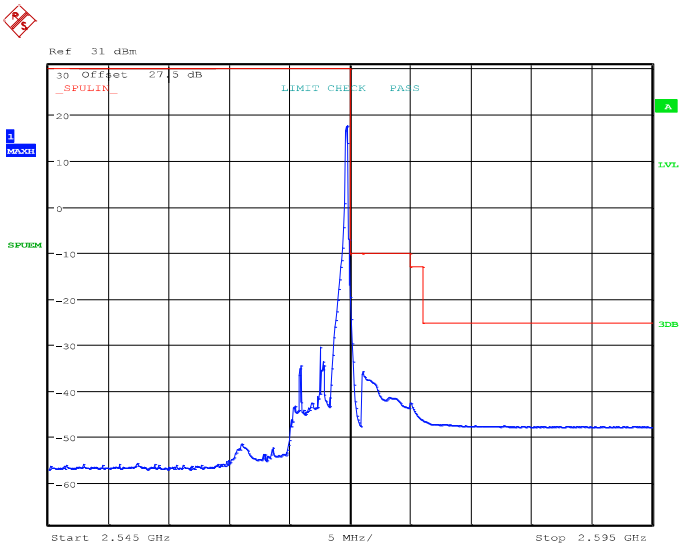
Date: 21.NOV.2021 07:26:12

LOW BAND EDGE BLOCK-5MHz_FULL RB-low_offset



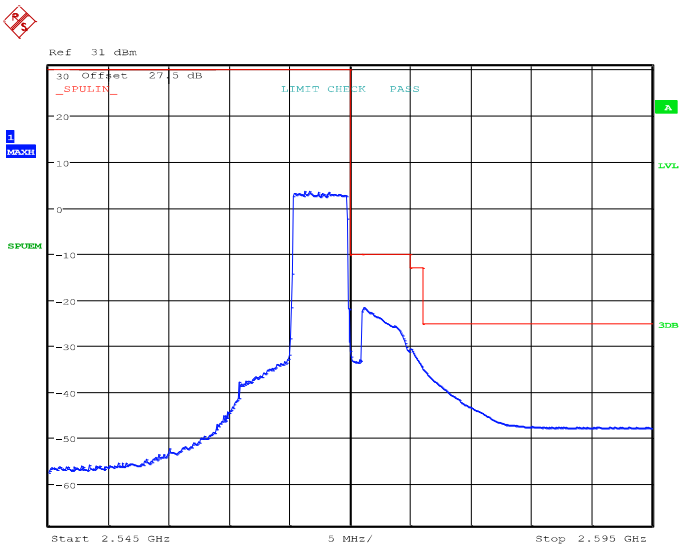
Date: 21.NOV.2021 07:24:53

HIGH BAND EDGE BLOCK-5MHz_1RB-high_offset



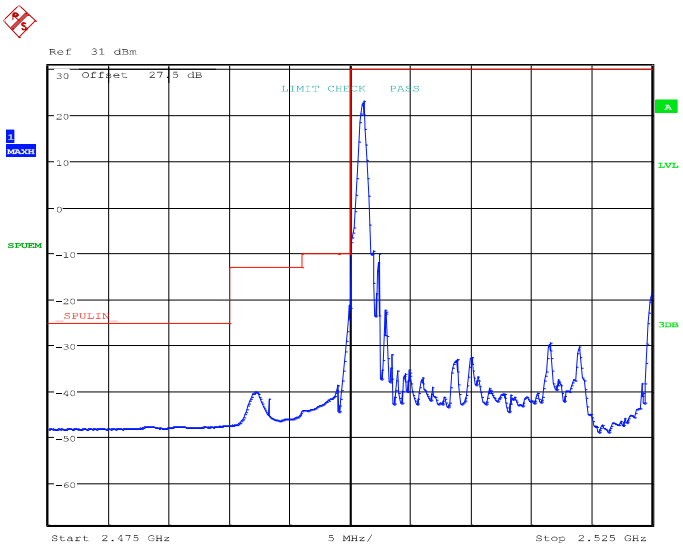
Date: 21.NOV.2021 07:30:28

HIGH BAND EDGE BLOCK-5MHz_FULL RB-high_offset



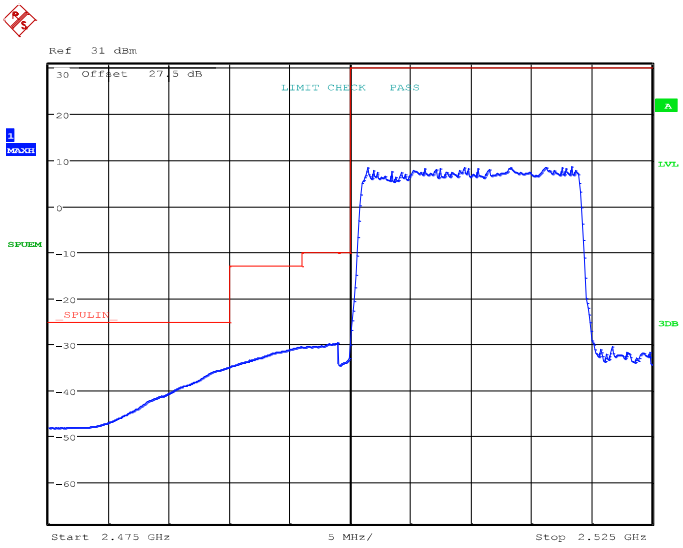
Date: 21.NOV.2021 07:32:05

LOW BAND EDGE BLOCK-20MHz_1RB-low_offset



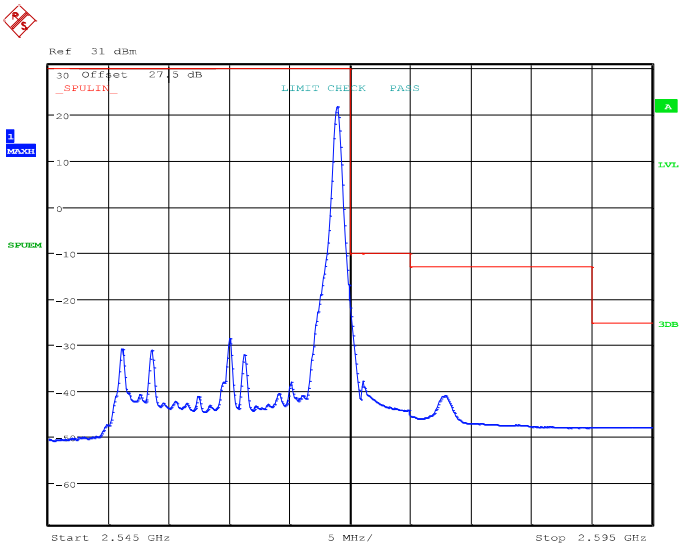
Date: 22.NOV.2021 15:18:33

LOW BAND EDGE BLOCK-20MHz_FULL RB-low_offset



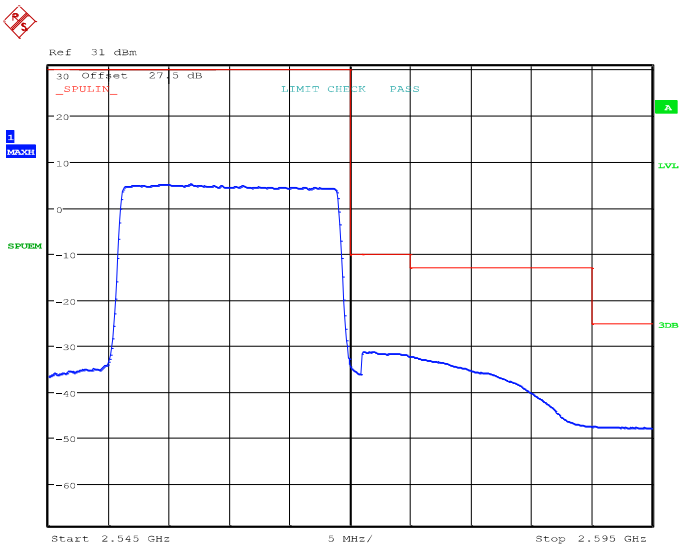
Date: 22.NOV.2021 15:21:18

HIGH BAND EDGE BLOCK-20MHz_1RB-high_offset



Date: 22.NOV.2021 15:28:28

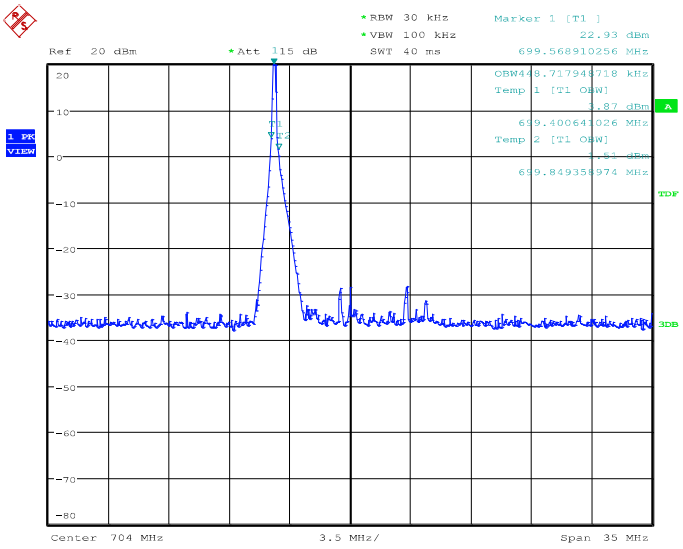
HIGH BAND EDGE BLOCK-20MHz_FULL RB-high_offset



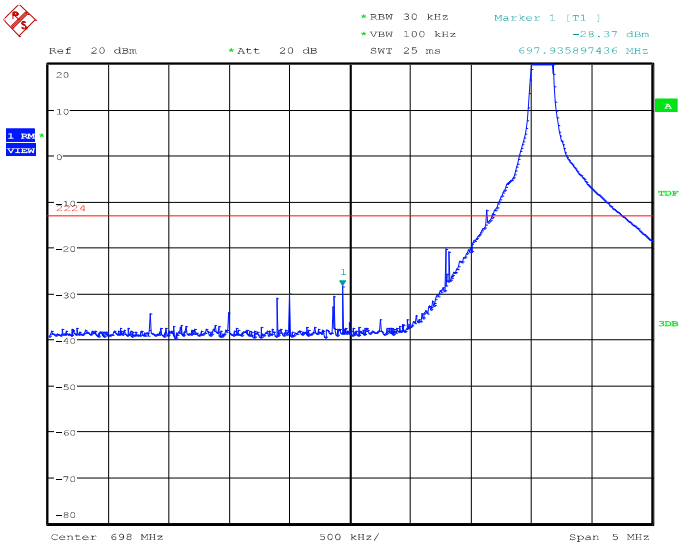
Date: 22.NOV.2021 15:27:23

LTE band 12

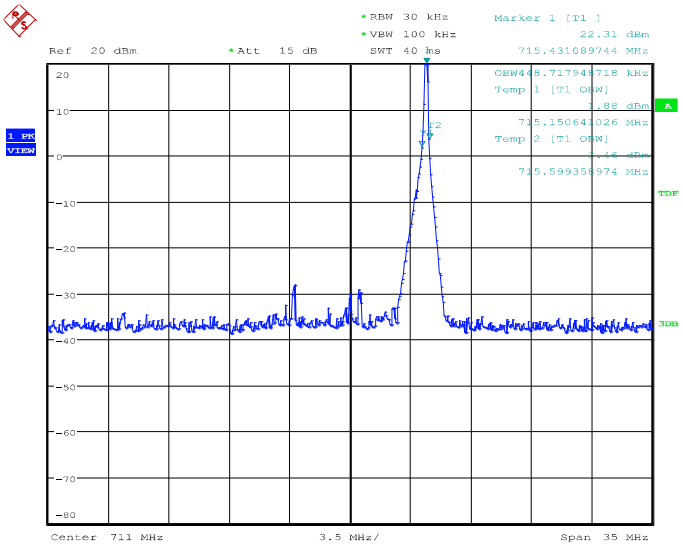
OBW: 1RB-low_offset



LOW BAND EDGE BLOCK-1RB-low_offset

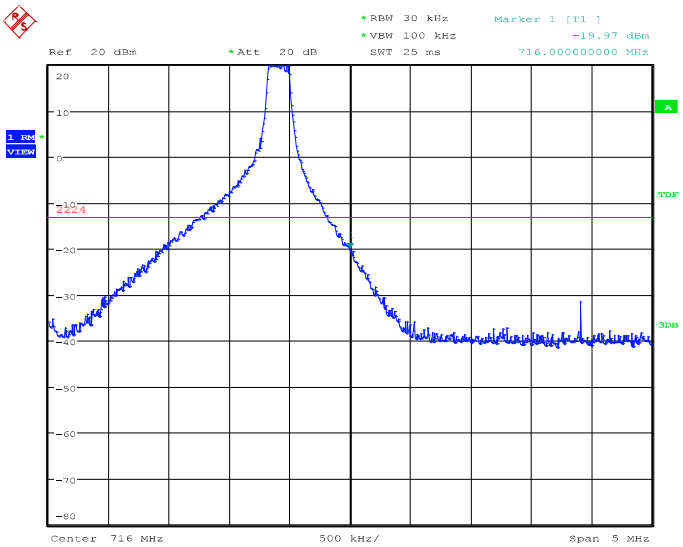


OBW: 1RB-high_offset



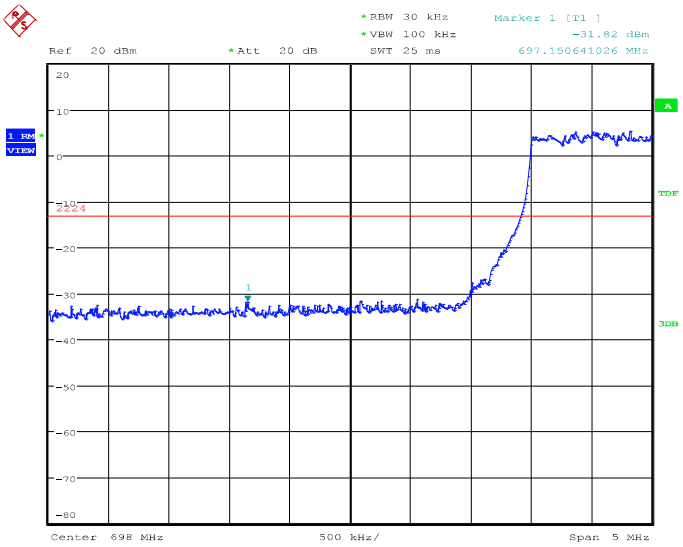
Date: 16.NOV.2021 17:42:59

HIGH BAND EDGE BLOCK-1RB-high_offset



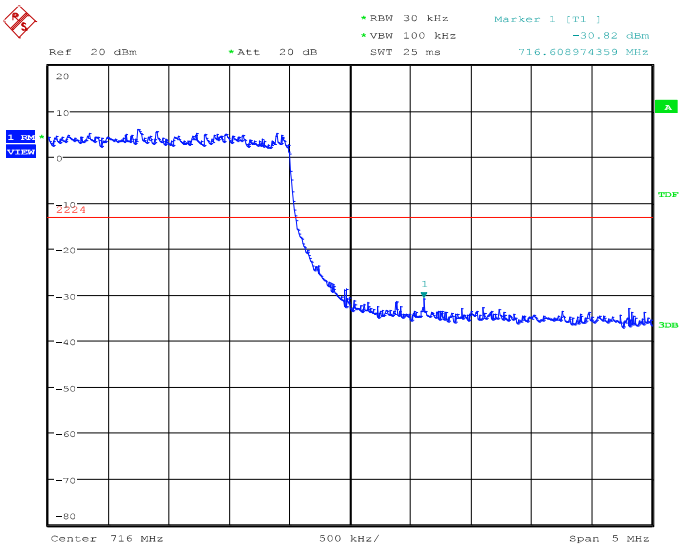
Date: 16.NOV.2021 17:48:27

LOW BAND EDGE BLOCK-10MHz-100%RB



Date: 16.NOV.2021 17:55:44

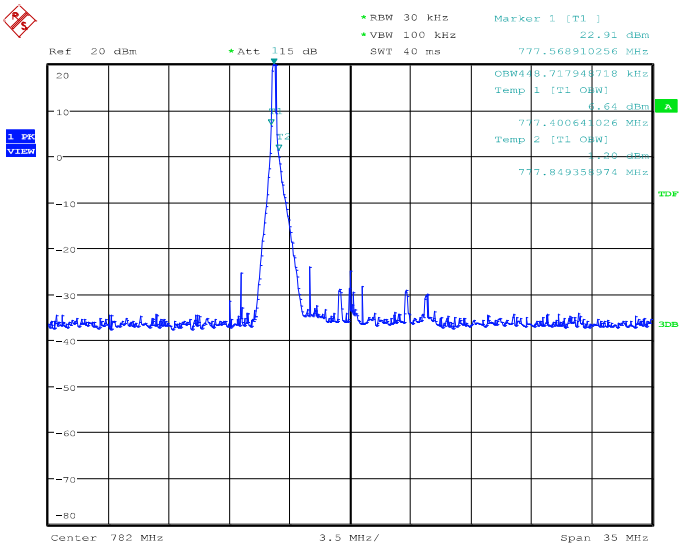
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 16.NOV.2021 17:58:09

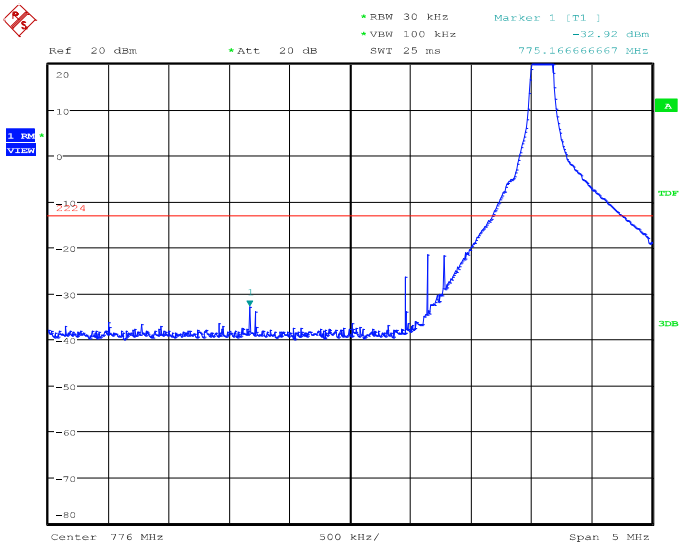
LTE band 13

OBW: 1RB-low_offset

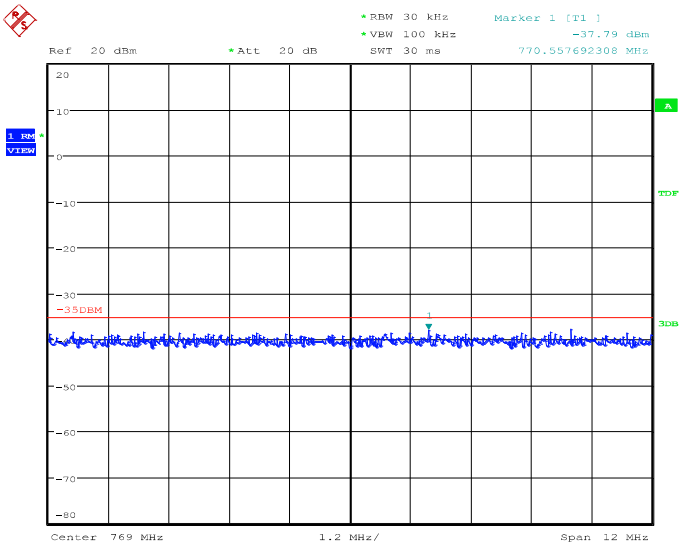


Date: 16.NOV.2021 18:28:57

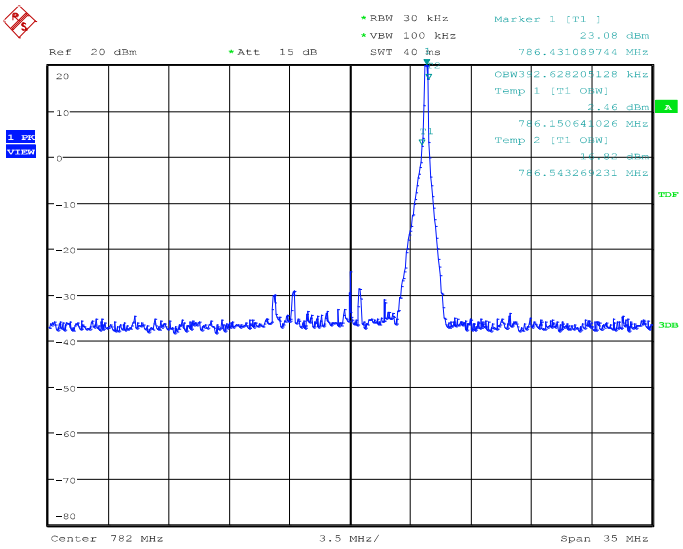
LOW BAND EDGE BLOCK-1RB-low_offset



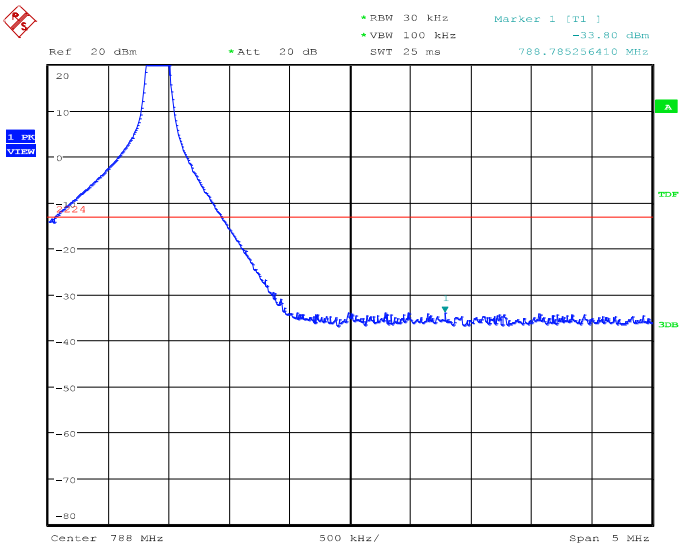
Date: 16.NOV.2021 18:44:06



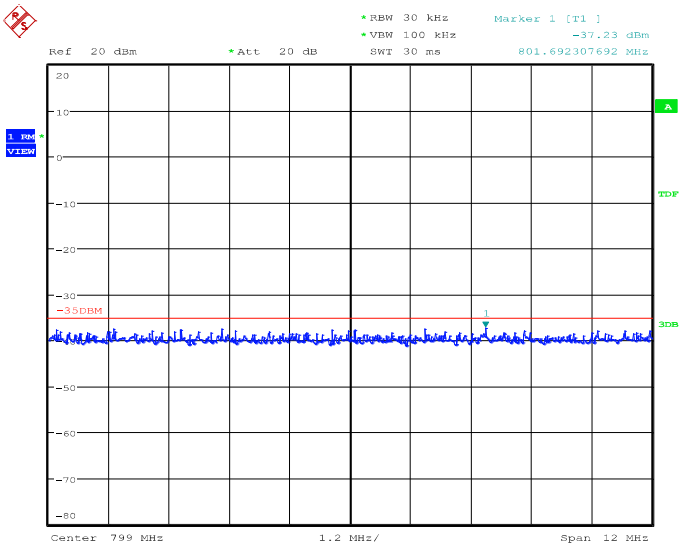
OBW: 1RB-high_offset



HIGH BAND EDGE BLOCK-1RB-high_offset

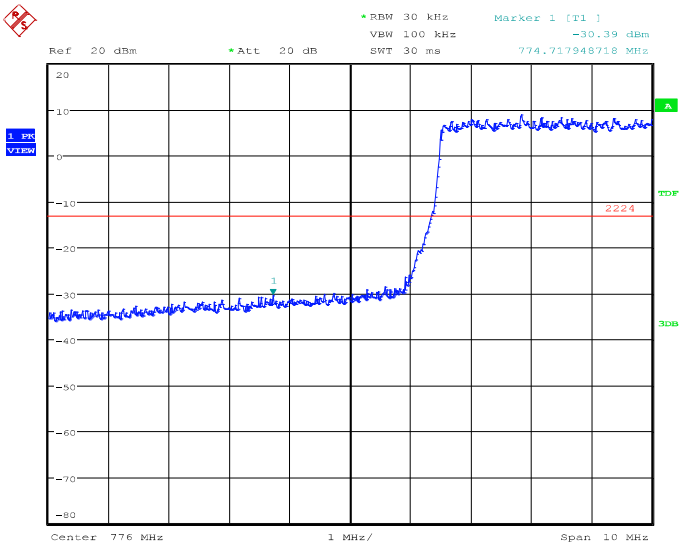


Date: 16.NOV.2021 18:34:55

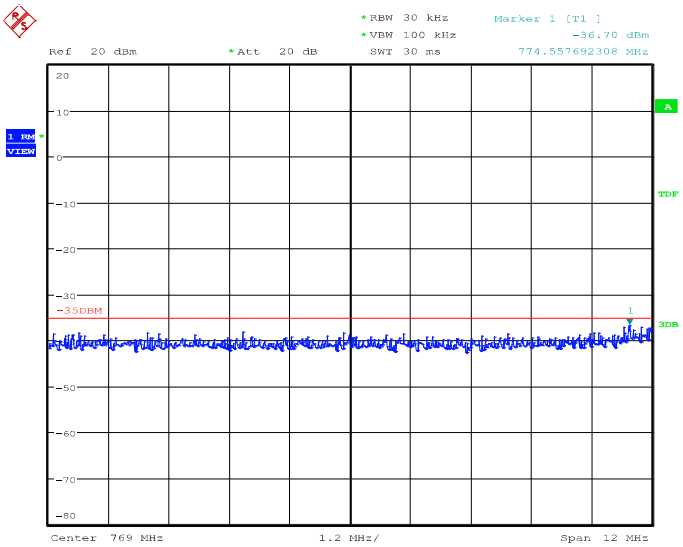


Date: 16.NOV.2021 18:37:20

LOW BAND EDGE BLOCK-10MHz-100%RB

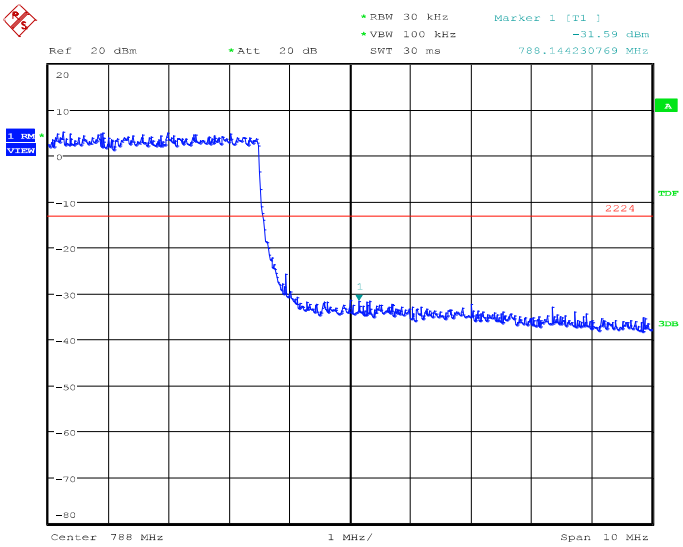


Date: 16.NOV.2021 18:57:22

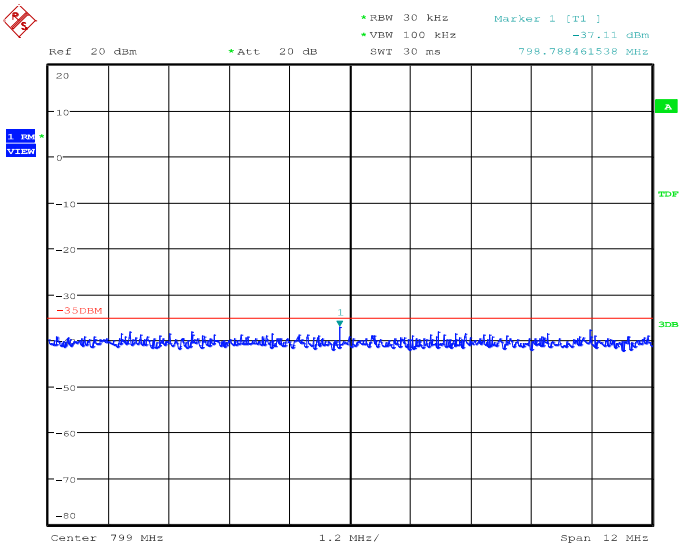


Date: 16.NOV.2021 18:47:39

HIGH BAND EDGE BLOCK-10MHz-100%RB



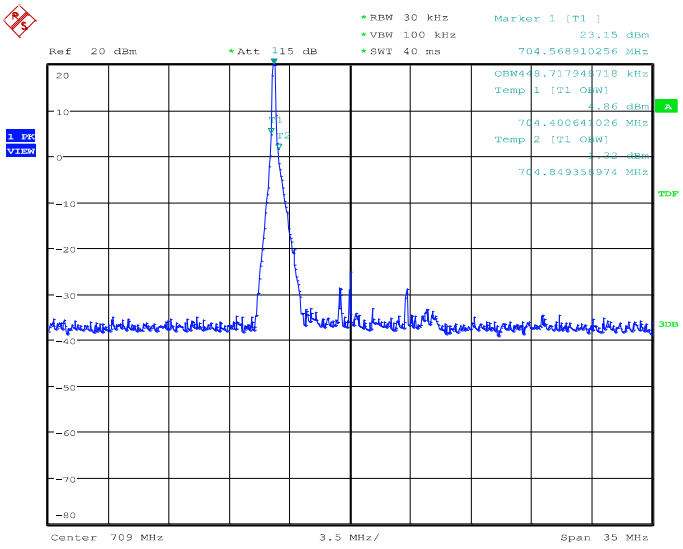
Date: 16.NOV.2021 18:50:24



Date: 16.NOV.2021 18:49:05

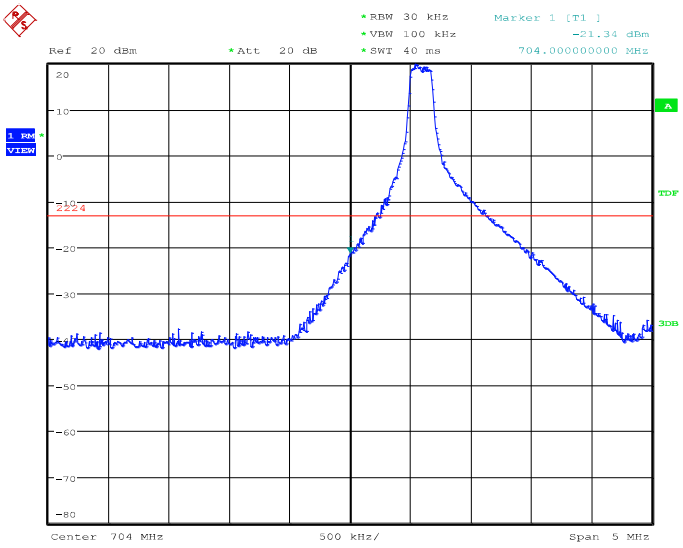
LTE band 17

OBW: 1RB-low_offset



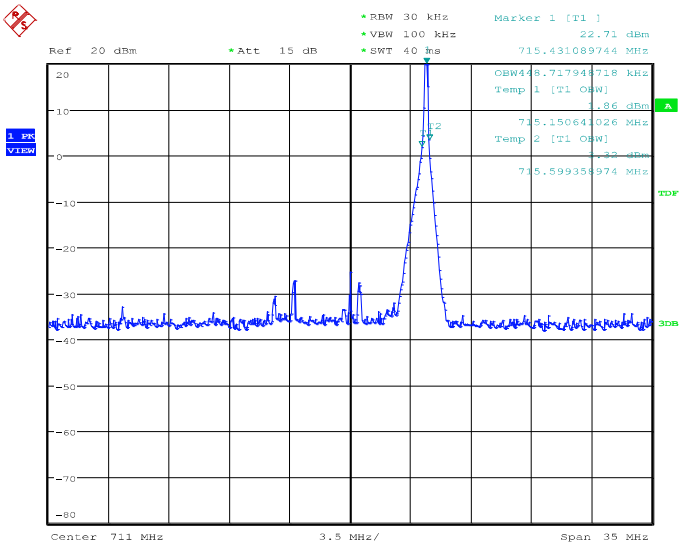
Date: 16.NOV.2021 18:06:14

LOW BAND EDGE BLOCK-1RB-low_offset



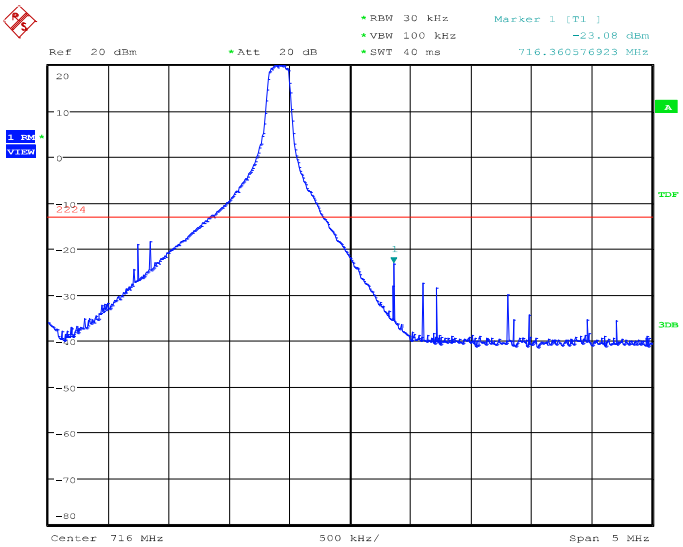
Date: 16.NOV.2021 18:13:29

OBW: 1RB-high_offset



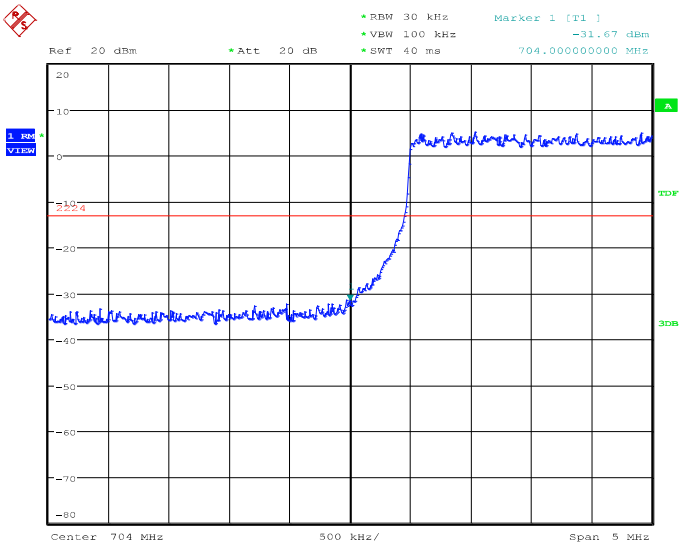
Date: 16.NOV.2021 18:08:04

HIGH BAND EDGE BLOCK-1RB-high_offset



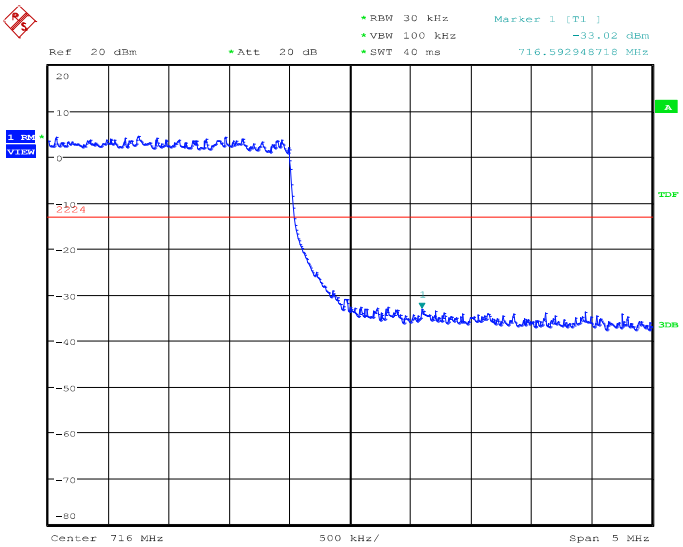
Date: 16.NOV.2021 18:10:16

LOW BAND EDGE BLOCK-5MHz-100%RB



Date: 16.NOV.2021 18:12:41

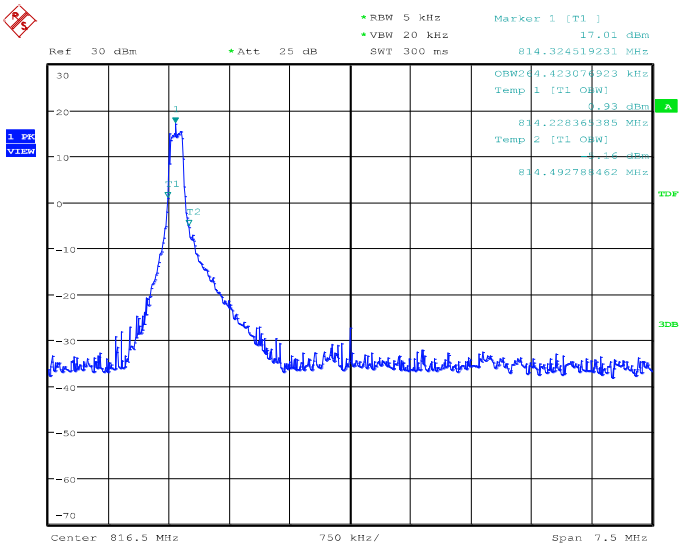
HIGH BAND EDGE BLOCK-5MHz-100%RB



Date: 16.NOV.2021 18:11:29

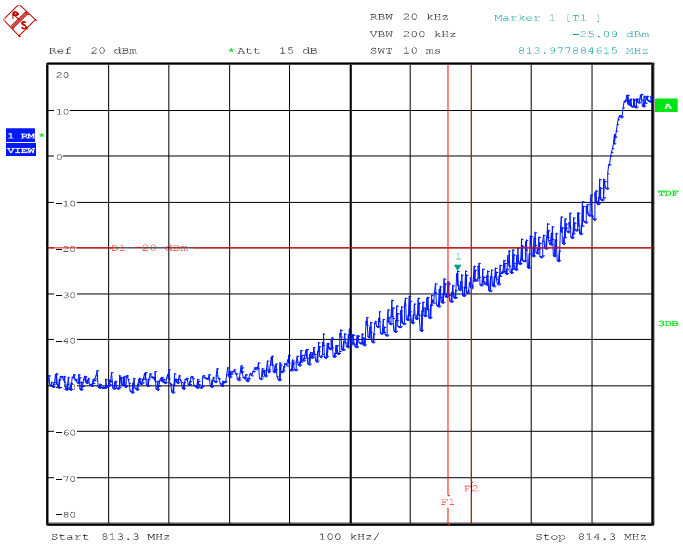
LTE band 26(814MHz-824MHz)

OBW: 1RB-low_offset



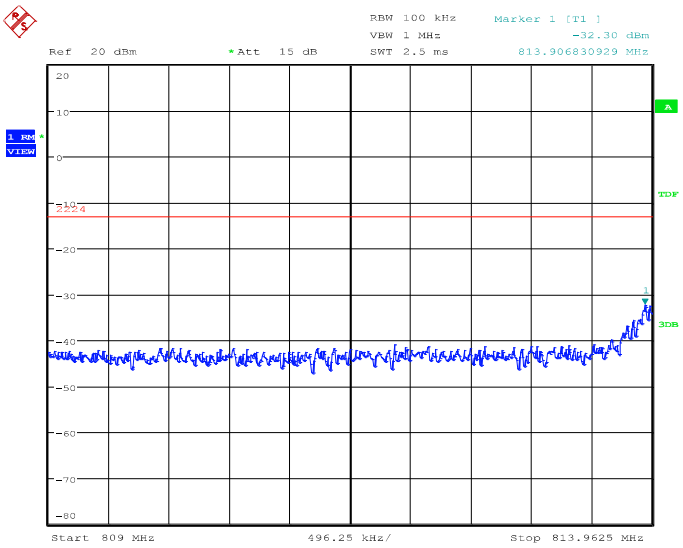
Date: 9.NOV.2021 06:28:18

LOW Emission Mask -1RB-low_offset

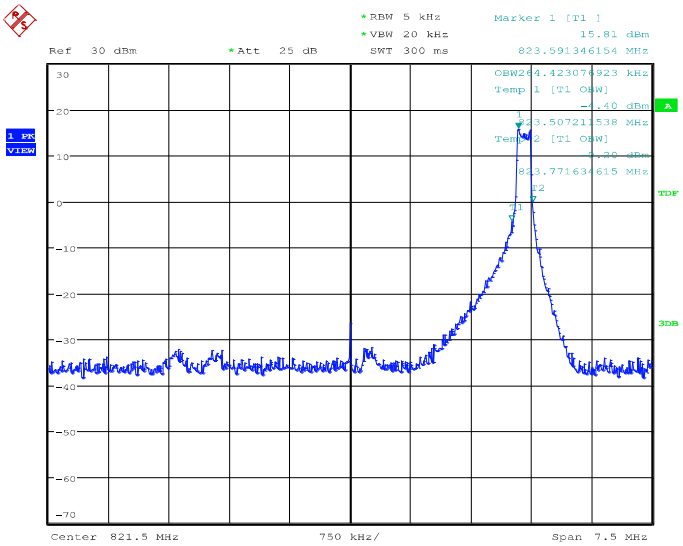


Date: 6.DEC.2021 20:58:40

LOW BAND EDGE BLOCK-1RB-low_offset

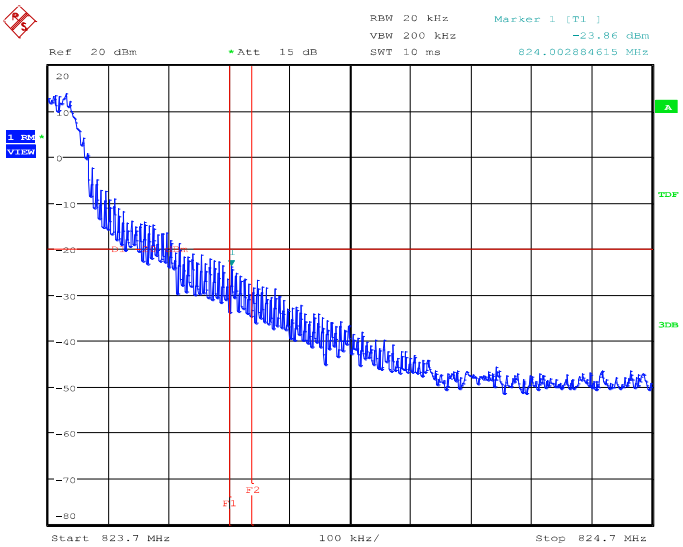


OBW: 1RB-high_offset



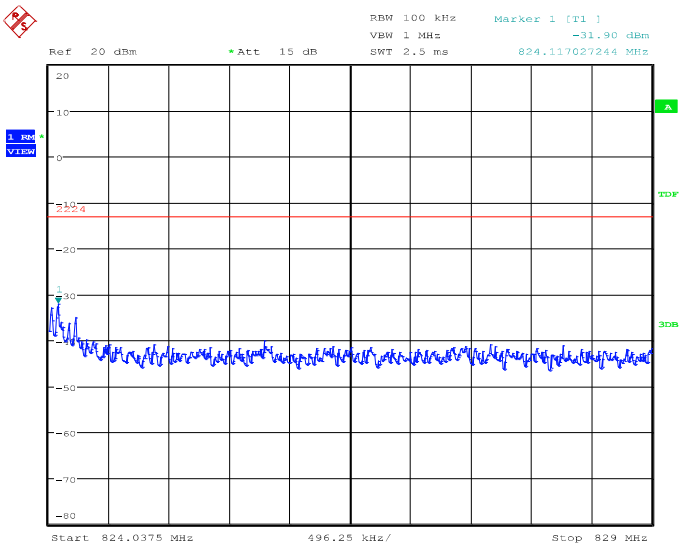
Date: 6.DEC.2021 09:06:47

HIGH Emission Mask -1RB-high_offset



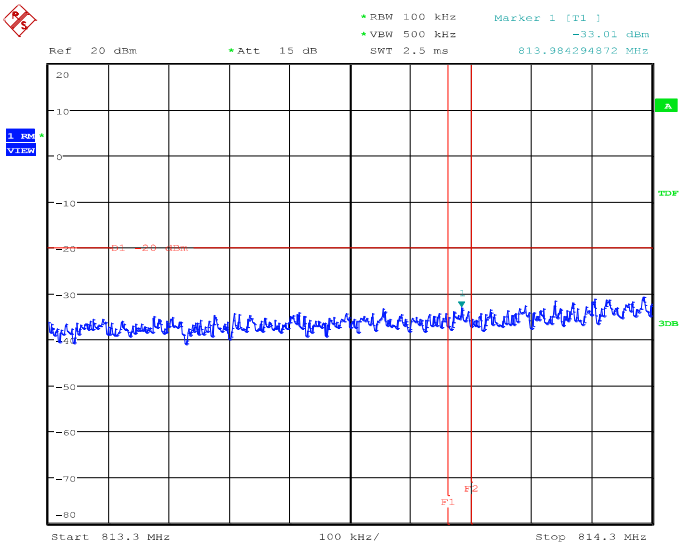
Date: 6.DEC.2021 20:59:28

HIGH BAND EDGE BLOCK-1RB-high_offset



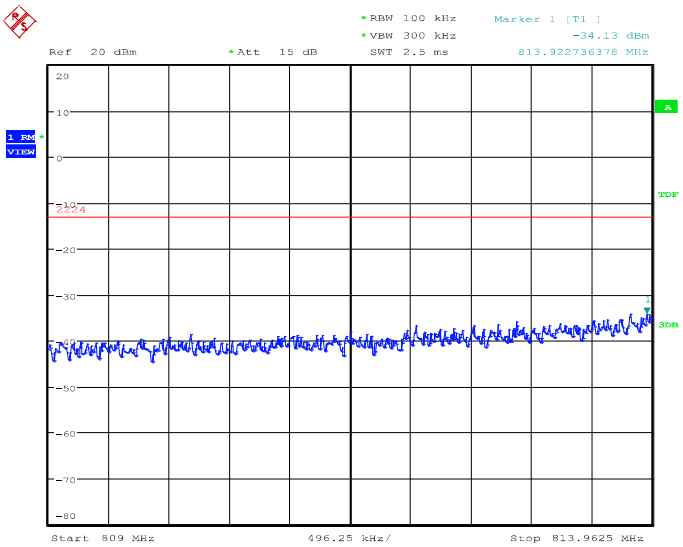
Date: 6.DEC.2021 20:59:30

LOW Emission Mask -10MHz-100%RB



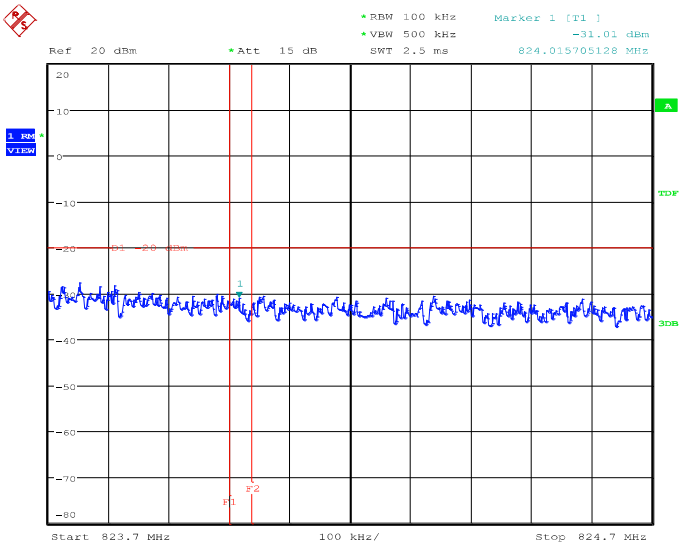
Date: 7.DEC.2021 07:12:33

LOW BAND EDGE BLOCK-10MHz-100%RB



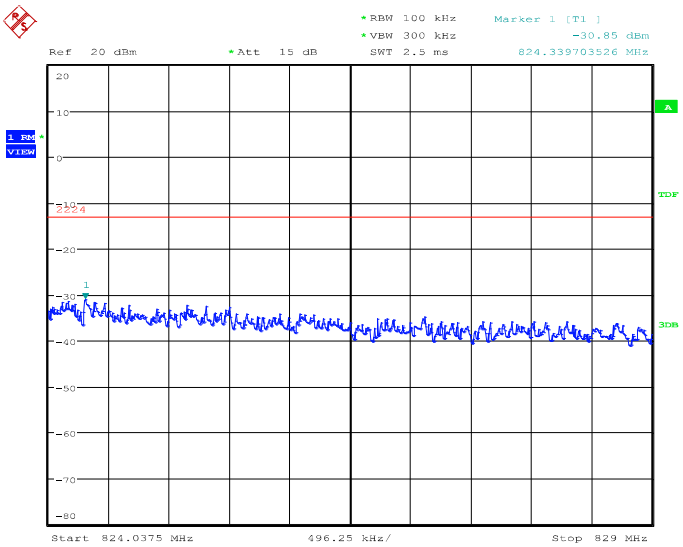
Date: 7.DEC.2021 07:12:38

HIGH Emission Mask -10MHz-100%RB



Date: 7.DEC.2021 07:13:24

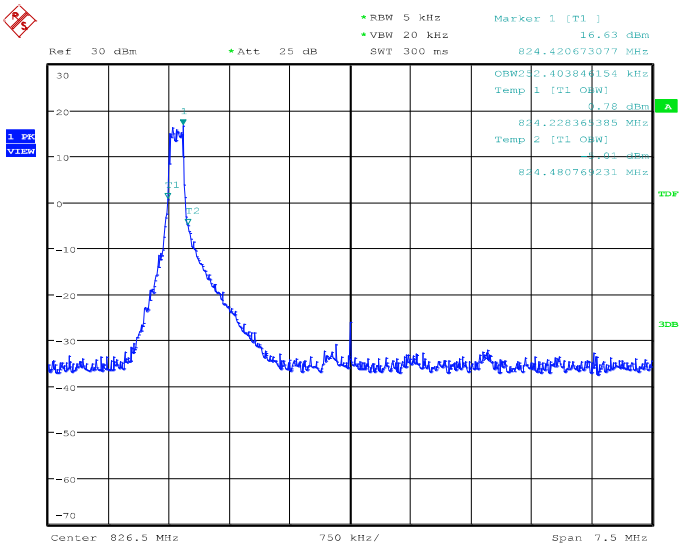
HIGH BAND EDGE BLOCK-10MHz-100%RB



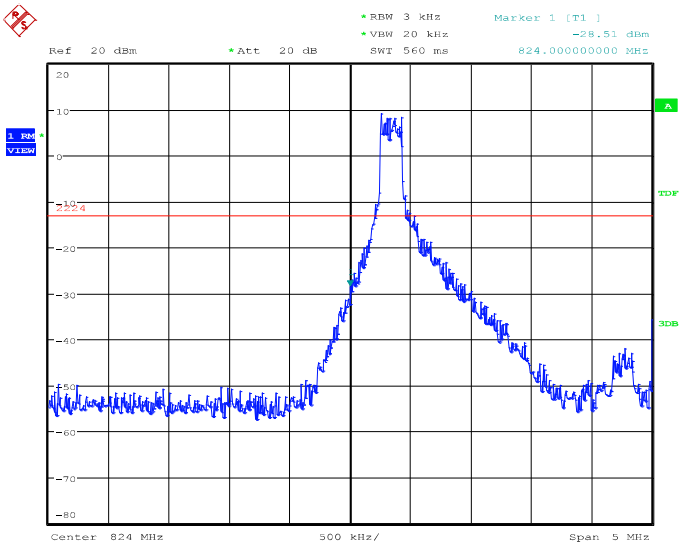
Date: 7.DEC.2021 07:13:29

LTE band 26(824MHz-849MHz)

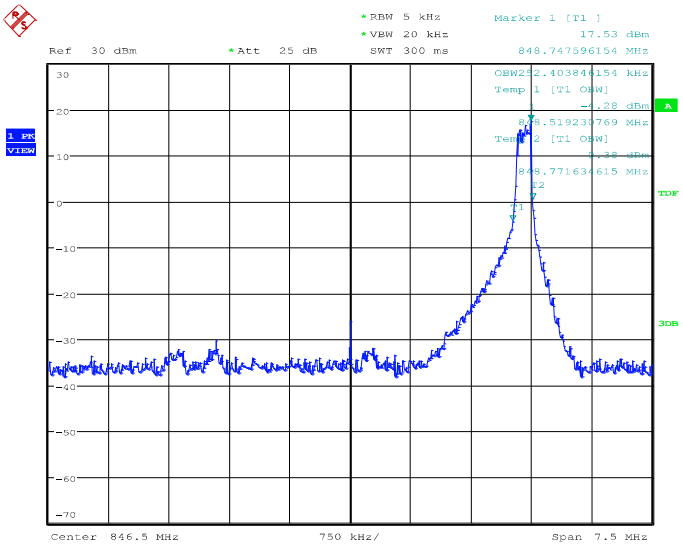
OBW: 1RB-low_offset



LOW BAND EDGE BLOCK-1RB-low_offset

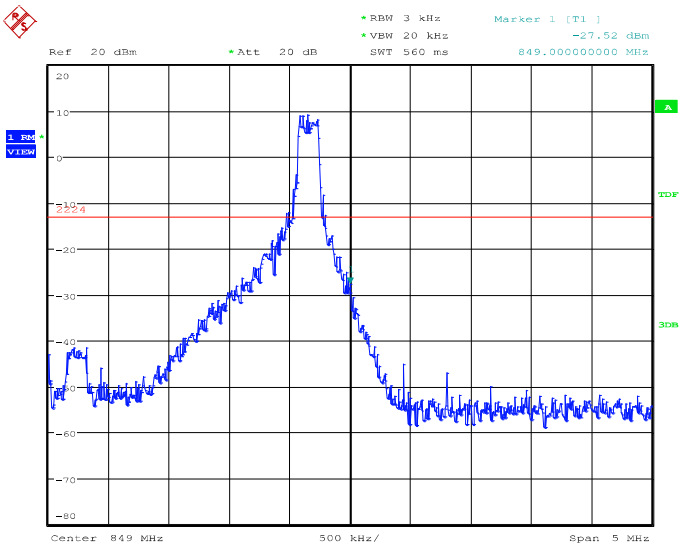


OBW: 1RB-high_offset



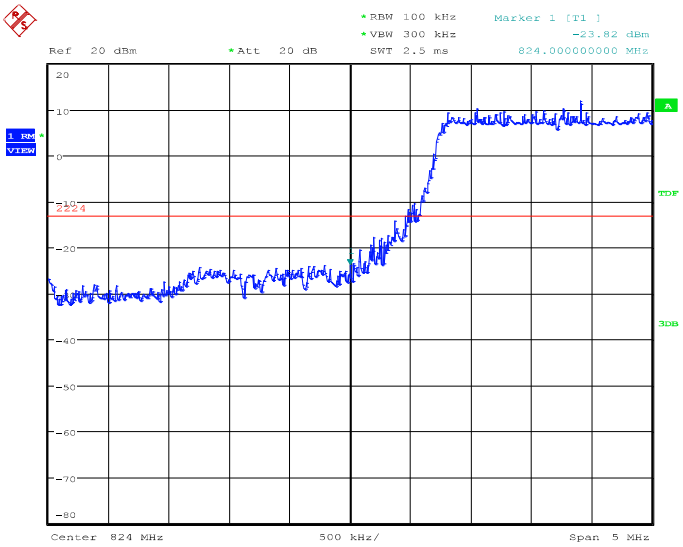
Date: 6.DEC.2021 08:57:50

HIGH BAND EDGE BLOCK-1RB-high_offset



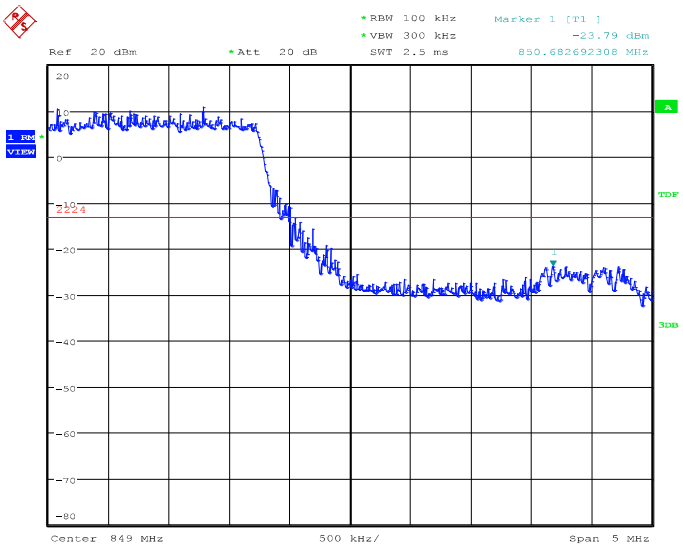
Date: 6.DEC.2021 08:58:36

LOW BAND EDGE BLOCK-15MHz-100%RB



Date: 8.NOV.2021 16:31:52

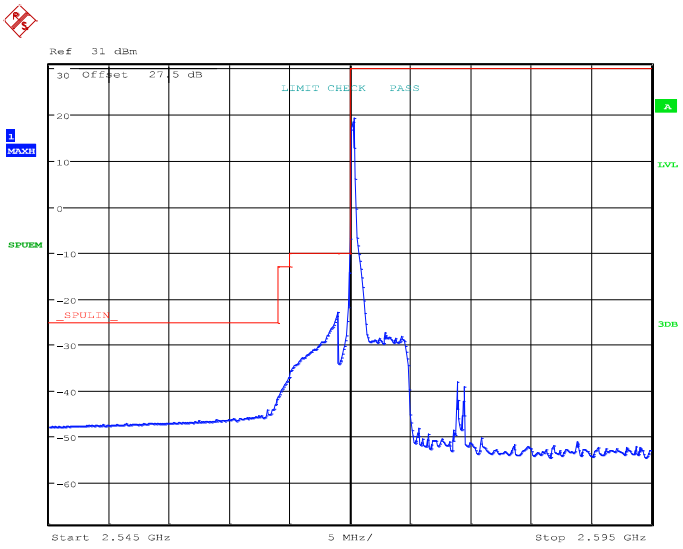
HIGH BAND EDGE BLOCK-15MHz-100%RB



Date: 8.NOV.2021 16:02:39

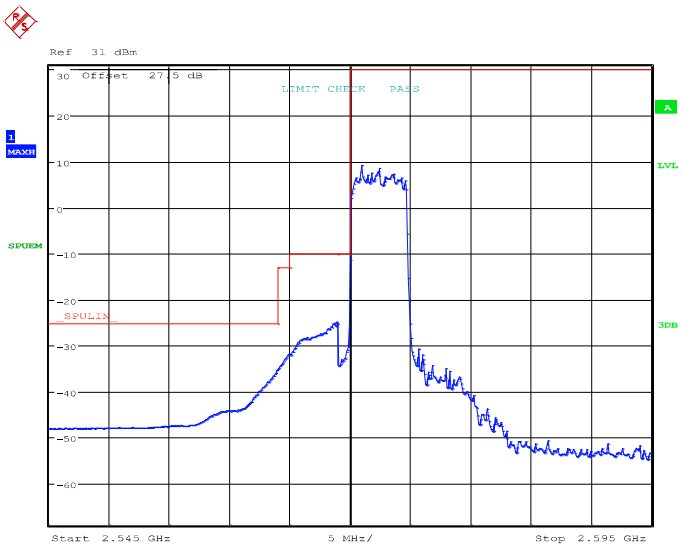
LTE band 38

LOW BAND EDGE BLOCK-5MHz_1RB-low_offset



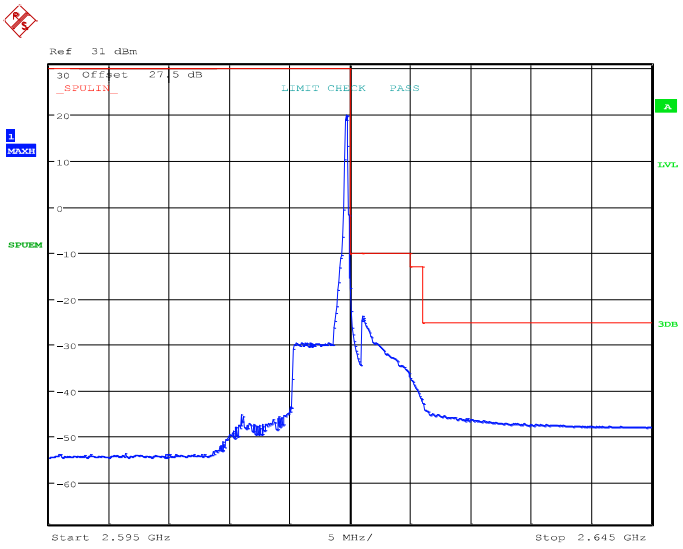
Date: 22.NOV.2021 16:37:01

LOW BAND EDGE BLOCK-5MHz_FULL RB-low_offset



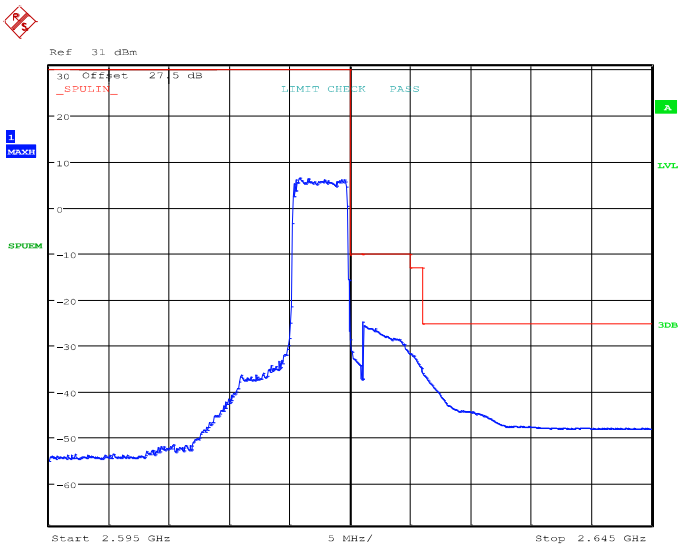
Date: 22.NOV.2021 16:37:58

HIGH BAND EDGE BLOCK-5MHz_1RB-high_offset



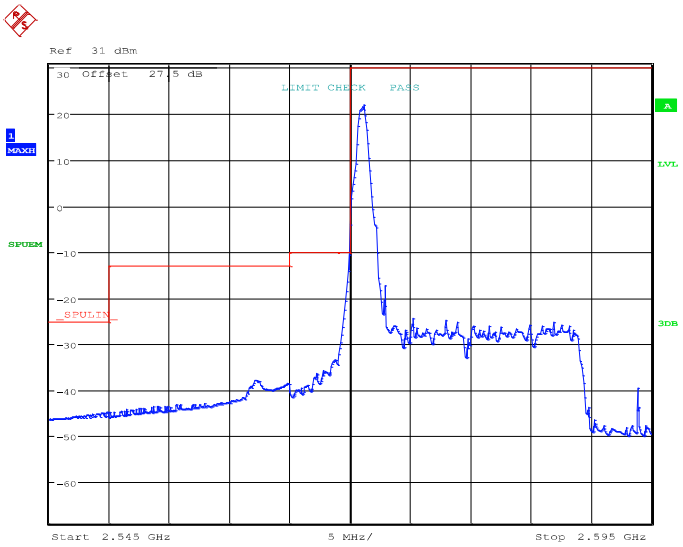
Date: 22.NOV.2021 16:35:08

HIGH BAND EDGE BLOCK-5MHz_FULL RB-high_offset



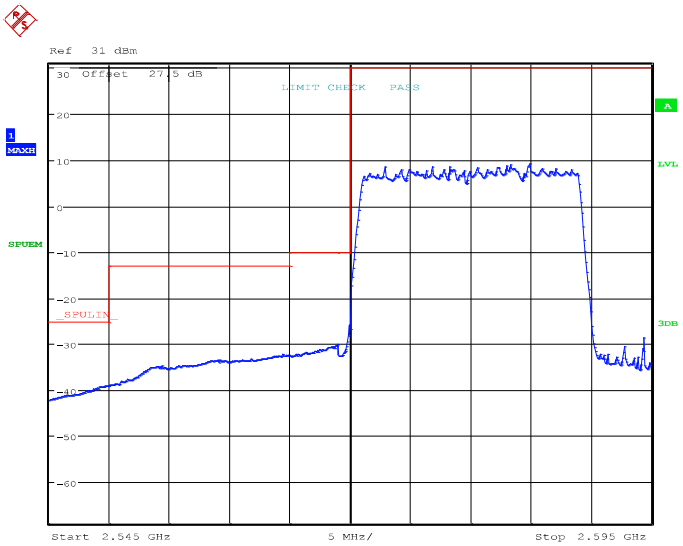
Date: 22.NOV.2021 16:34:18

LOW BAND EDGE BLOCK-20MHz_1RB-low_offset



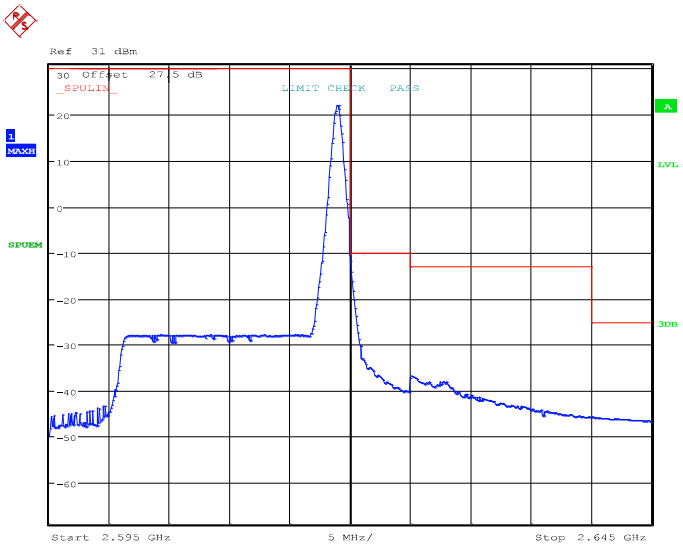
Date: 23.NOV.2021 08:14:56

LOW BAND EDGE BLOCK-20MHz_FULL RB-low_offset



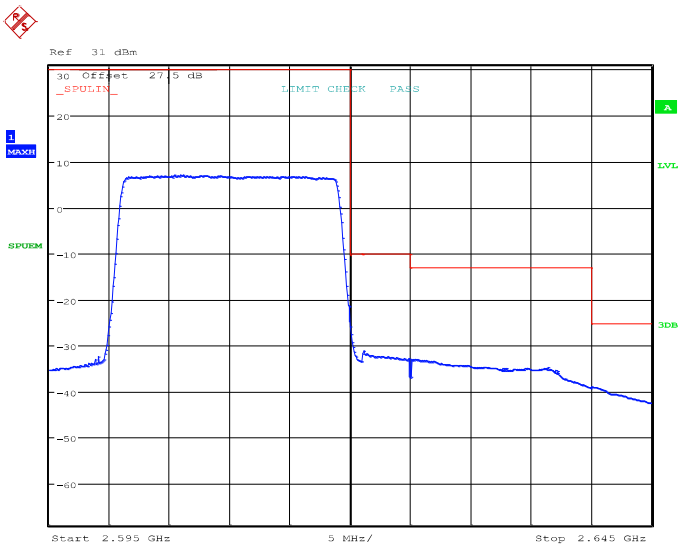
Date: 23.NOV.2021 07:55:33

HIGH BAND EDGE BLOCK-20MHz_1RB-high_offset



Date: 23.NOV.2021 08:20:35

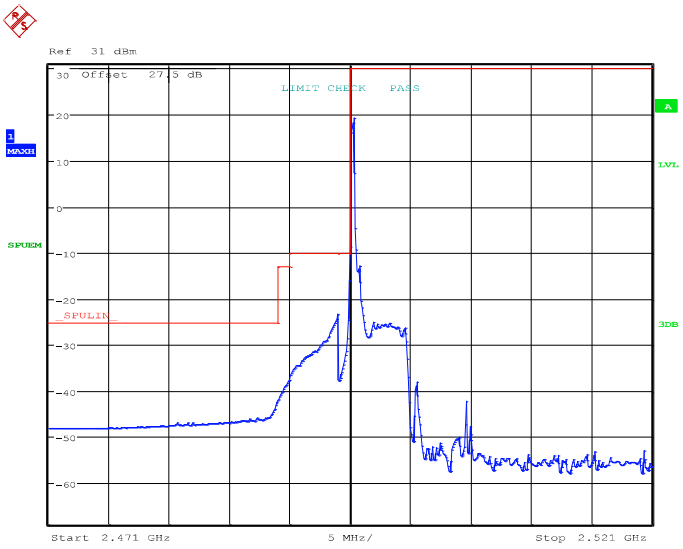
HIGH BAND EDGE BLOCK-20MHz_FULL RB-high_offset



Date: 23.NOV.2021 07:57:10

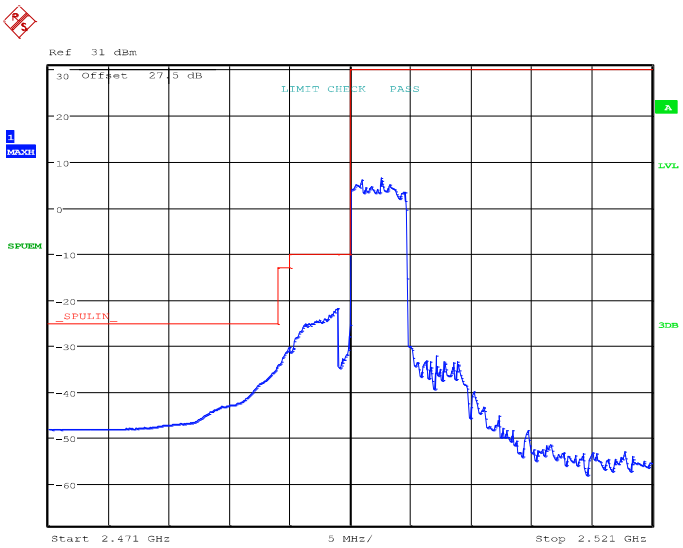
LTE band 41

LOW BAND EDGE BLOCK-5MHz_1RB-low_offset



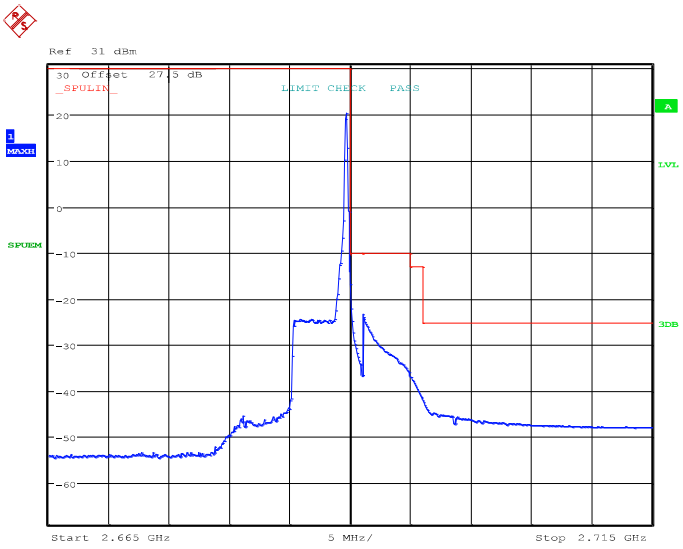
Date: 23.NOV.2021 07:05:14

LOW BAND EDGE BLOCK-5MHz_FULL RB-low_offset



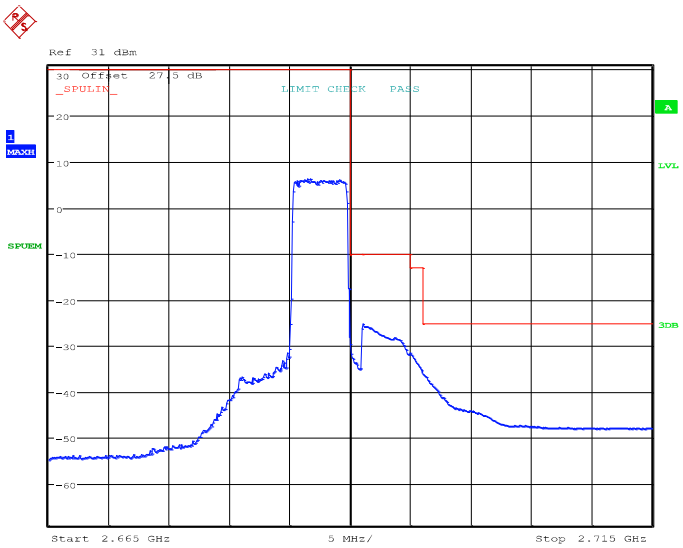
Date: 23.NOV.2021 07:06:18

HIGH BAND EDGE BLOCK-5MHz_1RB-high_offset



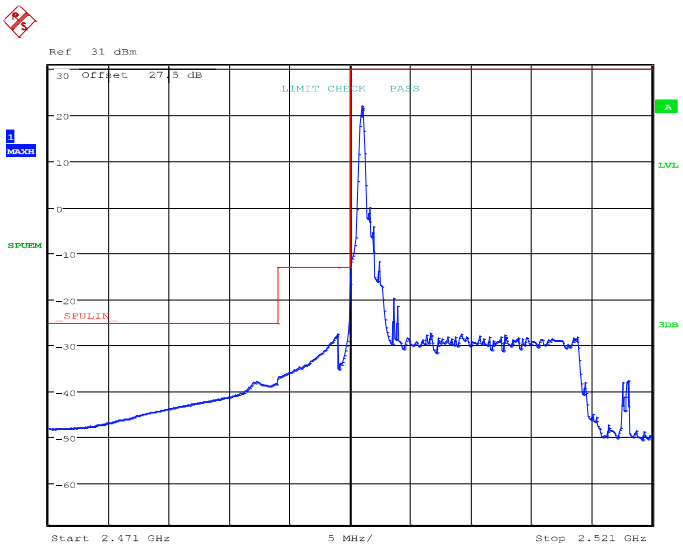
Date: 23.NOV.2021 07:10:41

HIGH BAND EDGE BLOCK-5MHz_FULL RB-high_offset



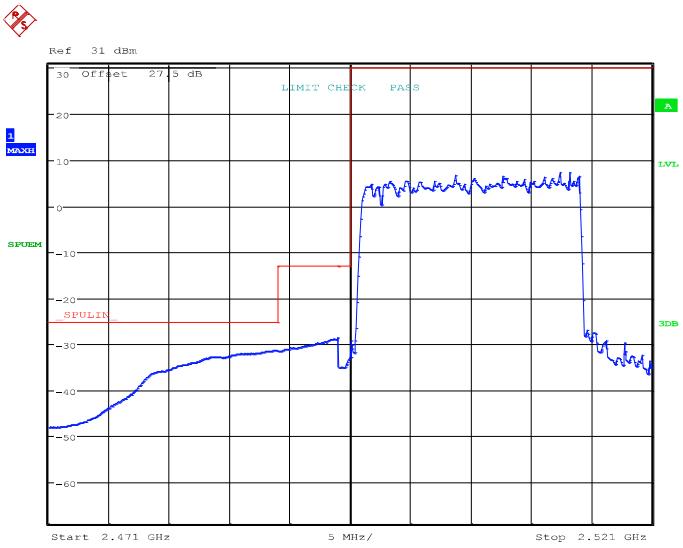
Date: 23.NOV.2021 07:09:29

LOW BAND EDGE BLOCK-20MHz_1RB-low_offset



Date: 23.NOV.2021 07:24:25

LOW BAND EDGE BLOCK-20MHz_FULL RB-low_offset



Date: 23.NOV.2021 07:26:15