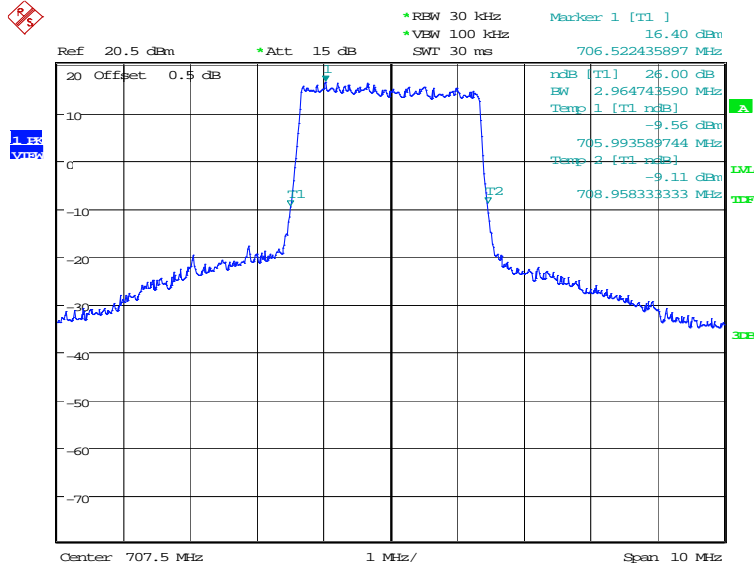
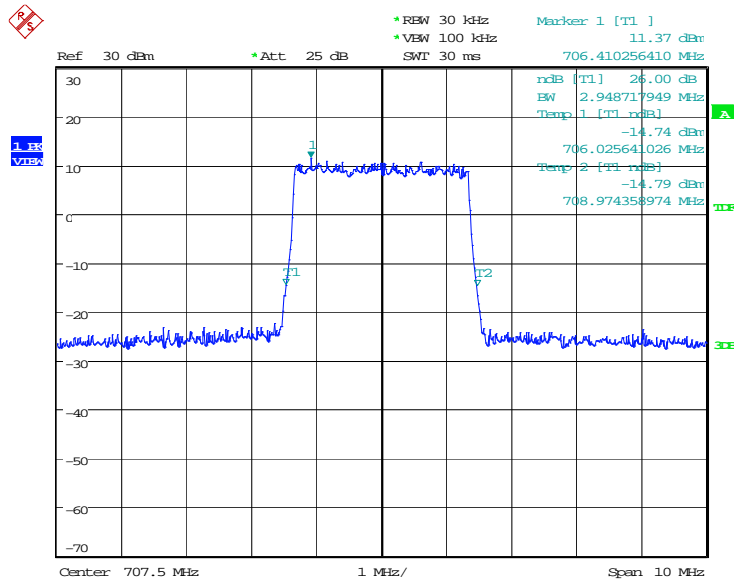


LTE band 12, 3MHz Bandwidth, 16QAM (-26dBc BW)



Date: 25.MAR.2020 19:33:17

LTE band 12, 3MHz Bandwidth, 64QAM (-26dBc BW)

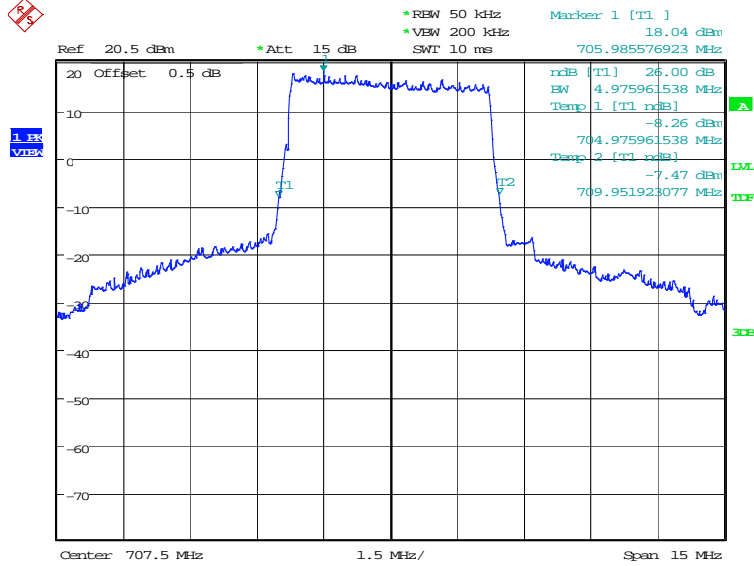


Date: 28.MAR.2020 10:17:15

LTE band 12, 5MHz (-26dBc)

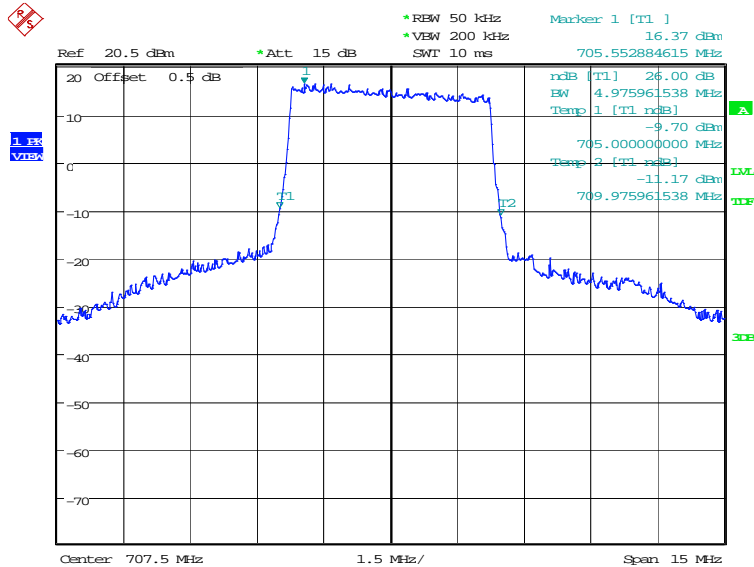
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
	QPSK	16QAM	64QAM
707.5	4975.96	4975.96	4927.88

LTE band 12, 5MHz Bandwidth, QPSK (-26dBc BW)



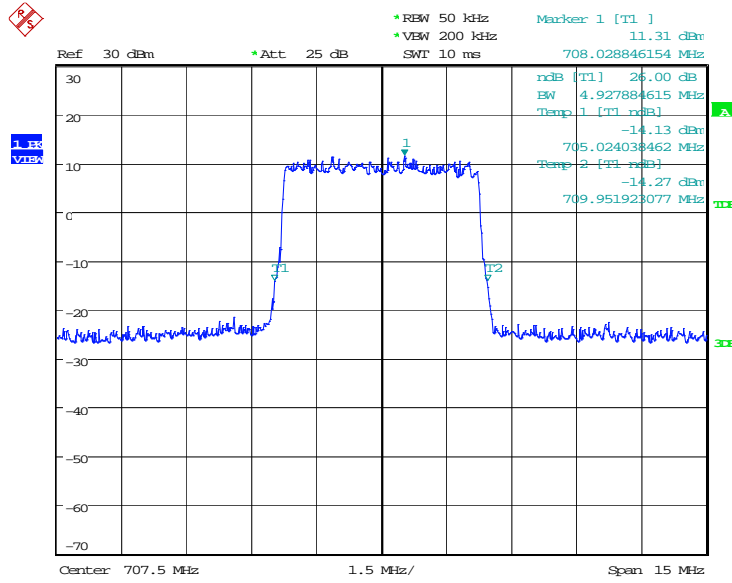
Date: 25.MAR.2020 19:34:44

LTE band 12, 5MHz Bandwidth, 16QAM (-26dBc BW)



Date: 25.MAR.2020 19:36:09

LTE band 12, 5MHz Bandwidth, 64QAM (-26dBc BW)

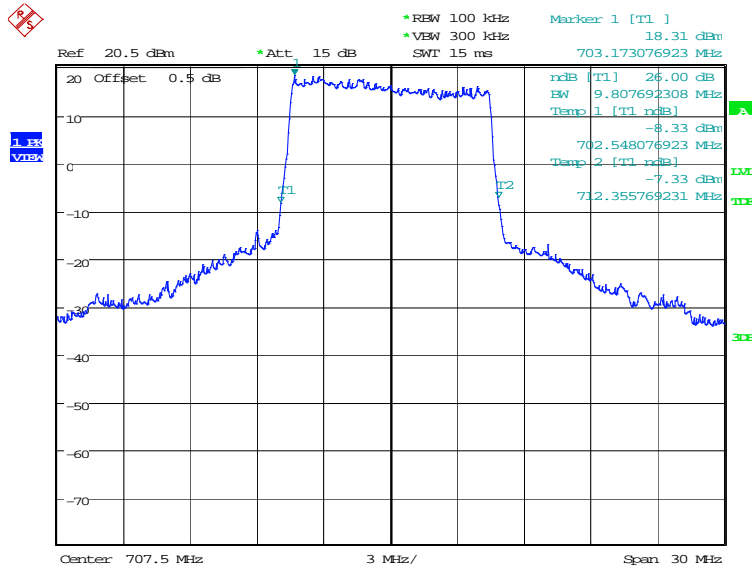


Date: 28.MAR.2020 10:18:44

LTE band 12, 10MHz (-26dBc)

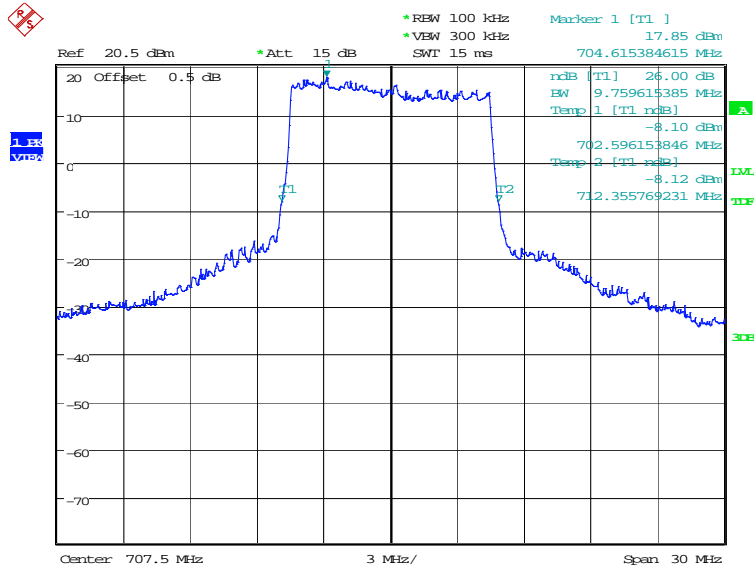
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
	QPSK	16QAM	64QAM
707.5	9807.69	9759.62	9615.38

LTE band 12, 10MHz Bandwidth, QPSK (-26dBc BW)



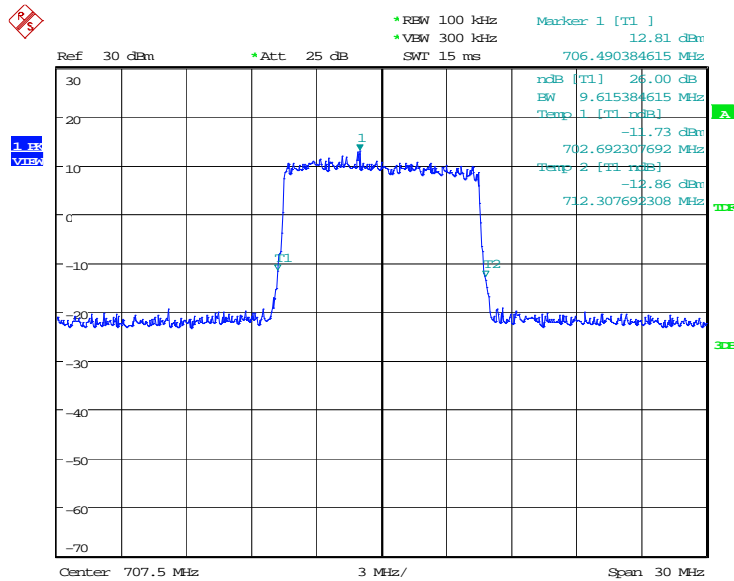
Date: 25.MAR.2020 19:37:36

LTE band 12, 10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 25.MAR.2020 19:39:00

LTE band 12, 10MHz Bandwidth, 64QAM (-26dBc BW)

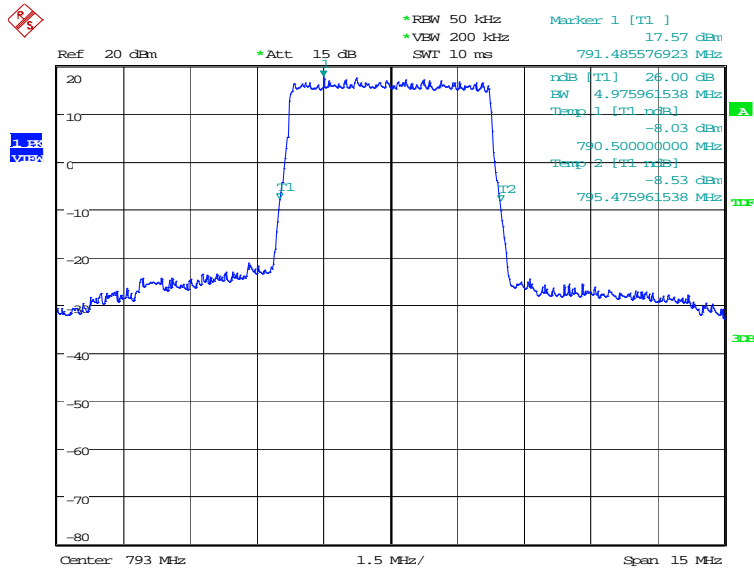


Date: 28.MAR.2020 10:21:01

LTE band 14, 5MHz (-26dBc)

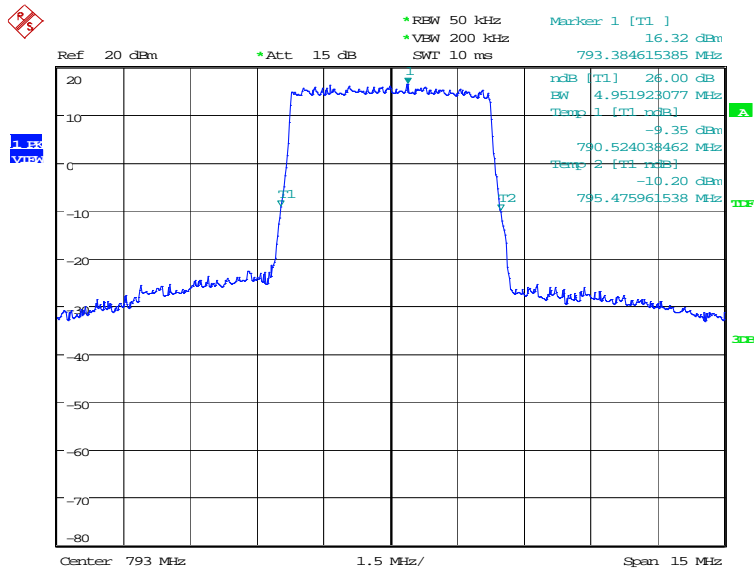
Frequency (MHz)	Occupied Bandwidth (-26dBc)(kHz)		
	QPSK	16QAM	64QAM
793.0	4975.96	4951.92	4903.85

LTE band 14, 5MHz Bandwidth, QPSK (-26dBc BW)



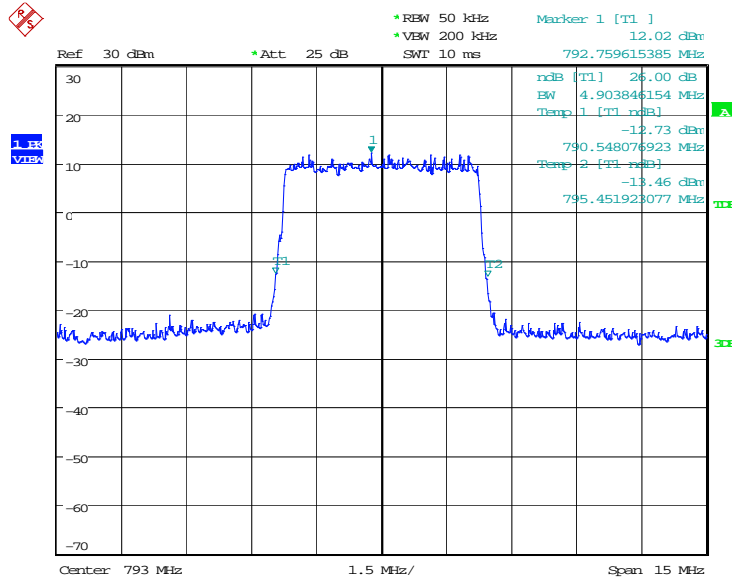
Date: 25.MAR.2020 19:40:27

LTE band 14, 5MHz Bandwidth, 16QAM (-26dBc BW)



Date: 25.MAR.2020 19:41:52

LTE band 14, 5MHz Bandwidth, 64QAM (-26dBc BW)

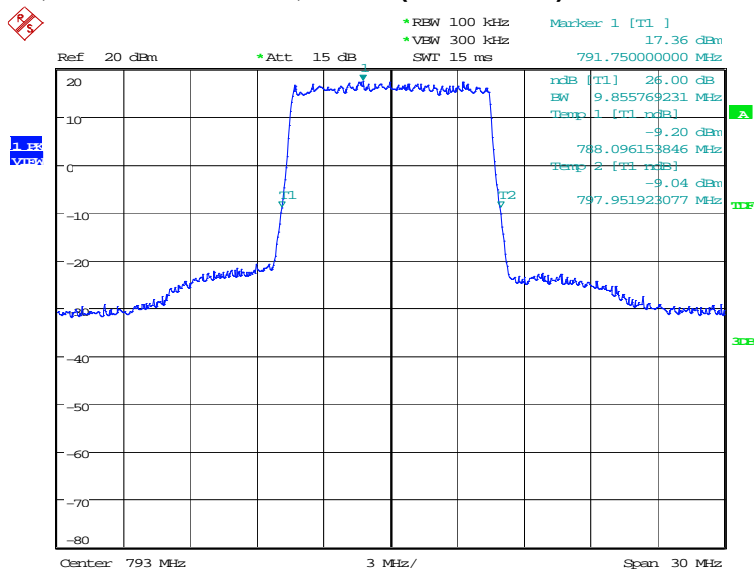


Date: 28.MAR.2020 10:24:14

LTE band 14, 10MHz (-26dBc)

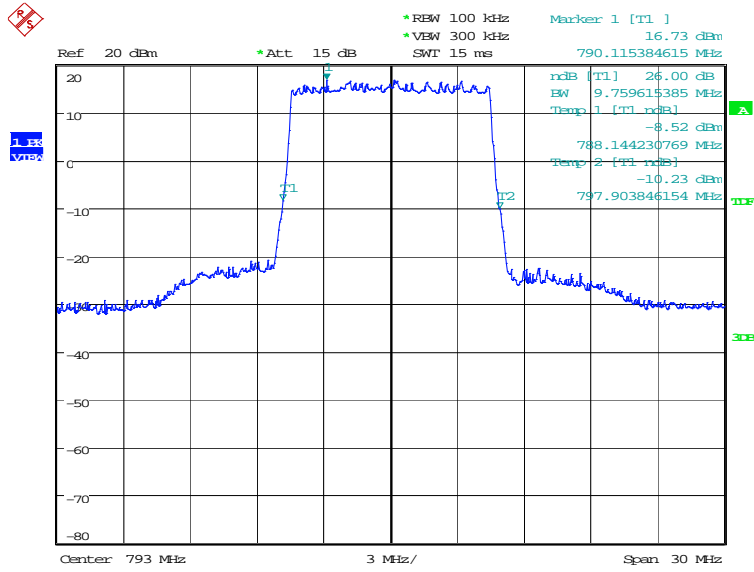
Frequency (MHz)	Occupied Bandwidth (-26dBc)(kHz)		
	QPSK	16QAM	64QAM
793.0	9855.77	9759.62	9759.62

LTE band 14, 10MHz Bandwidth, QPSK (-26dBc BW)



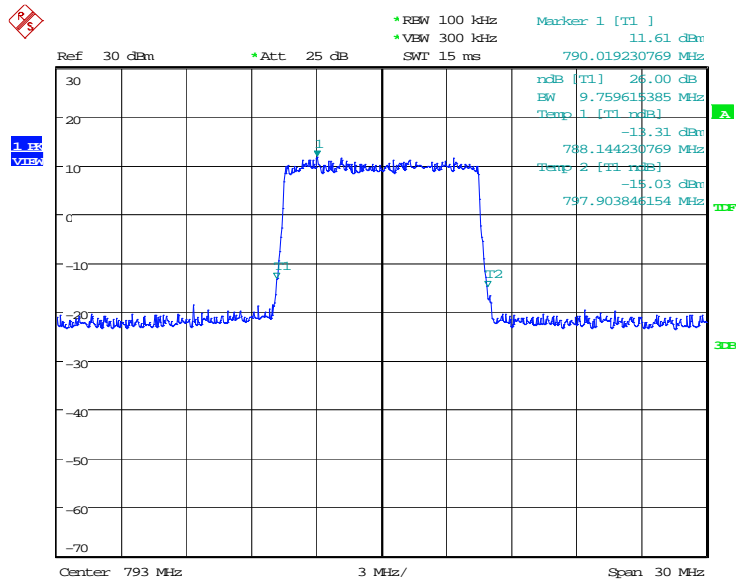
Date: 25.MAR.2020 19:43:18

LTE band 14, 10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 25.MAR.2020 19:44:43

LTE band 14, 10MHz Bandwidth, 64QAM (-26dBc BW)

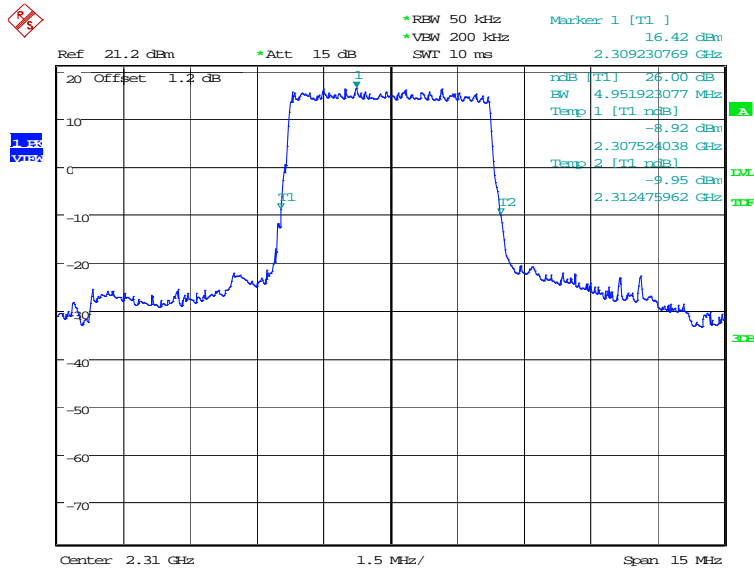


Date: 28.MAR.2020 10:25:49

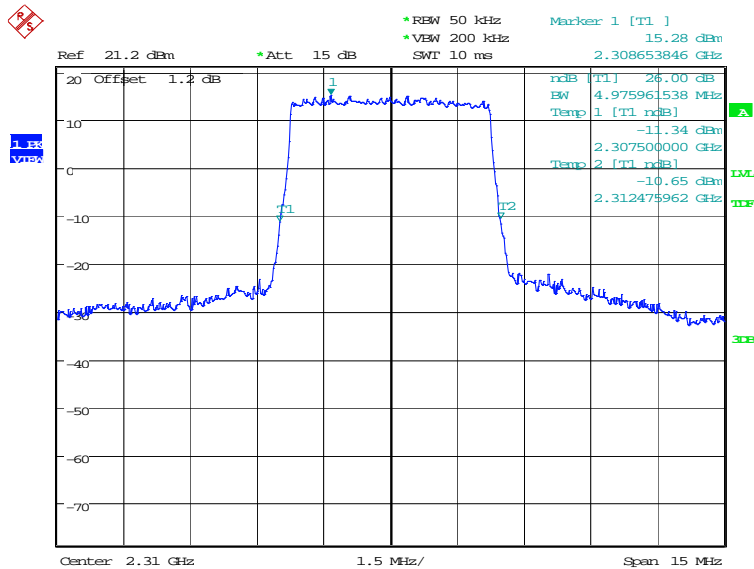
LTE band 30, 5MHz (-26dBc)

Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
	QPSK	16QAM	64QAM
2310.0	4951.92	4975.96	4879.81

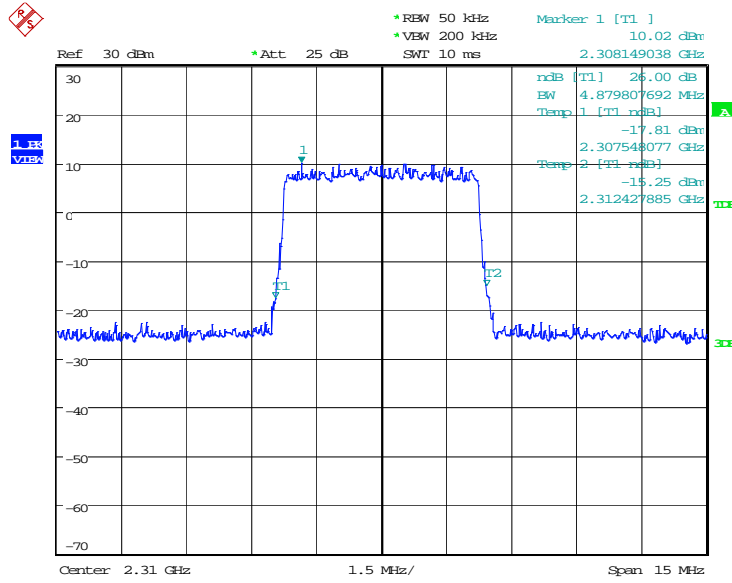
LTE band 30, 5MHz Bandwidth, QPSK (-26dBc BW)



LTE band 30, 5MHz Bandwidth, 16QAM (-26dBc BW)



LTE band 30, 5MHz Bandwidth, 64QAM (-26dBc BW)

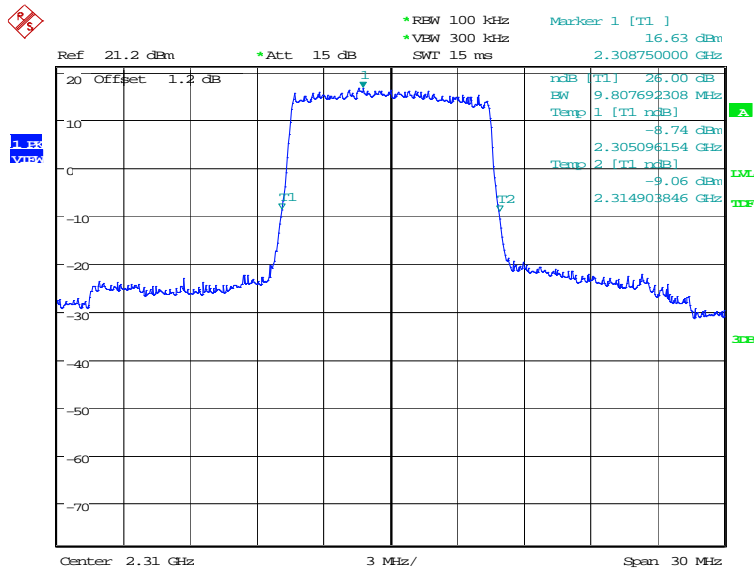


Date: 28.MAR.2020 10:28:38

LTE band 30, 10MHz (-26dBc)

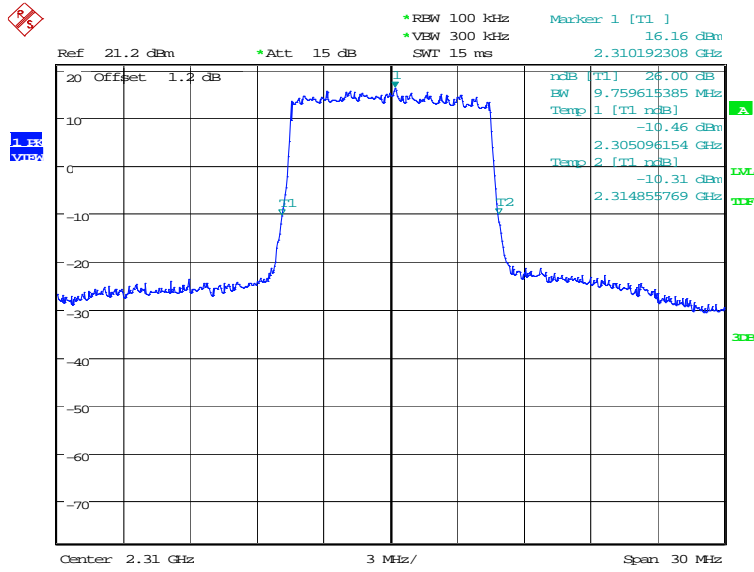
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
	QPSK	16QAM	64QAM
2310.0	9807.69	9759.62	9711.54

LTE band 30, 10MHz Bandwidth, QPSK (-26dBc BW)



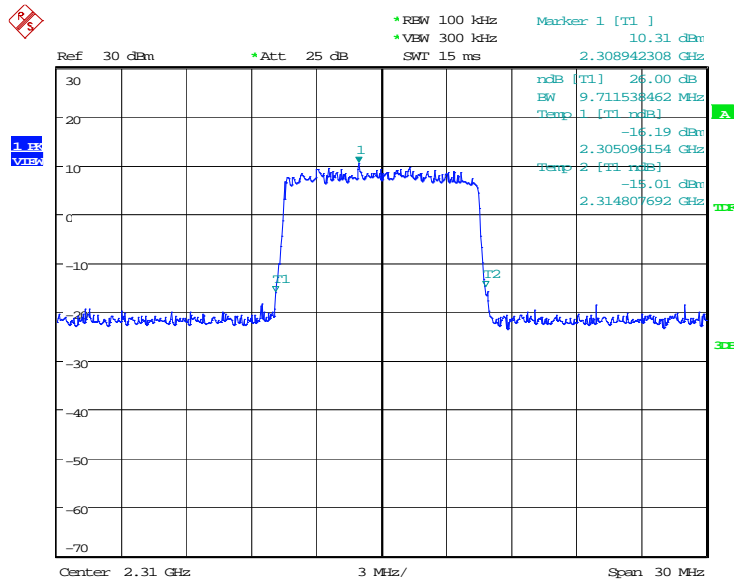
Date: 25.MAR.2020 19:49:01

LTE band 30, 10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 25.MAR.2020 19:50:25

LTE band 30, 10MHz Bandwidth, 64QAM (-26dBc BW)

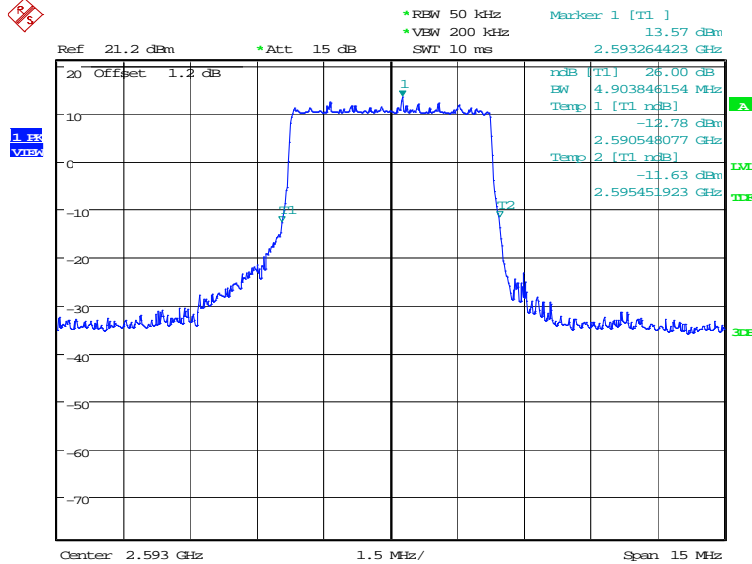


Date: 28.MAR.2020 10:29:53

LTE band 41, 5MHz (-26dBc)

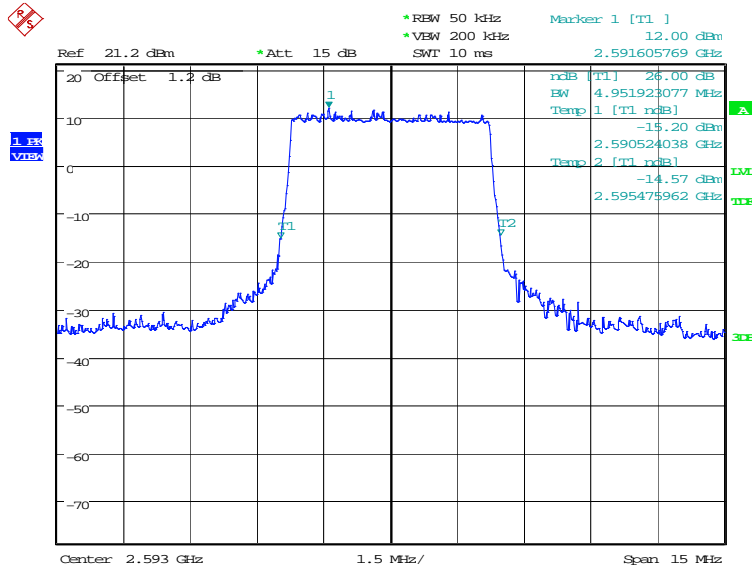
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
	QPSK	16QAM	64QAM
2593.0	4903.85	4951.92	4879.81

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



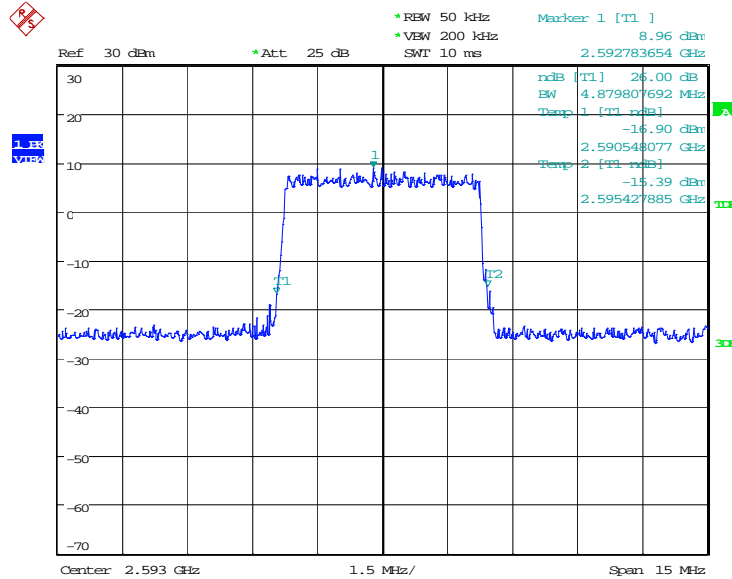
Date: 25.MAR.2020 19:52:30

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



Date: 25.MAR.2020 19:53:55

LTE band 41, 5MHz Bandwidth, 64QAM (-26dBc BW)

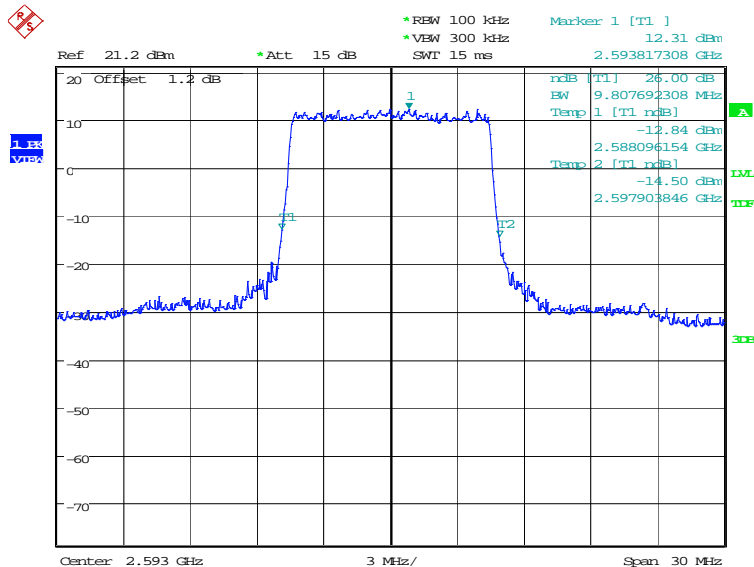


Date: 28.MAR.2020 10:33:19

LTE band 41, 10MHz (-26dBc)

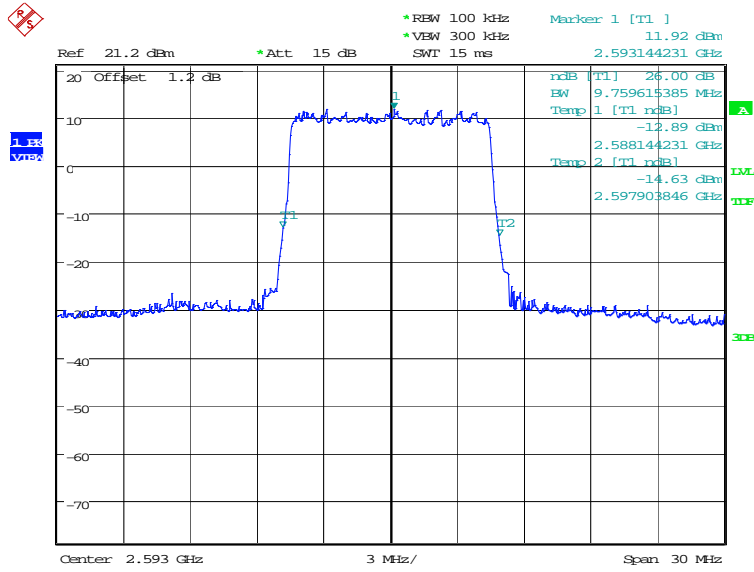
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
	QPSK	16QAM	64QAM
2593.0	9807.69	9759.62	9711.54

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



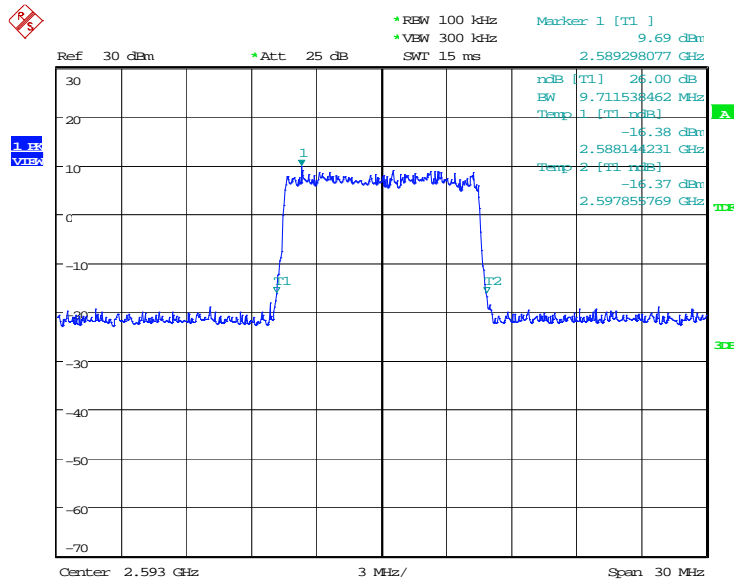
Date: 25.MAR.2020 19:55:21

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



Date: 25.MAR.2020 19:56:46

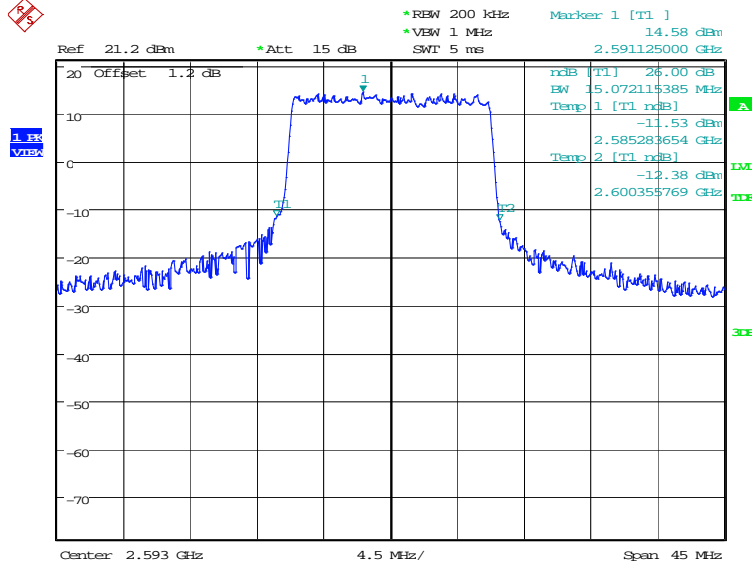
LTE band 41, 10MHz Bandwidth, 64QAM (-26dBc BW)



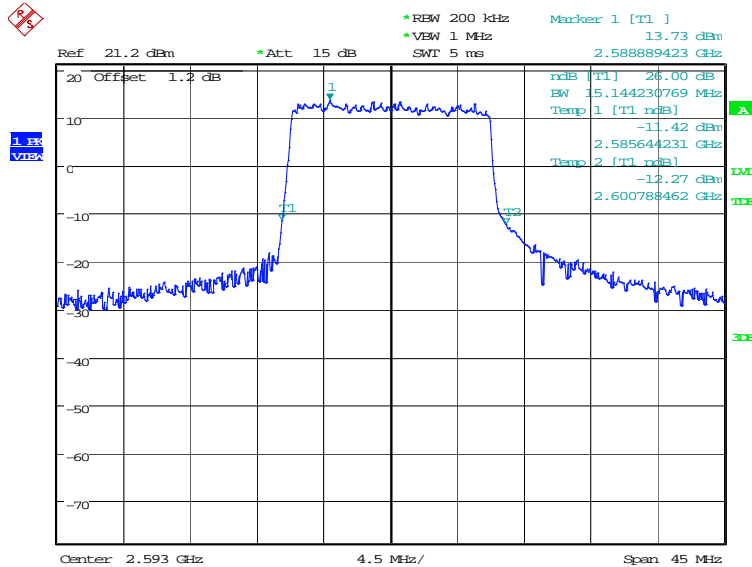
Date: 28.MAR.2020 10:34:47

LTE band 41, 15MHz (-26dBc)

Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
	QPSK	16QAM	64QAM
2593.0	15072.12	15144.23	14639.42

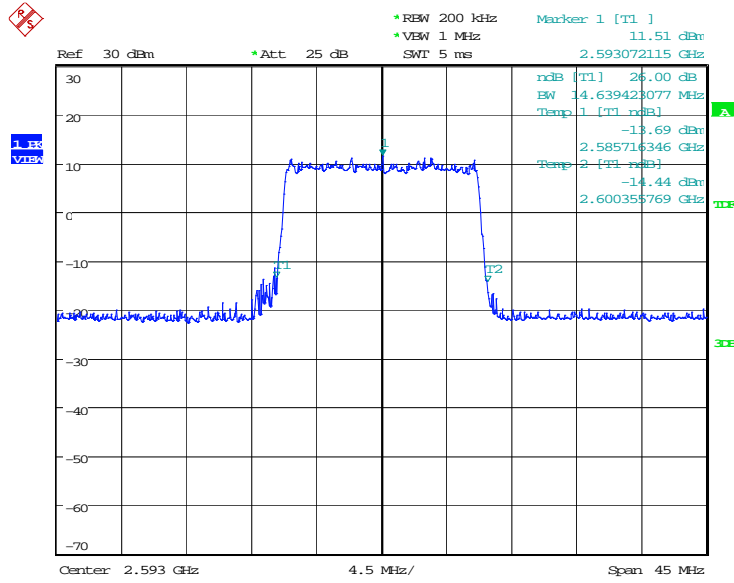
LTE band 41, 15MHz Bandwidth, QPSK (-26dBc BW)


Date: 25.MAR.2020 19:58:12

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


Date: 25.MAR.2020 19:59:37

LTE band 41, 15MHz Bandwidth, 64QAM (-26dBc BW)

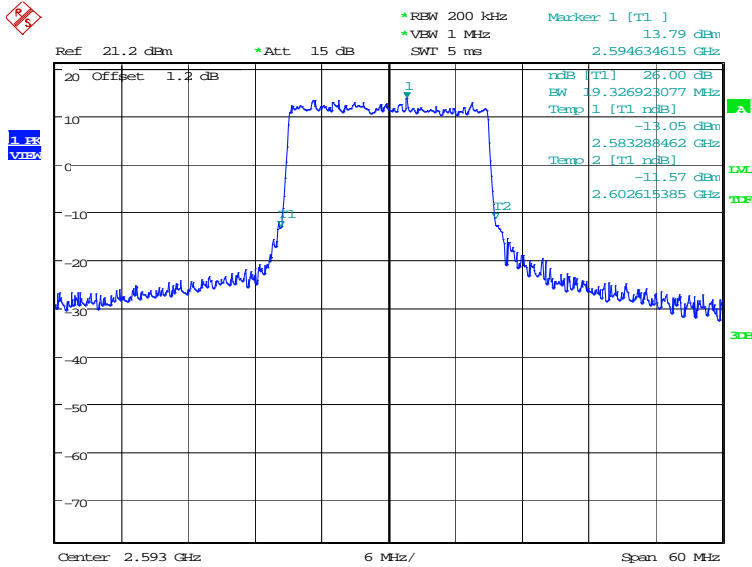


Date: 28.MAR.2020 10:36:07

LTE band 41, 20MHz (-26dBc)

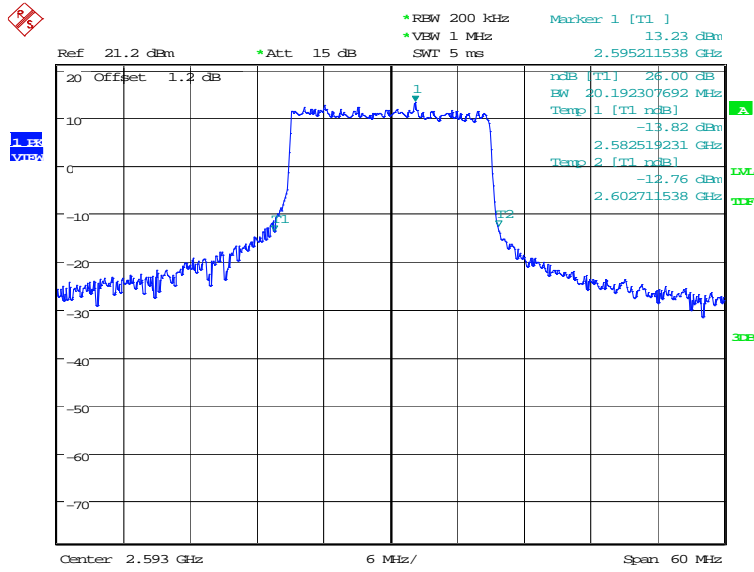
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
	QPSK	16QAM	64QAM
2593.0	19326.92	20192.31	19423.08

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



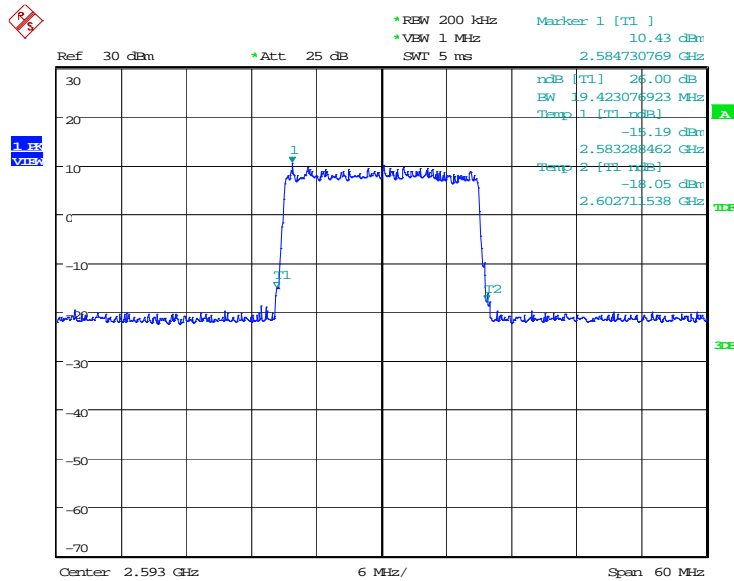
Date: 25.MAR.2020 20:01:03

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



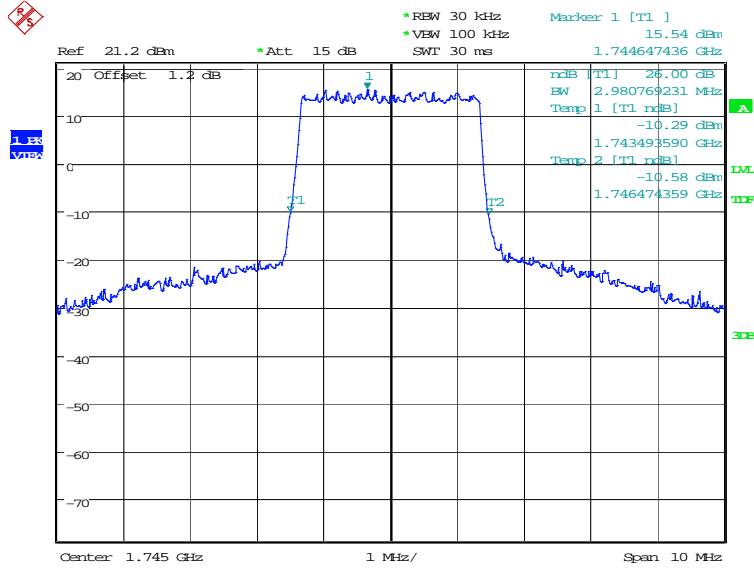
Date: 25.MAR.2020 20:02:28

LTE band 41, 20MHz Bandwidth, 64QAM (-26dBc BW)



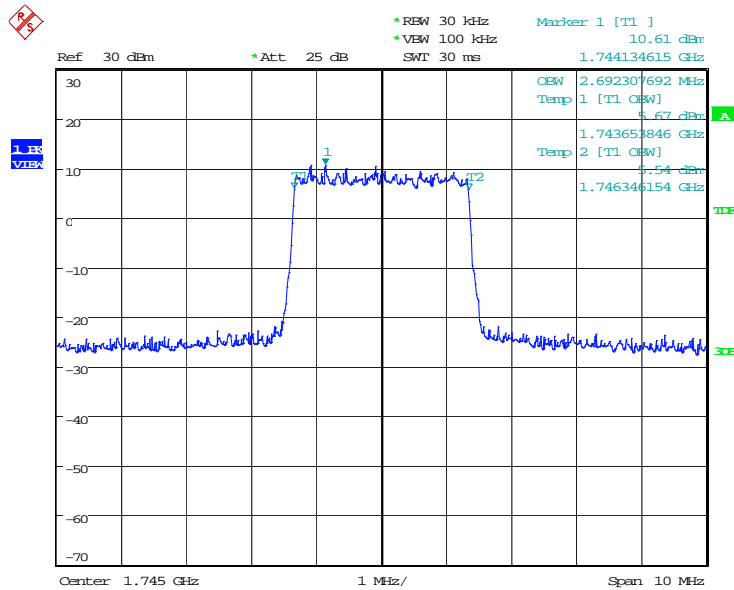
Date: 28.MAR.2020 10:37:31

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



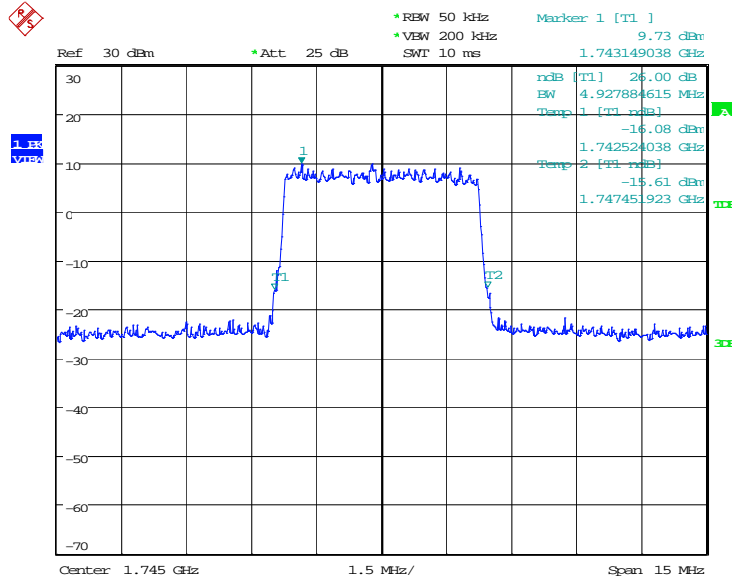
Date: 26.MAR.2020 12:32:50

LTE band 66, 3MHz Bandwidth, 64QAM (-26dBc BW)



Date: 10.APR.2020 16:22:33

LTE band 66, 5MHz Bandwidth, 64QAM (-26dBc BW)

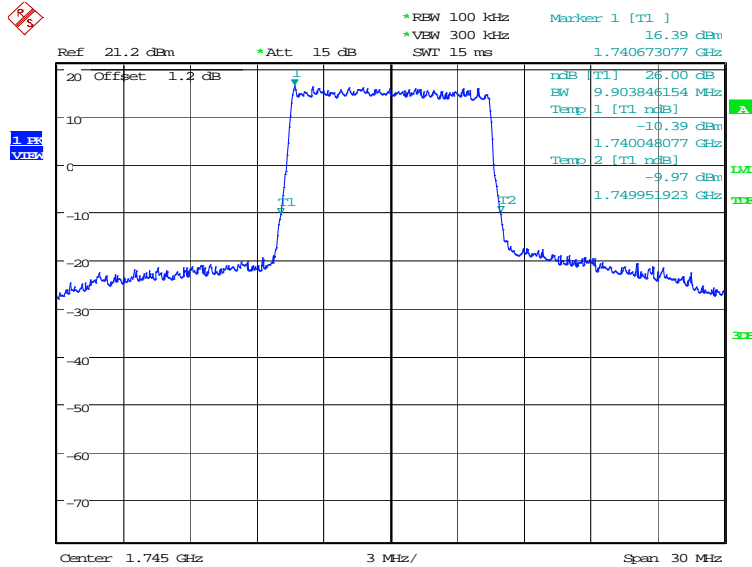


Date: 28.MAR.2020 09:37:44

LTE band 66, 10MHz (-26dBc)

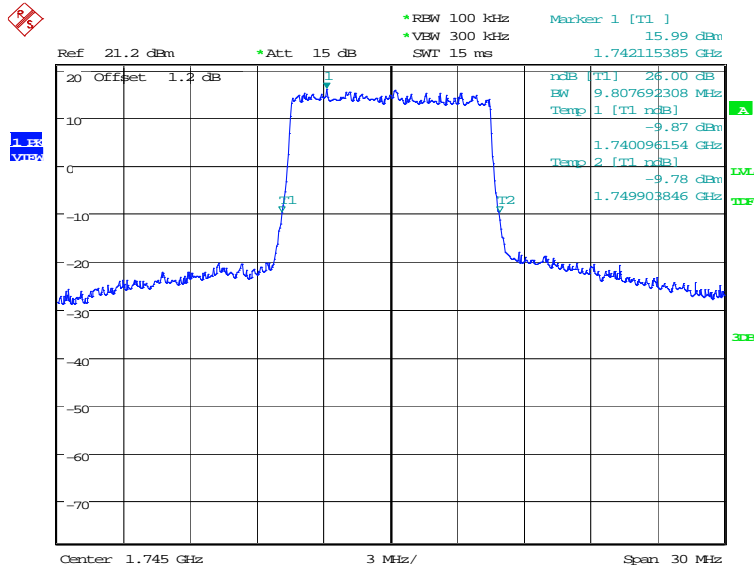
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
	QPSK	16QAM	64QAM
1745.0	9903.85	9807.69	9855.77

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

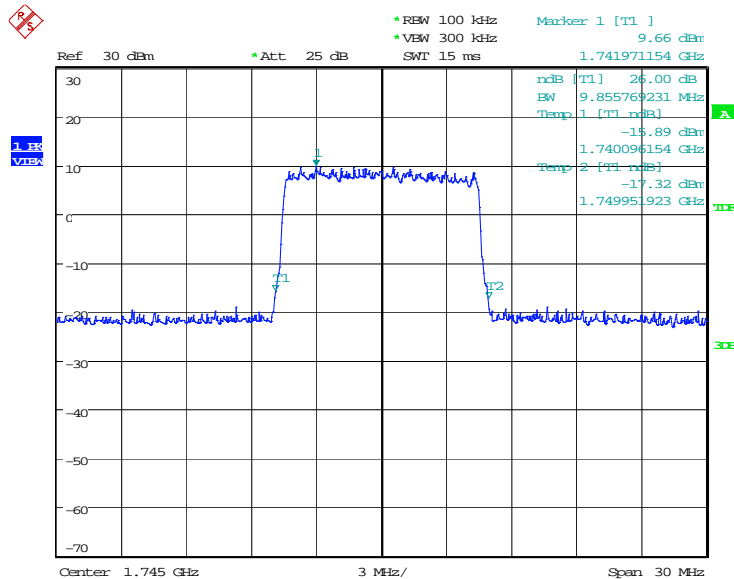


Date: 26.MAR.2020 12:37:07

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



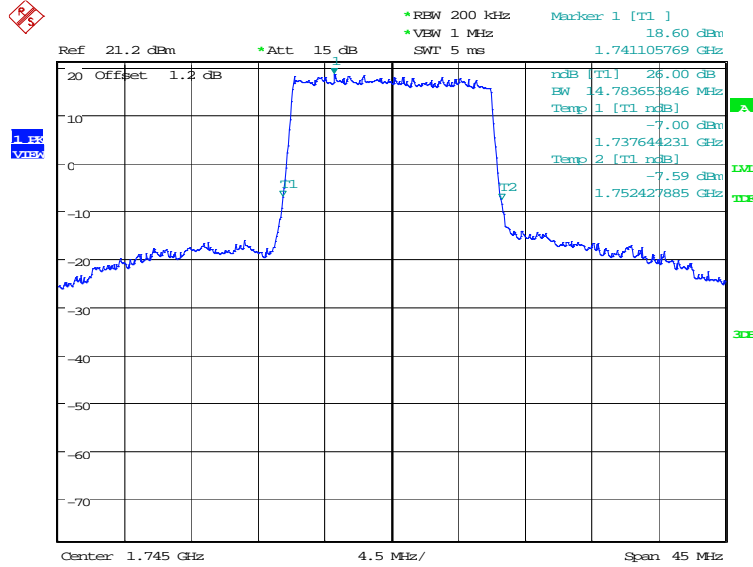
LTE band 66, 10MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 66, 15MHz (-26dBc)

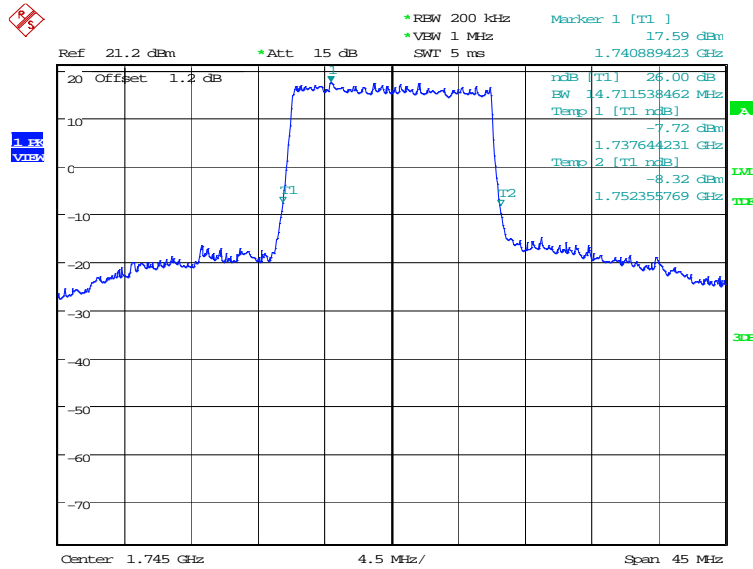
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
	QPSK	16QAM	64QAM
1745.0	14783.65	14711.54	14639.4

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



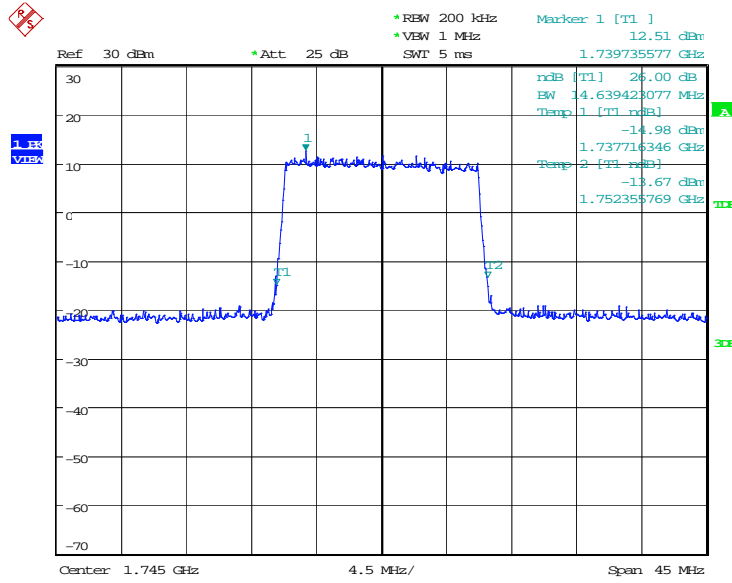
Date: 26.MAR.2020 12:39:58

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



Date: 26.MAR.2020 12:41:23

LTE band 66, 15MHz Bandwidth, 64QAM (-26dBc BW)

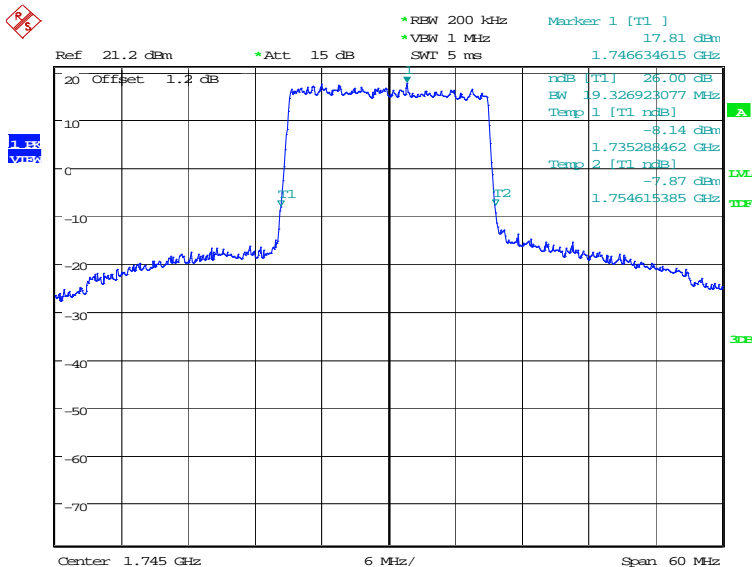


Date: 28.MAR.2020 09:40:16

LTE band 66, 20MHz (-26dBc)

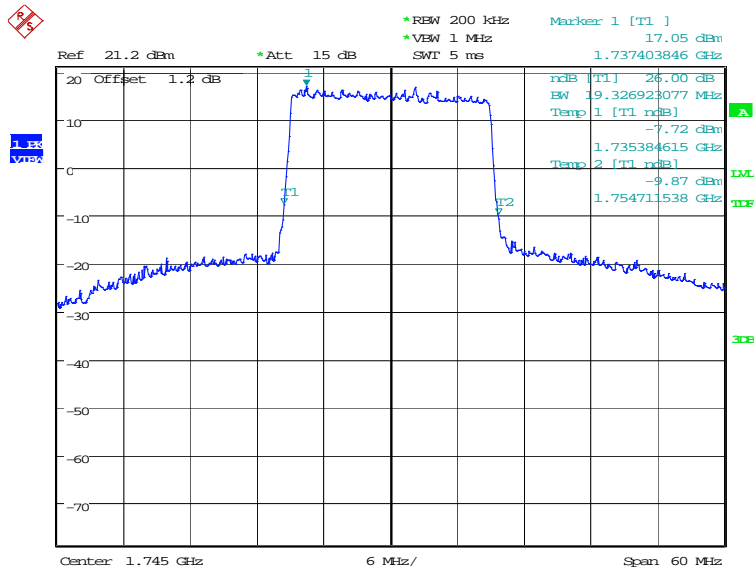
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
	QPSK	16QAM	64QAM
1745.0	19326.92	19326.92	19423.1

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



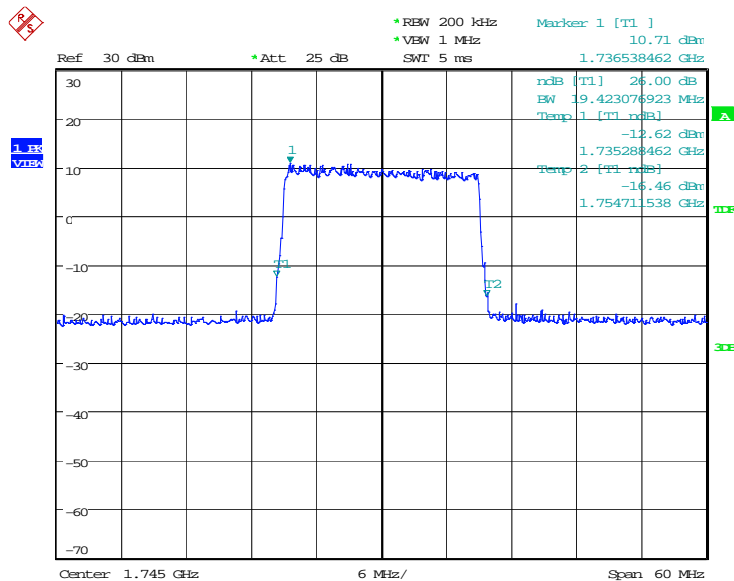
Date: 26.MAR.2020 12:42:50

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



Date: 26.MAR.2020 12:44:14

LTE band 66, 20MHz Bandwidth, 64QAM (-26dBc BW)



Date: 28.MAR.2020 09:42:00

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.

According to KDB 971168, a relaxation of the reference bandwidth is often provided for measurements within a specified frequency range at the edge of the authorized frequency block/band. This is often implemented by permitting the use of a narrower RBW (typically limited to a minimum RBW of 1% of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Part 27.53(m)(4) 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(a) states for mobile and portable stations operating in the 2305–2315 MHz and 2350–2360 MHz bands: By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337MHz; By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log(P)$ dB below 2288 MHz; By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log(P)$ dB above 2365 MHz.

Part 90.543 states that For operations in the 758–768 MHz and the 788–798 MHz bands, the



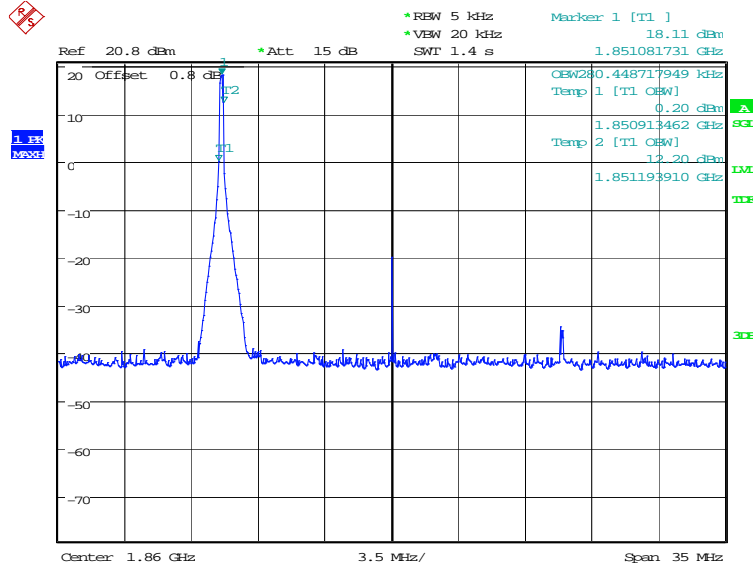
power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following: (1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations. (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations. (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB. (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment. (5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

A.6.2 Measurement result

Only the worst case result is given below

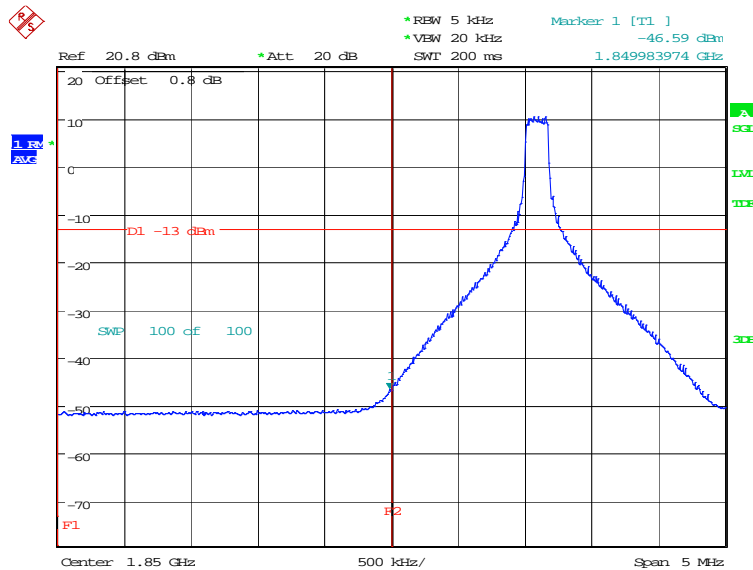
LTE band 2

OBW: 1RB-low_offset



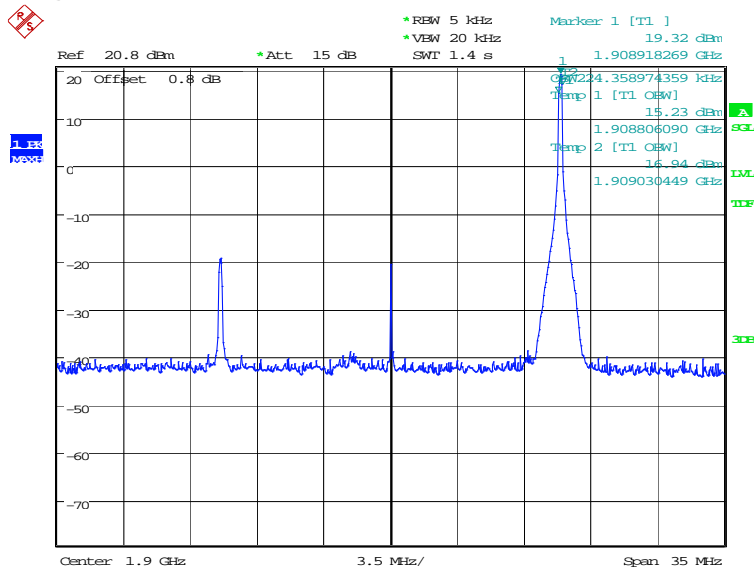
Date: 8.APR.2020 10:51:26

LOW BAND EDGE BLOCK-1RB-low_offset



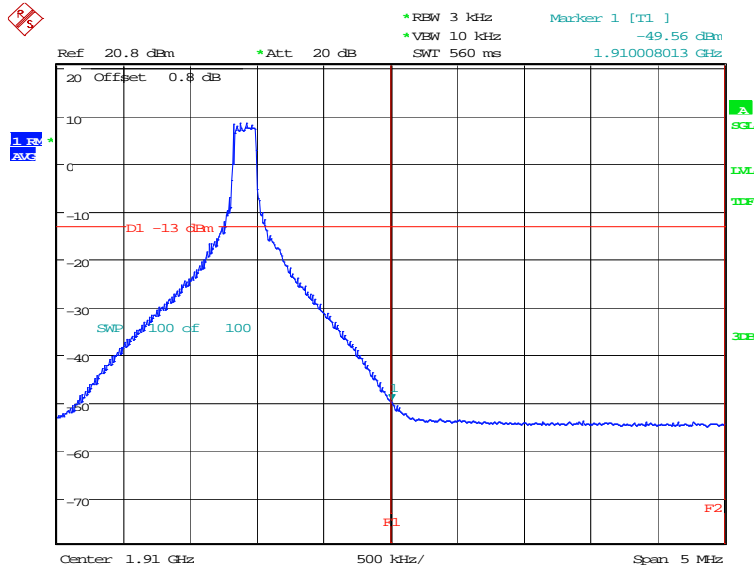
Date: 8.APR.2020 10:53:04

OBW: 1RB-high_offset



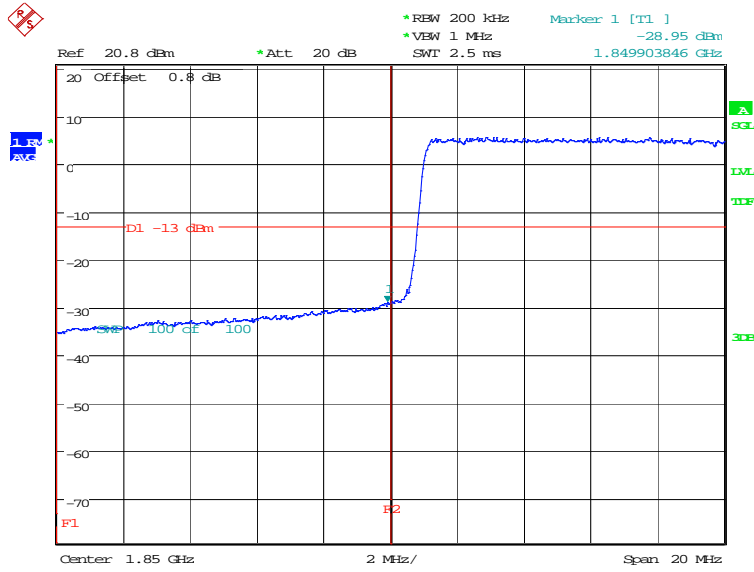
Date: 8.APR.2020 10:56:16

HIGH BAND EDGE BLOCK-1RB-high_offset



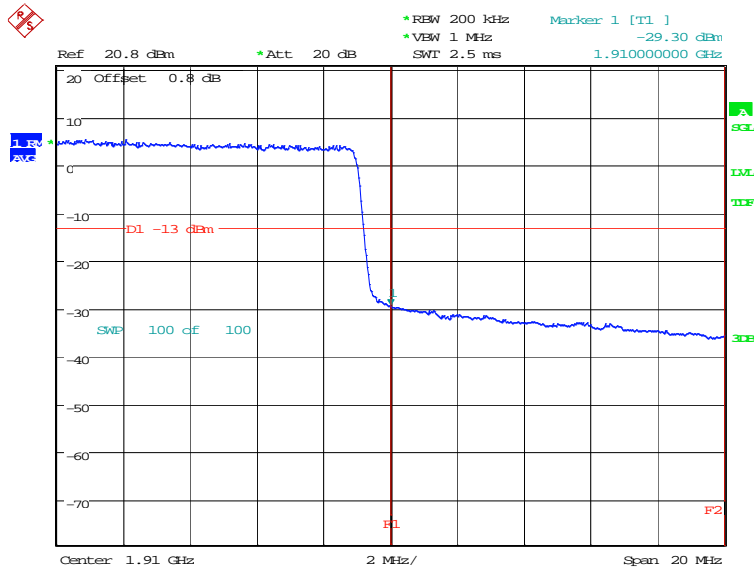
Date: 8.APR.2020 10:57:55

LOW BAND EDGE BLOCK-20MHz-100%RB



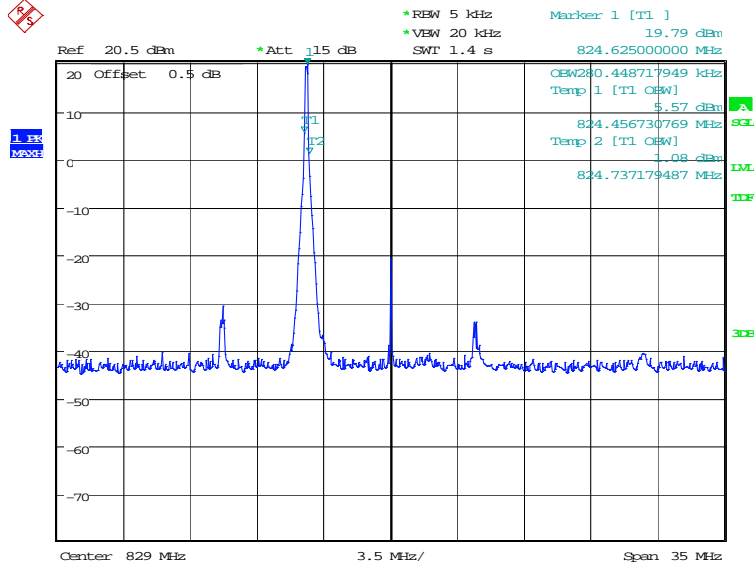
Date: 8.APR.2020 10:54:57

HIGH BAND EDGE BLOCK-20MHz-100%RB



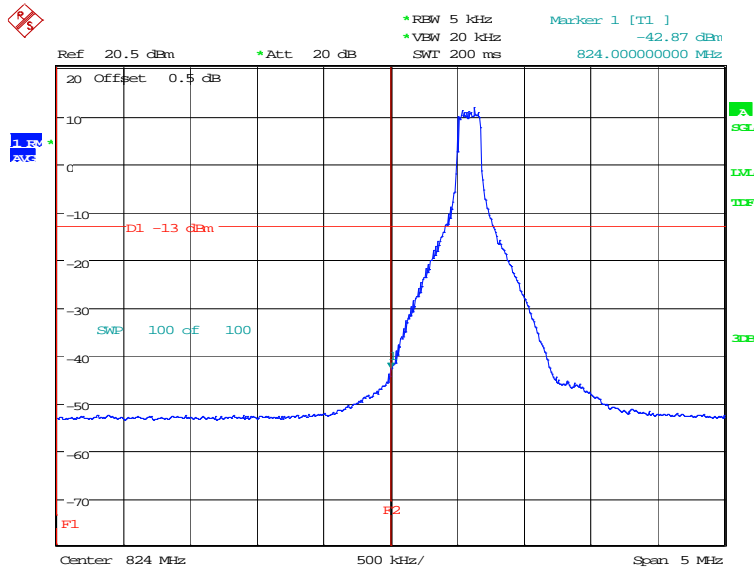
Date: 8.APR.2020 10:59:47

LTE band 5
OBW: 1RB-low_offset



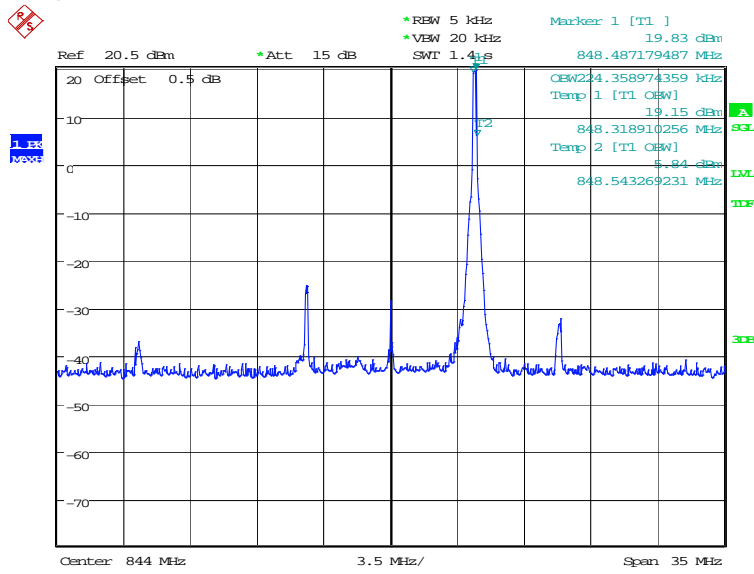
Date: 8.APR.2020 11:59:38

LOW BAND EDGE BLOCK-1RB-low_offset



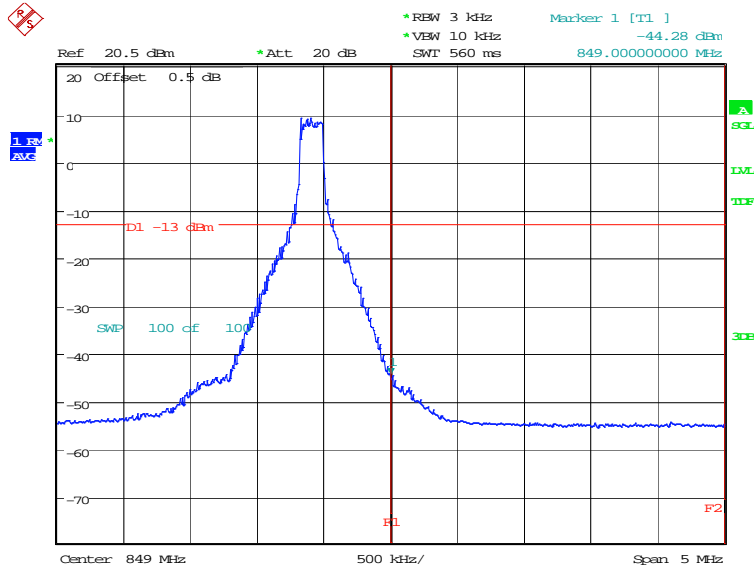
Date: 8.APR.2020 12:01:16

OBW: 1RB-high_offset



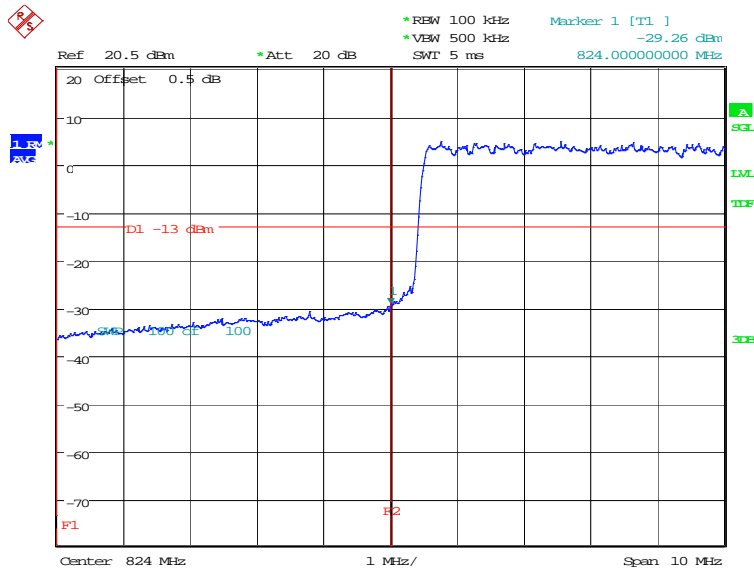
Date: 8.APR.2020 12:04:28

HIGH BAND EDGE BLOCK-1RB-high_offset



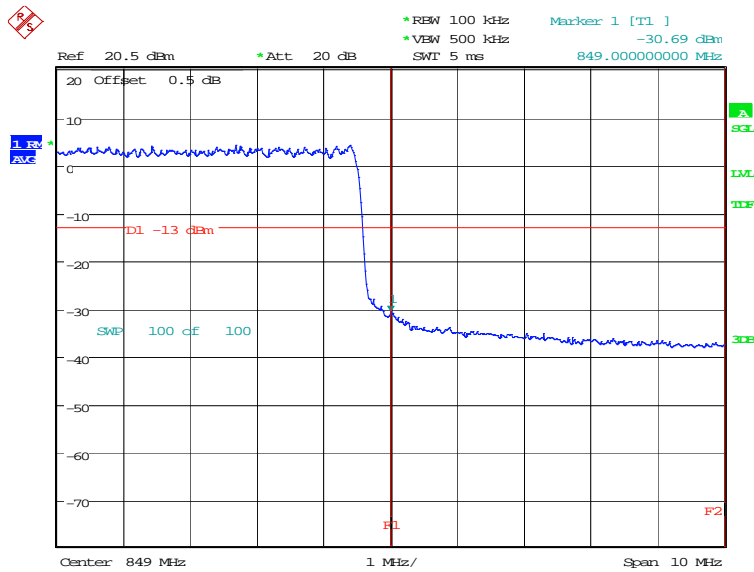
Date: 8.APR.2020 12:06:07

LOW BAND EDGE BLOCK-10MHz-100%RB



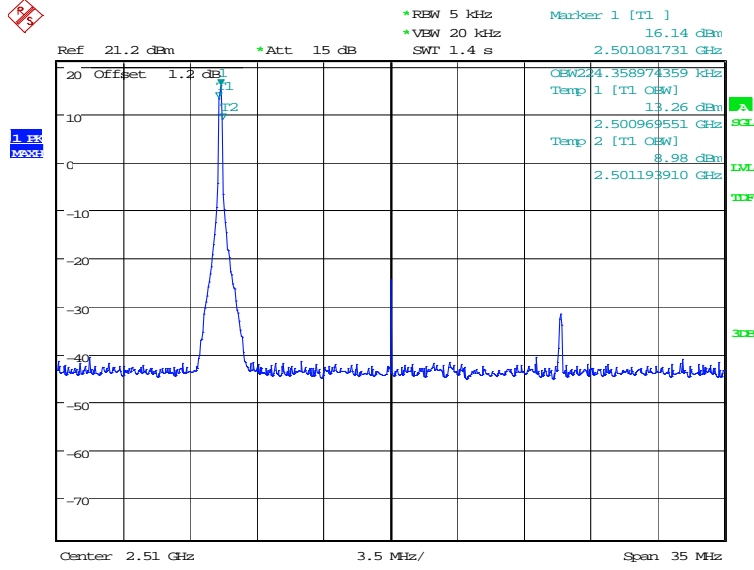
Date: 8.APR.2020 12:03:09

HIGH BAND EDGE BLOCK-10MHz-100%RB



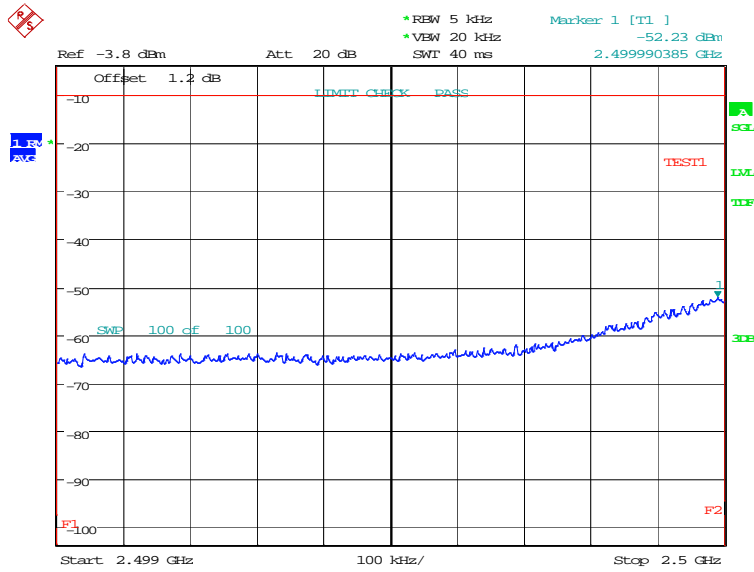
Date: 8.APR.2020 12:07:59

LTE band 7
OBW: 1RB-low_offset

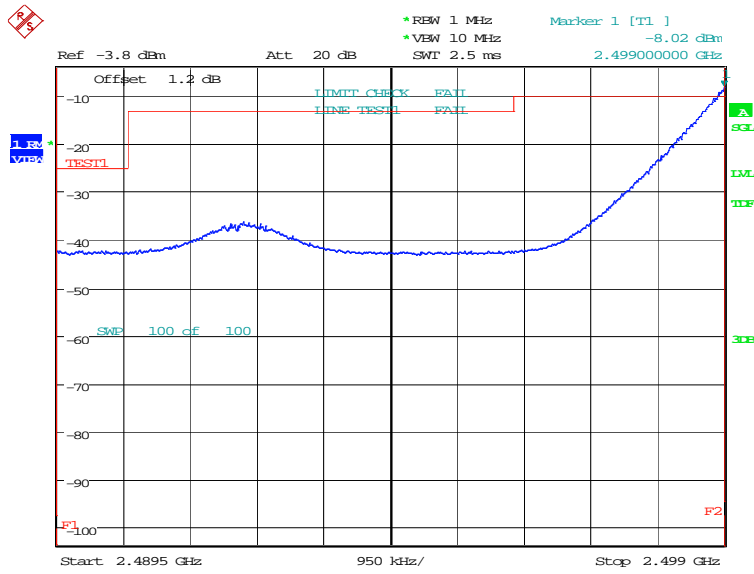


Date: 8.APR.2020 12:09:22

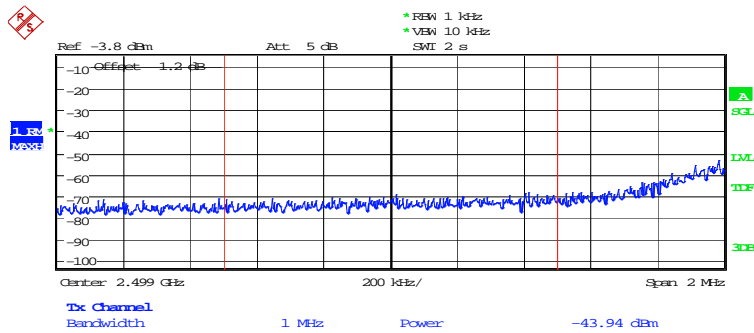
LOW BAND EDGE BLOCK-1RB-low_offset



Date: 8.APR.2020 12:11:08

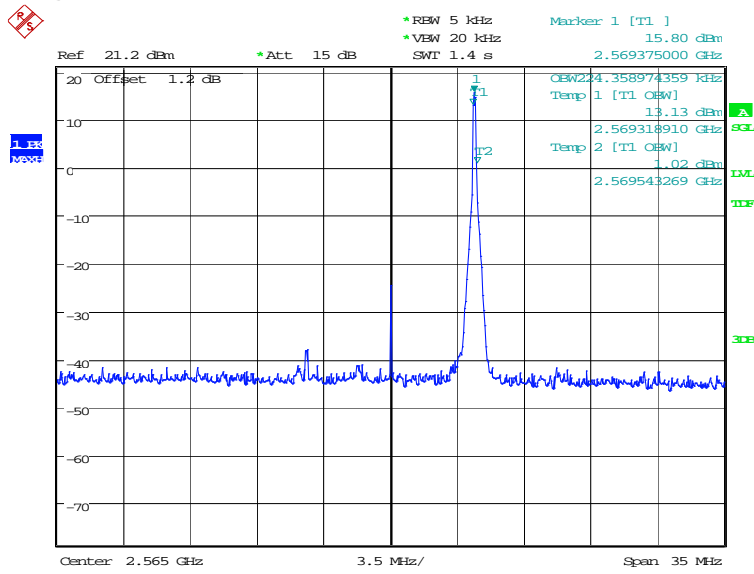


Date: 8.APR.2020 12:12:50



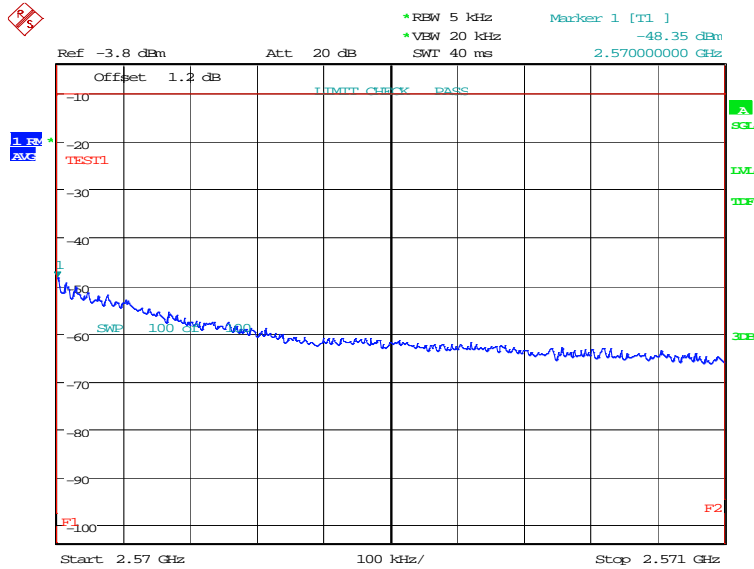
Date: 8.APR.2020 12:13:02

OBW: 1RB-high_offset

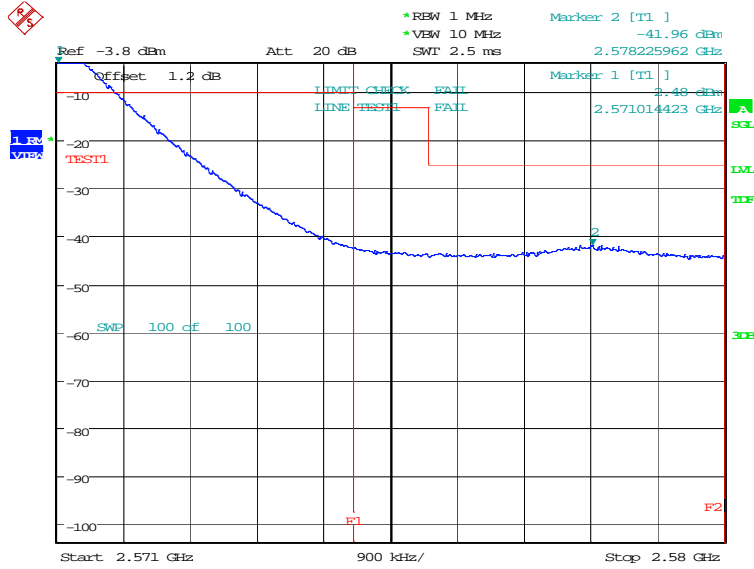


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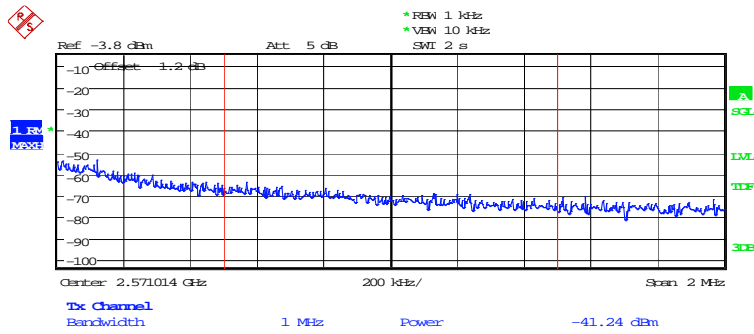
HIGH BAND EDGE BLOCK-1RB-high_offset



Date: 8.APR.2020 12:20:25

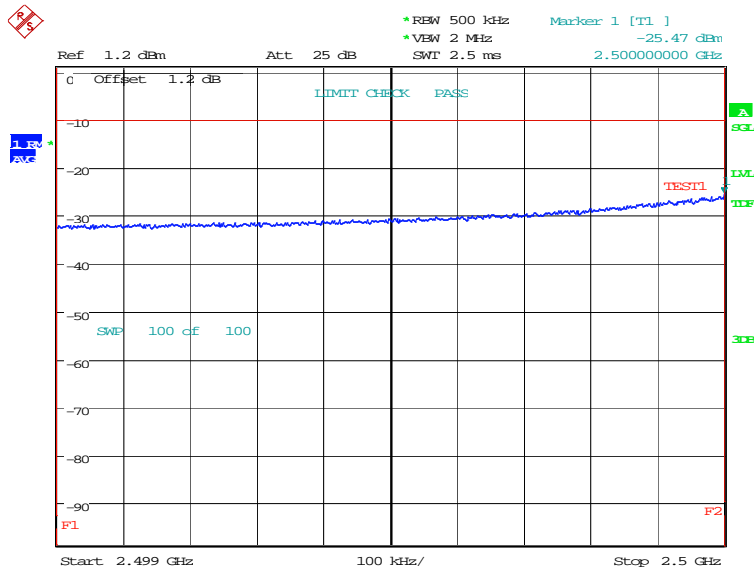


Date: 8.APR.2020 12:22:10

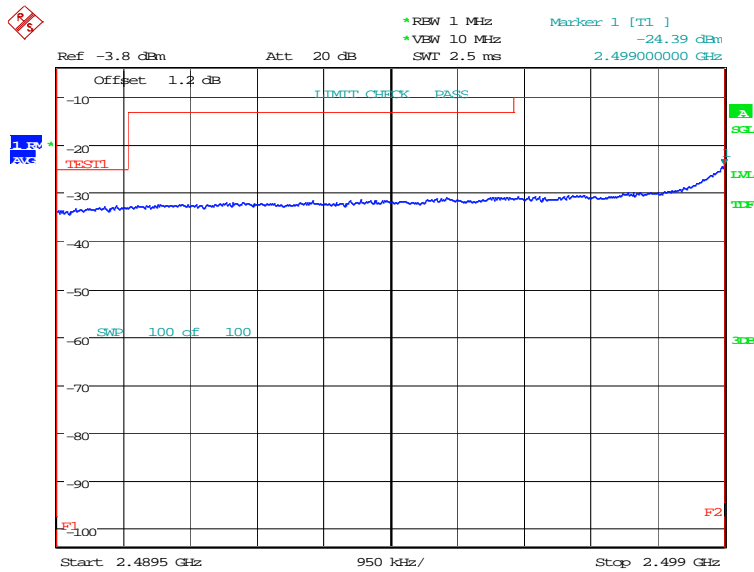


Date: 8.APR.2020 12:22:22

LOW BAND EDGE BLOCK-20MHz-100%RB

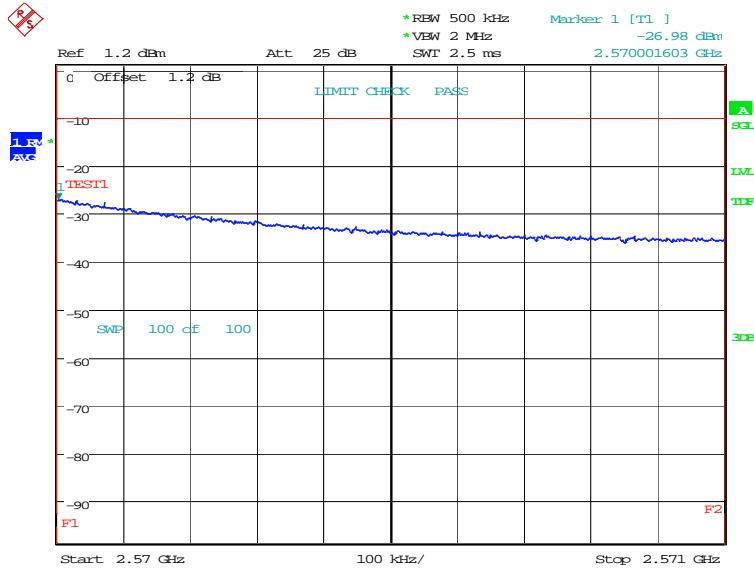


Date: 8.APR.2020 12:14:58

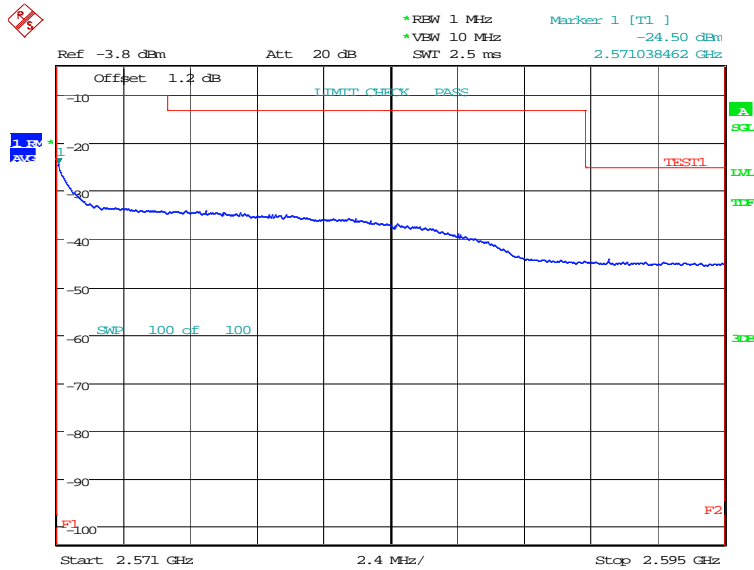


Date: 8.APR.2020 12:16:38

HIGH BAND EDGE BLOCK-20MHz-100%RB

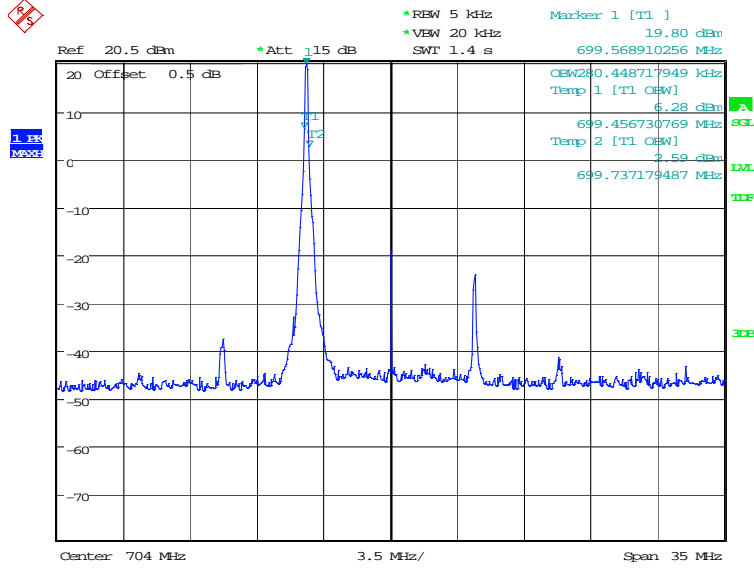


Date: 8.APR.2020 12:24:20



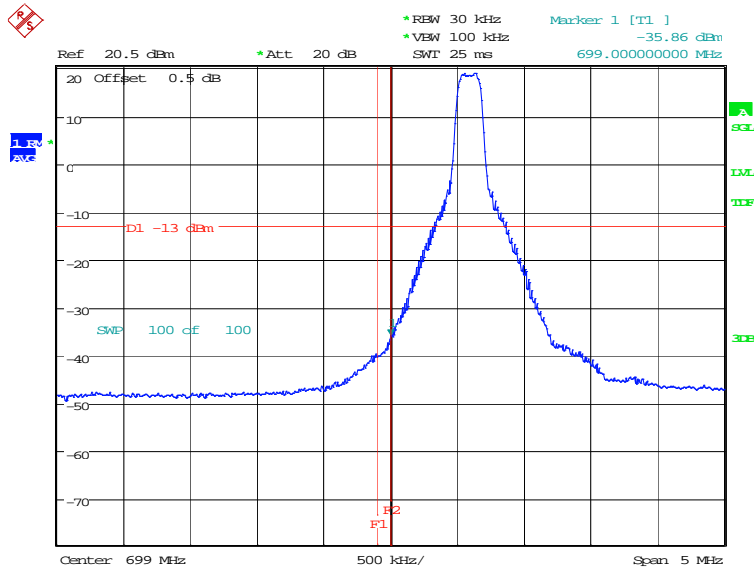
Date: 8.APR.2020 12:26:00

LTE band 12
OBW: 1RB-low_offset



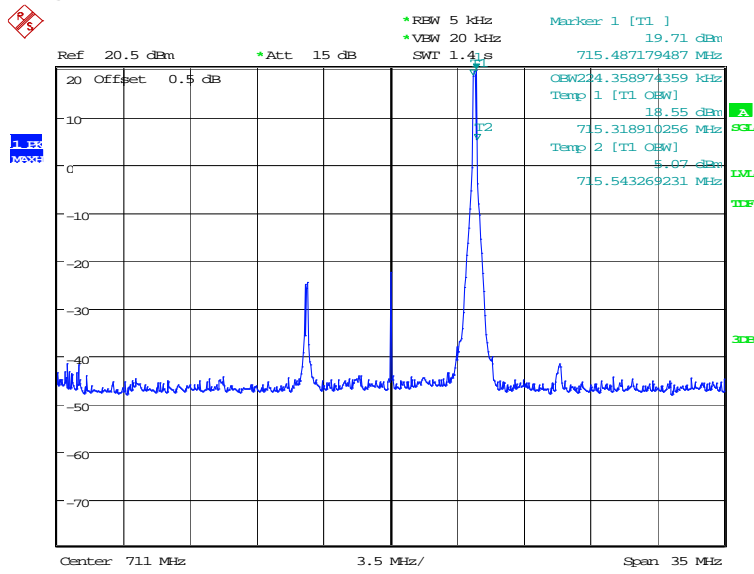
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LOW BAND EDGE BLOCK-1RB-low_offset



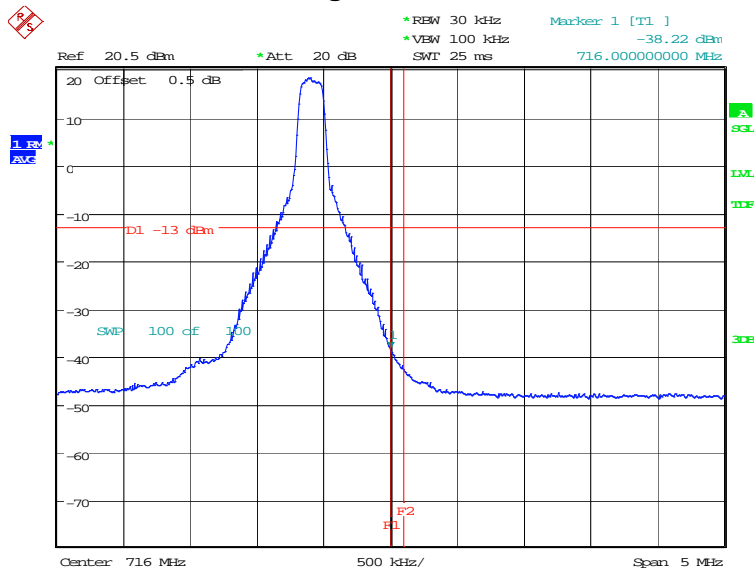
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OBW: 1RB-high_offset



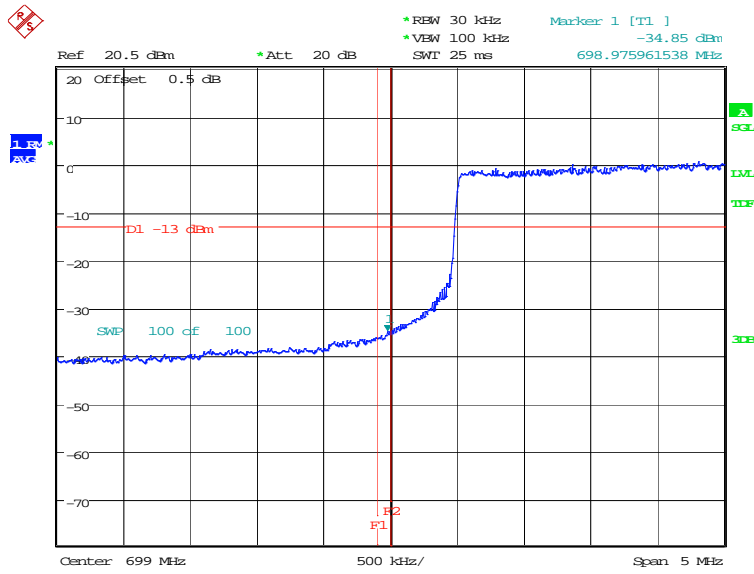
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HIGH BAND EDGE BLOCK-1RB-high_offset



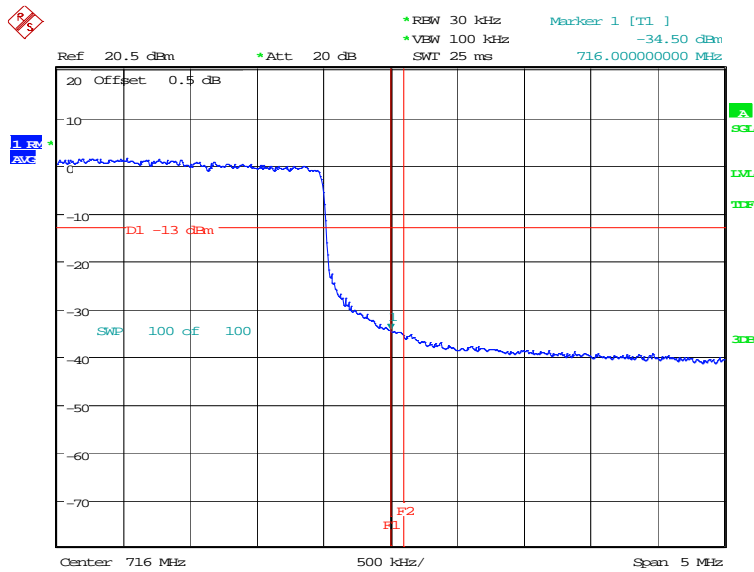
Date: 8.APR.2020 12:35:16

LOW BAND EDGE BLOCK-10MHz-100%RB



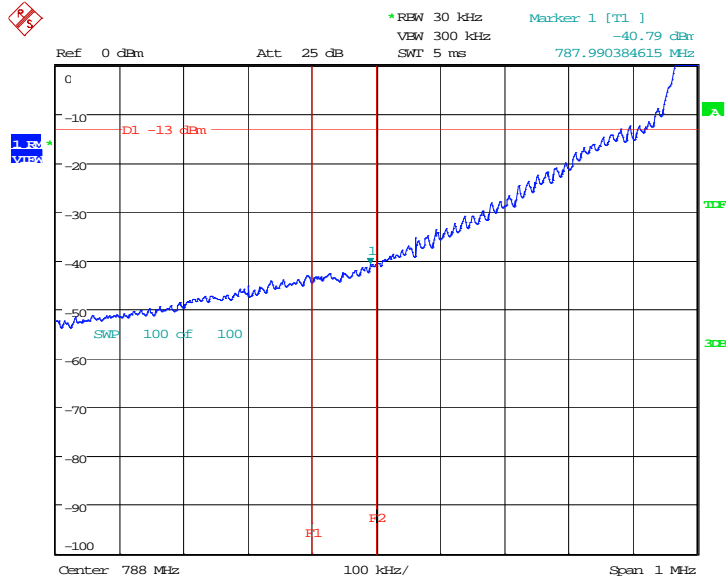
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HIGH BAND EDGE BLOCK-10MHz-100%RB



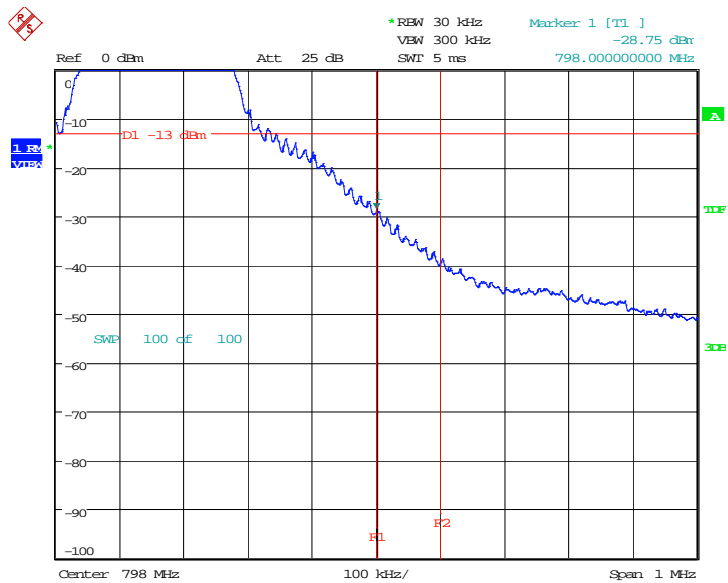
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LTE band 14
LOW BAND EDGE BLOCK-1RB-low_offset



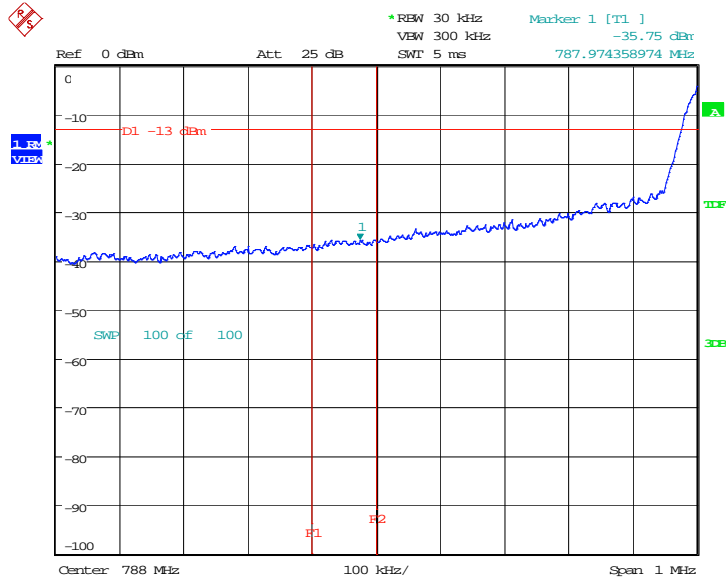
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HIGH BAND EDGE BLOCK-1RB-high_offset



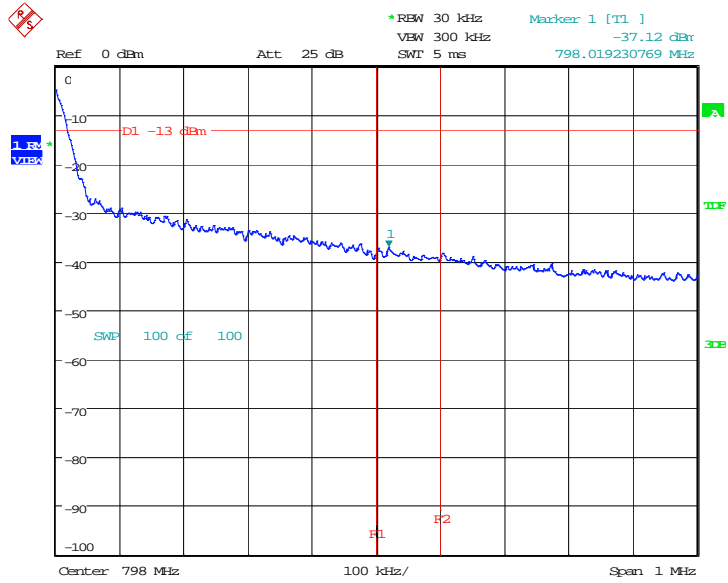
Date: 8.APR.2020 15:10:14

LOW Emission Mask -10MHz-100%RB



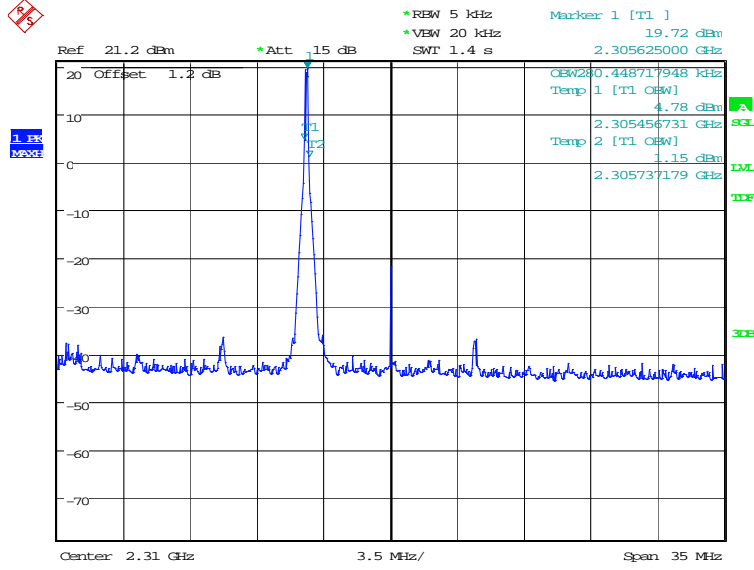
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HIGH Emission Mask -10MHz-100%RB



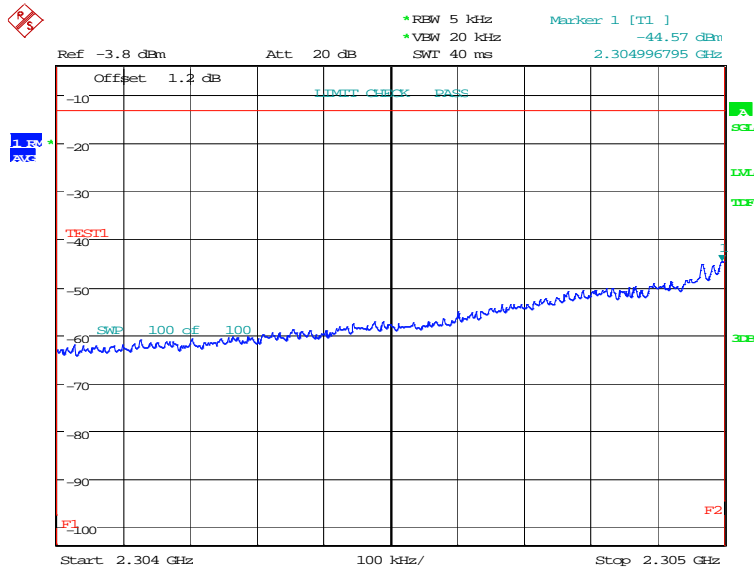
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LTE band 30
OBW: 1RB-low_offset

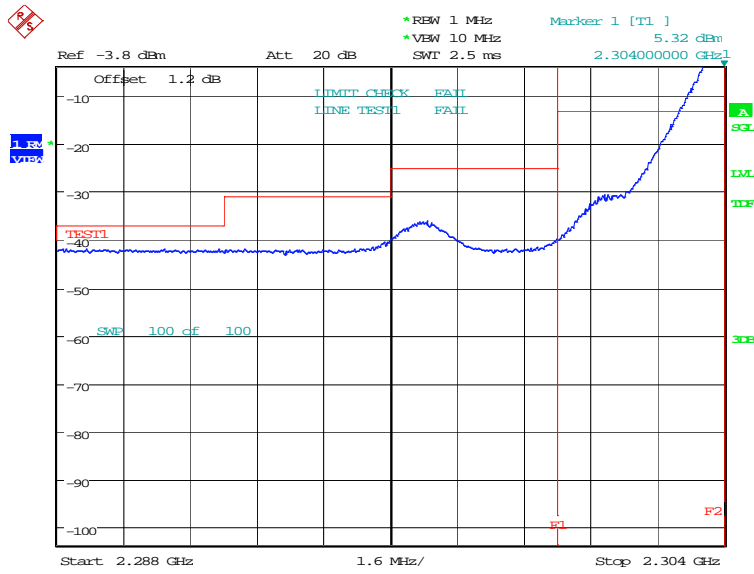


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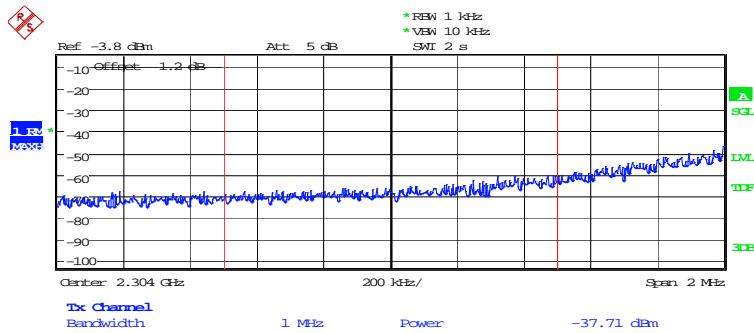
LOW BAND EDGE BLOCK-1RB-low_offset



Date: 8.APR.2020 12:50:33

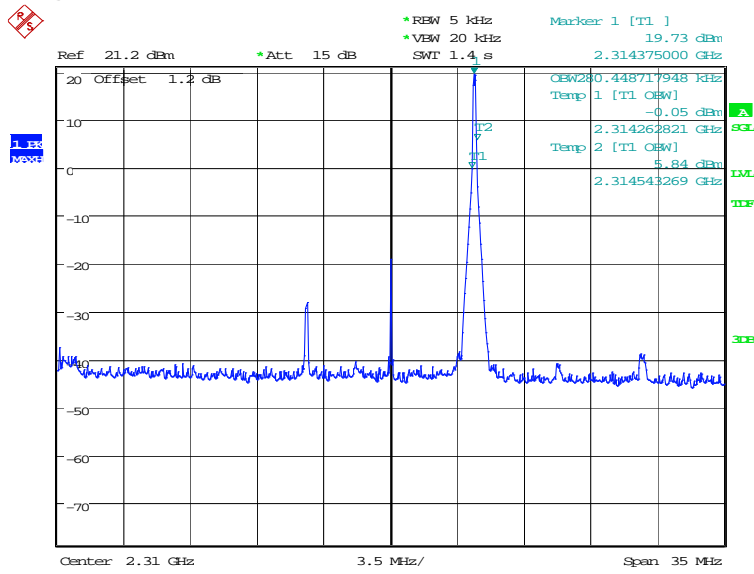


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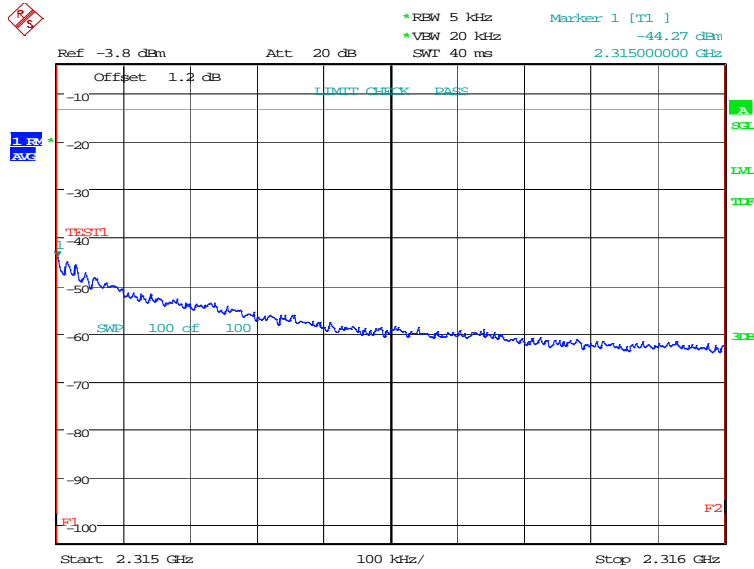
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OBW: 1RB-high_offset

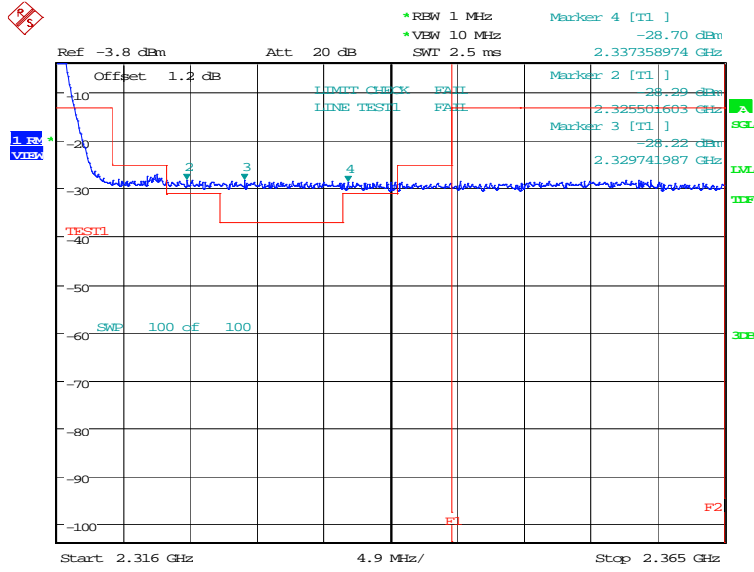


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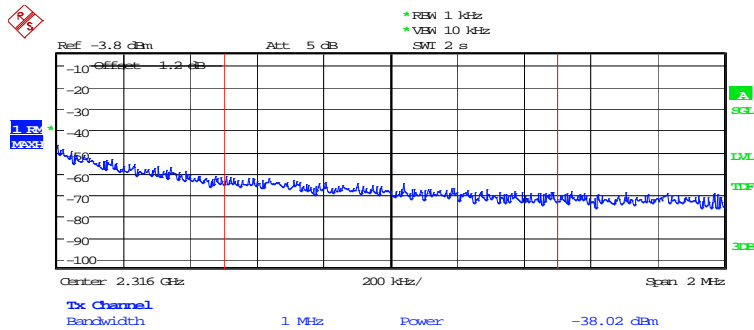
HIGH BAND EDGE BLOCK-1RB-high_offset



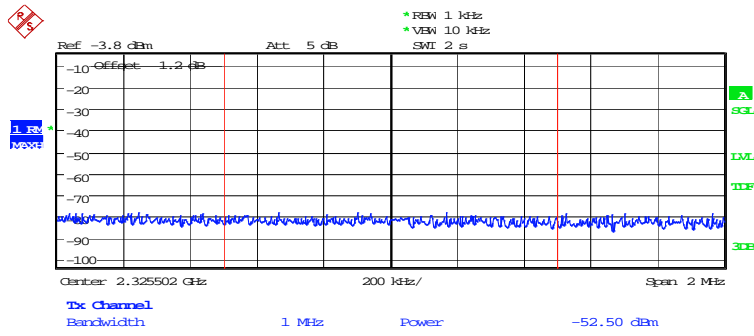
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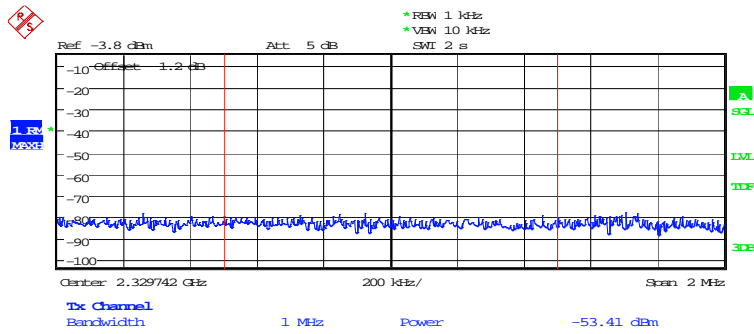
Date: 8.APR.2020 13:01:38



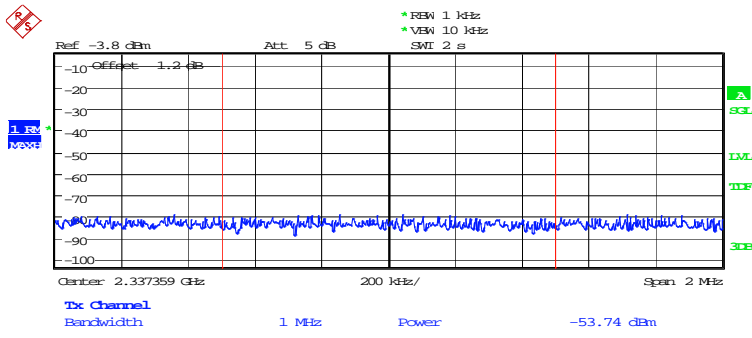
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Date: 8.APR.2020 13:01:58

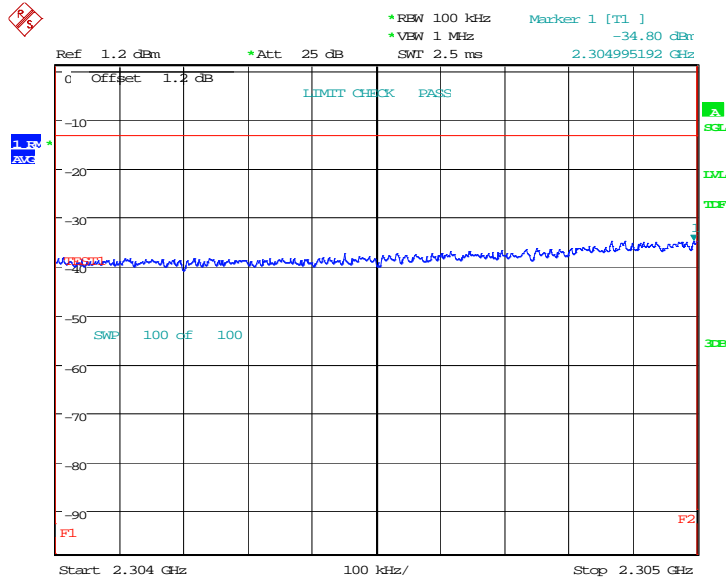


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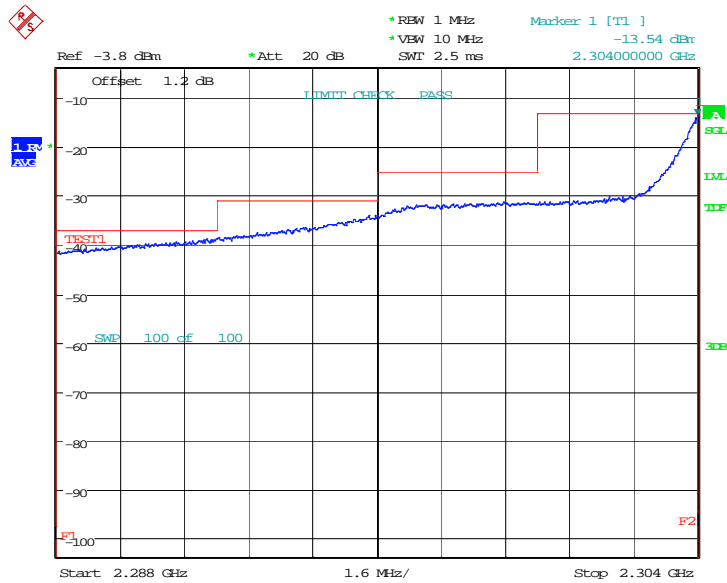


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LOW BAND EDGE BLOCK-10MHz-100%RB

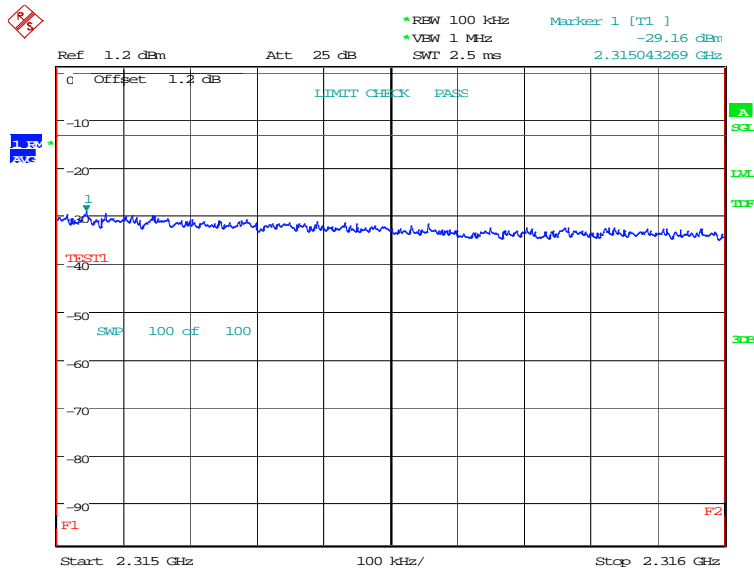


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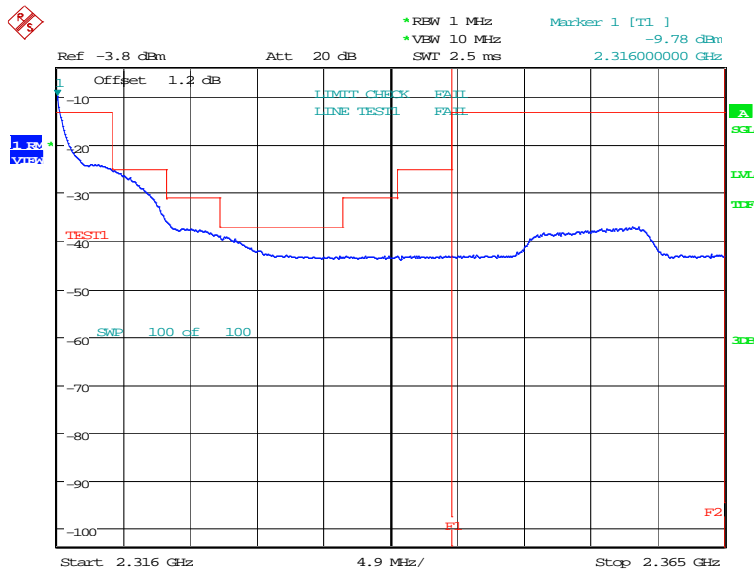


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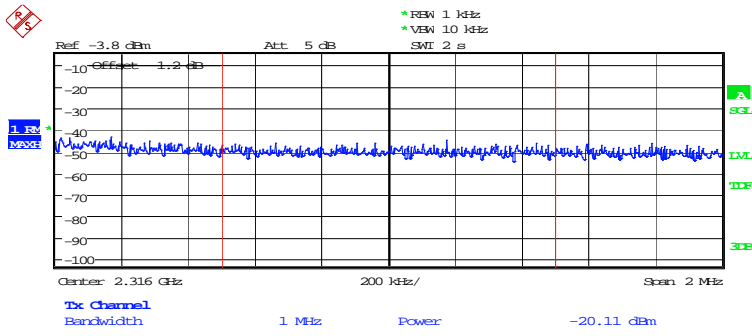
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 8.APR.2020 13:04:11

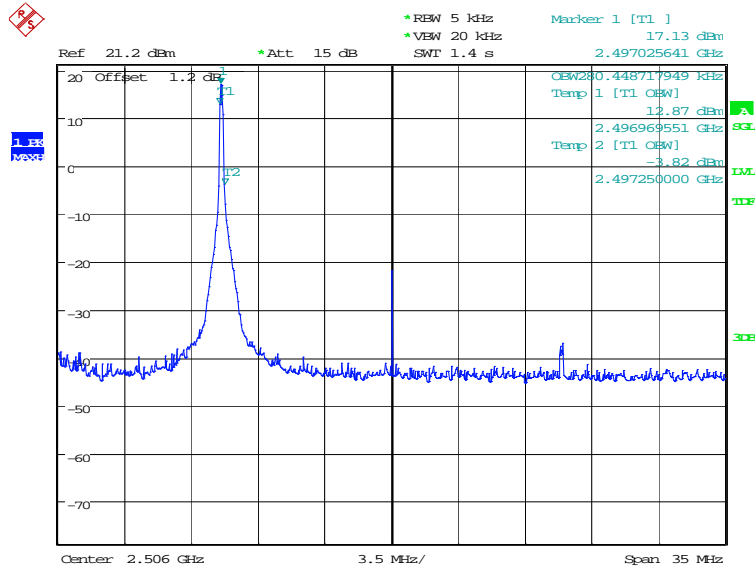


Date: 8.APR.2020 13:06:08



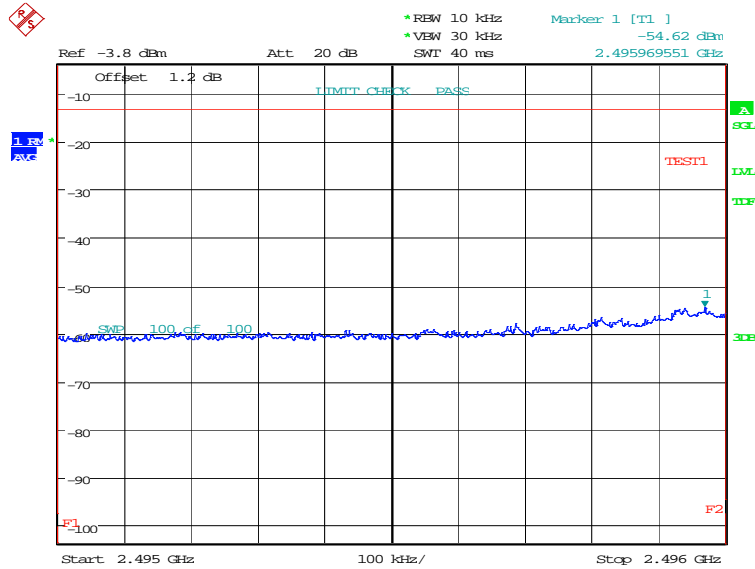
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LTE band 41
OBW: 1RB-low_offset

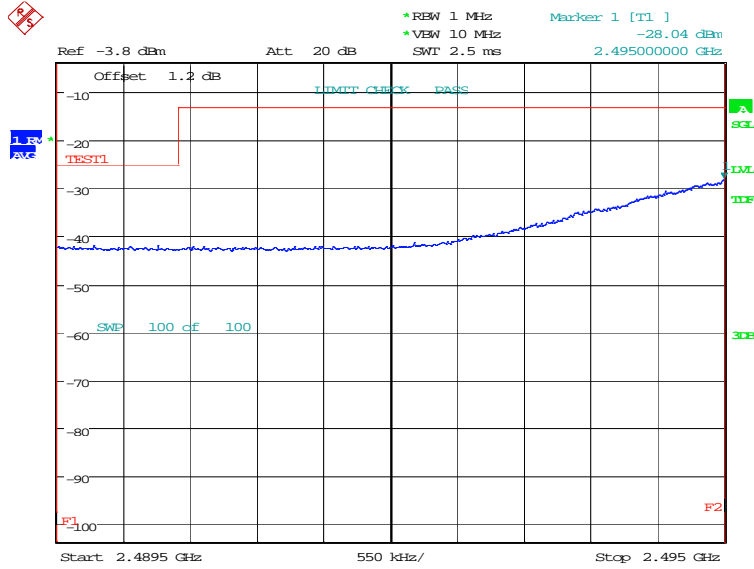


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LOW BAND EDGE BLOCK-1RB-low_offset

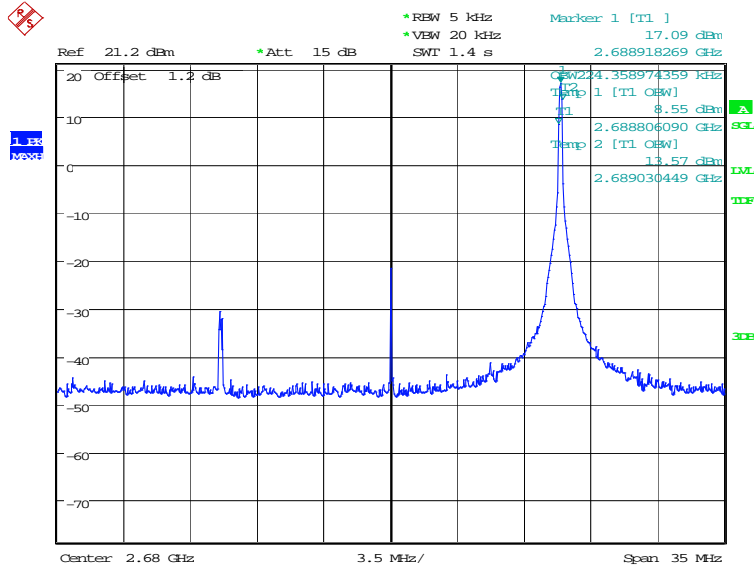


Date: 8.APR.2020 13:10:04



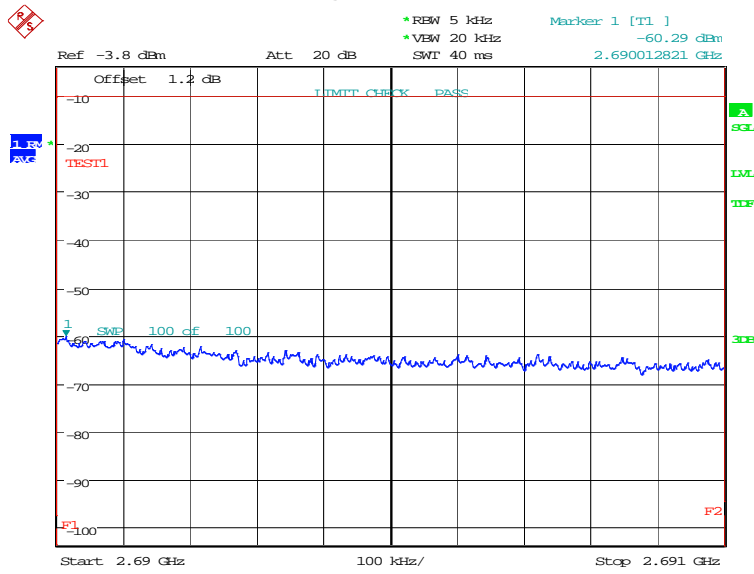
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OBW: 1RB-high_offset

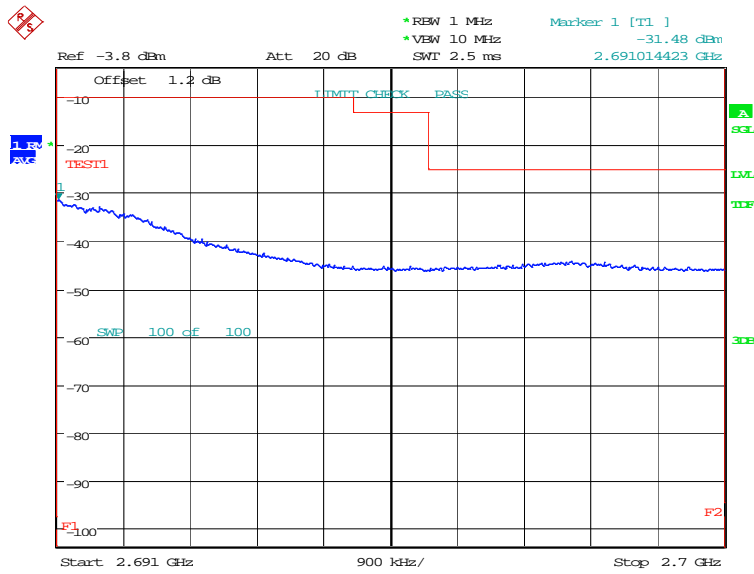


Date: 8.APR.2020 13:19:58

HIGH BAND EDGE BLOCK-1RB-high_offset

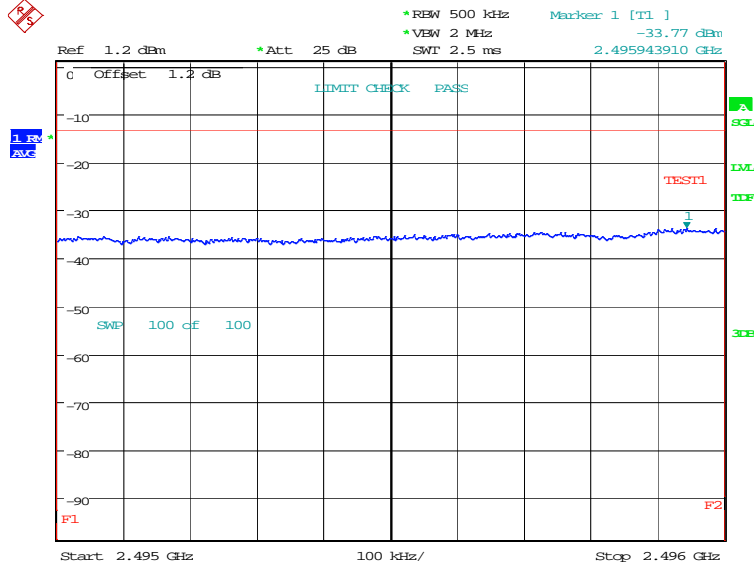


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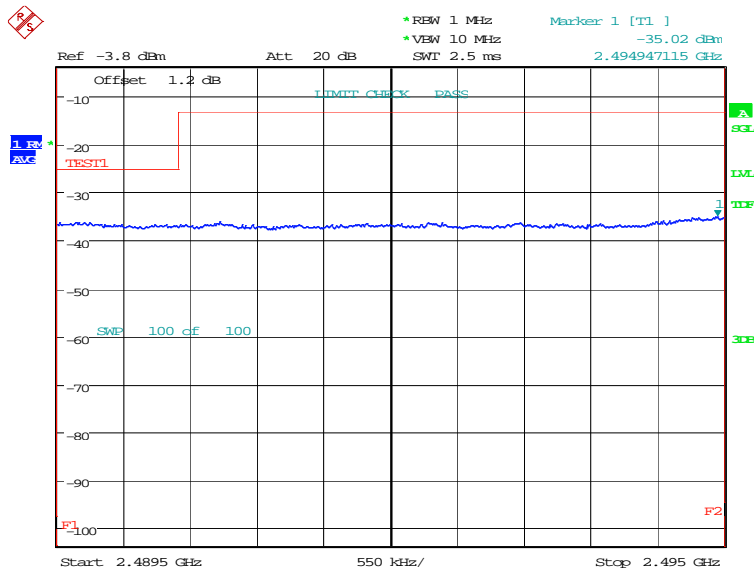


Date: 8.APR.2020 13:23:24

LOW BAND EDGE BLOCK-20MHz-100%RB

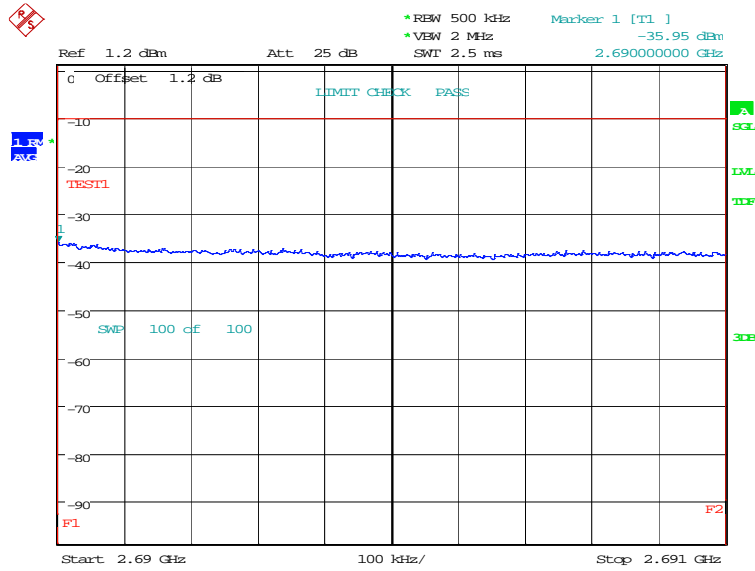


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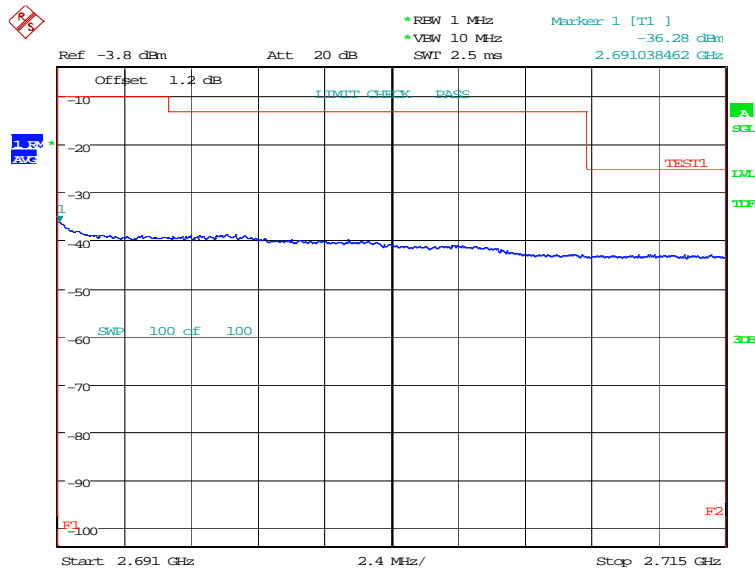


Date: 8.APR.2020 13:16:58

HIGH BAND EDGE BLOCK-20MHz-100%RB

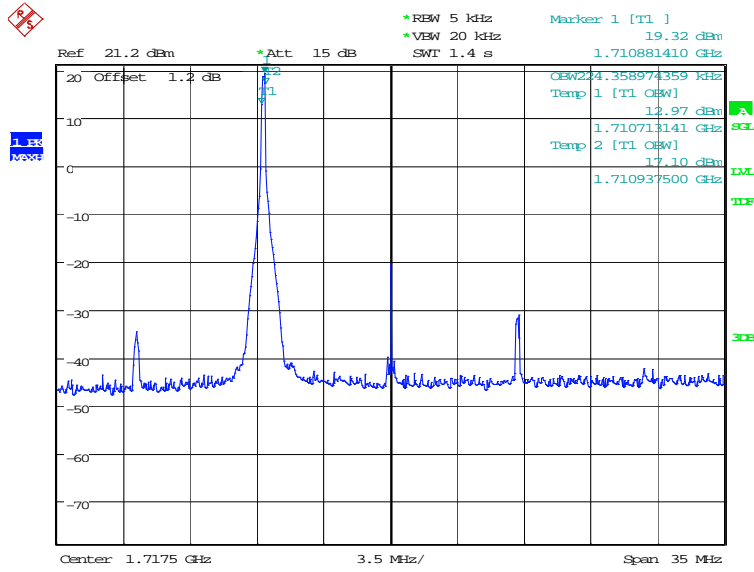


Date: 8.APR.2020 13:27:02



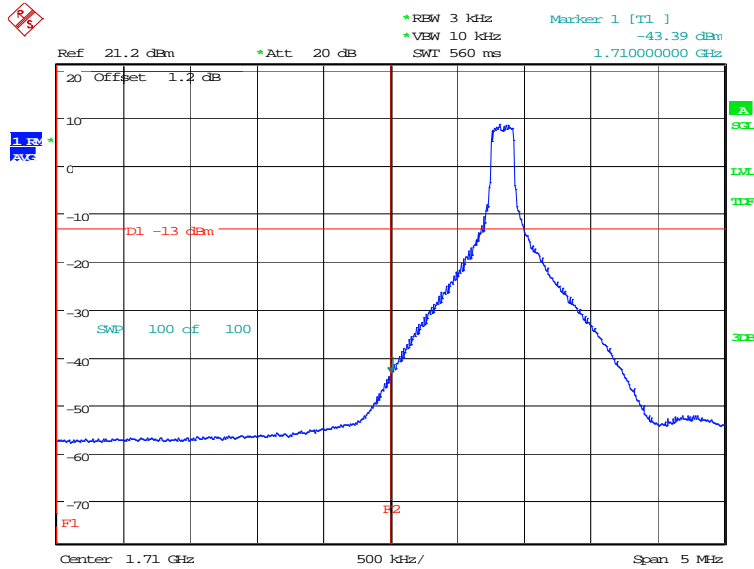
Date: 8.APR.2020 13:28:42

LTE band 66
OBW: 1RB-low_offset



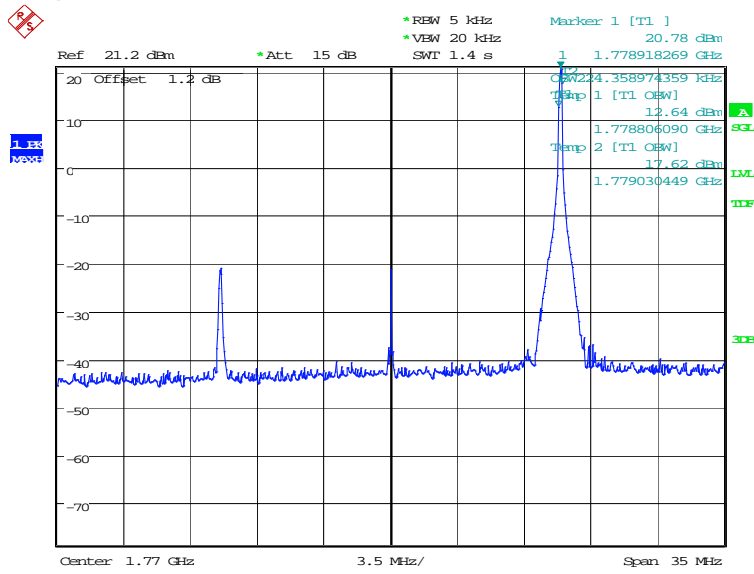
Date: 8.APR.2020 11:05:38

LOW BAND EDGE BLOCK-1RB-low_offset



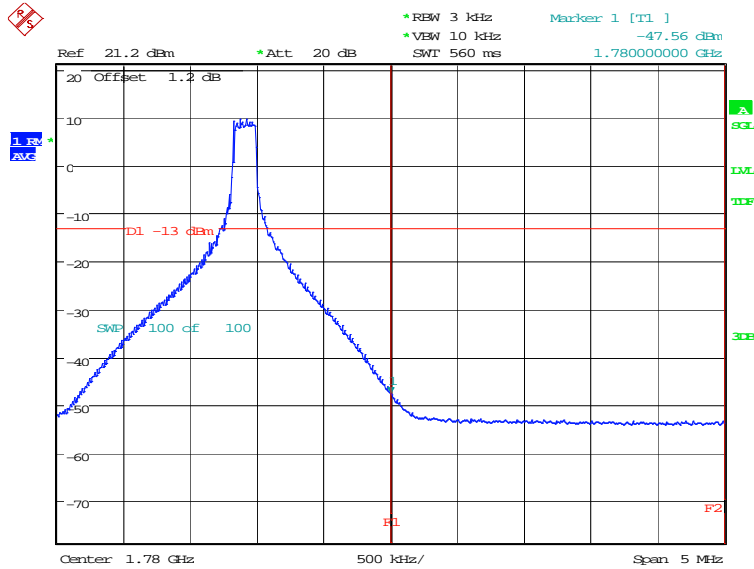
Date: 8.APR.2020 11:07:16

OBW: 1RB-high_offset



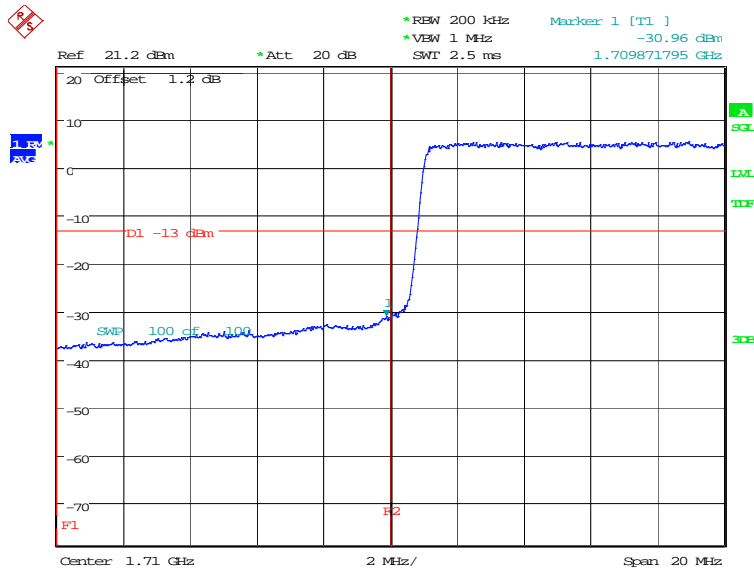
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HIGH BAND EDGE BLOCK-1RB-high_offset



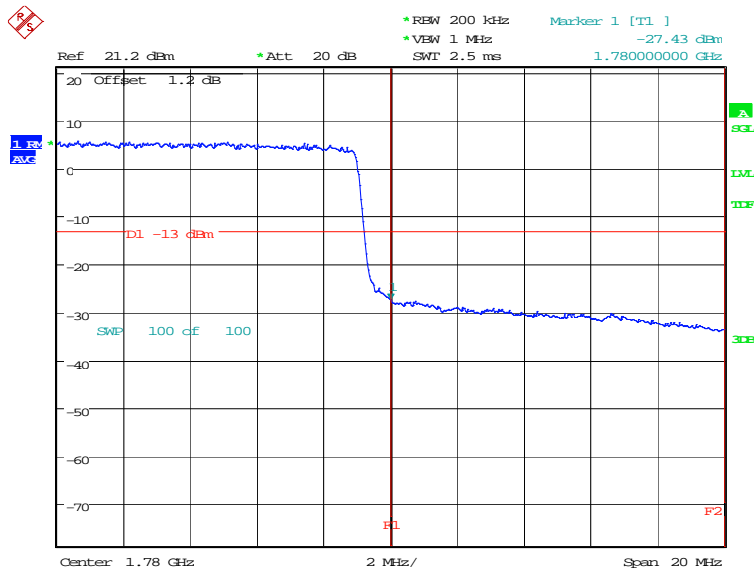
Date: 8.APR.2020 11:12:09

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 8.APR.2020 11:09:11

HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 8.APR.2020 11:14:01

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 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.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

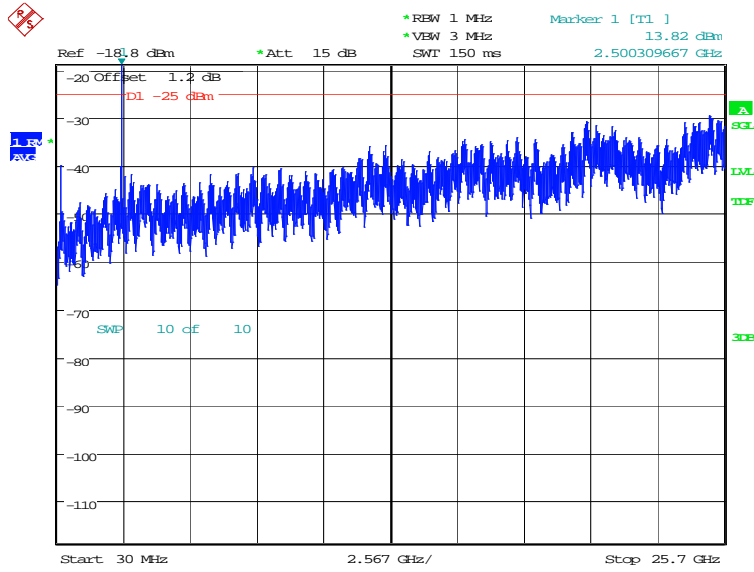
Part 27.53(m)(4) specifies for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, 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(a) states for mobile and portable stations operating in the 2305–2315 MHz and 2350–2360 MHz bands: By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$

dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337MHz; By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz; By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

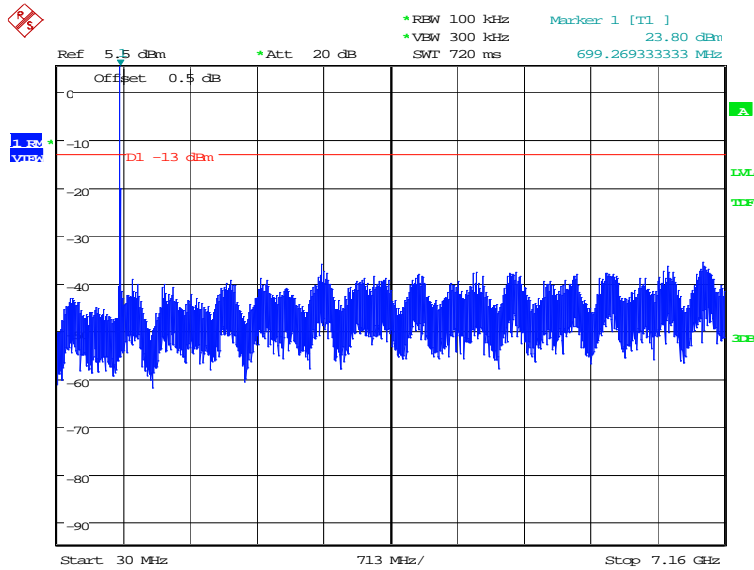
Part 90.543 states that For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee’s frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following: (1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations. (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations. (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB. (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment. (5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

LTE band 7: 30MHz – 25.7GHz



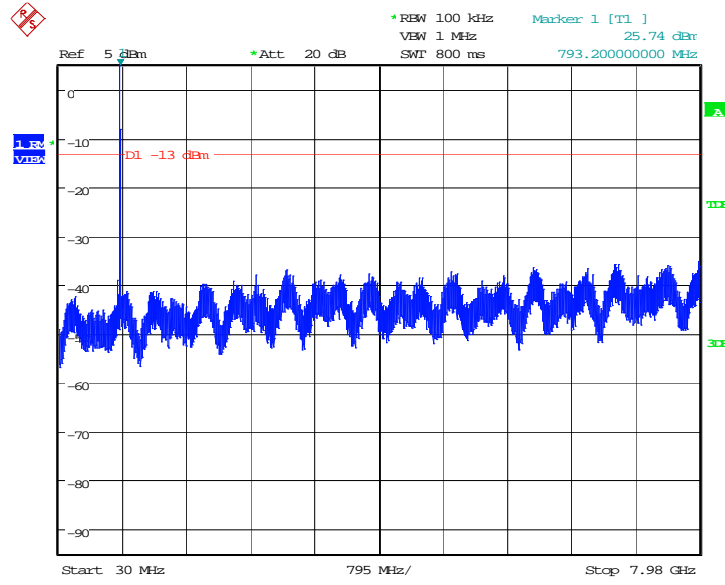
Date: 8.APR.2020 13:32:34

LTE band 12: 30MHz – 7.16GHz



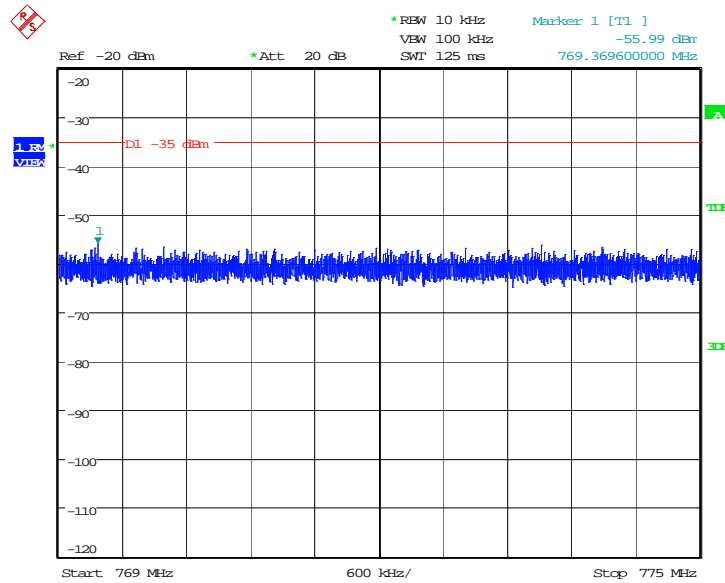
Date: 8.APR.2020 13:34:26

LTE band 14: 30MHz – 7.98GHz



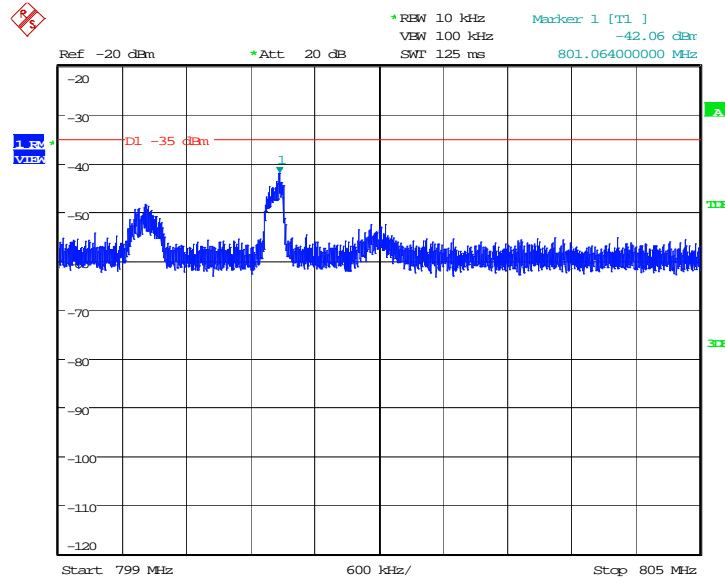
Date: 8.APR.2020 15:14:28

LTE band 14: 769MHz – 775MHz



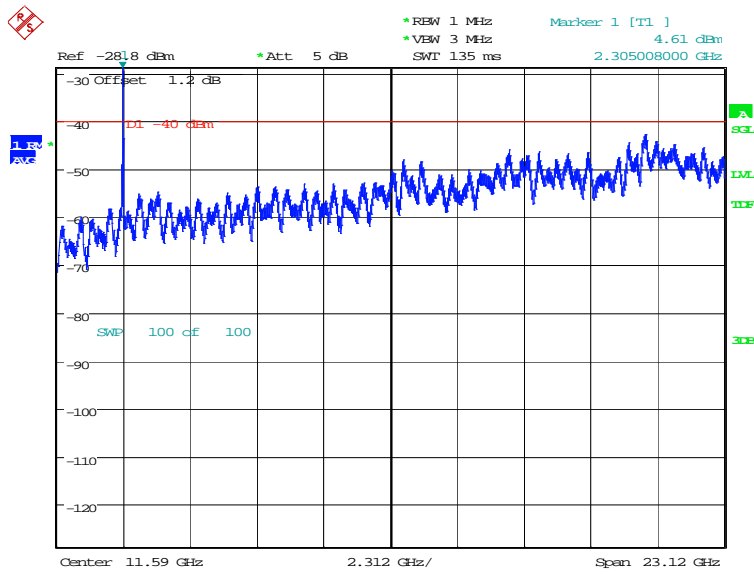
Date: 8.APR.2020 15:16:16

LTE band 14: 799MHz –805MHz



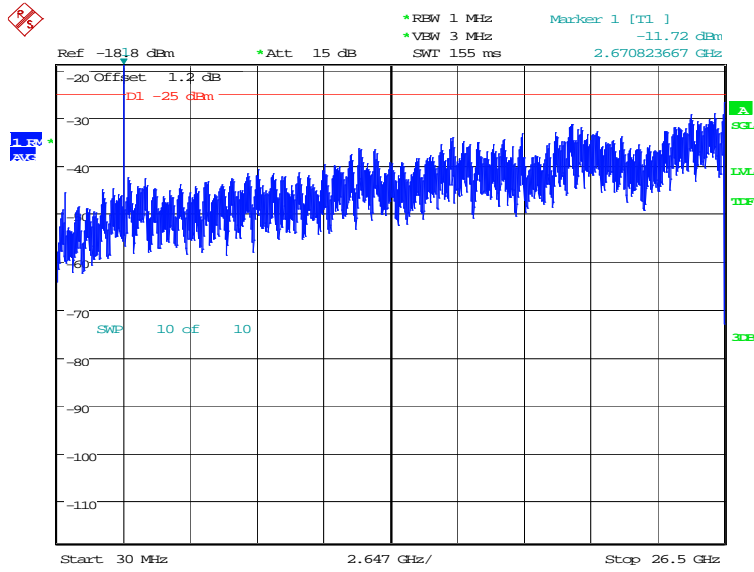
Date: 8.APR.2020 15:17:16

LTE band 30: 30MHz – 23.15GHz



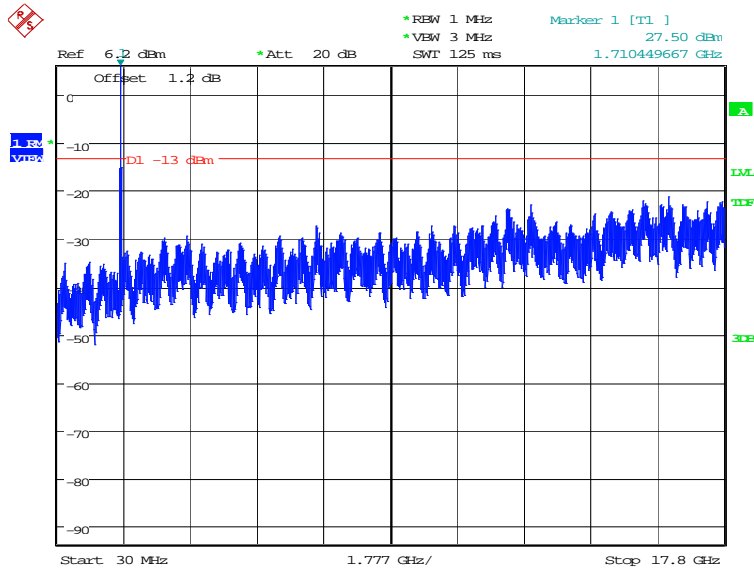
Date: 8.APR.2020 13:59:52

LTE band 41: 30MHz – 26.5GHz



Date: 8.APR.2020 13:37:45

LTE band 66: 30MHz – 17.8GHz



Date: 8.APR.2020 11:55:25

A.8 PEAK-TO-AVERAGE POWER RATIO

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

- 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) Set the measurement interval to 1ms;
- e) Record the maximum PAPR level associated with a probability of 0.1%.

A.8.1 Measurement limit

not exceed 13 dB

A.8.2 Measurement results

LTE band 2, 20MHz

Frequency (MHz)	PAPR (dB)		
1880.0	QPSK	16QAM	64QAM
	6.63	7.31	7.69

LTE band 7, 20MHz

Frequency (MHz)	PAPR (dB)		
2535.0	QPSK	16QAM	64QAM
	7.02	7.50	7.72

LTE band 12, 10MHz

Frequency (MHz)	PAPR (dB)		
707.5	QPSK	16QAM	64QAM
	5.32	6.09	6.63

LTE band 30, 10MHz

Frequency (MHz)	PAPR (dB)		
2310.0	QPSK	16QAM	64QAM
	5.29	6.06	6.73

LTE band 41, 20MHz

Frequency (MHz)	PAPR (dB)		
2593.0	QPSK	16QAM	64QAM
	8.14	8.97	8.97

LTE band 66, 20MHz

Frequency (MHz)	PAPR (dB)		
1745.0	QPSK	16QAM	64QAM
	6.57	7.24	7.50

ANNEX B: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p> 	
<hr/> <p>Certificate of Accreditation to ISO/IEC 17025:2005</p> <hr/>	
<p>NVLAP LAB CODE: 600118-0</p>	
<p>Telecommunication Technology Labs, CAICT 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>Electromagnetic Compatibility & Telecommunications</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/> <p>2019-09-26 through 2020-09-30 <i>Effective Dates</i></p>	 <hr/> <p><i>[Signature]</i> For the National Voluntary Laboratory Accreditation Program</p>

END OF REPORT