

Test data, continued

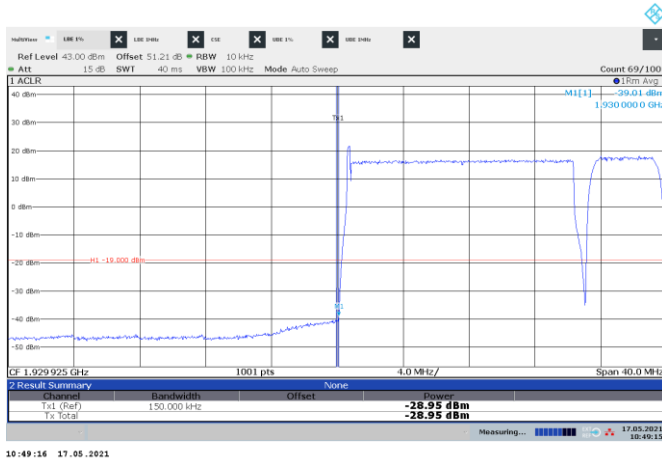


Figure 8.5-297: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: LTE 15 MHz + WCDMA
 Limit: -19 dBm/150 kHz Notes: None

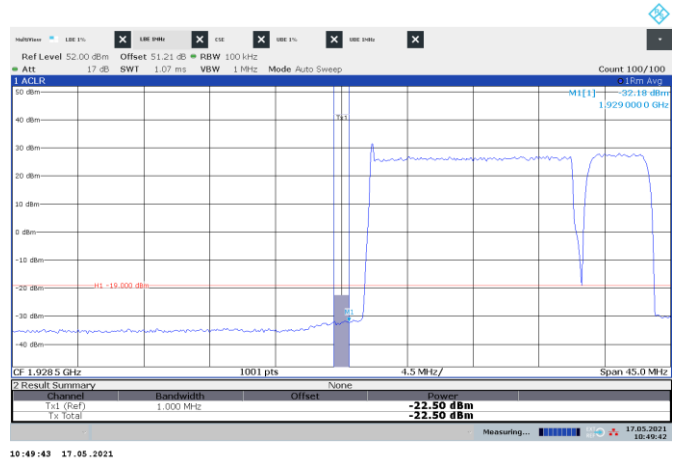


Figure 8.5-298: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: LTE 15 MHz + WCDMA
 Limit: -19 dBm/MHz Notes: None

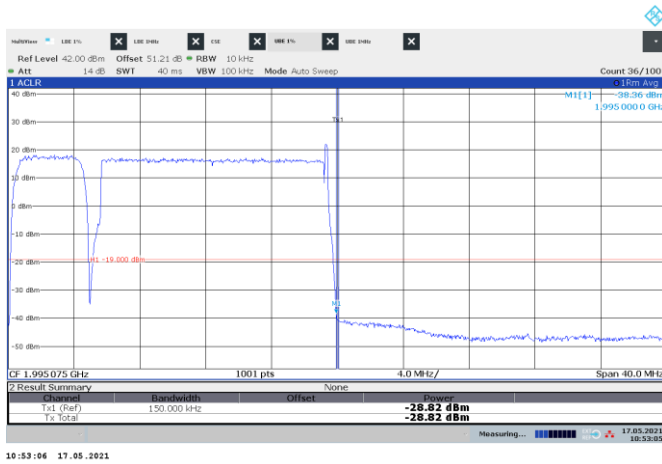


Figure 8.5-299: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: LTE 15 MHz + WCDMA
 Limit: -19 dBm/150 kHz Notes: None

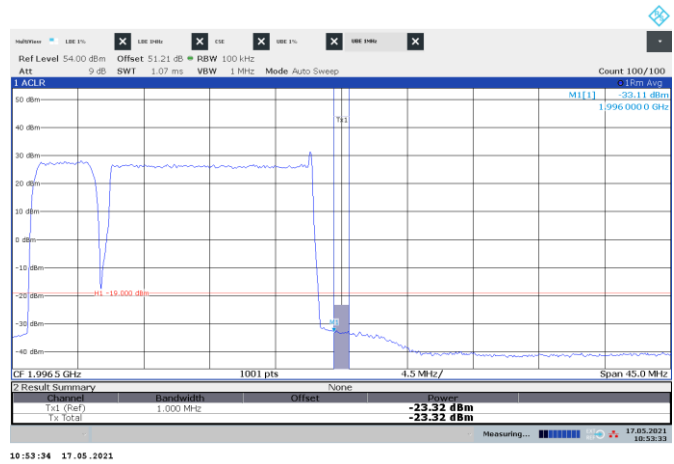


Figure 8.5-300: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: LTE 15 MHz + WCDMA
 Limit: -19 dBm/MHz Notes: None

Test data, continued

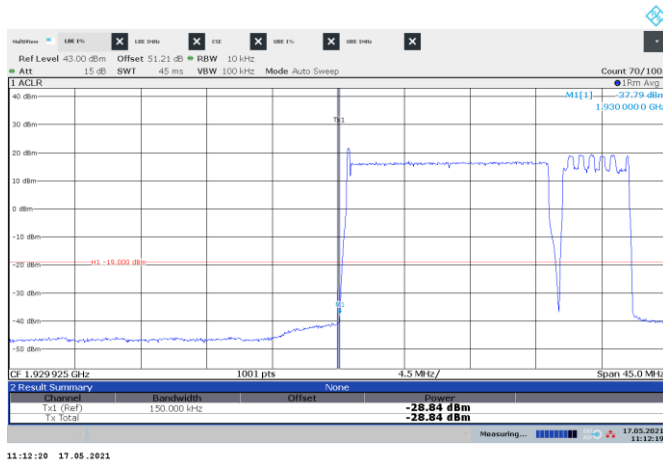


Figure 8.5-301: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: LTE 15 MHz + NR 5 MHz
 Limit: -19 dBm/150 kHz Notes: None

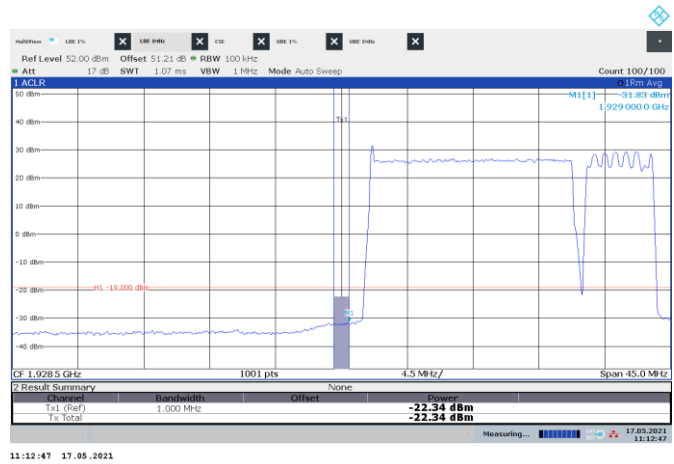


Figure 8.5-302: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: LTE 15 MHz + NR 5 MHz
 Limit: -19 dBm/MHz Notes: None



Figure 8.5-303: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: LTE 15 MHz + NR 5 MHz
 Limit: -19 dBm/150 kHz Notes: None

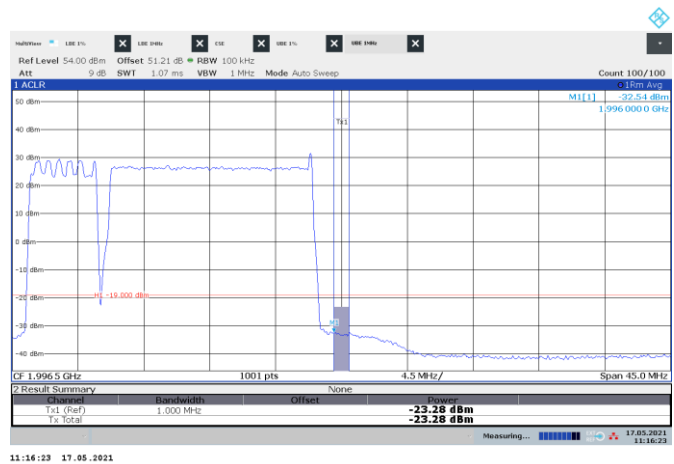


Figure 8.5-304: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: LTE 15 MHz + NR 5 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

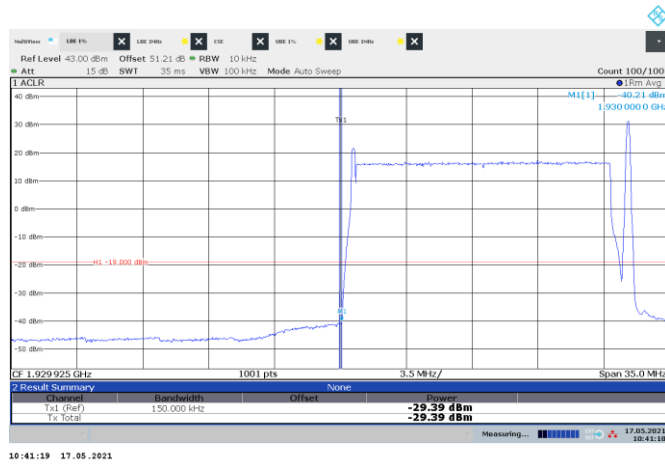


Figure 8.5-305: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: LTE 15 MHz + GSM
 Limit: -13 dBm/150 kHz Notes: None

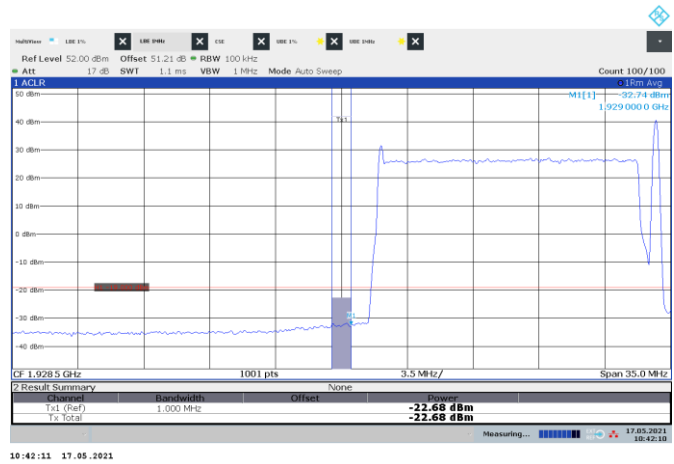


Figure 8.5-306: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: LTE 15 MHz + GSM
 Limit: -13 dBm/MHz Notes: None

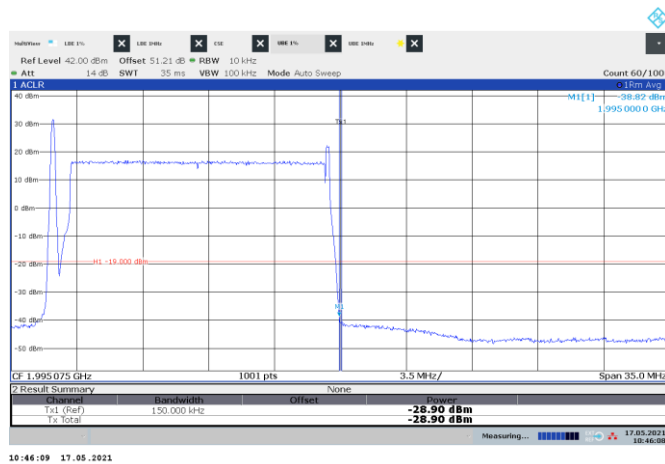


Figure 8.5-307: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: LTE 15 MHz + GSM
 Limit: -13 dBm/150 kHz Notes: None

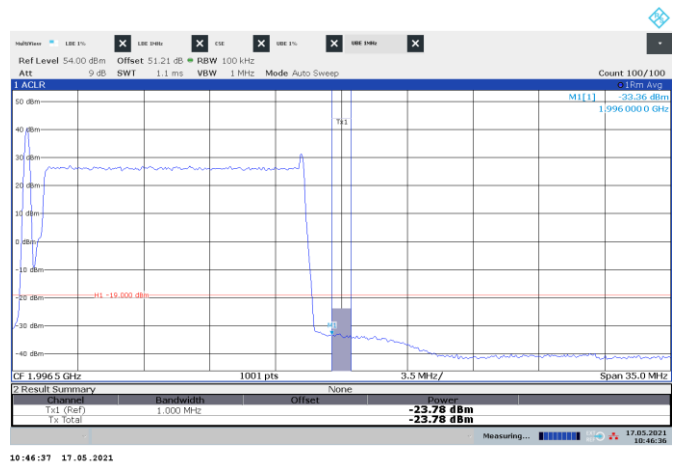


Figure 8.5-308: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: LTE 15 MHz + GSM
 Limit: -13 dBm/MHz Notes: None

Test data, continued



Figure 8.5-309: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 15 MHz + LTE 5 MHz
 Limit: -19 dBm/150 kHz Notes: None

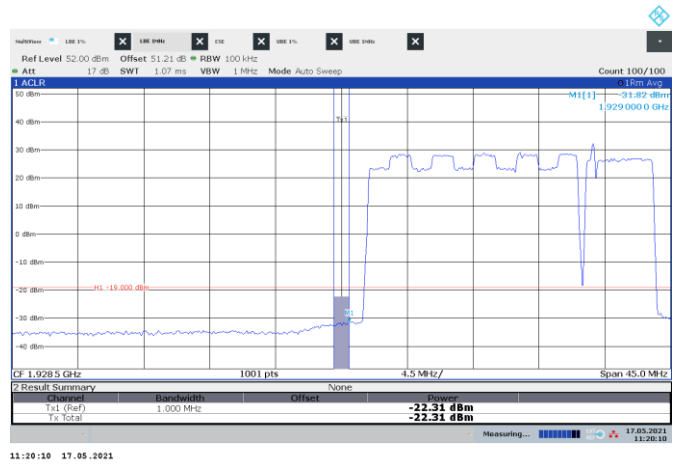


Figure 8.5-310: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 15 MHz + LTE 5 MHz
 Limit: -19 dBm/MHz Notes: None



Figure 8.5-311: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 15 MHz + LTE 5 MHz
 Limit: -19 dBm/150 kHz Notes: None



Figure 8.5-312: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 15 MHz + LTE 5 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

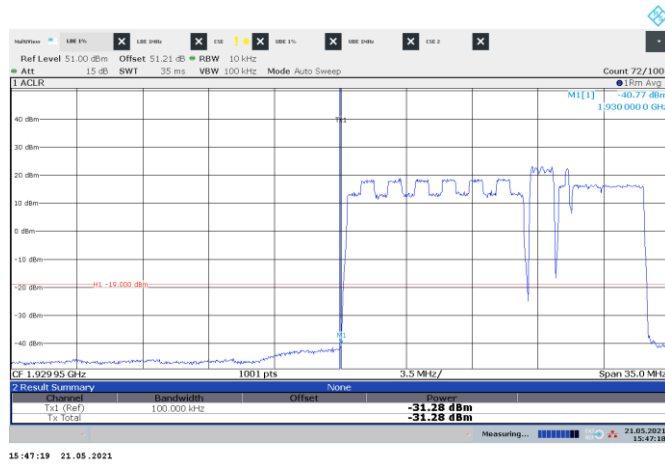


Figure 8.5-313: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 10 MHz + CDMA + LTE 5 MHz
 Limit: -13 dBm/100 kHz Notes: None

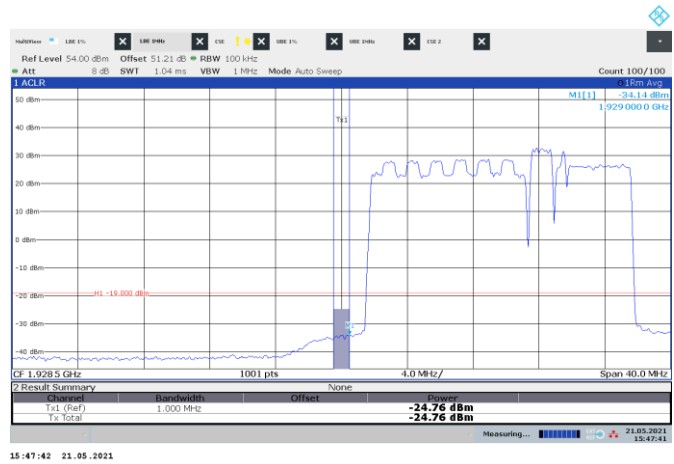


Figure 8.5-314: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 10 MHz + CDMA + LTE 5 MHz
 Limit: -13 dBm/MHz Notes: None

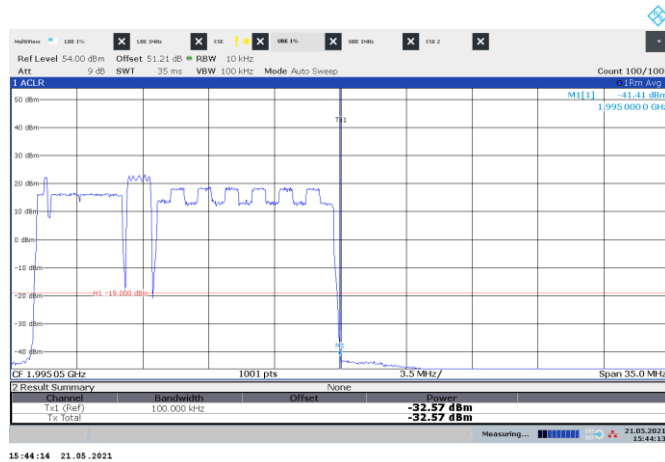


Figure 8.5-315: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 10 MHz + CDMA + LTE 5 MHz
 Limit: -13 dBm/100 kHz Notes: None

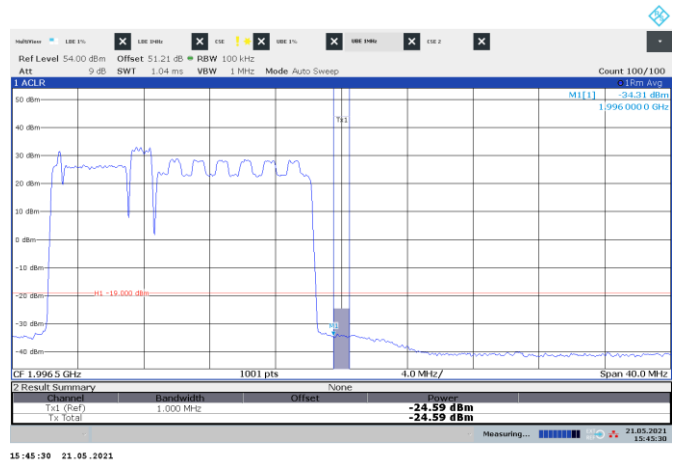


Figure 8.5-316: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 10 MHz + CDMA + LTE 5 MHz
 Limit: -13 dBm/MHz Notes: None

Test data, continued

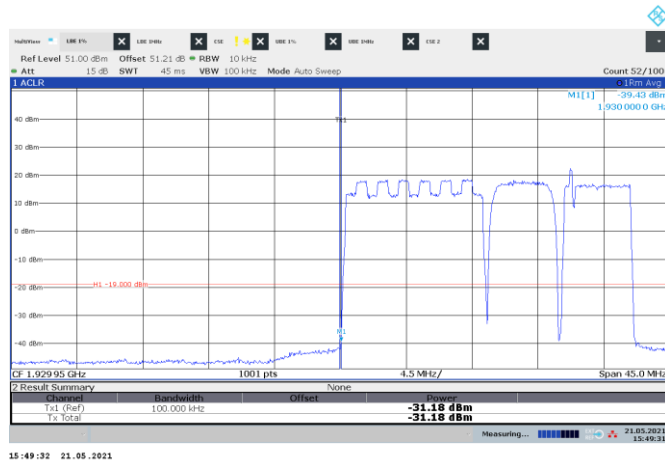


Figure 8.5-317: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 10 MHz + WCDMA + LTE 5 MHz
 Limit: -19 dBm/100 kHz Notes: None

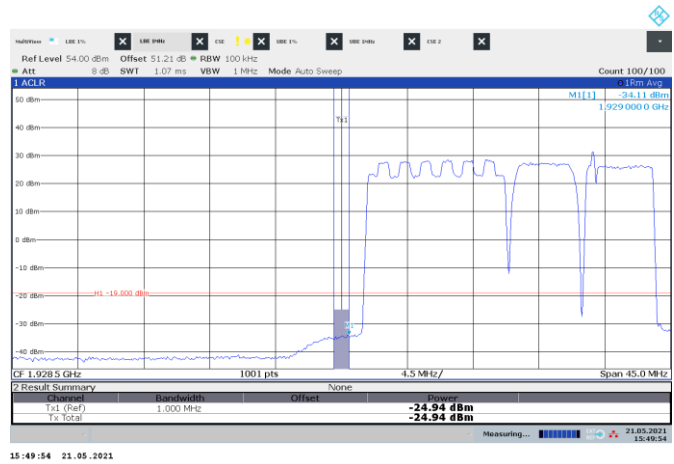


Figure 8.5-318: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 10 MHz + WCDMA + LTE 5 MHz
 Limit: -19 dBm/MHz Notes: None

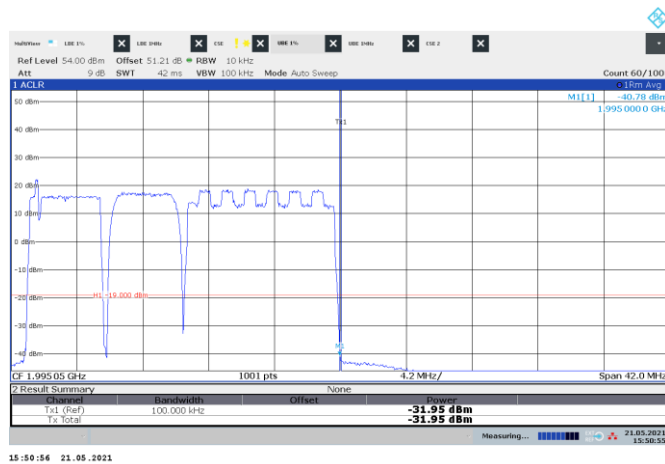


Figure 8.5-319: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 10 MHz + WCDMA + LTE 5 MHz
 Limit: -19 dBm/100 kHz Notes: None

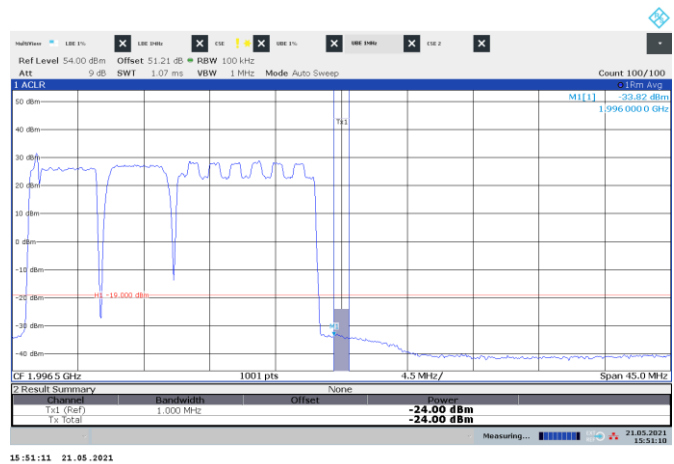


Figure 8.5-320: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 10 MHz + WCDMA + LTE 5 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

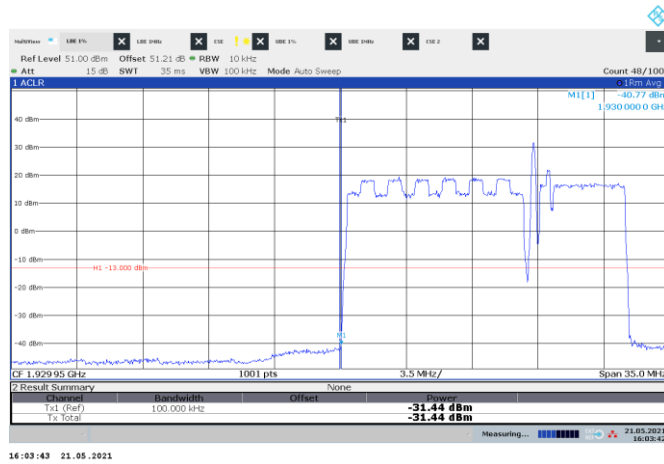


Figure 8.5-321: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 10 MHz + GSM + LTE 5 MHz
 Limit: -13 dBm/100 kHz Notes: None

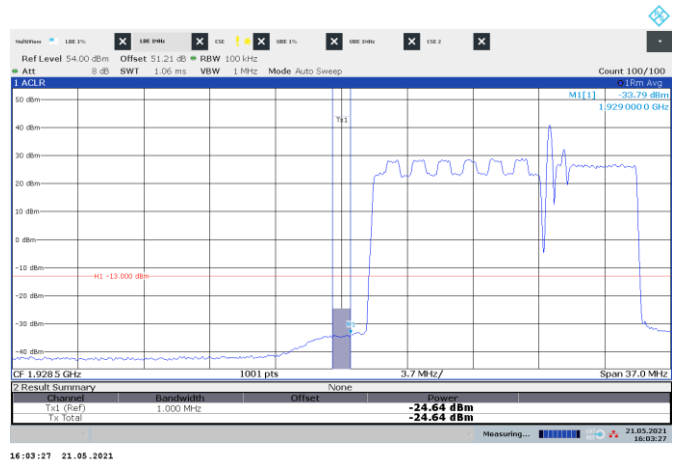


Figure 8.5-322: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 10 MHz + GSM + LTE 5 MHz
 Limit: -13 dBm/MHz Notes: None

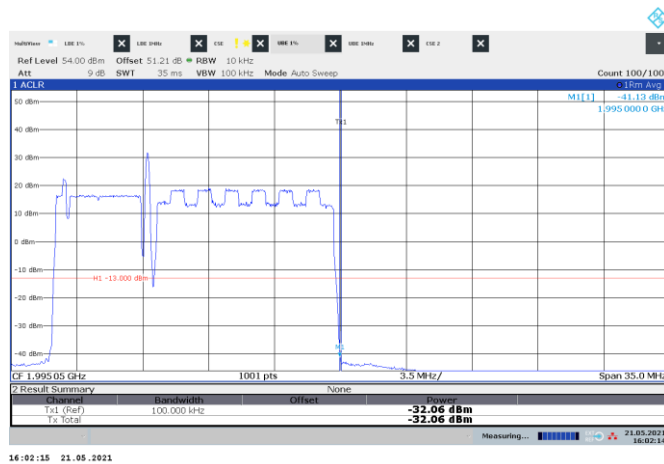


Figure 8.5-323: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 10 MHz + GSM + LTE 5 MHz
 Limit: -13 dBm/100 kHz Notes: None

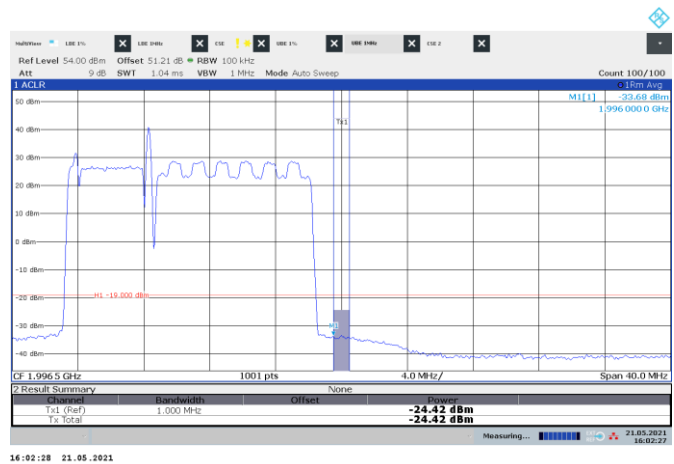


Figure 8.5-324: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 10 MHz + GSM + LTE 5 MHz
 Limit: -13 dBm/MHz Notes: None

Test data, continued



Figure 8.5-325: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 15 MHz + CDMA
 Limit: -13 dBm/150 kHz Notes: None

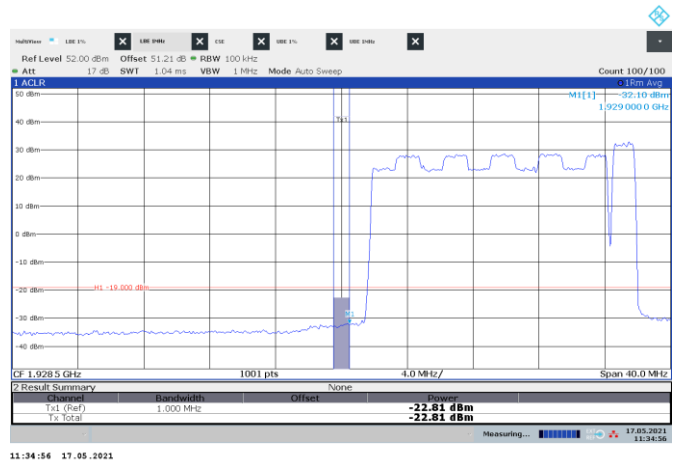


Figure 8.5-326: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 15 MHz + CDMA
 Limit: -13 dBm/MHz Notes: None

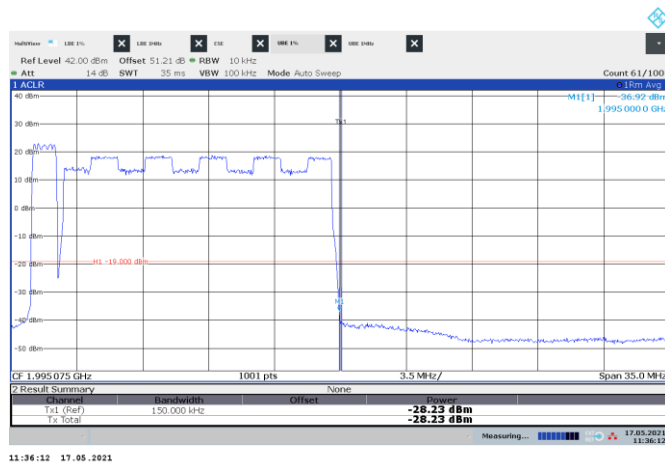


Figure 8.5-327: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 15 MHz + CDMA
 Limit: -13 dBm/150 kHz Notes: None



Figure 8.5-328: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 15 MHz + CDMA
 Limit: -13 dBm/MHz Notes: None

Test data, continued

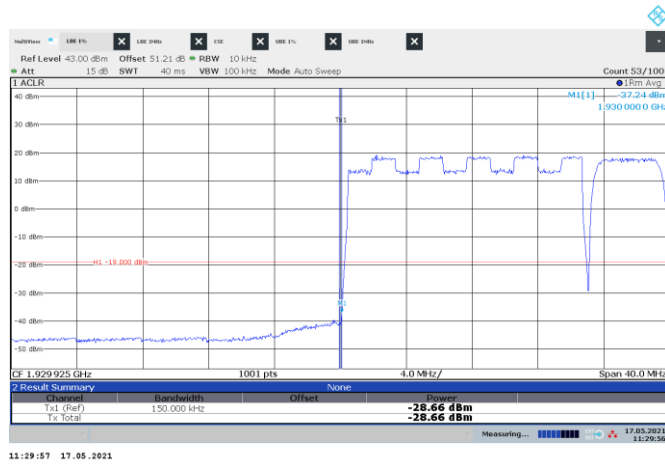


Figure 8.5-329: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 15 MHz + WCDMA
 Limit: -19 dBm/150 kHz Notes: None



Figure 8.5-330: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 15 MHz + WCDMA
 Limit: -19 dBm/MHz Notes: None

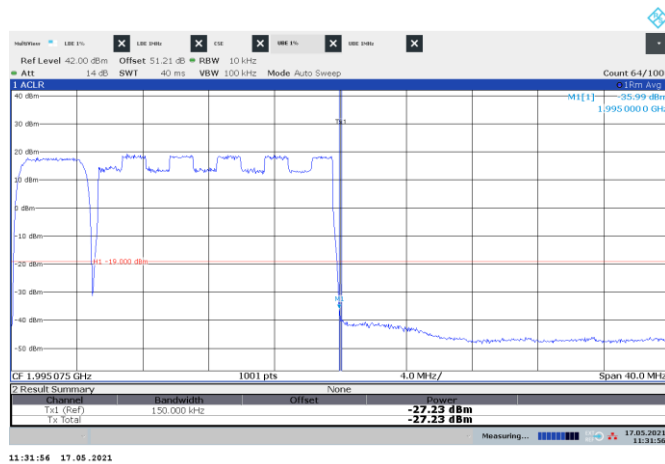


Figure 8.5-331: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 15 MHz + WCDMA
 Limit: -19 dBm/150 kHz Notes: None



Figure 8.5-332: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 15 MHz + WCDMA
 Limit: -19 dBm/MHz Notes: None

Test data, continued

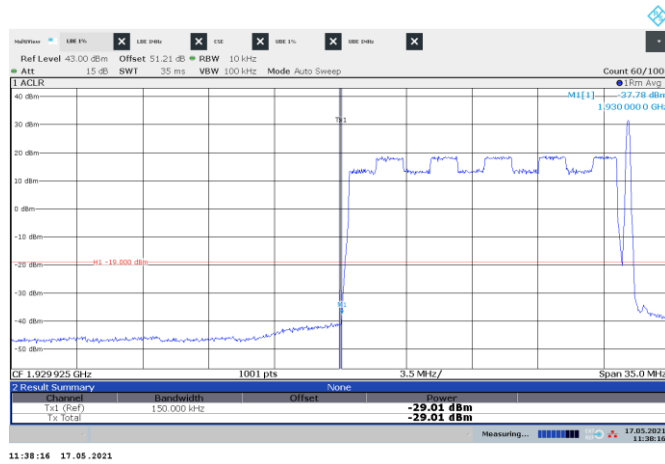


Figure 8.5-333: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 15 MHz + GSM
 Limit: -13 dBm/150 kHz Notes: None



Figure 8.5-334: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 15 MHz + GSM
 Limit: -13 dBm/MHz Notes: None

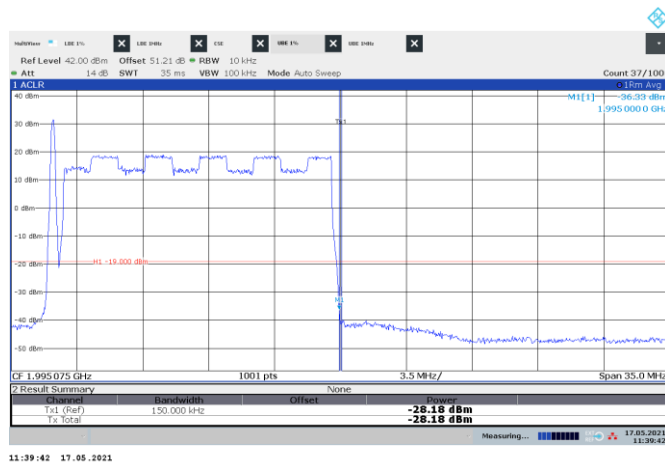


Figure 8.5-335: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 15 MHz + GSM
 Limit: -13 dBm/150 kHz Notes: None

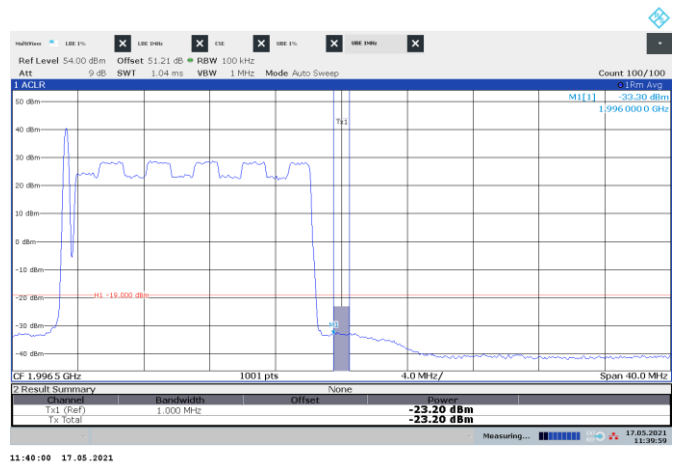


Figure 8.5-336: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 15 MHz + GSM
 Limit: -13 dBm/MHz Notes: None

Test data, continued

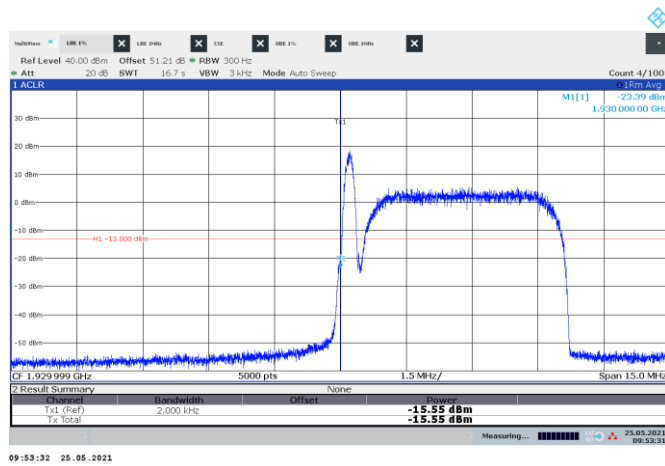


Figure 8.5-337: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: GSM + WCDMA
 Limit: -13 dBm/2 kHz Notes: None



Figure 8.5-338: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: GSM + WCDMA
 Limit: -13 dBm/MHz Notes: None

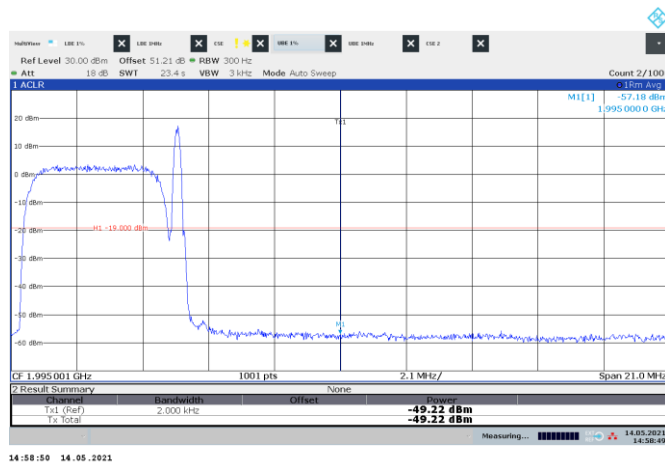


Figure 8.5-339: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: GSM + WCDMA
 Limit: -13 dBm/2 kHz Notes: None

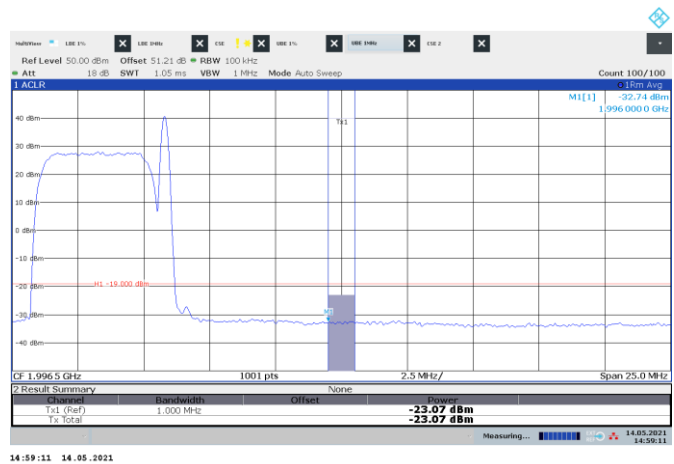


Figure 8.5-340: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: GSM + WCDMA
 Limit: -13 dBm/MHz Notes: None

Test data, continued

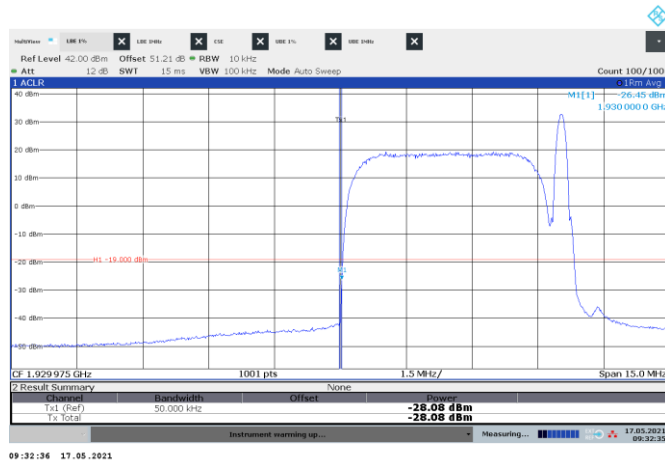


Figure 8.5-341: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: WCDMA + GSM
 Limit: -13 dBm/50 kHz Notes: None

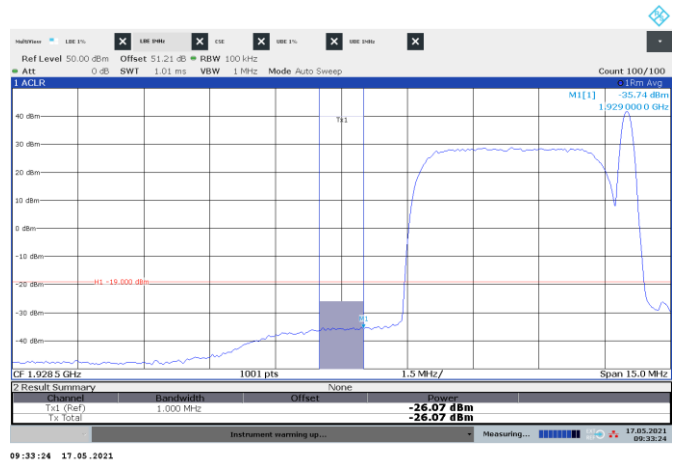


Figure 8.5-342: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: WCDMA + GSM
 Limit: -13 dBm/MHz Notes: None

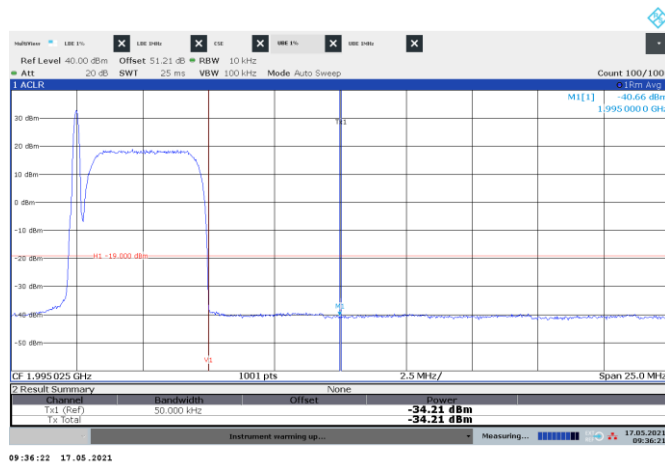


Figure 8.5-343: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: WCDMA + GSM
 Limit: -13 dBm/50 kHz Notes: None

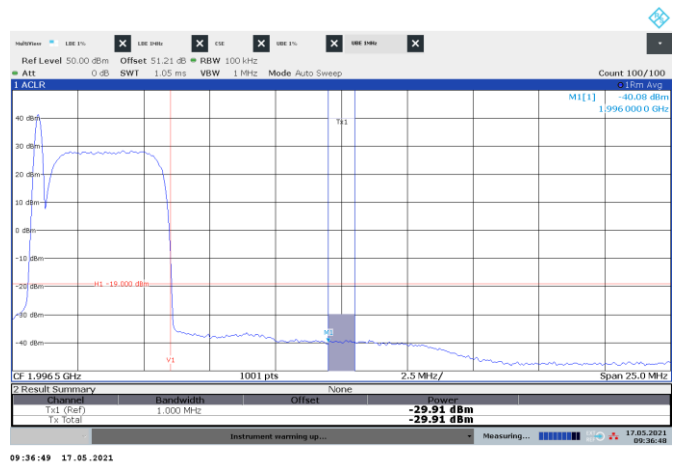


Figure 8.5-344: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: WCDMA + GSM
 Limit: -13 dBm/MHz Notes: None

Test data, continued

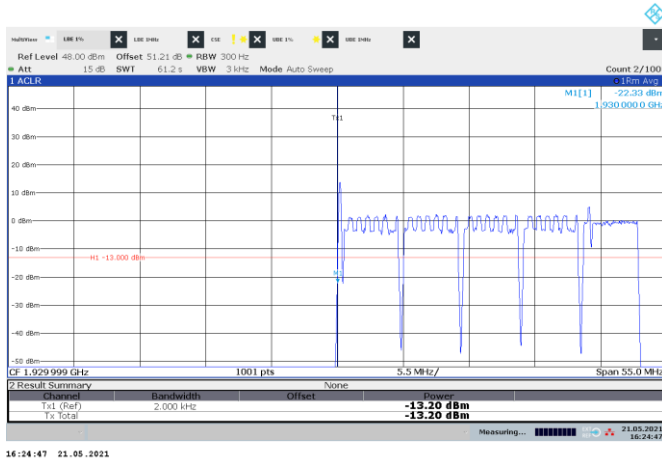


Figure 8.5-345: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: GSM + 4x NR 5 MHz + LTE 5 MHz
 Limit: -13 dBm/2 kHz Notes: Re-measured value: -16.72 dBm/2 kHz

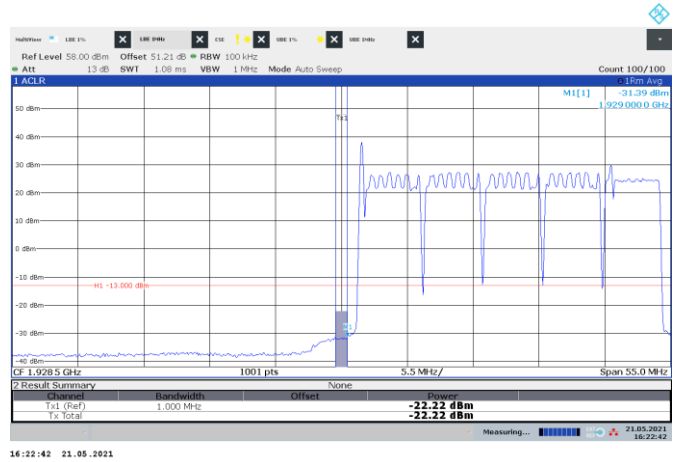


Figure 8.5-346: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: GSM + 4x NR 5 MHz + LTE 5 MHz
 Limit: -13 dBm/MHz Notes: None

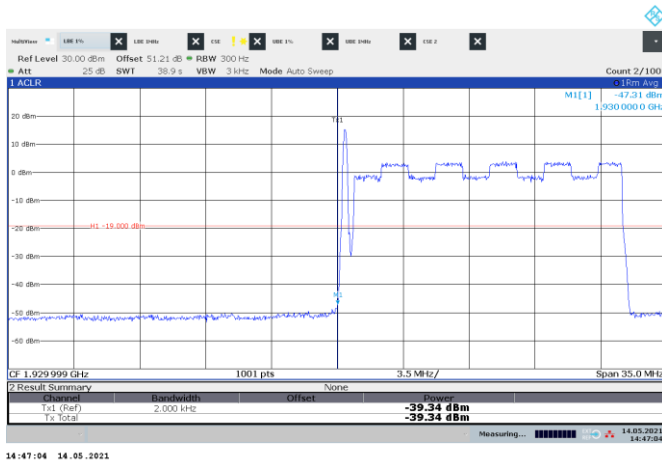


Figure 8.5-347: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: GSM + NR 15 MHz
 Limit: -13 dBm/2 kHz Notes: None



Figure 8.5-348: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: GSM + NR 15 MHz
 Limit: -13 dBm/MHz Notes: None

Test data, continued

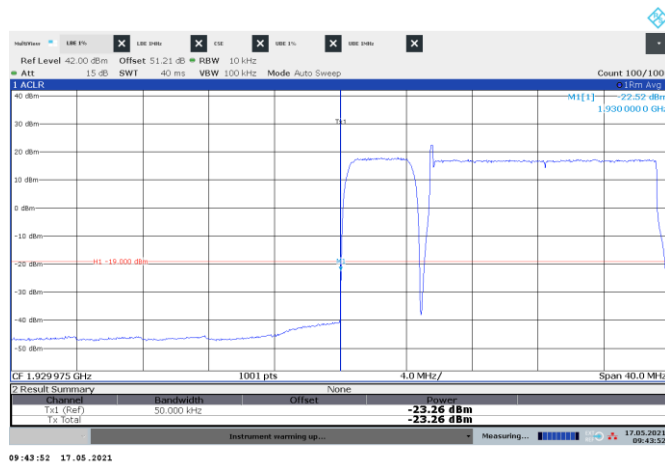


Figure 8.5-349: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: WCDMA + LTE 15 MHz
 Limit: -19 dBm/50 kHz Notes: None



Figure 8.5-350: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: WCDMA + LTE 15 MHz
 Limit: -19 dBm/MHz Notes: None

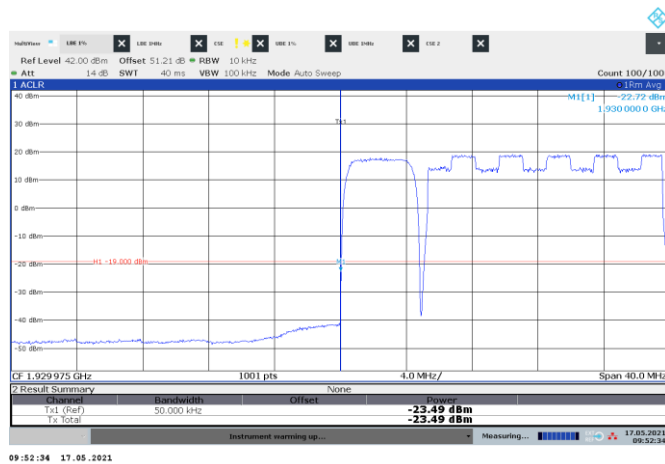


Figure 8.5-351: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: WCDMA + NR 15 MHz
 Limit: -19 dBm/50 kHz Notes: None



Figure 8.5-352: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: WCDMA + NR 15 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued



Figure 8.5-353: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: GSM + NR 10 MHz + LTE 5 MHz
 Limit: -13 dBm/2 kHz Notes: Re-measured value: -15.25 dBm/2 kHz



Figure 8.5-354: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: GSM + NR 10 MHz + LTE 5 MHz
 Limit: -13 dBm/MHz Notes: None



Figure 8.5-355: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: CDMA + LTE 10 MHz + NR 5 MHz
 Limit: -13 dBm/12.5 kHz Notes: None



Figure 8.5-356: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: CDMA + LTE 10 MHz + NR 5 MHz
 Limit: -13 dBm/MHz Notes: None

Test data, continued

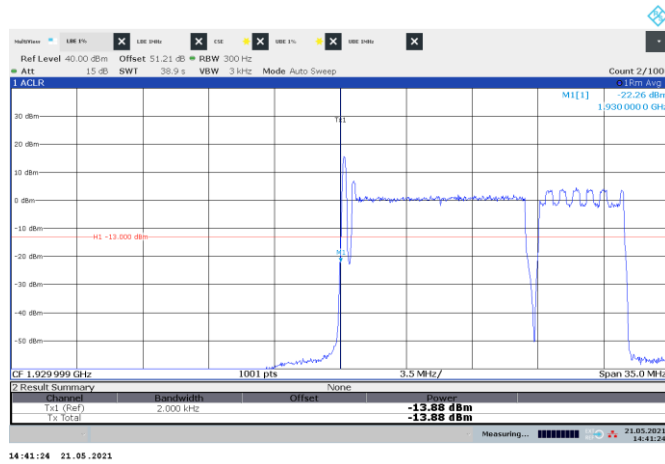


Figure 8.5-357: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: GSM + LTE 10 MHz + NR 5 MHz
 Limit: -13 dBm/2 kHz Notes: Re-measured value: -15.11 dBm/2 kHz



Figure 8.5-358: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: GSM + LTE 10 MHz + NR 5 MHz
 Limit: -13 dBm/MHz Notes: None

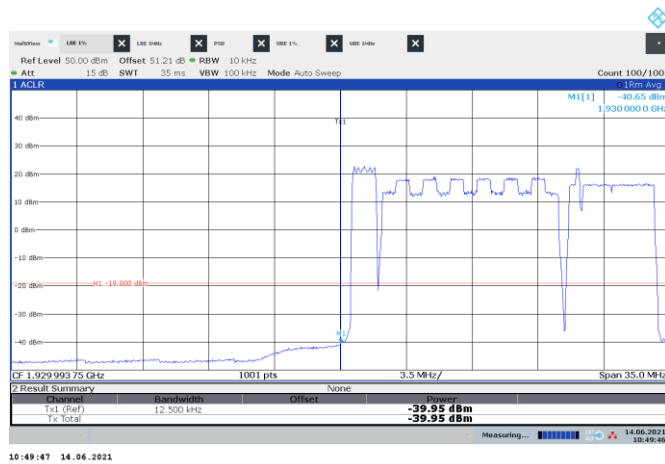


Figure 8.5-359: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: CDMA + NR 10 MHz + LTE 5 MHz
 Limit: -13 dBm/12.5 kHz Notes: None



Figure 8.5-360: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: CDMA + NR 10 MHz + LTE 5 MHz
 Limit: -13 dBm/MHz Notes: None

Test data, continued

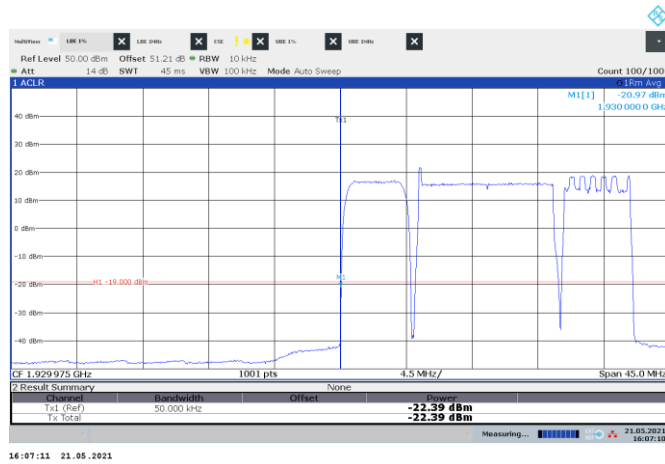


Figure 8.5-361: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: WCDMA + LTE 10 MHz + NR 5 MHz
 Limit: -19 dBm/50 kHz Notes: None

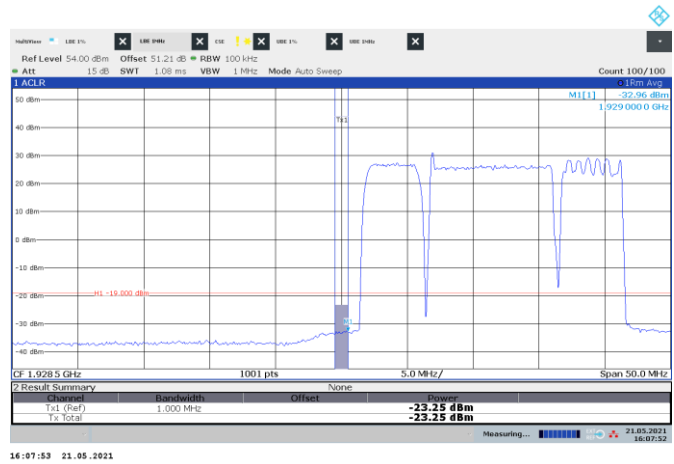


Figure 8.5-362: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: WCDMA + LTE 10 MHz + NR 5 MHz
 Limit: -19 dBm/MHz Notes: None

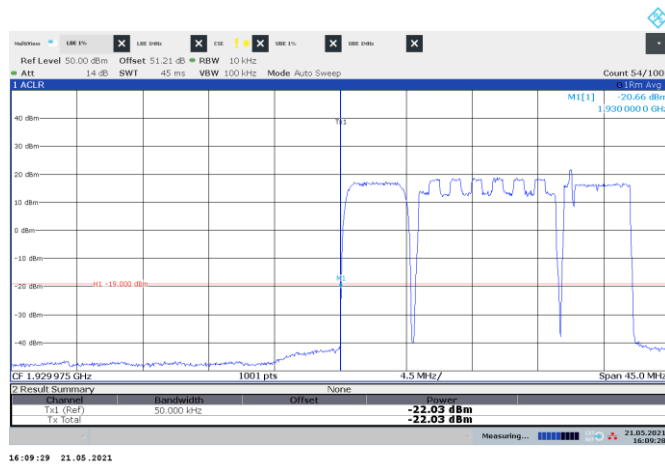


Figure 8.5-363: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: WCDMA + NR 10 MHz + LTE 5 MHz
 Limit: -19 dBm/50 kHz Notes: None

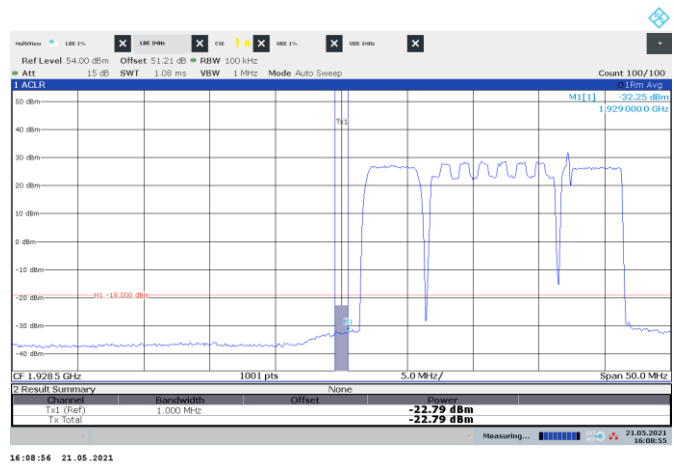


Figure 8.5-364: Conducted emission 1 MHz away from the lower band edge

Frequency: 1929 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: WCDMA + NR 10 MHz + LTE 5 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued



Figure 8.5-365: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: LTE 5 MHz + CDMA + NR 10 MHz
 Limit: -13 dBm/50 kHz Notes: None

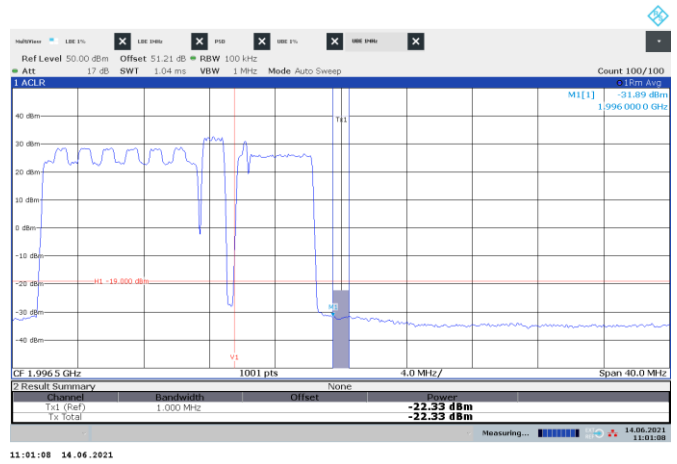


Figure 8.5-366: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: LTE 5 MHz + CDMA + NR 10 MHz
 Limit: -13 dBm/MHz Notes: None

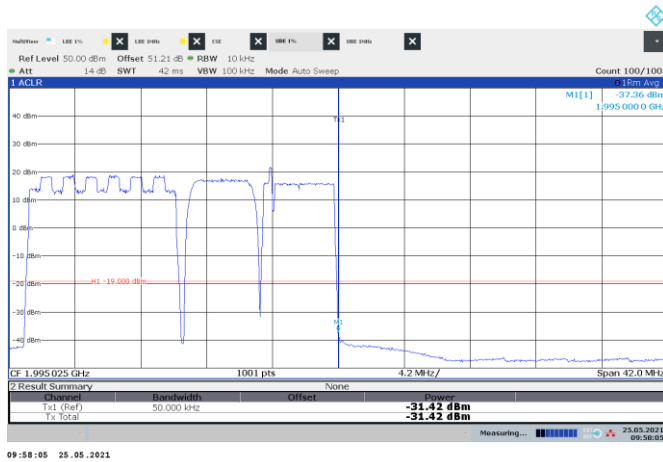


Figure 8.5-367: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: LTE 5 MHz + WCDMA + NR 10 MHz
 Limit: -19 dBm/50 kHz Notes: None



Figure 8.5-368: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: LTE 5 MHz + WCDMA + NR 10 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

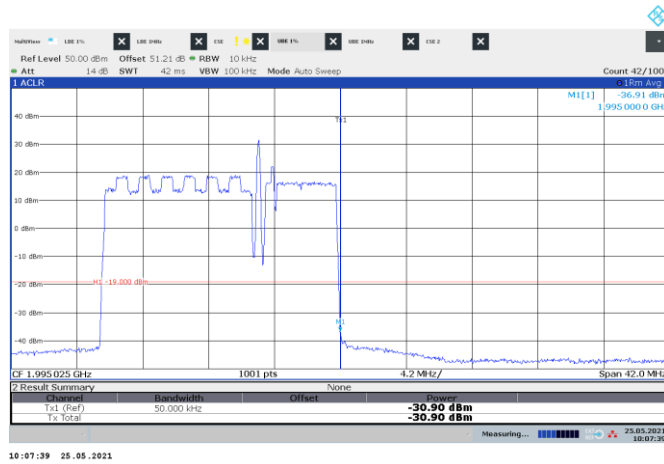


Figure 8.5-369: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: LTE 5 MHz + GSM + NR 10 MHz
 Limit: -13 dBm/50 kHz Notes: None

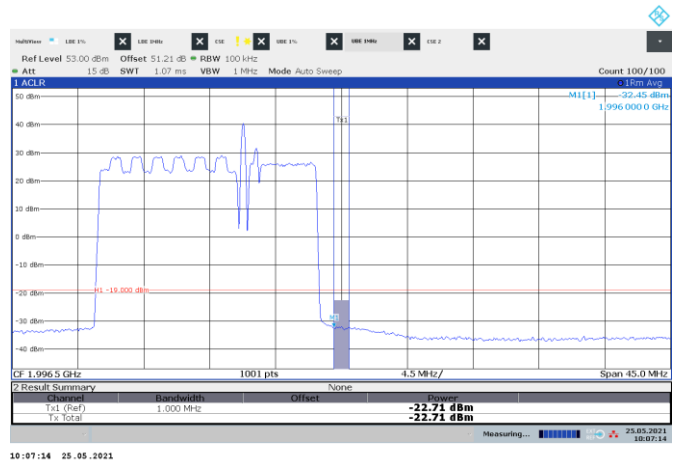


Figure 8.5-370: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: LTE 5 MHz + GSM + NR 10 MHz
 Limit: -13 dBm/MHz Notes: None



Figure 8.5-371: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 5 MHz + GSM + LTE 10 MHz
 Limit: -13 dBm/50 kHz Notes: None



Figure 8.5-372: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 5 MHz + GSM + LTE 10 MHz
 Limit: -13 dBm/MHz Notes: None

Test data, continued

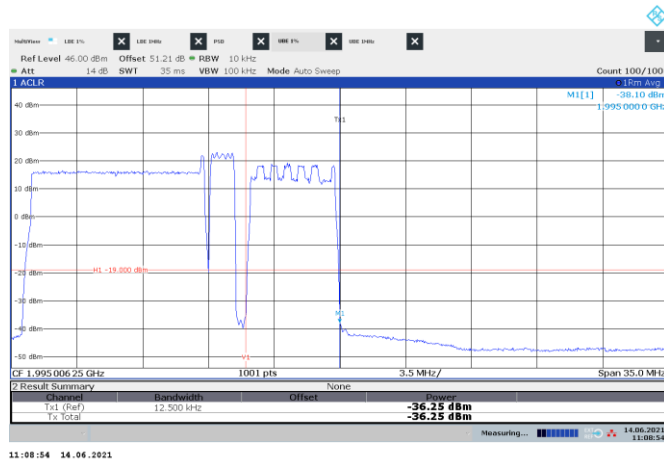


Figure 8.5-373: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 5 MHz + CDMA + LTE 10 MHz
 Limit: -13 dBm/50 kHz Notes: None

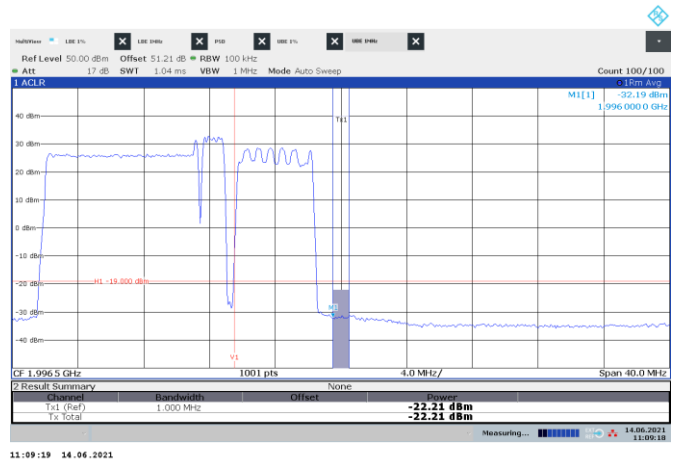


Figure 8.5-374: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 5 MHz + CDMA + LTE 10 MHz
 Limit: -13 dBm/MHz Notes: None

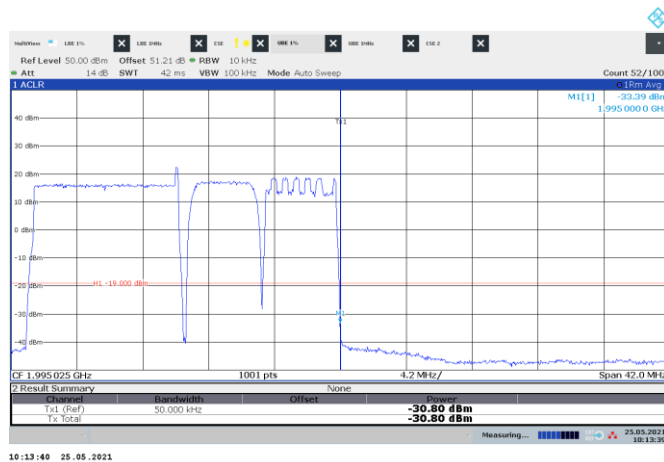


Figure 8.5-375: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: NR 5 MHz + WCDMA + LTE 10 MHz
 Limit: -19 dBm/50 kHz Notes: None



Figure 8.5-376: Conducted emission 1 MHz away from the upper band edge

Frequency: 1996 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: NR 5 MHz + WCDMA + LTE 10 MHz
 Limit: -19 dBm/MHz Notes: None

8.6 Receiver conducted spurious emissions (Band 66 & 2/25)

8.6.1 Definitions and limits

RSS-Gen, 7.4

If the receiver has a detachable antenna of known impedance, an antenna-conducted spurious emissions measurement is permitted as an alternative to radiated measurement. However, the radiated method of section 7.3 is preferred.

The antenna-conducted test shall be performed with the antenna disconnected and with the receiver antenna port connected to a measuring instrument having equal input impedance to that specified for the antenna. The RF cable connecting the receiver under test to the measuring instrument shall also have the same impedance to that specified for the receiver’s antenna.

The spurious emissions from the receiver at any discrete frequency, measured at the antenna port by the antenna-conducted method, shall not exceed 2 nW in the frequency range 30–1000 MHz and 5 nW above 1 GHz.

8.6.2 Test summary

Test date	May 25, 2021
Test engineer	Andrey Adelberg

8.6.3 Observations, settings and special notes

Spectrum analyzer settings:

Detector mode	RMS
Resolution bandwidth	1 MHz
Video bandwidth	RBW × 3
Trace mode	Averaging

8.6.4 Test data

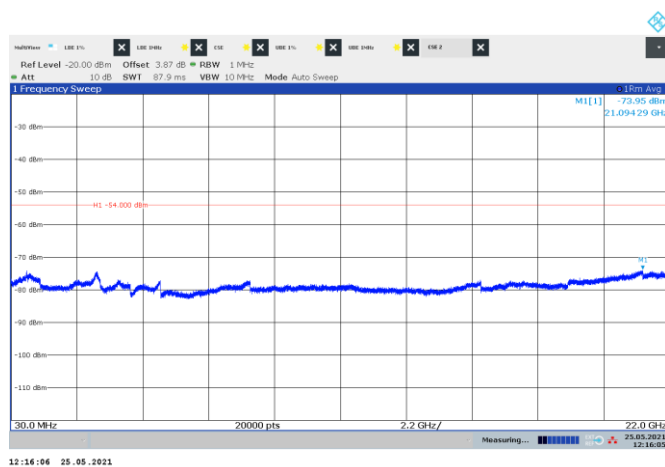


Figure 8.6-1: Receiver conducted spurious emissions for Band 25

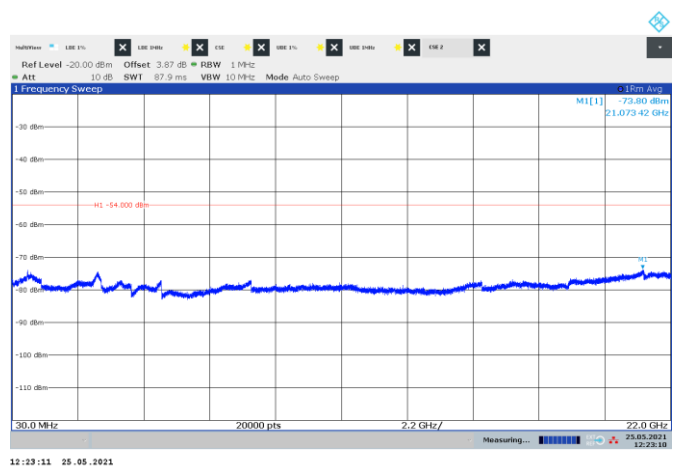


Figure 8.6-2: Receiver conducted spurious emissions for Band 66

8.7 Frequency stability (Band 66)

8.7.1 Definitions and limits

FCC 27.54:

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

RSS-139, Section 6.4:

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

8.7.2 Test summary

Test date	May 26, 2021
Test engineer	Andrey Adelberg

8.7.3 Observations, settings and special notes

Testing was performed per ANSI C63.26 Paragraphs 5.6.3, 5.6.4 and 5.6.5 methods.
 26 dBc points including frequency tolerance were assessed to remain within assigned band.

8.7.4 Test data

Table 8.7-1: Frequency error results

Temperature, °C	Voltage, V _{DC}	Frequency error, Hz
-40	48.0	1.2446
-30	48.0	1.3706
-20	48.0	0.7746
-10	48.0	-1.6790
0	48.0	-1.9845
+10	48.0	1.2892
+20	40.8	-0.8314
+20	48.0	1.6620
+20	55.2	-1.6908
+30	48.0	-0.7196
+40	48.0	-0.7187
+50	48.0	-1.4485
+55	48.0	-1.2373

Max negative drift: -1.9845 Hz, Max positive drift: +1.6620 Hz.

8.8 Frequency stability (Band 2/25)

8.8.1 Definitions and limits

FCC 24.235:

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

RSS-133, Section 6.3:

The carrier frequency shall not depart from the reference frequency, in excess of ± 2.5 ppm for mobile stations and ± 1.0 ppm for base stations.

In lieu of meeting the above stability values, the test report may show that the frequency stability is sufficient to ensure that the emission bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

8.8.2 Test summary

Test date	May 26, 2021
Test engineer	Andrey Adelberg

8.8.3 Observations, settings and special notes

Testing was performed per ANSI C63.26 Paragraphs 5.6.3, 5.6.4 and 5.6.5 methods.
 26 dBc points including frequency tolerance were assessed to remain within assigned band. The maximum allowed drift (± 1.0 ppm) is ± 1935 Hz

8.8.4 Test data

Table 8.8-1: Frequency error results

Temperature, °C	Voltage, V _{DC}	Frequency error, Hz
-40	48.0	-1.0864
-30	48.0	0.9849
-20	48.0	1.4603
-10	48.0	-1.1015
0	48.0	1.3866
+10	48.0	-0.9694
+20	40.8	1.4518
+20	48.0	-1.0841
+20	55.2	-0.7295
+30	48.0	0.9468
+40	48.0	1.3425
+50	48.0	1.0400
+55	48.0	1.1734

Max negative drift: -1.1015 Hz, Max positive drift: +1.4603 Hz.

8.9 Occupied bandwidth (Band 66)

8.9.1 Definitions and limits

FCC §2.1049:

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

RSS-Gen, 6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

8.9.2 Test summary

Test date	May 13, 2021
Test engineer	Andrey Adelberg

8.9.3 Observations, settings and special notes

Testing was performed per ANSI C63.26 Paragraphs 5.4.3 and 5.4.4 methods.

Spectrum analyzer settings:

Detector mode	Peak
Resolution bandwidth	≥1 % of EBW
Video bandwidth	RBW × 3
Trace mode	Max Hold

8.9.4 Test data

Table 8.9-1: Occupied bandwidth results for LTE 5 MHz channel

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
5 MHz, Low channel	2112.5	4.800	4.478
5 MHz, Mid channel	2155.0	4.790	4.478
5 MHz, Top channel	2197.5	4.790	4.478
5 MHz with guard-band (IB), Low channel	2112.5	4.750	4.483
5 MHz with guard-band (IB), Mid channel	2155.0	4.750	4.483
5 MHz with guard-band (IB), Top channel	2197.5	4.760	4.479

Table 8.9-2: Occupied bandwidth results for LTE 10 MHz channel

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
10 MHz, Low channel	2115.0	9.590	8.959
10 MHz, Mid channel	2155.0	9.510	8.959
10 MHz, Top channel	2195.0	9.550	8.959
10 MHz with IoT, Low channel	2115.0	9.670	9.185
10 MHz with IoT, Mid channel	2155.0	9.690	9.167
10 MHz with IoT, Top channel	2195.0	9.690	9.183

Test data, continued

Table 8.9-3: Occupied bandwidth results for LTE 15 MHz channel

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
15 MHz, Low channel	2117.5	14.390	13.454
15 MHz, Mid channel	2155.0	14.240	13.476
15 MHz, Top channel	2192.5	14.330	13.449
15 MHz with IoT, Low channel	2117.5	14.560	13.748
15 MHz with IoT, Mid channel	2155.0	14.480	13.755
15 MHz with IoT, Top channel	2192.5	14.600	13.752

Table 8.9-4: Occupied bandwidth results for LTE 20 MHz channel

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
20 MHz, Low channel	2120.0	19.140	17.881
20 MHz, Mid channel	2155.0	18.980	17.885
20 MHz, Top channel	2190.0	18.940	17.867
20 MHz with IoT, Low channel	2120.0	19.220	18.160
20 MHz with IoT, Mid channel	2155.0	19.180	18.138
20 MHz with IoT, Top channel	2190.0	19.300	18.156

Table 8.9-5: Occupied bandwidth results for NR 5 MHz channel

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
5 MHz, Low channel	2112.5	4.790	4.477
5 MHz, Mid channel	2155.0	4.790	4.473
5 MHz, Top channel	2197.5	4.790	4.472

Table 8.9-6: Occupied bandwidth results for NR 10 MHz channel

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
10 MHz, Low channel	2115.0	9.810	9.265
10 MHz, Mid channel	2155.0	9.790	9.261
10 MHz, Top channel	2195.0	9.810	9.274

Table 8.9-7: Occupied bandwidth results for NR 15 MHz channel

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
15 MHz, Low channel	2117.5	14.780	14.094
15 MHz, Mid channel	2155.0	14.740	14.108
15 MHz, Top channel	2192.5	14.740	14.084

Table 8.9-8: Occupied bandwidth results for NR 20 MHz channel

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
20 MHz, Low channel	2120.0	19.780	18.924
20 MHz, Mid channel	2155.0	19.780	18.901
20 MHz, Top channel	2190.0	19.740	18.903

Table 8.9-9: Occupied bandwidth results for WCDMA

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
Low channel	2112.4	4.630	4.177
Mid channel	2132.6	4.640	4.149
Top channel	2152.6	4.640	4.196

Test data, continued

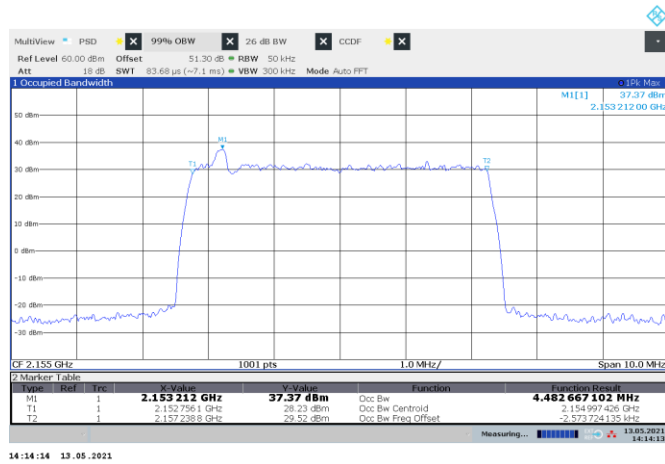


Figure 8.9-1: 99% Occupied bandwidth sample plot for LTE 5 MHz channel

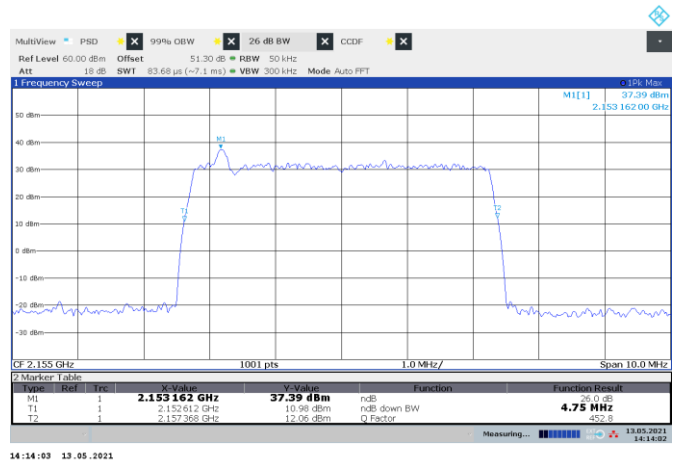


Figure 8.9-2: 26 dB bandwidth sample plot for LTE 5 MHz channel

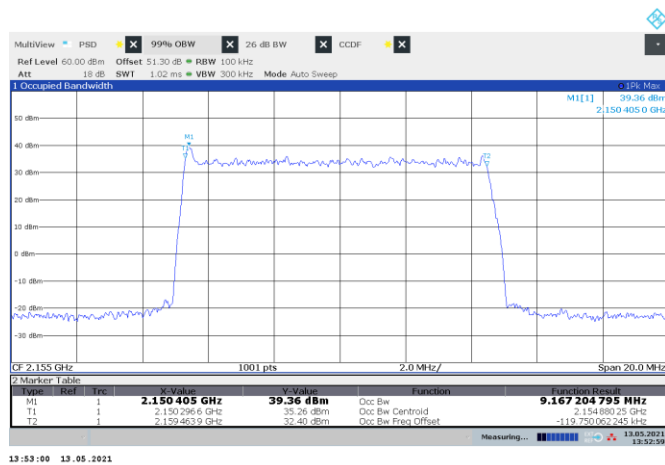


Figure 8.9-3: 99% Occupied bandwidth sample plot for LTE 10 MHz channel



Figure 8.9-4: 26 dB bandwidth sample plot for LTE 10 MHz channel

Test data, continued

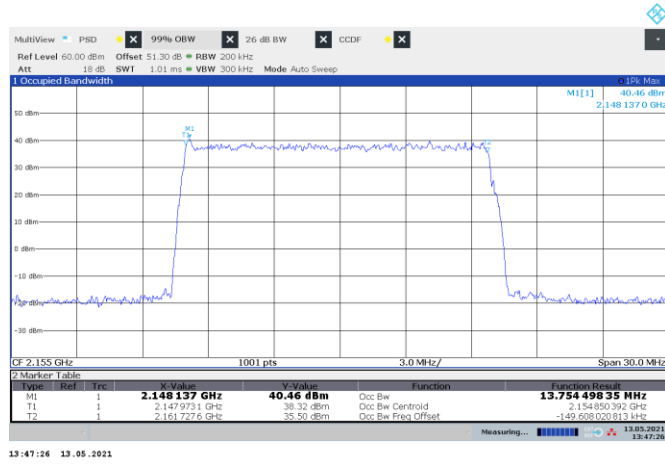


Figure 8.9-5: 99% Occupied bandwidth sample plot for LTE 15 MHz channel

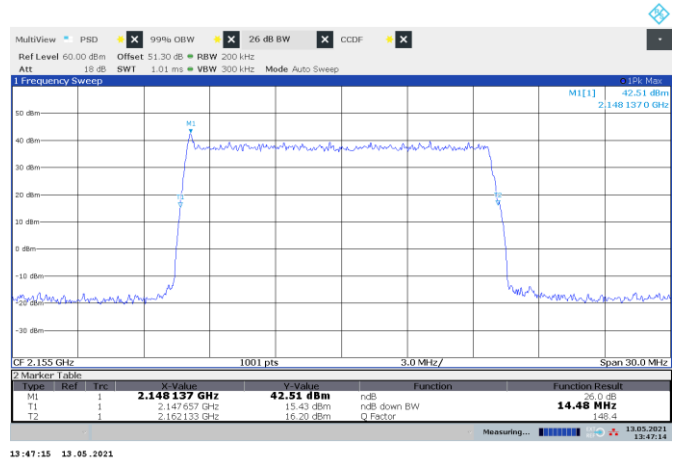


Figure 8.9-6: 26 dB bandwidth sample plot for LTE 15 MHz channel

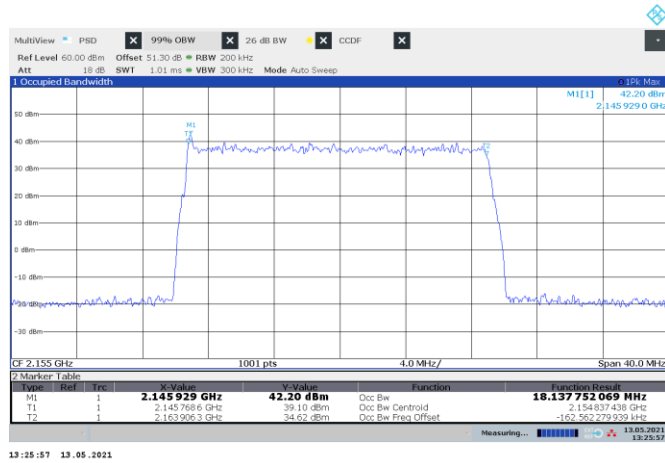


Figure 8.9-7: 99% Occupied bandwidth sample plot for LTE 20 MHz channel

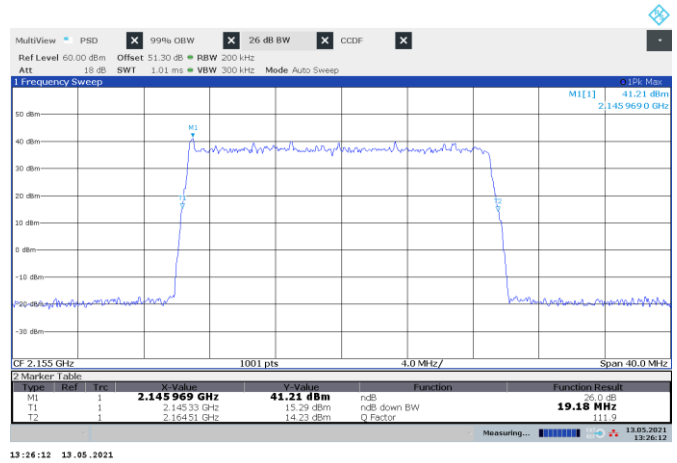


Figure 8.9-8: 26 dB bandwidth sample plot for LTE 20 MHz channel

Test data, continued

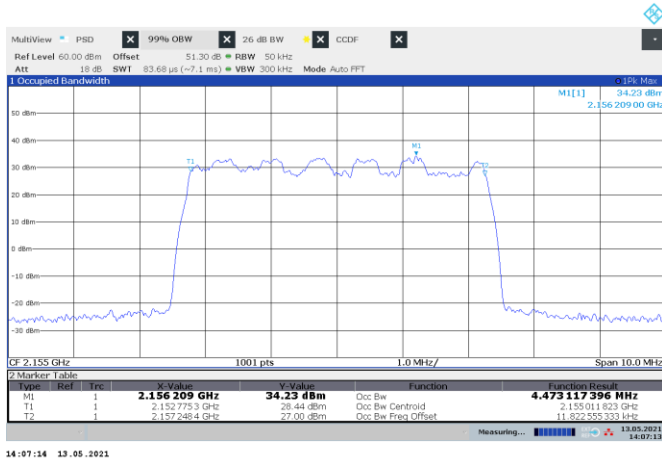


Figure 8.9-9: 99% Occupied bandwidth sample plot for NR 5 MHz channel



Figure 8.9-10: 26 dB bandwidth sample plot for NR 5 MHz channel



Figure 8.9-11: 99% Occupied bandwidth sample plot for NR 10 MHz channel

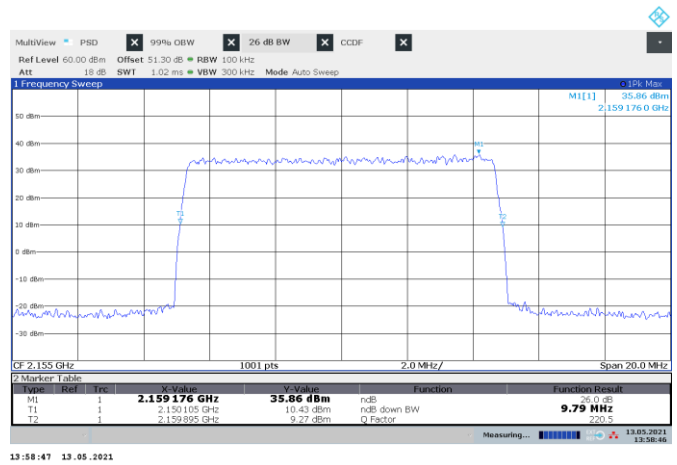


Figure 8.9-12: 26 dB bandwidth sample plot for NR 10 MHz channel

Test data, continued



Figure 8.9-13: 99% Occupied bandwidth sample plot for NR 15 MHz channel

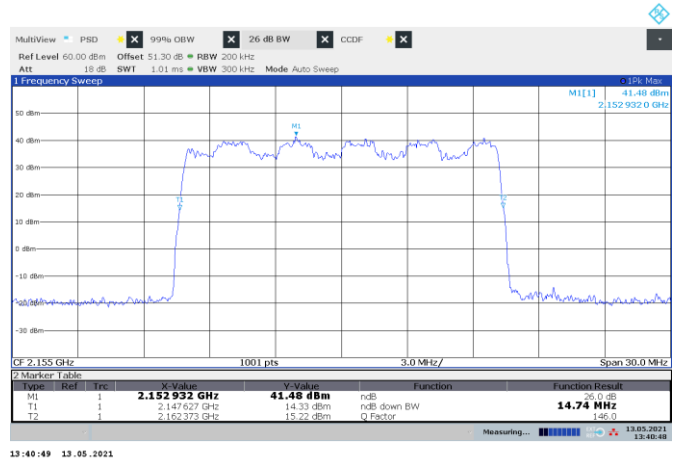


Figure 8.9-14: 26 dB bandwidth sample plot for NR 15 MHz channel

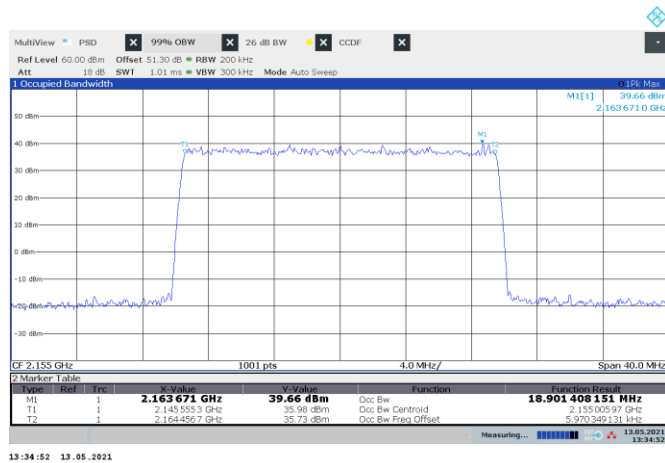


Figure 8.9-15: 99% Occupied bandwidth sample plot for NR 20 MHz channel



Figure 8.9-16: 26 dB bandwidth sample plot for NR 20 MHz channel

Test data, continued

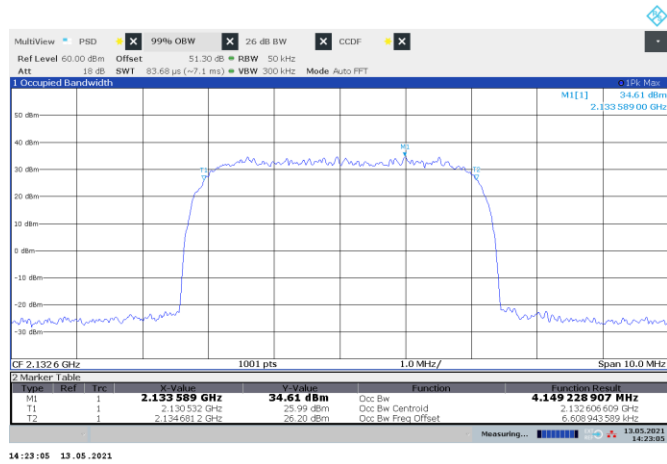


Figure 8.9-17: 99% Occupied bandwidth sample plot for WCDMA

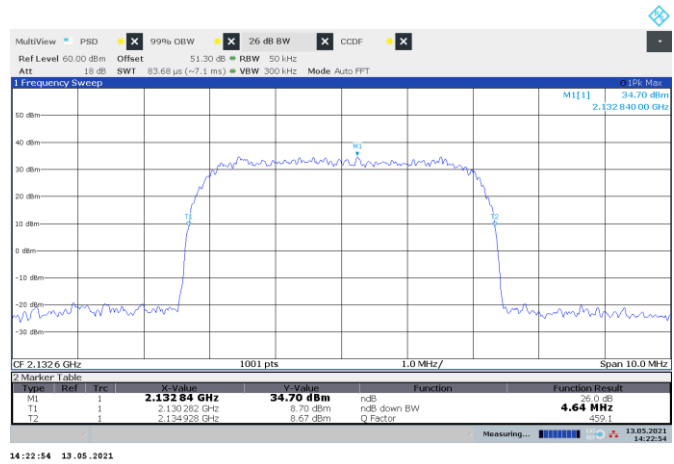


Figure 8.9-18: 26 dB bandwidth sample plot for WCDMA

8.10 Occupied bandwidth (Band 2/25)

8.10.1 Definitions and limits

FCC §2.1049:

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

RSS-Gen, 6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

8.10.2 Test summary

Test date	May 13, 2021
Test engineer	Andrey Adelberg

8.10.3 Observations, settings and special notes

Testing was performed per ANSI C63.26 Paragraphs 5.4.3 and 5.4.4 methods.

Spectrum analyzer settings:

Detector mode	Peak
Resolution bandwidth	≥1 % of EBW
Video bandwidth	RBW × 3
Trace mode	Max Hold

8.10.4 Test data

Table 8.10-1: Occupied bandwidth results for LTE 5 MHz channel

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
5 MHz, Low channel	1932.5	4.800	4.475
5 MHz, Mid channel	1962.5	4.800	4.480
5 MHz, Top channel	1992.5	4.800	4.479
5 MHz with guard-band (IB), Low channel	1932.5	4.740	4.480
5 MHz with guard-band (IB), Mid channel	1962.5	4.760	4.482
5 MHz with guard-band (IB), Top channel	1992.5	4.750	4.479

Table 8.10-2: Occupied bandwidth results for LTE 10 MHz channel

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
10 MHz, Low channel	1935.0	9.530	8.947
10 MHz, Mid channel	1962.5	9.510	8.953
10 MHz, Top channel	1990.0	9.570	8.971
10 MHz with IoT, Low channel	1935.0	9.750	9.176
10 MHz with IoT, Mid channel	1962.5	9.650	9.180
10 MHz with IoT, Top channel	1990.0	9.630	9.184

Test data, continued

Table 8.10-3: Occupied bandwidth results for LTE 15 MHz channel

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
15 MHz, Low channel	1937.5	14.420	13.453
15 MHz, Mid channel	1962.5	14.300	13.458
15 MHz, Top channel	1987.5	14.300	13.467
15 MHz with IoT, Low channel	1937.5	14.510	13.752
15 MHz with IoT, Mid channel	1962.5	14.560	13.758
15 MHz with IoT, Top channel	1987.5	14.600	13.759

Table 8.10-4: Occupied bandwidth results for LTE 20 MHz channel

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
20 MHz, Low channel	1940.0	19.060	17.860
20 MHz, Mid channel	1962.5	19.180	17.889
20 MHz, Top channel	1985.0	19.140	17.888
20 MHz with IoT, Low channel	1940.0	19.300	18.159
20 MHz with IoT, Mid channel	1962.5	19.100	18.176
20 MHz with IoT, Top channel	1985.0	19.180	18.153

Table 8.10-5: Occupied bandwidth results for NR 5 MHz channel

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
5 MHz, Low channel	1932.5	4.790	4.472
5 MHz, Mid channel	1962.5	4.790	4.475
5 MHz, Top channel	1992.5	4.790	4.474

Table 8.10-6: Occupied bandwidth results for NR 10 MHz channel

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
10 MHz, Low channel	1935.0	9.710	9.194
10 MHz, Mid channel	1962.5	9.730	9.182
10 MHz, Top channel	1990.0	9.750	9.207

Table 8.10-7: Occupied bandwidth results for NR 15 MHz channel

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
15 MHz, Low channel	1937.5	14.710	14.105
15 MHz, Mid channel	1962.5	14.740	14.121
15 MHz, Top channel	1987.5	14.740	14.097

Table 8.10-8: Occupied bandwidth results for NR 20 MHz channel

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
20 MHz, Low channel	1940.0	19.660	18.912
20 MHz, Mid channel	1962.5	19.820	18.924
20 MHz, Top channel	1985.0	19.780	18.896

Test data, continued

Table 8.10-9: Occupied bandwidth results for GSM

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
Low channel	1930.2	0.315	0.246
Mid channel	1960.0	0.316	0.244
Top channel	1989.8	0.313	0.245

Table 8.10-10: Occupied bandwidth results for CDMA

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
Low channel	1931.25	1.370	1.246
Mid channel	1960.00	1.370	1.252
Top channel	1988.75	1.370	1.247

Table 8.10-11: Occupied bandwidth results for WCDMA

Remarks	Frequency, MHz	26 dB BW, MHz	99% OBW, MHz
Low channel	1932.4	4.640	4.147
Mid channel	1960.0	4.640	4.171
Top channel	1987.6	4.630	4.164



Figure 8.10-1: 99% Occupied bandwidth sample plot for LTE 5 MHz channel



Figure 8.10-2: 26 dB bandwidth sample plot for LTE 5 MHz channel

Test data, continued

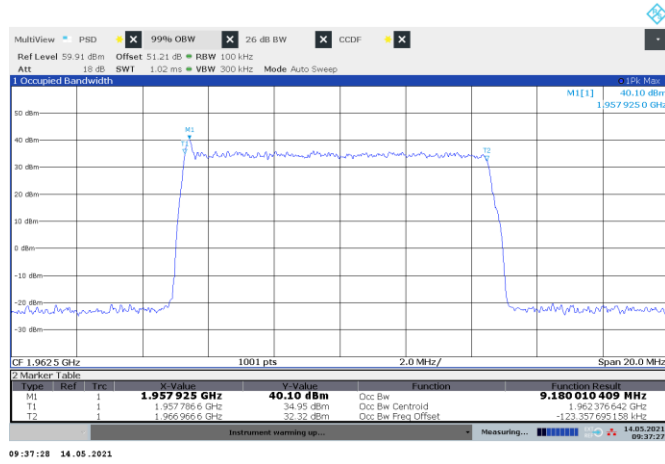


Figure 8.10-3: 99% Occupied bandwidth sample plot for LTE 10 MHz channel

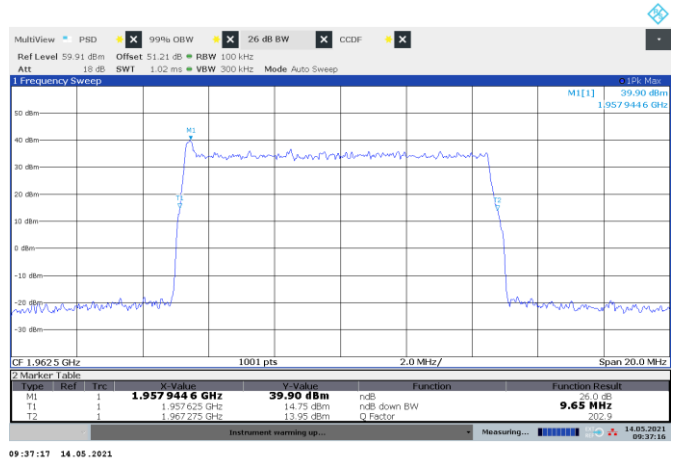


Figure 8.10-4: 26 dB bandwidth sample plot for LTE 10 MHz channel

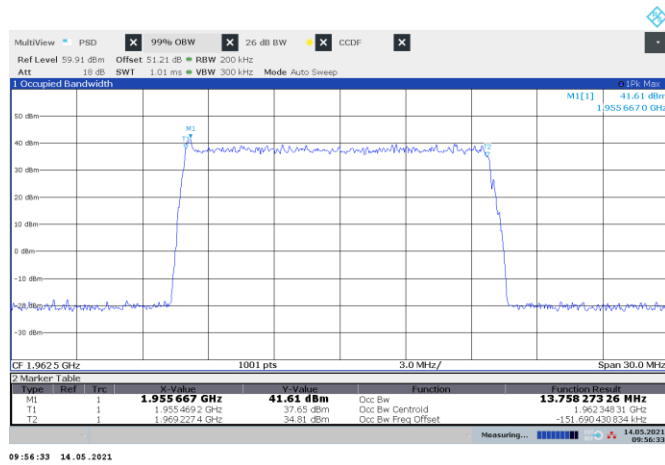


Figure 8.10-5: 99% Occupied bandwidth sample plot for LTE 15 MHz channel

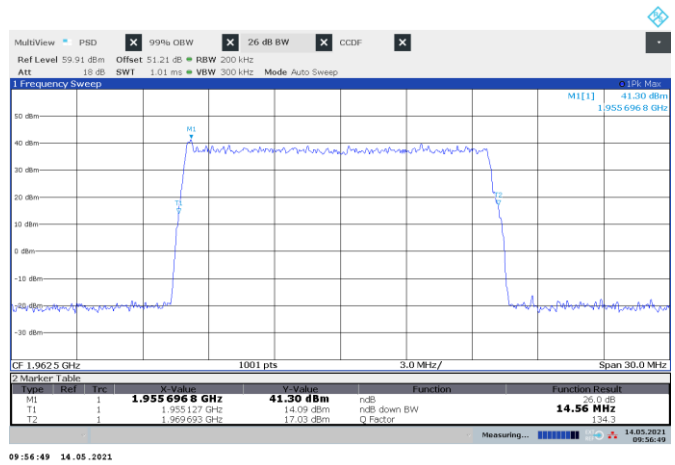


Figure 8.10-6: 26 dB bandwidth sample plot for LTE 15 MHz channel

Test data, continued

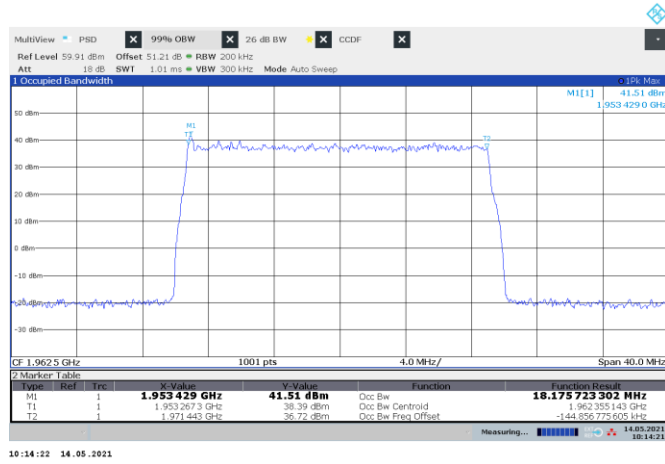


Figure 8.10-7: 99% Occupied bandwidth sample plot for LTE 20 MHz channel

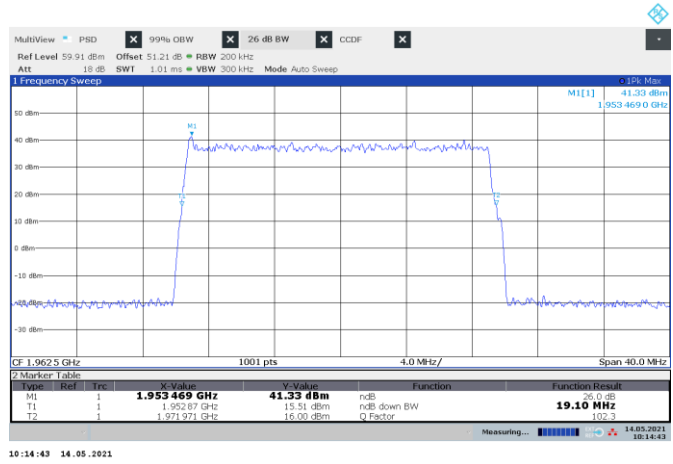


Figure 8.10-8: 26 dB bandwidth sample plot for LTE 20 MHz channel

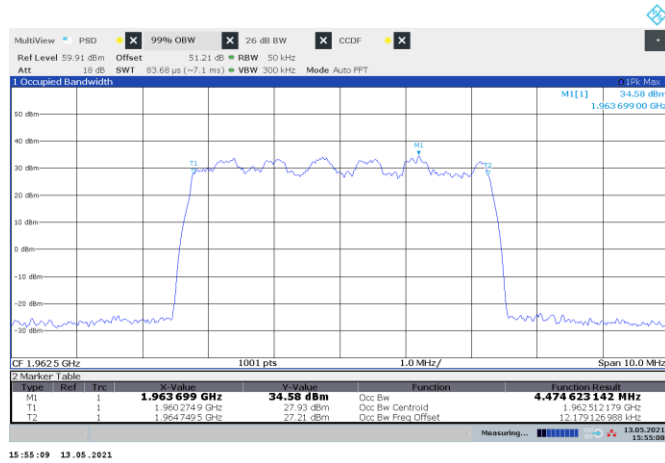


Figure 8.10-9: 99% Occupied bandwidth sample plot for NR 5 MHz channel



Figure 8.10-10: 26 dB bandwidth sample plot for NR 5 MHz channel

Test data, continued

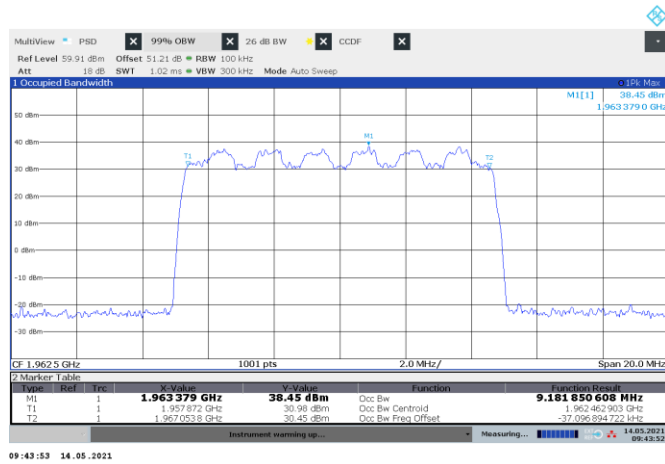


Figure 8.10-11: 99% Occupied bandwidth sample plot for NR 10 MHz channel



Figure 8.10-12: 26 dB bandwidth sample plot for NR 10 MHz channel

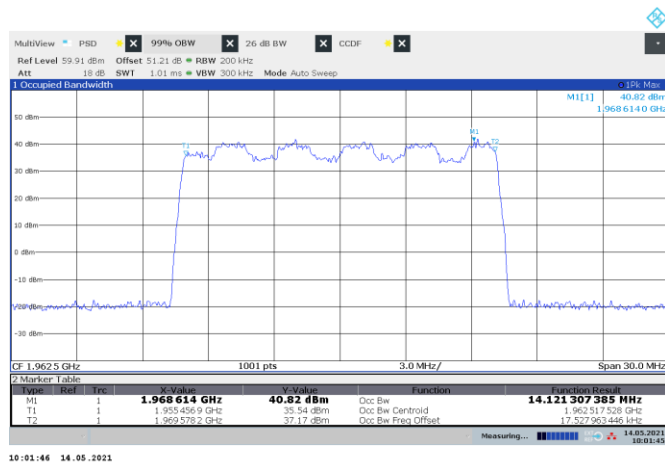


Figure 8.10-13: 99% Occupied bandwidth sample plot for NR 15 MHz channel

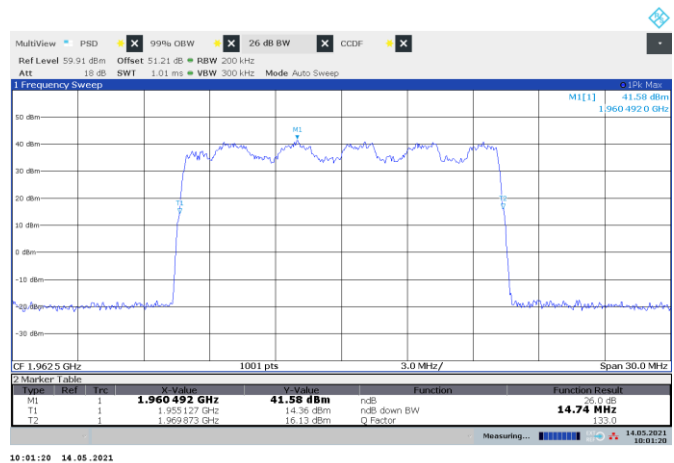


Figure 8.10-14: 26 dB bandwidth sample plot for NR 15 MHz channel