



Figure 8.3-9: Conducted spurious emissions of LTE 15 MHz top channel, single carrier operation



Figure 8.3-10: Conducted spurious emissions of LTE 20 MHz low channel, single carrier



Figure 8.3-11: Conducted spurious emissions of LTE 20 MHz mid channel, single carrier operation



Figure 8.3-12: Conducted spurious emissions of LTE 20 MHz top channel, single carrier operation





Figure 8.3-13: Conducted spurious emissions of LTE 5 MHz, three-carrier operation (non-contiguous)

Figure 8.3-14: Conducted spurious emissions of LTE 5 MHz four contiguous bottom channels, four-carrier operation



Figure 8.3-15: Conducted spurious emissions of LTE 5 MHz four contiguous mid channels, four-carrier operation

Figure 8.3-16: Conducted spurious emissions of LTE 5 MHz four contiguous top channels, four-carrier operation





Figure 8.3-17: Conducted spurious emissions of LTE 10 MHz two noncontiguous channels, two-carrier operation

Figure 8.3-18: Conducted spurious emissions of LTE 10 MHz two contiguous bottom channels, two-carrier operation



Figure 8.3-19: Conducted spurious emissions of LTE 10 MHz two contiguous mid channels, two-carrier operation

Figure 8.3-20: Conducted spurious emissions of LTE 10 MHz two contiguous top channels, two-carrier operation





Figure 8.3-21: Conducted spurious emissions of LTE 15 MHz two non-contiguous channels, two-carrier operation



Figure 8.3-22: Conducted spurious emissions of LTE 15 MHz two contiguous top channels (sample), two-carrier operation



Figure 8.3-23: Conducted spurious emissions of LTE 20 MHz two noncontiguous channels, two-carrier operation



Figure 8.3-24: Conducted spurious emissions of LTE 20 MHz two contiguous top channels (sample), two-carrier operation



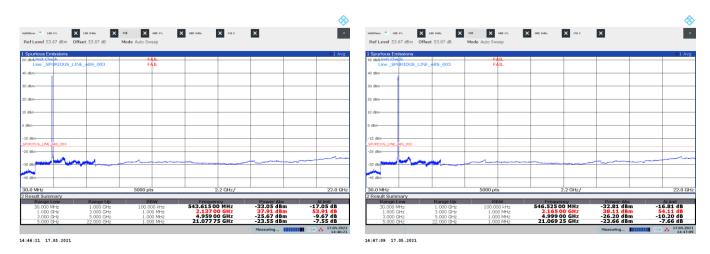


Figure 8.3-25: Conducted spurious emissions of LTE 10 MHz three contiguous bottom channels, three-carrier operation

Figure 8.3-26: Conducted spurious emissions of LTE 10 MHz three contiguous mid channels, three-carrier operation



Figure 8.3-27: Conducted spurious emissions of LTE 10 MHz three contiguous top channels, three-carrier operation





Figure 8.3-28: Conducted spurious emissions of NR 5 MHz low channel, single-carrier operation



Figure 8.3-29: Conducted spurious emissions of NR 5 MHz mid channel, single-carrier operation



Figure 8.3-30: Conducted spurious emissions of NR 5 MHz top channel, single-carrier operation



Figure 8.3-31: Conducted spurious emissions of NR 10 MHz low channel, single-carrier operation





| Securious Emissions | X | 150 mm | X | 150

Figure 8.3-32: Conducted spurious emissions of NR 10 MHz mid channel, single-carrier operation

Figure 8.3-33: Conducted spurious emissions of NR 10 MHz top channel, single-carrier operation



Figure 8.3-34: Conducted spurious emissions of NR 15 MHz low channel, single-carrier operation



Figure 8.3-35: Conducted spurious emissions of NR 15 MHz mid channel, single-carrier operation





Figure 8.3-36: Conducted spurious emissions of NR 15 MHz top channel, single-carrier operation



Figure 8.3-37: Conducted spurious emissions of NR 20 MHz low channel, single-carrier operation



Figure 8.3-38: Conducted spurious emissions of NR 20 MHz mid channel, single-carrier operation



Figure 8.3-39: Conducted spurious emissions of NR 20 MHz top channel, single-carrier operation





X LIE Deb X 656 X USE 1%
Offset 53.87 dB Mode Auto Sween Frequency 551.37500 MHz 3.623 00 GHz 21.060 75 GHz -9.48 dB -7.60 dB -25.48 dBm -23.60 dBm 15:05:59 17.05.2021

X DOE 1986 X CSE 2

Figure 8.3-40: Conducted spurious emissions of NR 5 MHz three noncontiguous channels, three-carrier operation

Figure 8.3-41: Conducted spurious emissions of NR 5 MHz four contiguous bottom channels, four-carrier operation



Figure 8.3-42: Conducted spurious emissions of NR 5 MHz four contiguous mid channels, four-carrier operation



Figure 8.3-43: Conducted spurious emissions of NR 5 MHz four contiguous top channels, four-carrier operation





| Section | Sect

Figure 8.3-44: Conducted spurious emissions of NR 10 MHz two noncontiguous channels, two-carrier operation

Figure 8.3-45: Conducted spurious emissions of NR 10 MHz two contiguous bottom channels, two-carrier operation



| Sparrous | Let is. | X | Let

Figure 8.3-46: Conducted spurious emissions of NR 10 MHz two contiguous mid channels, two-carrier operation

Figure 8.3-47: Conducted spurious emissions of NR 10 MHz two contiguous top channels, two-carrier operation





| Section | Sect

Figure 8.3-48: Conducted spurious emissions of NR 15 MHz two noncontiguous channels, two-carrier operation

Figure 8.3-49: Conducted spurious emissions of NR 20 MHz two noncontiguous channels, two-carrier operation





Figure 8.3-50: Conducted spurious emissions of NR 10 MHz three contiguous bottom channels, three-carrier operation

Figure 8.3-51: Conducted spurious emissions of NR 10 MHz three contiguous mid channels, three-carrier operation



Figure 8.3-52: Conducted spurious emissions of NR 10 MHz three contiguous top channels, three-carrier operation





Line_SPARIOUS_LINE_48S_003 FAIL

0 dbn

10 dbn

10 dbn

11 dbn

12 dbn

13 dbn

13 dbn

14 dbn

15 dbn

16 dbn

17 dbn

18 dbn

18 dbn

19 dbn

19 dbn

10 dbn

X DOE 1986 X CSE 2

X LIE PHU X 696 X UIE 1%

Offset 53,87 dB Mode Auto Sween

Figure 8.3-53: Conducted spurious emissions of WCDMA low channel, singlecarrier operation

Figure 8.3-54: Conducted spurious emissions of WCDMA mid channel, single-carrier operation



Figure 8.3-55: Conducted spurious emissions of WCDMA top channel, single-carrier operation



Figure 8.3-56: Conducted spurious emissions of multi-RAT operation, 4×LTE 5 MHz + NR 5 MHz + WCDMA (bottom)





| Source | Let 16 | 20 de | 20

Figure 8.3-57: Conducted spurious emissions of multi-RAT operation, 4×LTE 5 MHz + NR 5 MHz + WCDMA (mid)

Figure 8.3-58: Conducted spurious emissions of multi-RAT operation, 4×LTE 5 MHz + NR 5 MHz + WCDMA (top)



| Section | Sect

Figure 8.3-59: Conducted spurious emissions of multi-RAT operation, LTE 5

MHz and WCDMA and NR 10 MHz

Figure 8.3-60: Conducted spurious emissions of multi-RAT operation, LTE 10

MHz and NR 5 MHz and WCDMA (bottom)





Figure 8.3-61: Conducted spurious emissions of multi-RAT operation, LTE 10
MHz and NR 5 MHz and WCDMA (mid)

Figure 8.3-62: Conducted spurious emissions of multi-RAT operation, LTE 10 MHz and NR 5 MHz and WCDMA (top)



Figure 8.3-63: Conducted spurious emissions of multi-RAT operation, LTE 10 MHz and NR 10 MHz



Figure 8.3-64: Conducted spurious emissions of multi-RAT operation, LTE 10
MHz and WCDMA and NR 5 MHz





| Spunious Principles | See |

Figure 8.3-65: Conducted spurious emissions of multi-RAT operation, LTE 15 MHz + NR 5 MHz (bottom)

Figure 8.3-66: Conducted spurious emissions of multi-RAT operation, LTE 15 MHz + NR 5 MHz (mid)



Figure 8.3-67: Conducted spurious emissions of multi-RAT operation, LTE 15

MHz + NR 5 MHz (top)



Figure 8.3-68: Conducted spurious emissions of multi-RAT operation, LTE 15 MHz + WCDMA (bottom)





| Source | 181 to | 1

Figure 8.3-69: Conducted spurious emissions of multi-RAT operation, LTE 15 MHz + WCDMA (mid)

Figure 8.3-70: Conducted spurious emissions of multi-RAT operation, LTE 15 MHz + WCDMA (top)



| Section | Sect

Figure 8.3-71: Conducted spurious emissions of multi-RAT operation, NR 5 MHz and 4×LTE 5 MHz and WCDMA (bottom)

Figure 8.3-72: Conducted spurious emissions of multi-RAT operation, NR 5
MHz and 4×LTE 5 MHz and WCDMA (top)





| Total | Tota

Figure 8.3-73: Conducted spurious emissions of multi-RAT operation, NR 10 MHz and LTE 5 MHz and WCDMA (low)

Figure 8.3-74: Conducted spurious emissions of multi-RAT operation, NR 10
MHz and LTE 5 MHz and WCDMA (mid)



X LEE D-Htz

X (SE X

Figure 8.3-75: Conducted spurious emissions of multi-RAT operation, NR 10 MHz and LTE 5 MHz and WCDMA (top)

Figure 8.3-76: Conducted spurious emissions of multi-RAT operation, NR 15 MHz + LTE 5 MHz (bottom)

22.0 GHz





Figure 8.3-77: Conducted spurious emissions of multi-RAT operation, NR 15 MHz + LTE 5 MHz (mid)

Figure 8.3-78: Conducted spurious emissions of multi-RAT operation, NR 15 MHz + LTE 5 MHz (top)

X LEE Delts X 656 X



Figure 8.3-79: Conducted spurious emissions of multi-RAT operation, NR 15 MHz + WCDMA (bottom)

Figure 8.3-80: Conducted spurious emissions of multi-RAT operation, NR 15 MHz + WCDMA (mid)





Figure 8.3-81: Conducted spurious emissions of multi-RAT operation, NR 15 MHz + WCDMA (top)

Figure 8.3-82: Conducted spurious emissions of multi-RAT operation, WCDMA and LTE 10 MHz and NR 5 MHz (bottom)



Figure 8.3-83: Conducted spurious emissions of multi-RAT operation, WCDMA and LTE 15 MHz



Figure 8.3-84: Conducted spurious emissions of multi-RAT operation, WCDMA and NR 5 MHz and 4×LTE 5 MHz



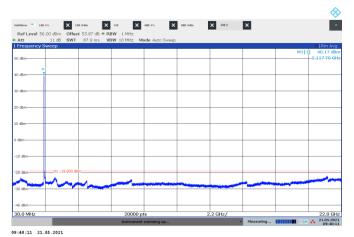


Figure 8.3-85: Conducted spurious emissions of multi-RAT operation, WCDMA and NR 10 MHz and LTE 5 MHz



Figure 8.3-86: Conducted spurious emissions of multi-RAT operation, WCDMA and NR 15 MHz (non-contiguous)



Figure 8.3-87: Conducted spurious emissions of multi-RAT operation, WCDMA and NR 15 MHz (contiguous)



Figure 8.3-88: Conducted spurious emissions of multi-RAT operation, WCDMA + LTE 15 MHz and NR 5 MHz and NR 5 MHz + LTE 5 MHz + NR 5 MHz

On the plots below the measured Tx1 (Ref) value in the "Power" column must be -19 dBm and lower.



Figure 8.3-89: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Single-carrier operation
Meas. BW: 1% of EBW Tech.: LTE 5 MHz with IB

Limit: -19 dBm/50 kHz Notes: None

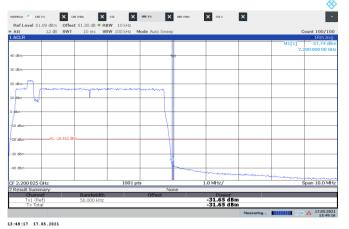


Figure 8.3-91: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Single-carrier operation
Meas. BW: 1% of EBW Tech.: LTE 5 MHz with IB
Limit: -19 dBm/50 kHz Notes: None

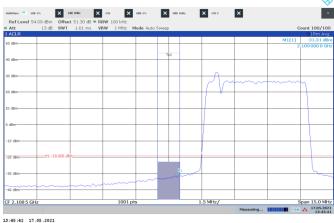
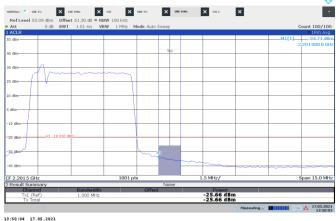


Figure 8.3-90: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Single-carrier operation
Meas. BW: 1 MHz Tech.: LTE 5 MHz with IB

Limit: -19 dBm/MHz Notes: Measured result is < -22 dBm/MHz



 $\textbf{\it Figure 8.3-92:} \ \textit{Conducted emission 1 MHz away from the upper band edge}$

Frequency: 2201 MHz Mode: Single-carrier operation
Meas. BW: 1 MHz Tech.: LTE 5 MHz with IB
Limit: -19 dBm/MHz Notes: None

Report reference ID: 421910-1TRFWL-R1



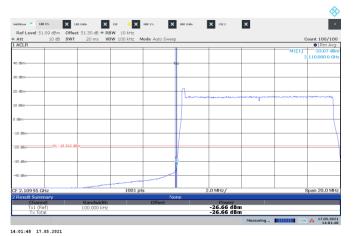


Figure 8.3-93: Conducted emission at the lower band edge

2110 MHz Mode: Single-carrier operation Frequency: LTE 10 MHz with IoT Meas. BW: 1% of EBW Tech.:

Limit: -19 dBm/100 kHz Notes: None

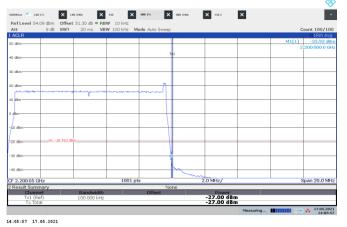


Figure 8.3-95: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Single-carrier operation Meas. BW: 1% of EBW LTE 10 MHz with IoT Tech.: -19 dBm/100 kHz Limit: Notes: None

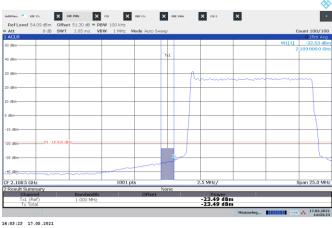


Figure 8.3-94: Conducted emission 1 MHz away from the lower band edge

2109 MHz Single-carrier operation Frequency: Mode: LTE 10 MHz with IoT Meas. BW: 1 MHz Tech.:

Limit: -19 dBm/MHz Notes: None

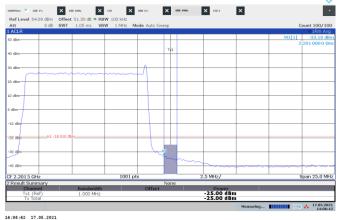
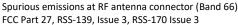


Figure 8.3-96: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Single-carrier operation Meas. BW: 1 MHz LTE 10 MHz with IoT Tech.: −19 dBm/MHz Limit: Notes: None

Report reference ID: 421910-1TRFWL-R1





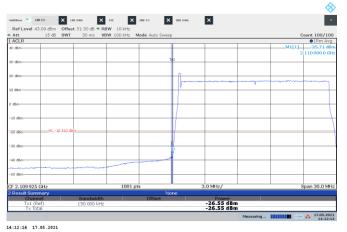


Figure 8.3-97: Conducted emission at the lower band edge

2110 MHz Mode: Single-carrier operation Frequency: LTE 15 MHz with IoT Meas. BW: 1% of EBW Tech.:

Limit: -19 dBm/150 kHz Notes: None

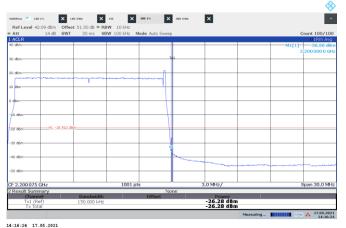
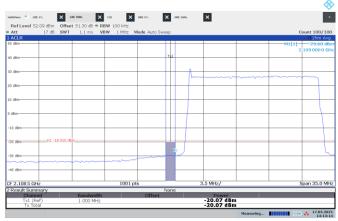


Figure 8.3-99: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Single-carrier operation Meas. BW: 1% of EBW LTE 15 MHz with IoT Tech.: -19 dBm/150 kHz Limit: Notes: None

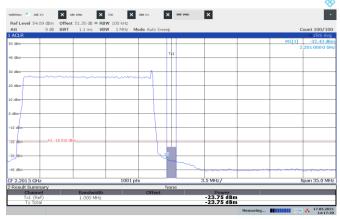


14:13:15 17.05.2021

Figure 8.3-98: Conducted emission 1 MHz away from the lower band edge

2109 MHz Mode: Single-carrier operation Frequency: LTE 15 MHz with IoT Meas. BW: 1 MHz Tech.:

Limit: -19 dBm/MHz Notes: None



14:17:21 17.05.2021

Figure 8.3-100: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Single-carrier operation Meas. BW: 1 MHz LTE 15 MHz with IoT Tech.:

−19 dBm/MHz Limit: Notes: None



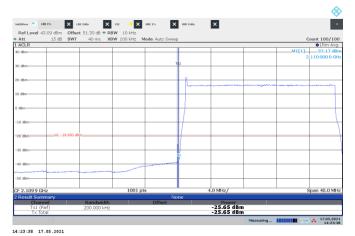


Figure 8.3-101: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Single-carrier operation
Meas. BW: 1% of EBW Tech.: LTE 20 MHz with IoT

Limit: -19 dBm/200 kHz Notes: None

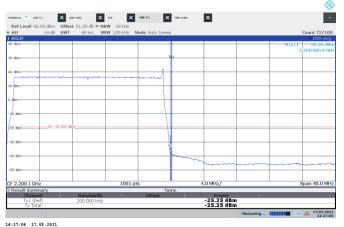
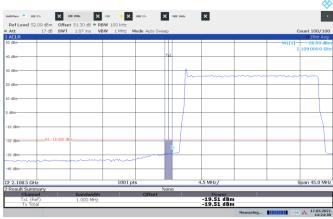


Figure 8.3-103: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Single-carrier operation
Meas. BW: 1% of EBW Tech.: LTE 20 MHz with IoT
Limit: -19 dBm/200 kHz Notes: None

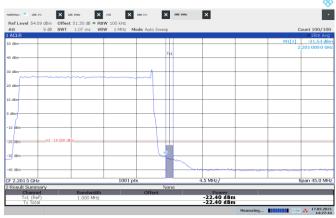


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Figure 8.3-102: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Single-carrier operation Meas. BW: 1 MHz Tech.: LTE 20 MHz with IoT

Limit: -19 dBm/MHz Notes: None



14:27:45 17.05.2021

Figure 8.3-104: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Single-carrier operation
Meas. BW: 1 MHz Tech.: LTE 20 MHz with IoT
Limit: -19 dBm/MHz Notes: None



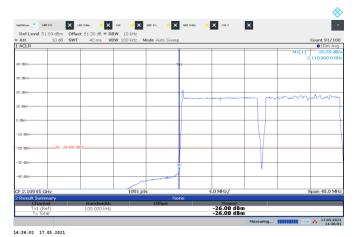


Figure 8.3-105: Conducted emission at the lower band edge

2110 MHz Mode: Multi-carrier operation Frequency: Meas. BW: 1% of EBW Tech.: 2 × LTE 10 MHz with IoT

Limit: -19 dBm/100 kHz Notes:

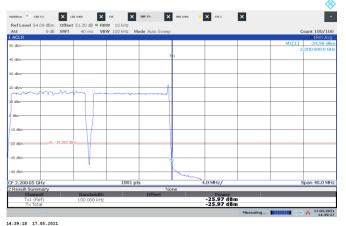
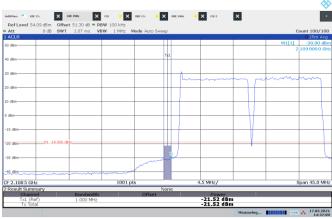


Figure 8.3-107: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation Meas. BW: 1% of EBW 2 × LTE 10 MHz with IoT Tech.:

-19 dBm/100 kHz Limit: Notes: None

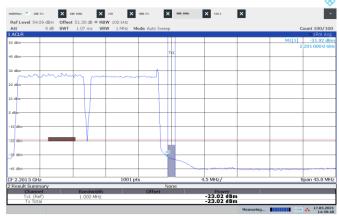


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Figure 8.3-106: Conducted emission 1 MHz away from the lower band edge

2109 MHz Multi-carrier operation Frequency: Mode: Meas. BW: 1 MHz Tech.: 2 × LTE 10 MHz with IoT

Limit: -19 dBm/MHz Notes: None



14:39:48 17.05.2021

Figure 8.3-108: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation Meas. BW: 2 × LTE 10 MHz with IoT 1 MHz Tech.:

−19 dBm/MHz Limit: Notes: None





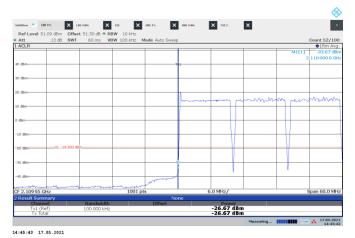


Figure 8.3-109: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
Meas. BW: 1% of EBW Tech.: 3 × LTE 10 MHz with IoT

Limit: -19 dBm/100 kHz Notes: Nor

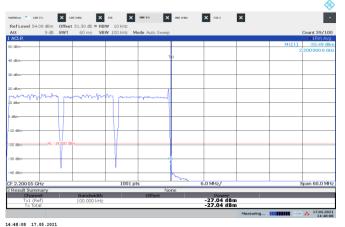
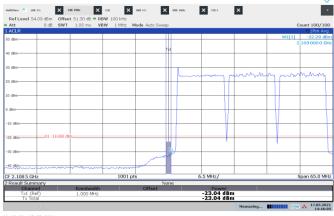


Figure 8.3-111: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation

Meas. BW: 1% of EBW Tech.: 3 × LTE 10 MHz with IoT

Limit: -19 dBm/100 kHz Notes: None

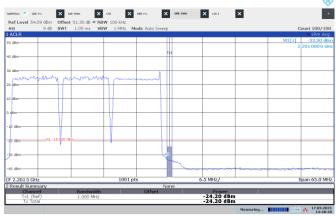


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Figure 8.3-110: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
Meas. BW: 1 MHz Tech.: 3 × LTE 10 MHz with IoT

Limit: -19 dBm/MHz Notes: None



14:48:29 17.05.2021

Figure 8.3-112: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
Meas. BW: 1 MHz Tech.: 3 × LTE 10 MHz with IoT

Limit: -19 dBm/MHz Notes: None





Figure 8.3-113: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation Meas. BW: 1% of EBW Tech.: 4 × LTE 5 MHz with IB

Limit: -19 dBm/50 kHz Notes: No.

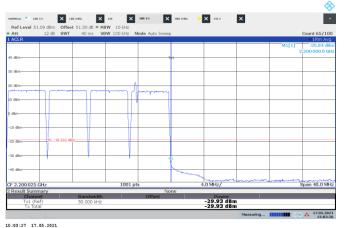
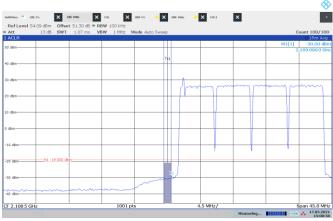


Figure 8.3-115: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
Meas. BW: 1% of EBW Tech.: 4 × LTE 5 MHz with IB
Limit: -19 dBm/50 kHz Notes: None



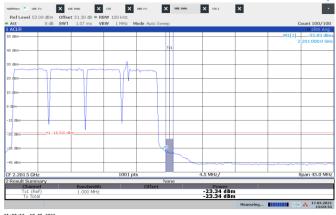
15:00:59 17.05.2021

Figure 8.3-114: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation

Meas. BW: 1 MHz Tech.: 4 × LTE 5 MHz with IB

Limit: -19 dBm/MHz Notes: Measured result is < -21 dBm/MHz



15:03:56 17.05.2021

Figure 8.3-116: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
Meas. BW: 1 MHz Tech.: 4 × LTE 5 MHz with IB
Limit: -19 dBm/MHz Notes: None



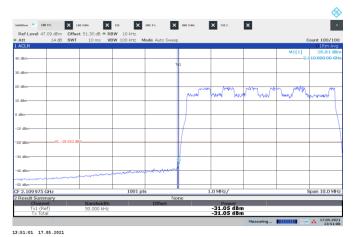


Figure 8.3-117: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Single-carrier operation

Meas. BW: 1% of EBW Tech.: NR 5 MHz Limit: -19 dBm/50 kHz Notes: None



Figure 8.3-119: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Single-carrier operation

Meas. BW: 1% of EBW Tech.: NR 5 MHz
Limit: -19 dBm/50 kHz Notes: None

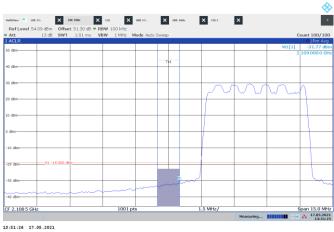


Figure 8.3-118: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Single-carrier operation

Meas. BW: 1 MHz Tech.: NR 5 MHz

Limit: −19 dBm/MHz Notes: Measured result is < 23 dBm/MHz



Figure 8.3-120: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Single-carrier operation

Meas. BW: 1 MHz Tech.: NR 5 MHz Limit: -19 dBm/MHz Notes: None





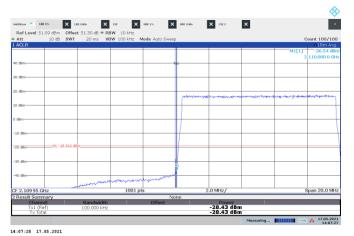


Figure 8.3-121: Conducted emission at the lower band edge

2110 MHz Mode: Frequency: Single-carrier operation Meas. BW:

1% of EBW Tech.: NR 10 MHz Limit: -19 dBm/100 kHz Notes: None

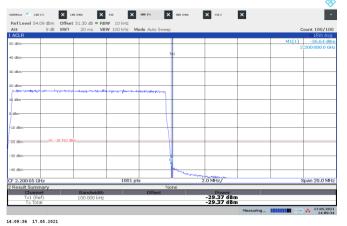


Figure 8.3-123: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Single-carrier operation

Meas. BW: 1% of EBW NR 10 MHz Tech.: -19 dBm/100 kHz Limit: Notes: None

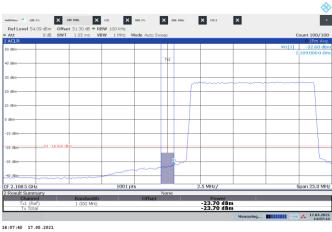


Figure 8.3-122: Conducted emission 1 MHz away from the lower band edge

2109 MHz Single-carrier operation Frequency: Mode:

NR 10 MHz Meas. BW: 1 MHz Tech.: Limit: -19 dBm/MHz Notes: None

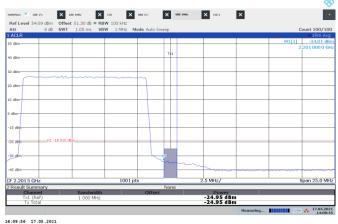


Figure 8.3-124: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Single-carrier operation

Meas. BW: NR 10 MHz 1 MHz Tech.: −19 dBm/MHz Limit: Notes: None