

Test data, continued

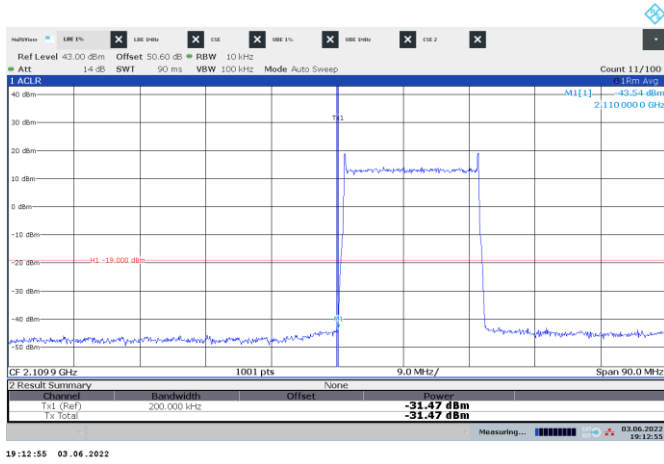


Figure 8.4-63: Conducted emission at the lower band edge

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

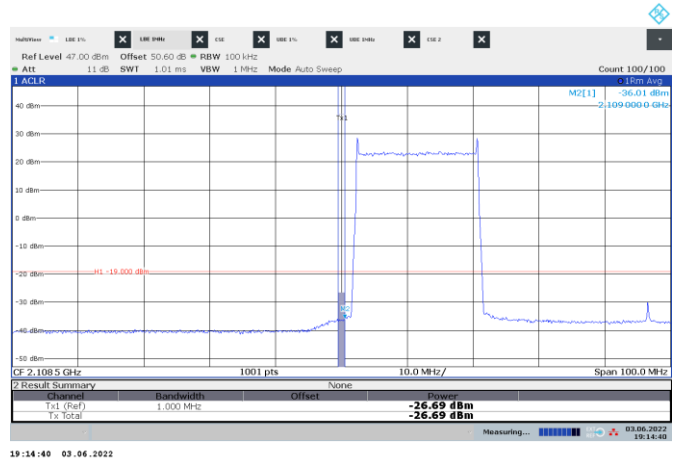


Figure 8.4-64: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Single-carrier operation
 Meas. BW: 1 MHz Tech.: LTE 20 MHz with IoT
 Limit: -19 dBm/MHz Notes: None

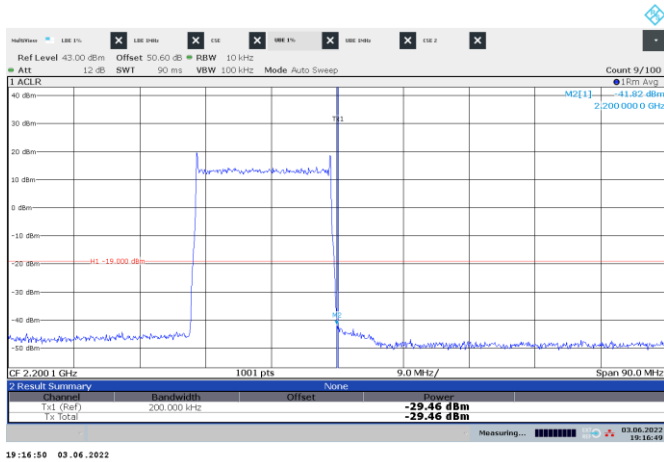


Figure 8.4-65: Conducted emission at the upper band edge

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



Figure 8.4-66: 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

Test data, continued

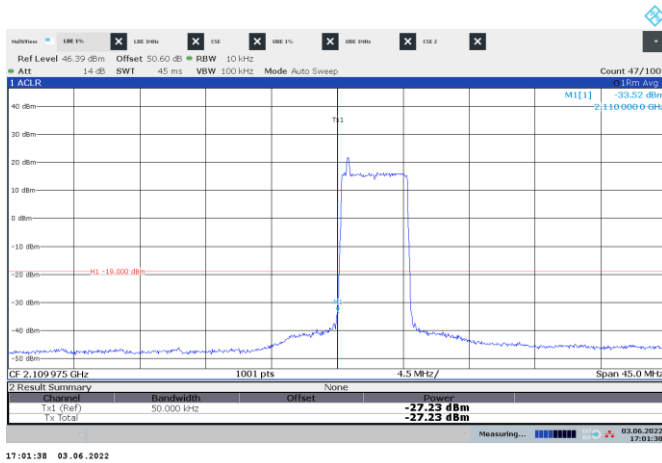


Figure 8.4-67: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 2 x LTE 5 MHz with IoT
 Limit: -19 dBm/50 kHz Notes: None

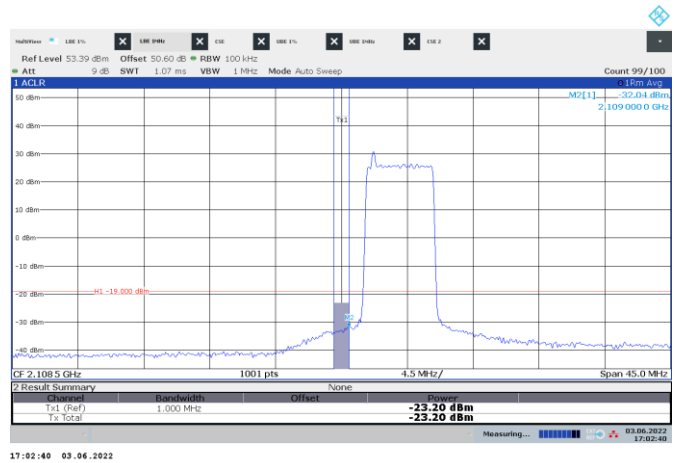


Figure 8.4-68: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 2 x LTE 5 MHz with IoT
 Limit: -19 dBm/MHz Notes: None

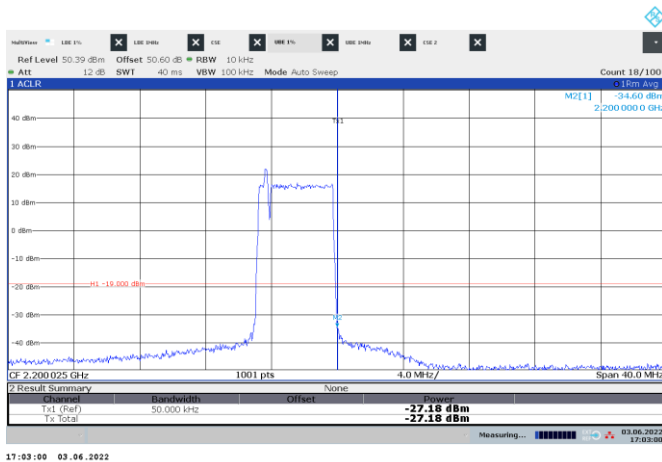


Figure 8.4-69: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 2 x LTE 5 MHz with IoT
 Limit: -19 dBm/50 kHz Notes: None

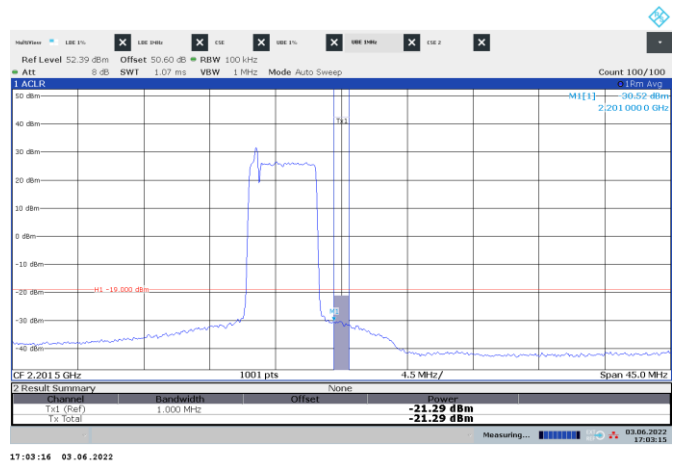


Figure 8.4-70: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 2 x LTE 5 MHz with IoT
 Limit: -19 dBm/MHz Notes: None

Test data, continued

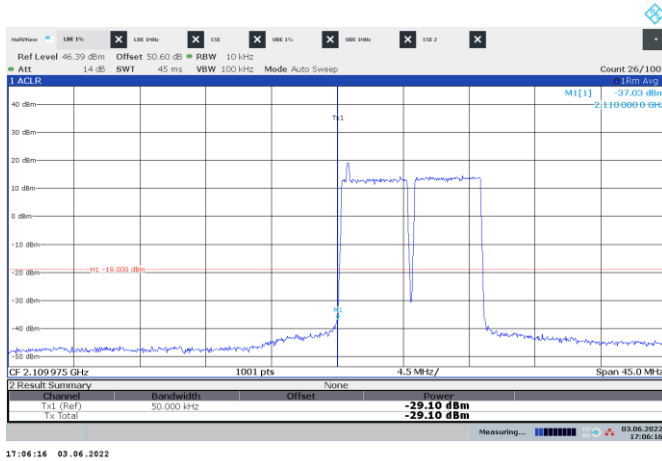


Figure 8.4-71: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 4 x LTE 5 MHz with IoT
 Limit: -19 dBm/50 kHz Notes: None



Figure 8.4-72: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 4 x LTE 5 MHz with IoT
 Limit: -19 dBm/MHz Notes: None

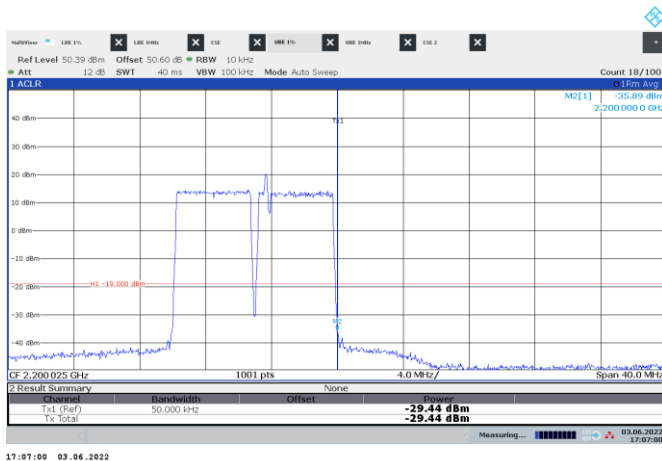


Figure 8.4-73: Conducted emission at the upper band edge

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



Figure 8.4-74: Conducted emission 1 MHz away from the upper band edge

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

Test data, continued

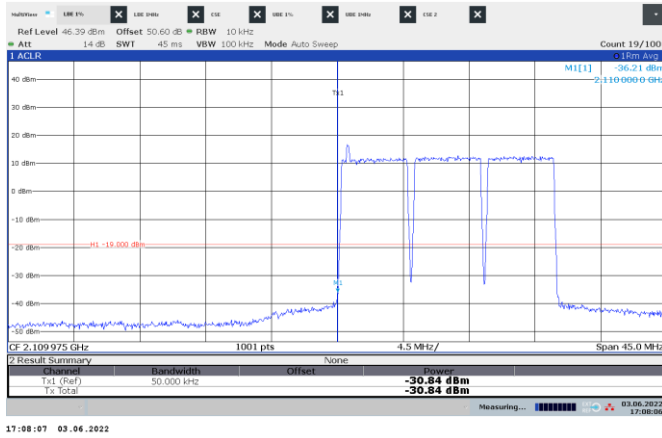


Figure 8.4-75: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 6 x LTE 5 MHz with IoT
 Limit: -19 dBm/50 kHz Notes: None

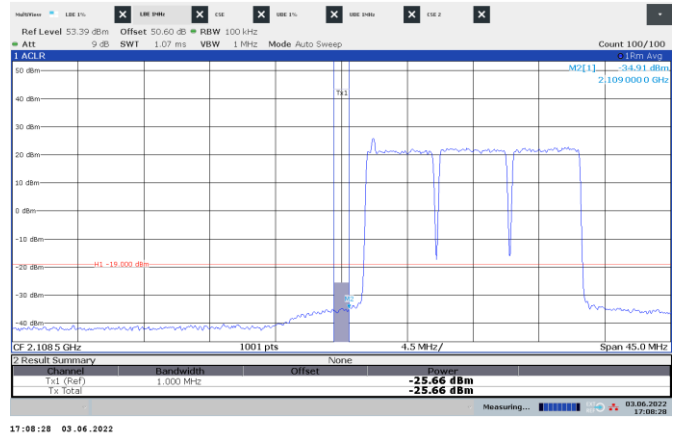


Figure 8.4-76: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 6 x LTE 5 MHz with IoT
 Limit: -19 dBm/MHz Notes: None

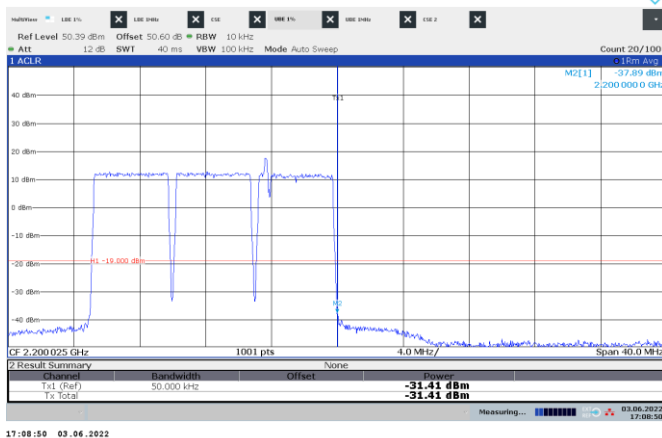


Figure 8.4-77: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 6 x LTE 5 MHz with IoT
 Limit: -19 dBm/50 kHz Notes: None

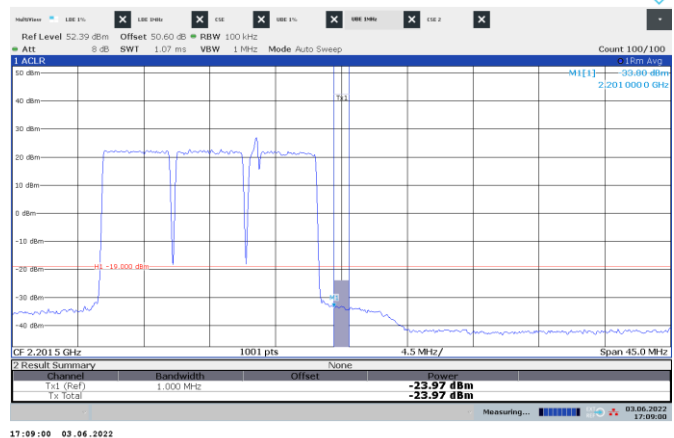


Figure 8.4-78: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 6 x LTE 5 MHz with IoT
 Limit: -19 dBm/MHz Notes: None

Test data, continued

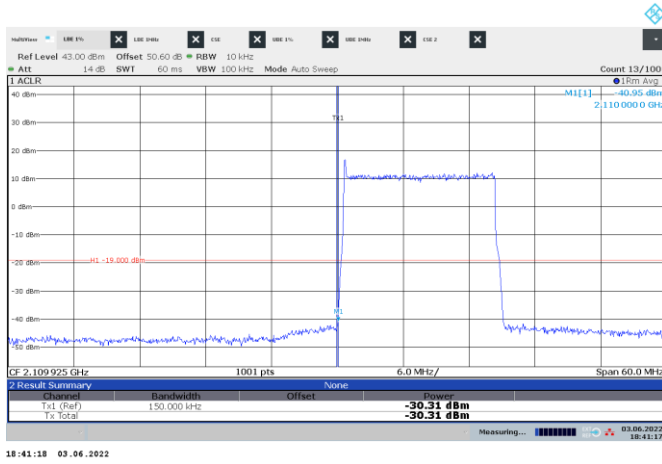


Figure 8.4-79: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 2 × LTE 15 MHz with IoT
 Limit: -19 dBm/150 kHz Notes: None



Figure 8.4-80: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 2 × LTE 15 MHz with IoT
 Limit: -19 dBm/MHz Notes: None

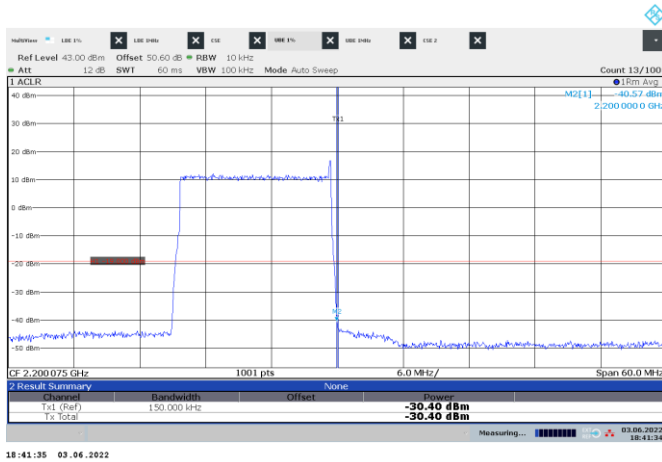


Figure 8.4-81: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 2 × LTE 15 MHz with IoT
 Limit: -19 dBm/150 kHz Notes: None

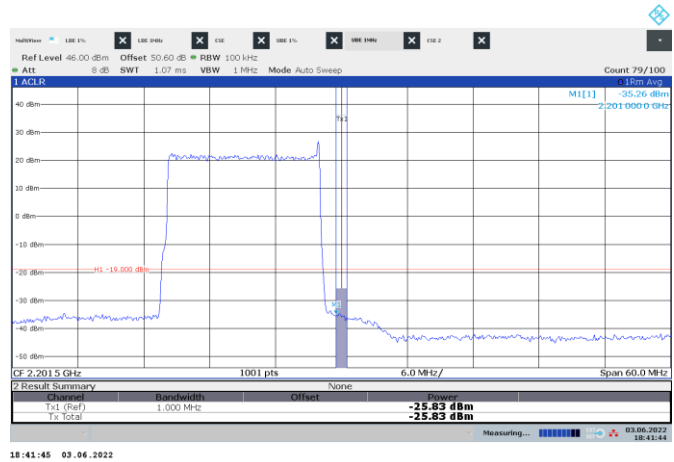


Figure 8.4-82: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 2 × LTE 15 MHz with IoT
 Limit: -19 dBm/MHz Notes: None

Test data, continued

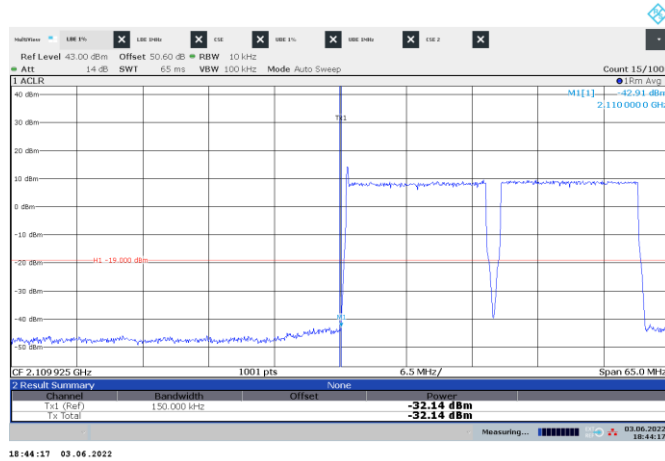


Figure 8.4-83: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 4 × LTE 15 MHz with IB
 Limit: -19 dBm/150 kHz Notes: None

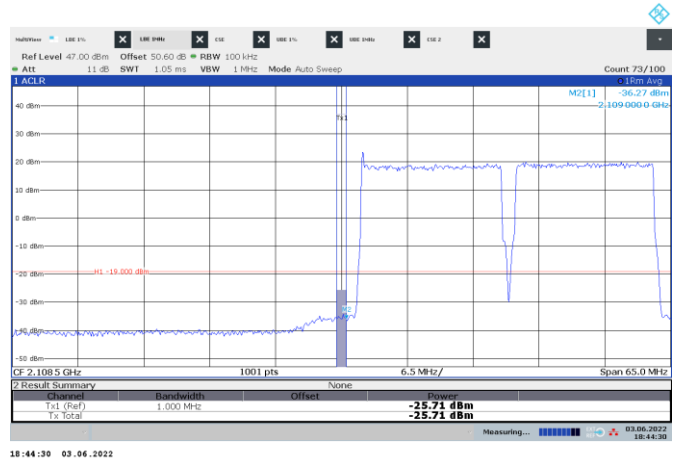


Figure 8.4-84: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 4 × LTE 15 MHz with IB
 Limit: -19 dBm/MHz Notes: None

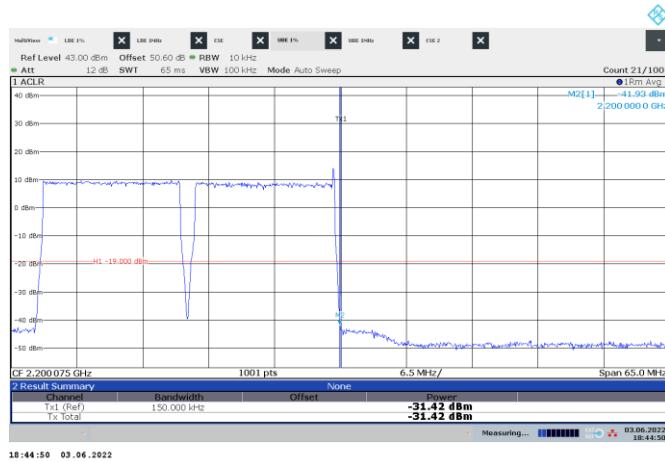


Figure 8.4-85: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 4 × LTE 15 MHz with IB
 Limit: -19 dBm/150 kHz Notes: None



Figure 8.4-86: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 4 × LTE 15 MHz with IB
 Limit: -19 dBm/MHz Notes: None

Test data, continued

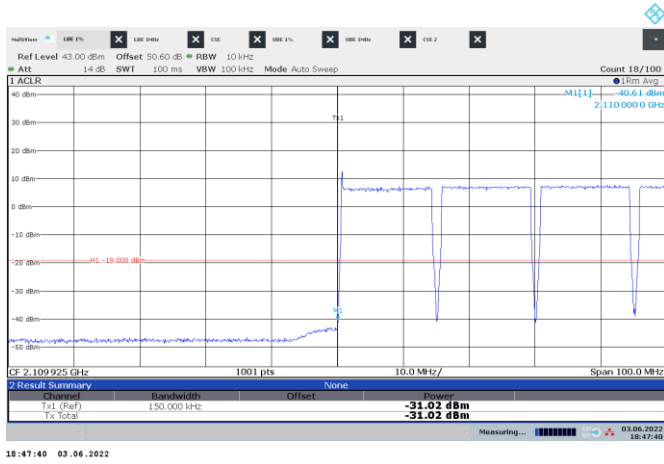


Figure 8.4-87: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 6 × LTE 15 MHz with IB
 Limit: -19 dBm/150 kHz Notes: None

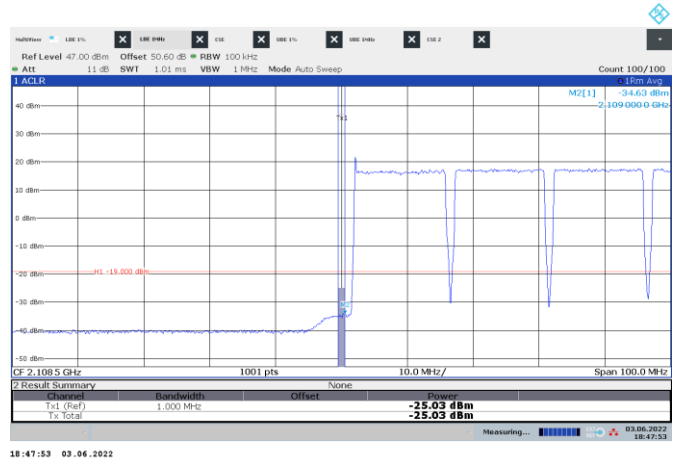


Figure 8.4-88: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 6 × LTE 15 MHz with IB
 Limit: -19 dBm/MHz Notes: None

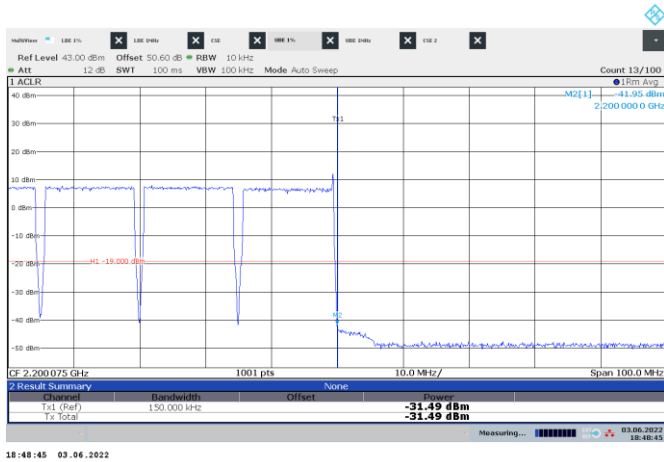


Figure 8.4-89: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 6 × LTE 15 MHz with IB
 Limit: -19 dBm/150 kHz Notes: None



Figure 8.4-90: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 6 × LTE 15 MHz with IB
 Limit: -19 dBm/MHz Notes: None

Test data, continued

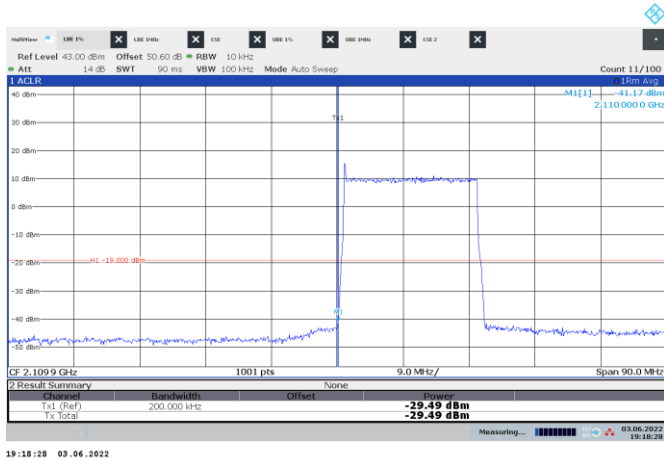


Figure 8.4-91: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 2 × LTE 20 MHz with IB
 Limit: -19 dBm/200 kHz Notes: None



Figure 8.4-92: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 2 × LTE 20 MHz with IB
 Limit: -19 dBm/MHz Notes: None

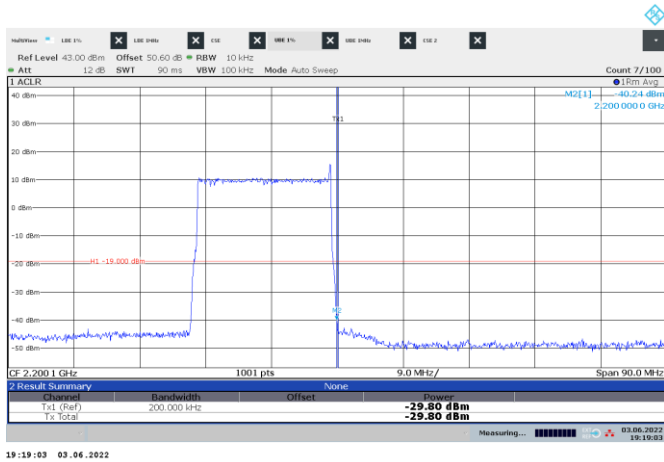


Figure 8.4-93: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 2 × LTE 20 MHz with IB
 Limit: -19 dBm/200 kHz Notes: None



Figure 8.4-94: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 2 × LTE 20 MHz with IB
 Limit: -19 dBm/MHz Notes: None

Test data, continued

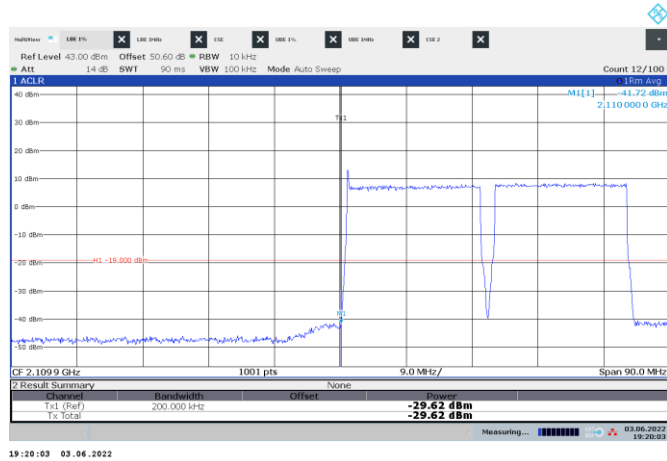


Figure 8.4-95: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 4 × LTE 20 MHz with IB
 Limit: -19 dBm/200 kHz Notes: None

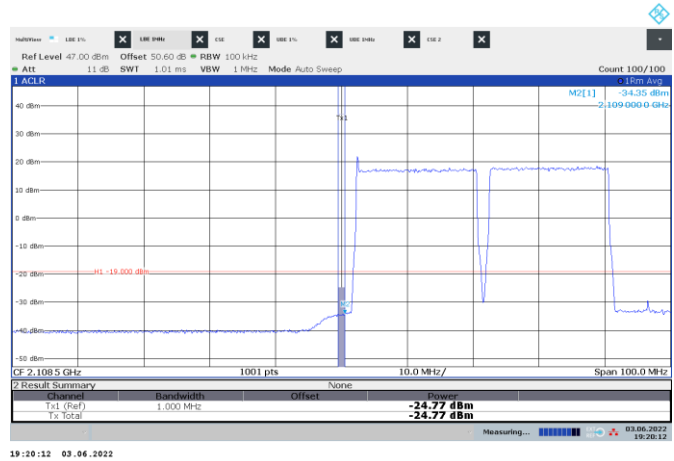


Figure 8.4-96: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 4 × LTE 20 MHz with IB
 Limit: -19 dBm/MHz Notes: None

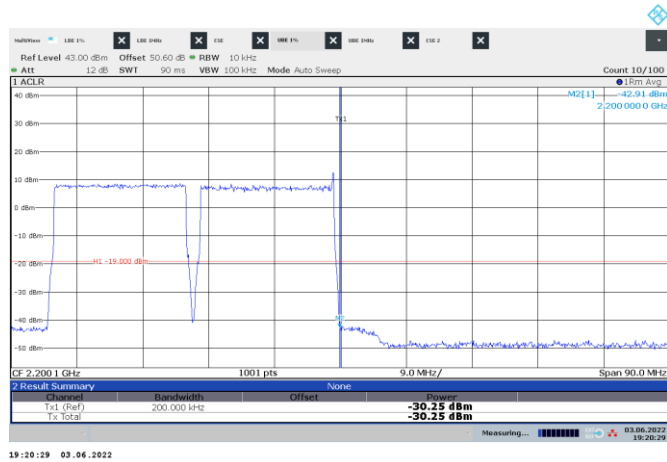


Figure 8.4-97: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 4 × LTE 20 MHz with IB
 Limit: -19 dBm/200 kHz Notes: None

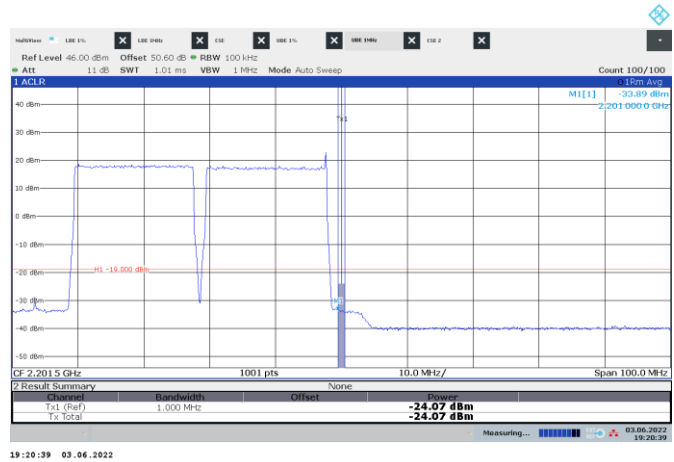


Figure 8.4-98: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 4 × LTE 20 MHz with IB
 Limit: -19 dBm/MHz Notes: None

Test data, continued

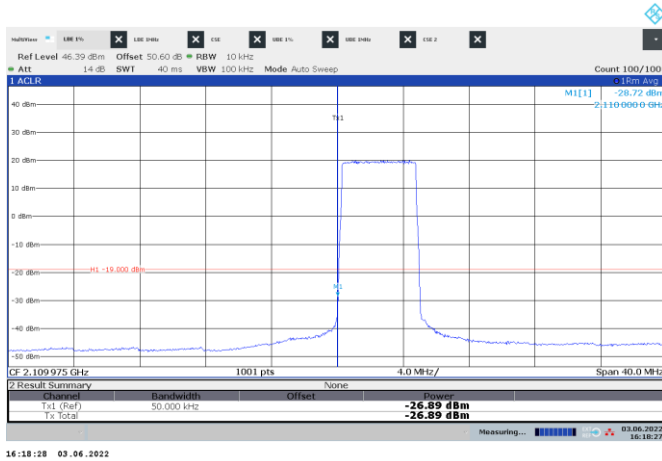


Figure 8.4-99: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Single-carrier operation
 Meas. BW: 1% of EBW Tech.: NR 5 MHz
 Limit: -19 dBm/50 kHz Notes: None

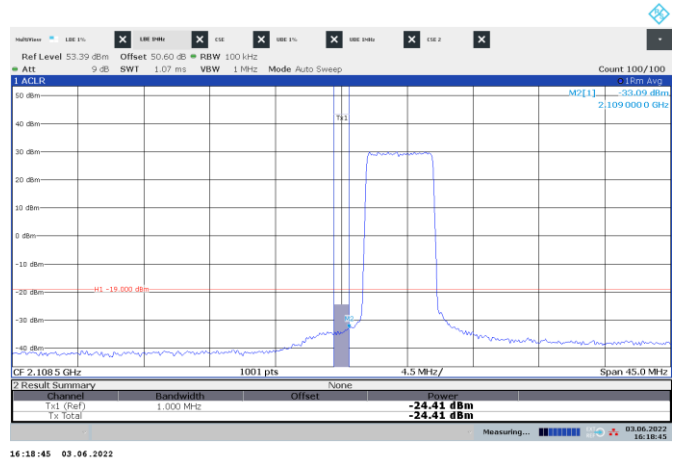


Figure 8.4-100: Conducted emission 1 MHz away from the lower band edge

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

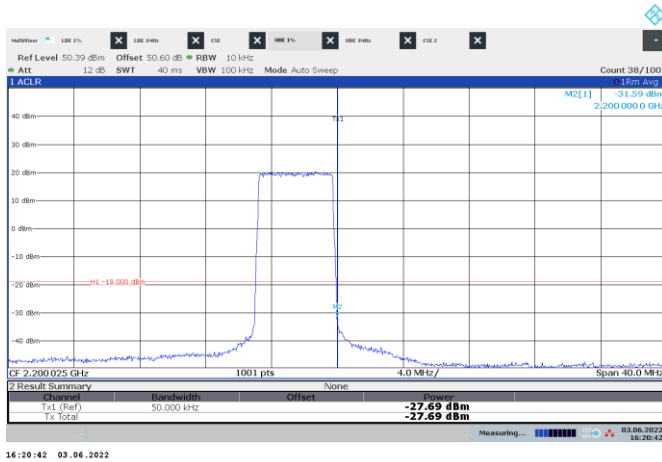


Figure 8.4-101: Conducted emission at the upper band edge

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

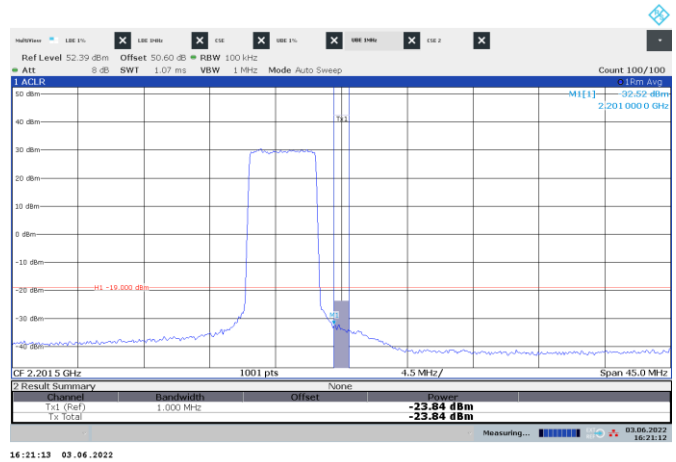


Figure 8.4-102: Conducted emission 1 MHz away from the upper band edge

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

Test data, continued

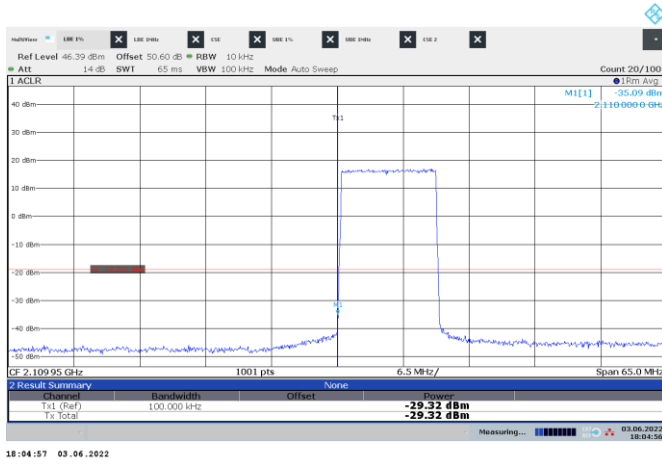


Figure 8.4-103: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Single-carrier operation
 Meas. BW: 1% of EBW Tech.: NR 10 MHz
 Limit: -19 dBm/100 kHz Notes: None

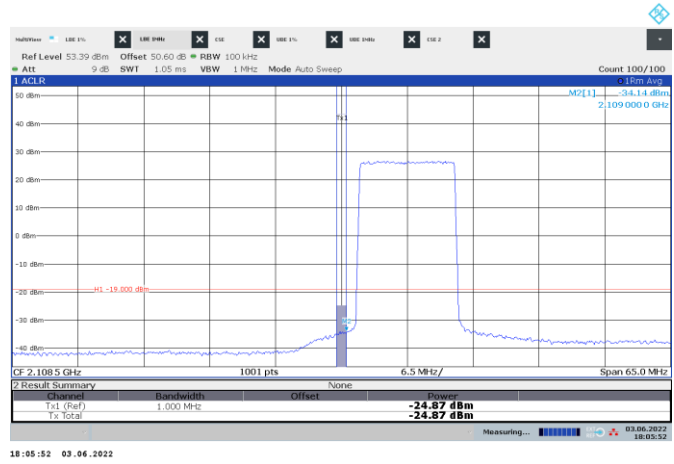


Figure 8.4-104: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Single-carrier operation
 Meas. BW: 1 MHz Tech.: NR 10 MHz
 Limit: -19 dBm/MHz Notes: None

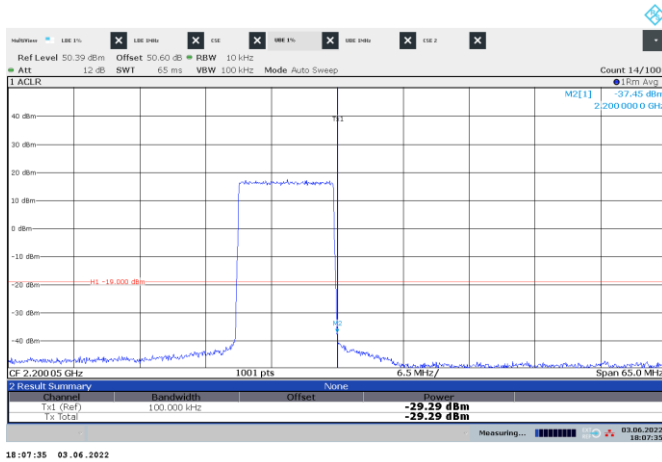


Figure 8.4-105: Conducted emission at the upper band edge

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

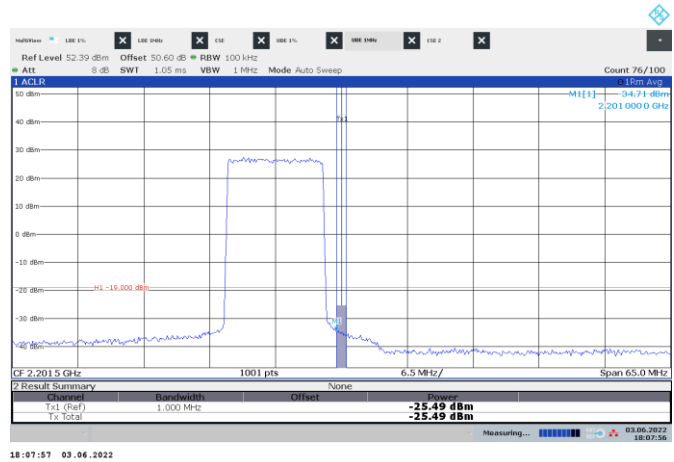


Figure 8.4-106: Conducted emission 1 MHz away from the upper band edge

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

Test data, continued

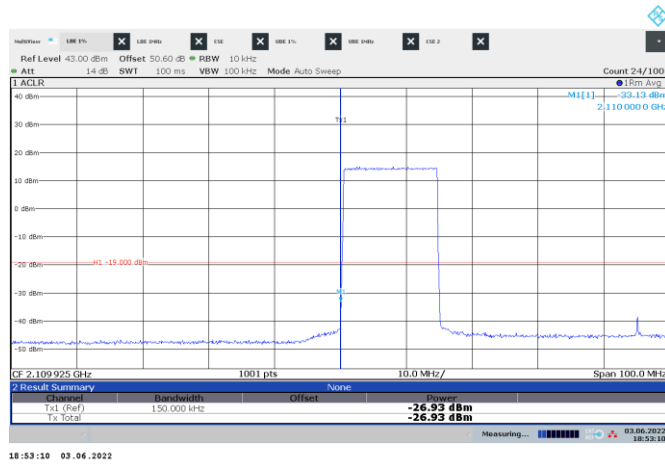


Figure 8.4-107: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Single-carrier operation
 Meas. BW: 1% of EBW Tech.: NR 15 MHz
 Limit: -19 dBm/150 kHz Notes: None

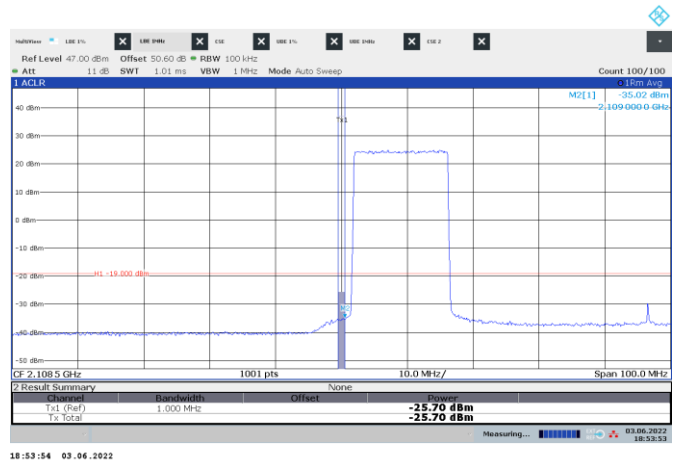


Figure 8.4-108: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Single-carrier operation
 Meas. BW: 1 MHz Tech.: NR 15 MHz
 Limit: -19 dBm/MHz Notes: None

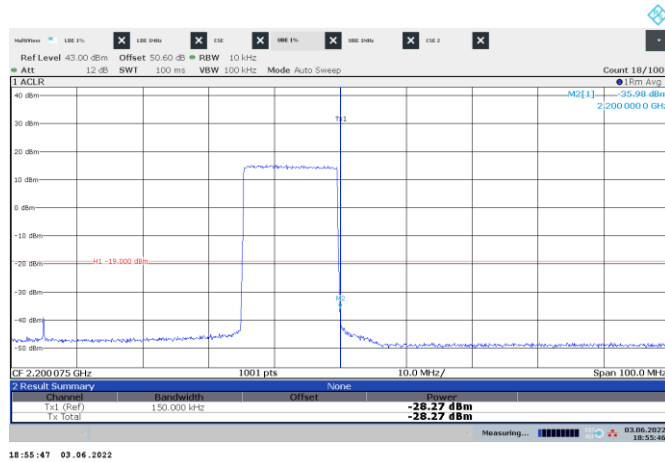


Figure 8.4-109: Conducted emission at the upper band edge

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



Figure 8.4-110: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Single-carrier operation
 Meas. BW: 1 MHz Tech.: NR 15 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

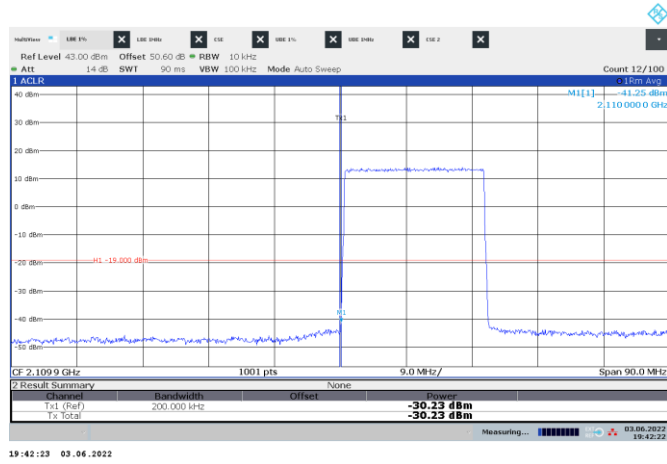


Figure 8.4-111: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Single-carrier operation
 Meas. BW: 1% of EBW Tech.: NR 20 MHz
 Limit: -19 dBm/200 kHz Notes: None

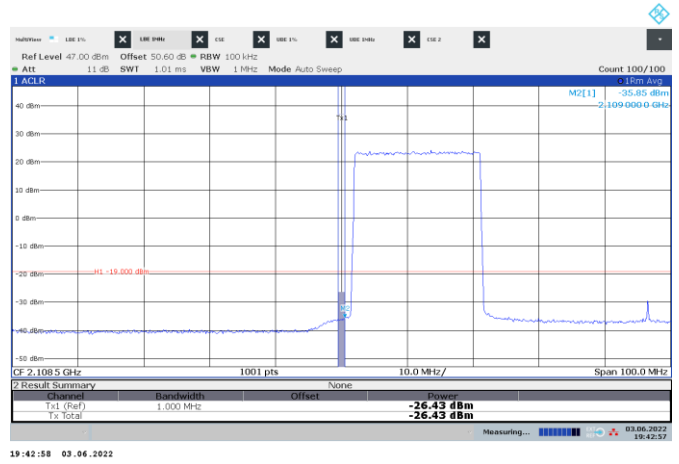


Figure 8.4-112: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Single-carrier operation
 Meas. BW: 1 MHz Tech.: NR 20 MHz
 Limit: -19 dBm/MHz Notes: None

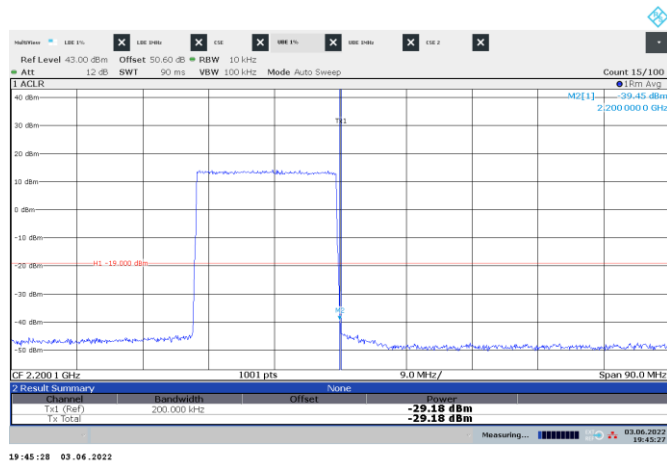


Figure 8.4-113: Conducted emission at the upper band edge

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



Figure 8.4-114: Conducted emission 1 MHz away from the upper band edge

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

Test data, continued

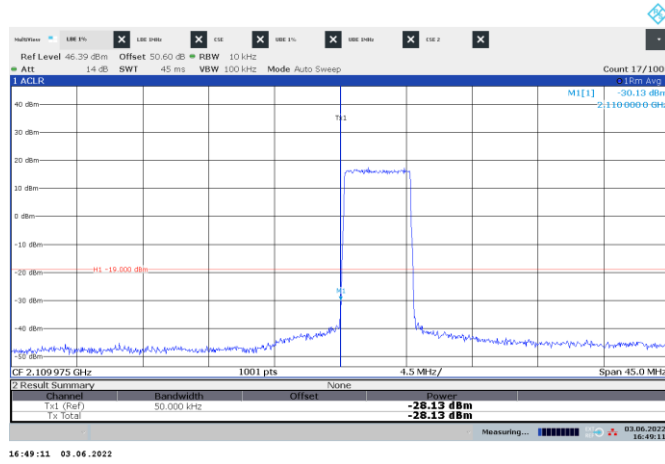


Figure 8.4-115: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 2 × NR 5 MHz
 Limit: -19 dBm/50 kHz Notes: None

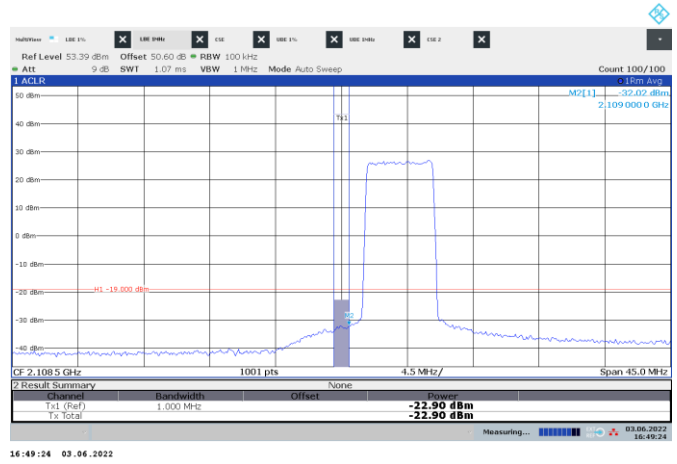


Figure 8.4-116: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 2 × NR 5 MHz
 Limit: -19 dBm/MHz Notes: None

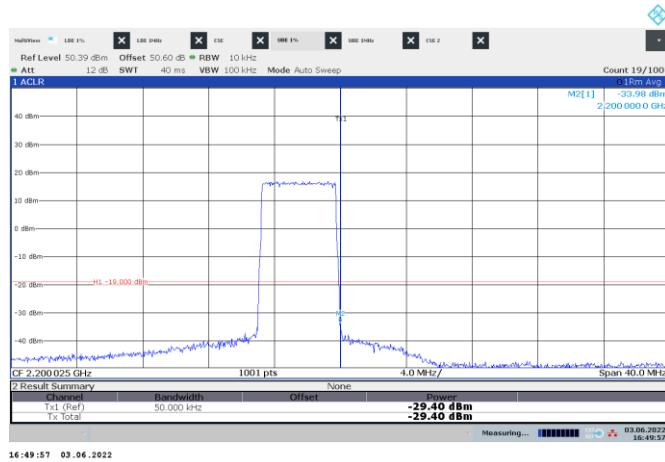


Figure 8.4-117: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 2 × NR 5 MHz
 Limit: -19 dBm/50 kHz Notes: None

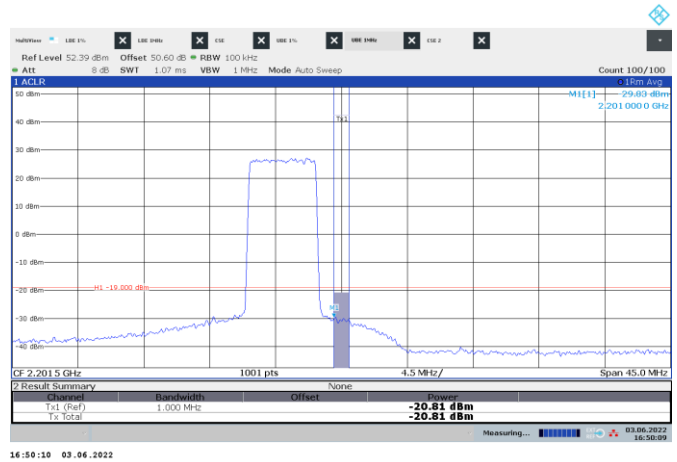


Figure 8.4-118: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 2 × NR 5 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

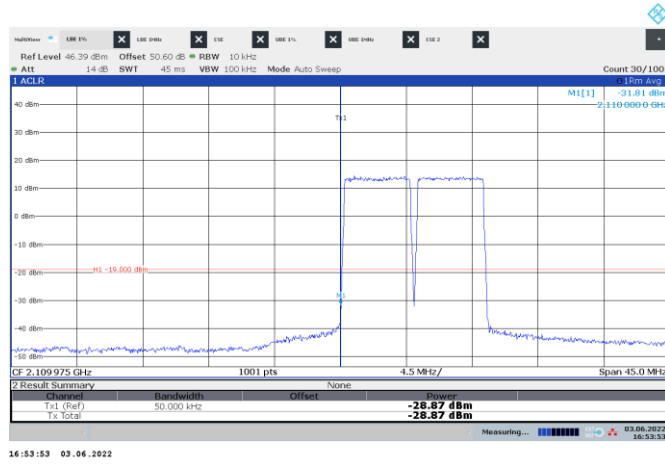


Figure 8.4-119: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 4 × NR 5 MHz
 Limit: -19 dBm/50 kHz Notes: None



Figure 8.4-120: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 4 × NR 5 MHz
 Limit: -19 dBm/MHz Notes: None

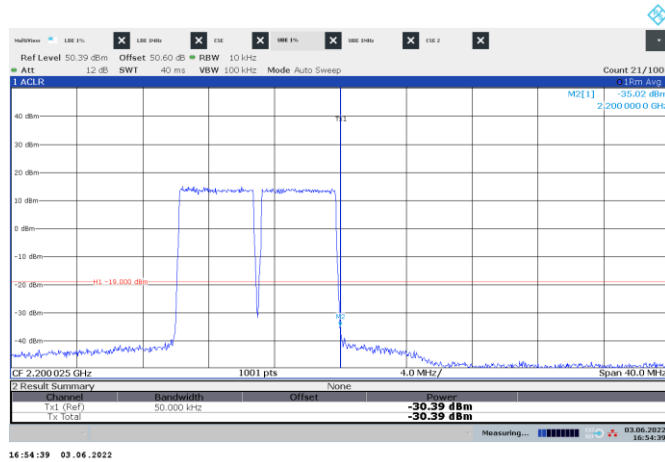


Figure 8.4-121: Conducted emission at the upper band edge

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



Figure 8.4-122: Conducted emission 1 MHz away from the upper band edge

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

Test data, continued

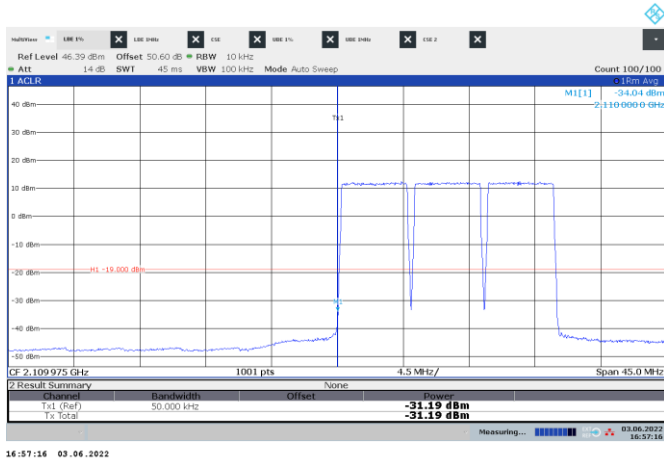


Figure 8.4-123: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 6 × NR 5 MHz
 Limit: -19 dBm/50 kHz Notes: None



Figure 8.4-124: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 6 × NR 5 MHz
 Limit: -19 dBm/MHz Notes: None

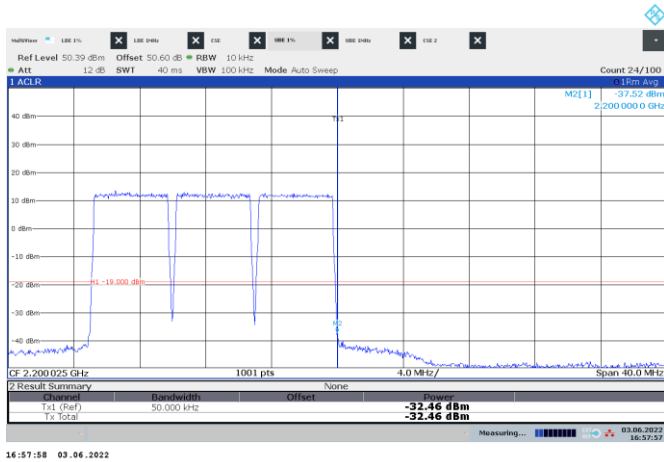


Figure 8.4-125: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 6 × NR 5 MHz
 Limit: -19 dBm/50 kHz Notes: None



Figure 8.4-126: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 6 × NR 5 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

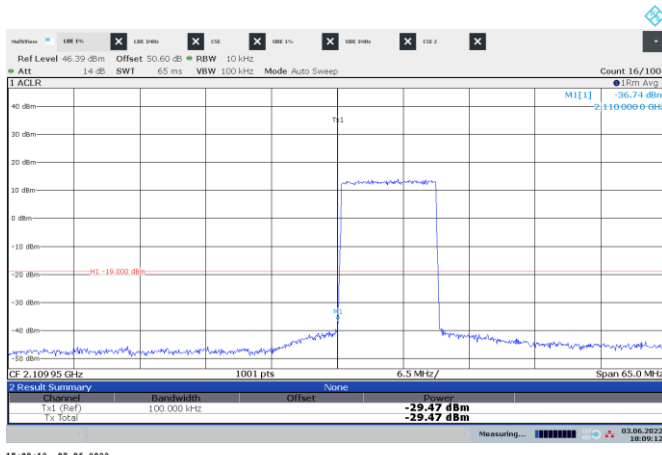


Figure 8.4-127: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 2 × NR 10 MHz
 Limit: -19 dBm/100 kHz Notes: None

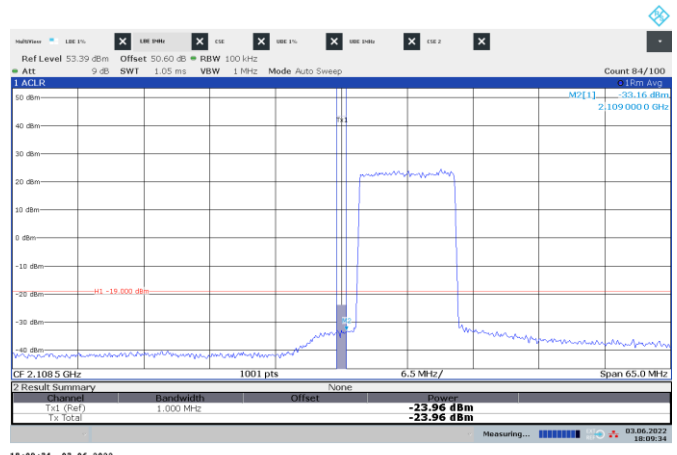


Figure 8.4-128: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 2 × NR 10 MHz
 Limit: -19 dBm/MHz Notes: None

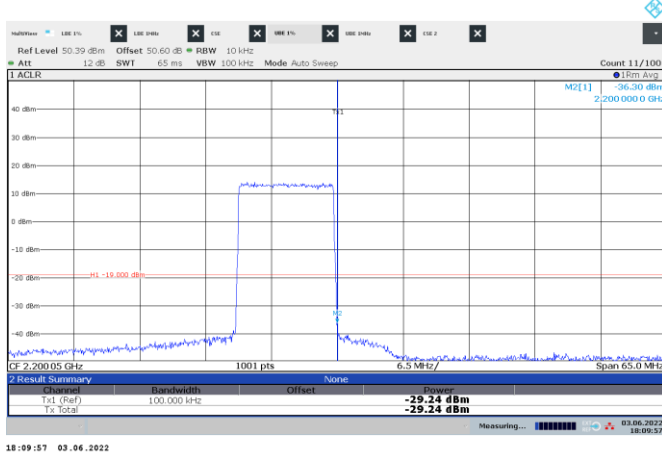


Figure 8.4-129: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 2 × NR 10 MHz
 Limit: -19 dBm/100 kHz Notes: None



Figure 8.4-130: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 2 × NR 10 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

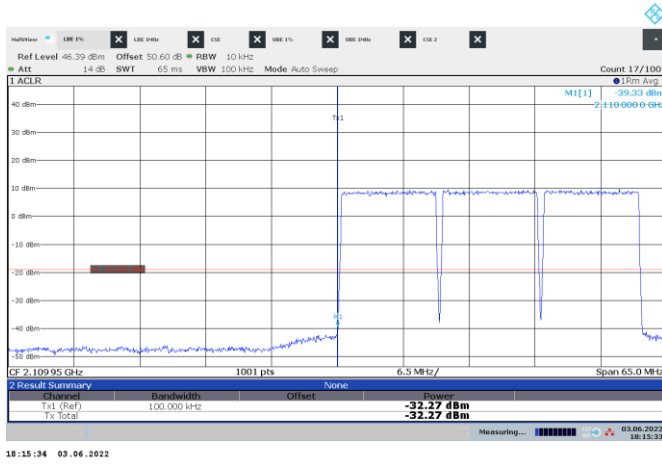


Figure 8.4-131: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 6 × NR 10 MHz
 Limit: -19 dBm/100 kHz Notes: None

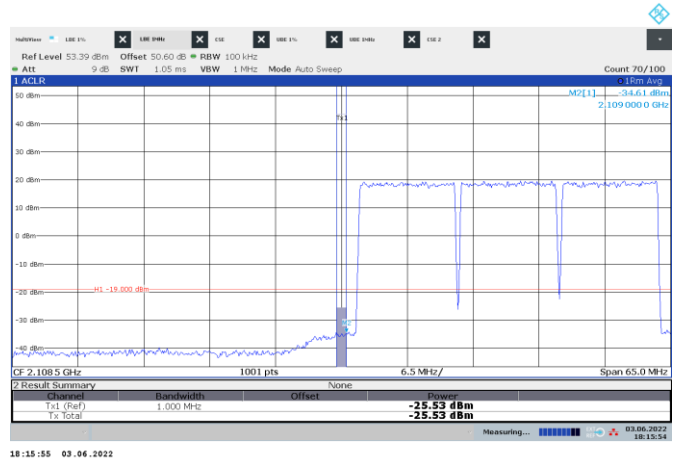


Figure 8.4-132: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 6 × NR 10 MHz
 Limit: -19 dBm/MHz Notes: None

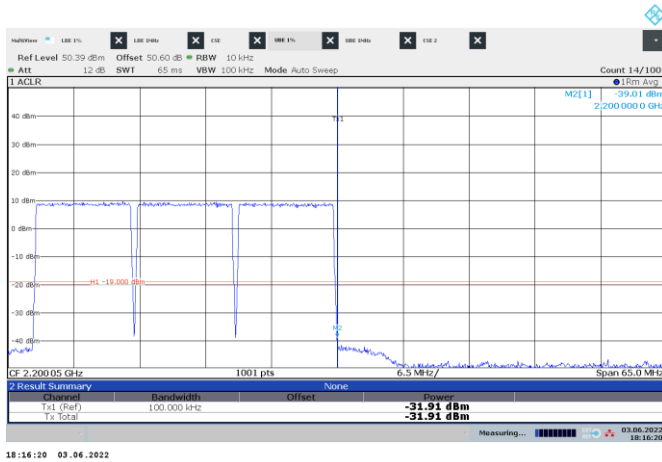


Figure 8.4-133: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 6 × NR 10 MHz
 Limit: -19 dBm/100 kHz Notes: None



Figure 8.4-134: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 6 × NR 10 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

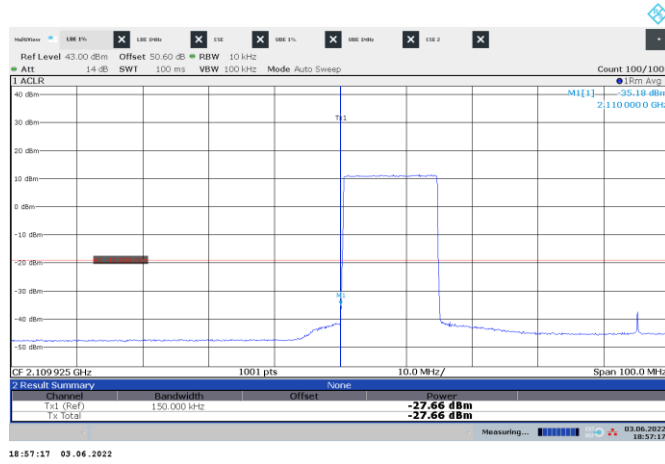


Figure 8.4-135: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 2x NR 15 MHz
 Limit: -19 dBm/150 kHz Notes: None

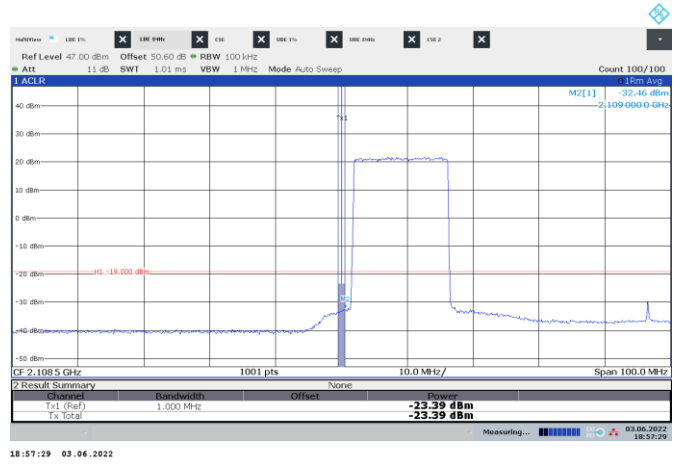


Figure 8.4-136: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 2x NR 15 MHz
 Limit: -19 dBm/MHz Notes: None

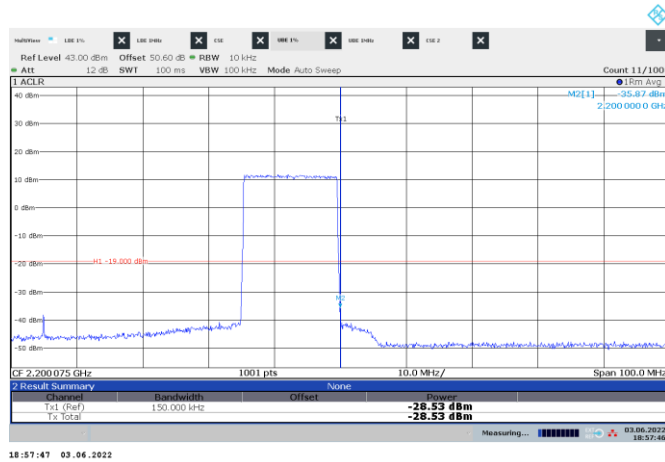


Figure 8.4-137: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 2x NR 15 MHz
 Limit: -19 dBm/150 kHz Notes: None



Figure 8.4-138: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 2x NR 15 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

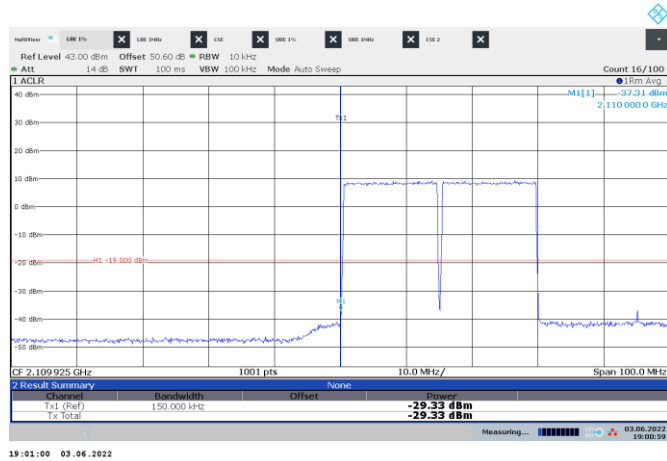


Figure 8.4-139: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 4x NR 15 MHz
 Limit: -19 dBm/150 kHz Notes: None



Figure 8.4-140: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 4x NR 15 MHz
 Limit: -19 dBm/MHz Notes: None

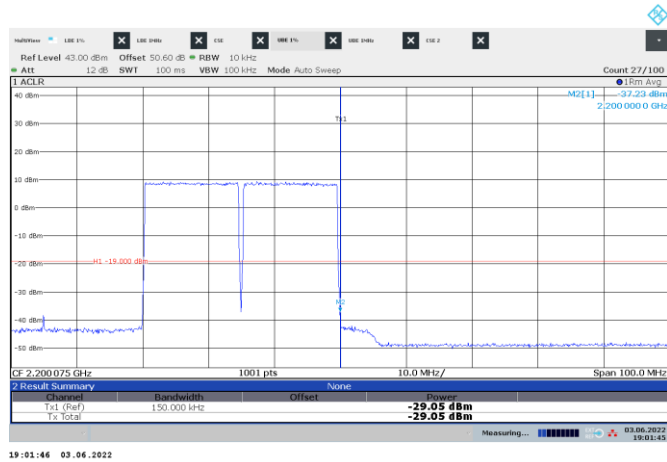


Figure 8.4-141: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 4x NR 15 MHz
 Limit: -19 dBm/150 kHz Notes: None



Figure 8.4-142: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 4x NR 15 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

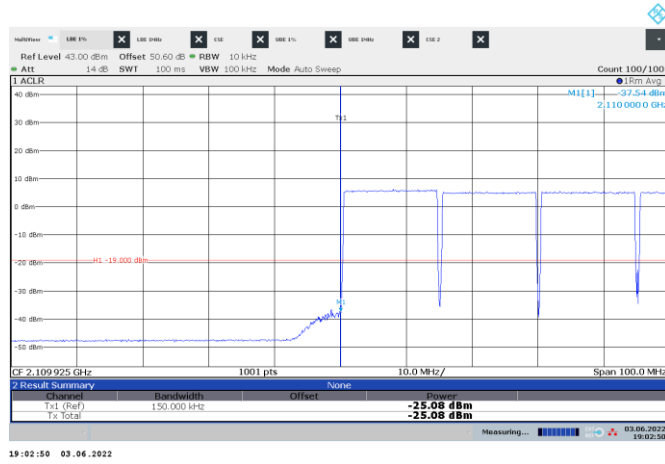


Figure 8.4-143: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 6x NR 15 MHz
 Limit: -19 dBm/150 kHz Notes: None

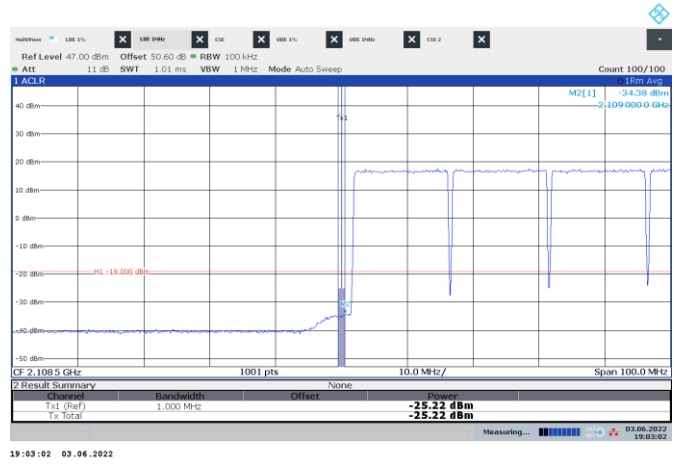


Figure 8.4-144: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 6x NR 15 MHz
 Limit: -19 dBm/MHz Notes: None

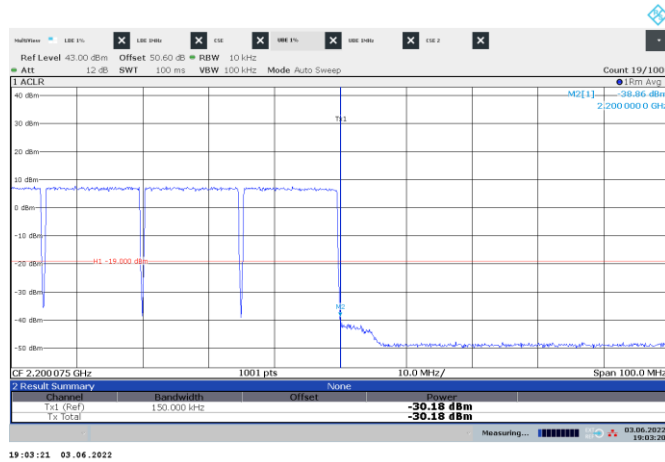


Figure 8.4-145: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 6x NR 15 MHz
 Limit: -19 dBm/150 kHz Notes: None

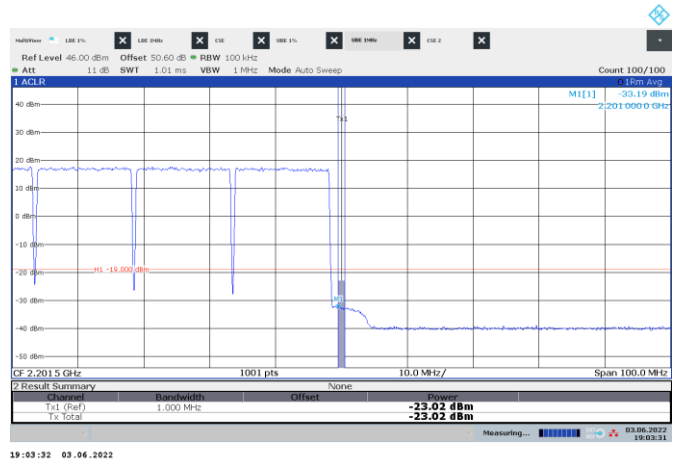


Figure 8.4-146: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 6x NR 15 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

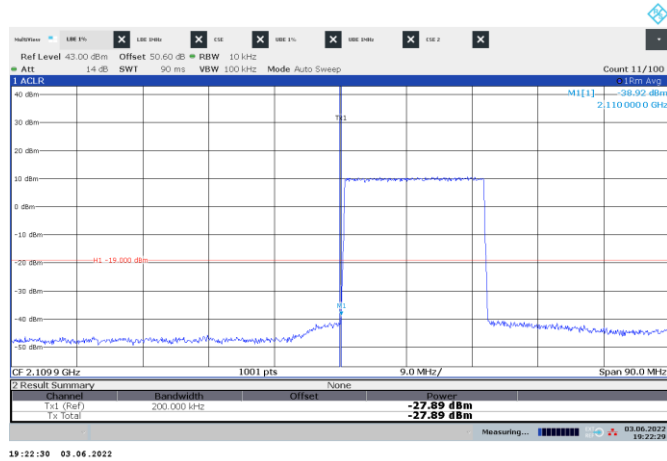


Figure 8.4-147: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 2x NR 20 MHz
 Limit: -19 dBm/200 kHz Notes: None

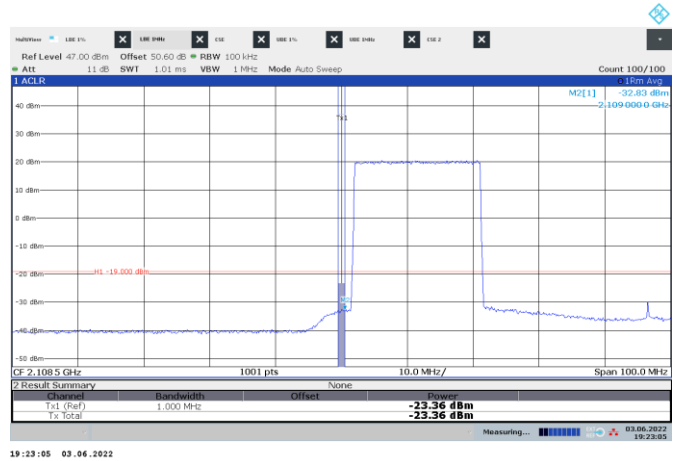


Figure 8.4-148: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 2x NR 20 MHz
 Limit: -19 dBm/MHz Notes: None

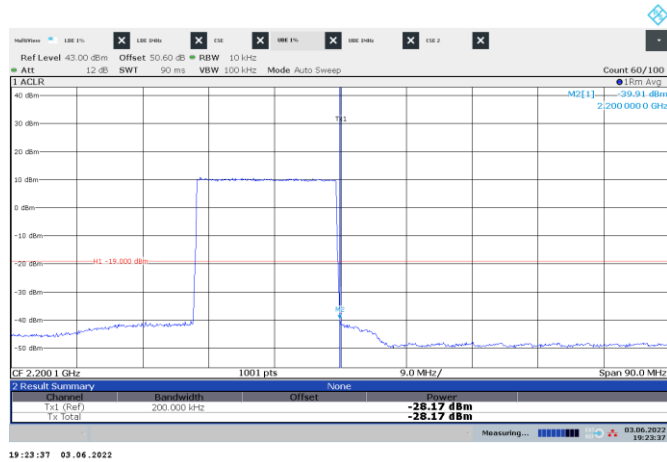


Figure 8.4-149: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 2x NR 20 MHz
 Limit: -19 dBm/200 kHz Notes: None



Figure 8.4-150: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 2x NR 20 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

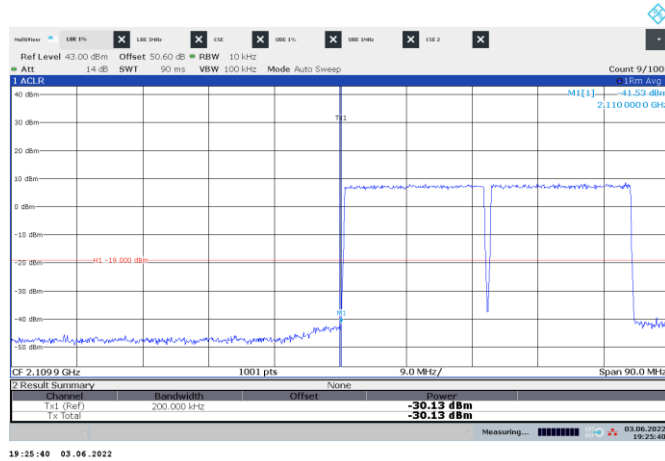


Figure 8.4-151: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 4x NR 20 MHz
 Limit: -19 dBm/200 kHz Notes: None

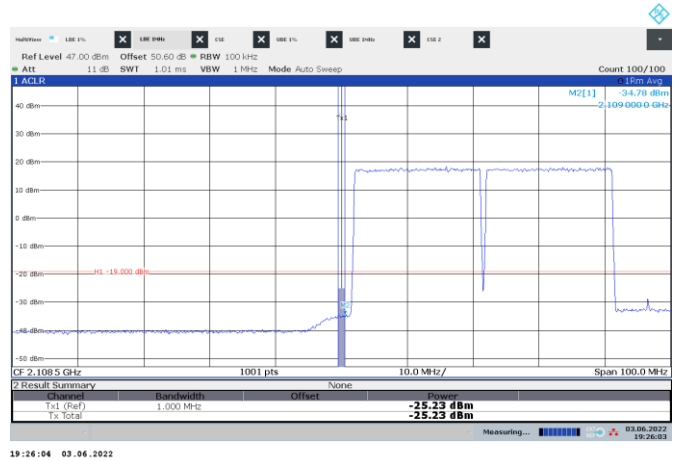


Figure 8.4-152: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 4x NR 20 MHz
 Limit: -19 dBm/MHz Notes: None

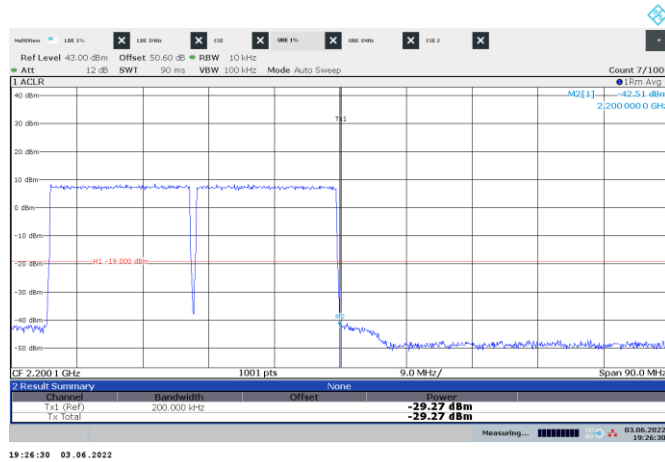


Figure 8.4-153: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-carrier operation
 Meas. BW: 1% of EBW Tech.: 4x NR 20 MHz
 Limit: -19 dBm/200 kHz Notes: None



Figure 8.4-154: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-carrier operation
 Meas. BW: 1 MHz Tech.: 4x NR 20 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

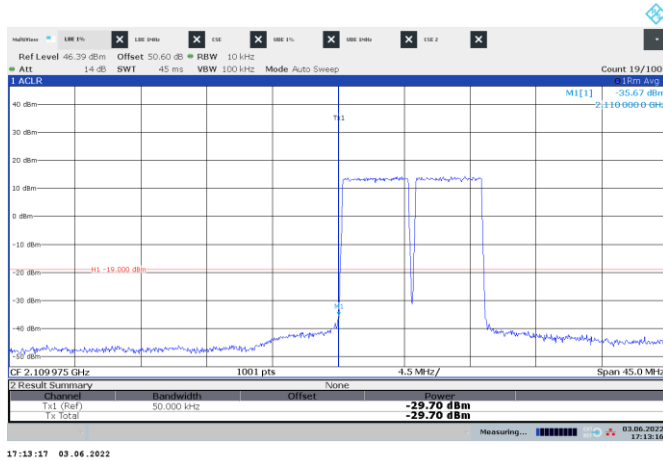


Figure 8.4-155: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: 2x LTE 5 MHz + 2 x NR 5 MHz
 Limit: -19 dBm/50 kHz Notes: None



Figure 8.4-156: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: 2x LTE 5 MHz + 2 x NR 5 MHz
 Limit: -19 dBm/MHz Notes: None

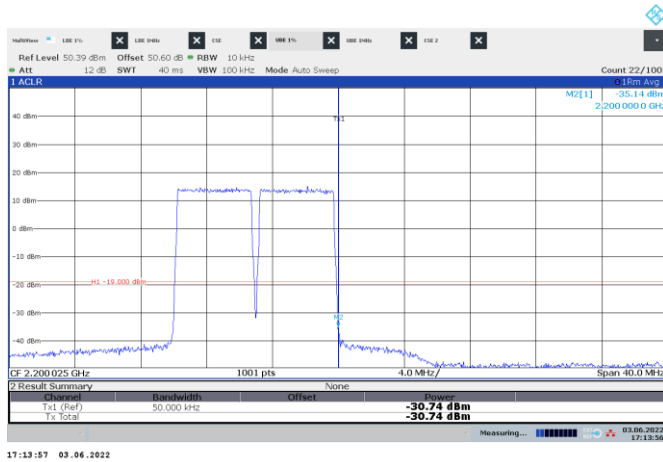


Figure 8.4-157: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: 2x LTE 5 MHz + 2 x NR 5 MHz
 Limit: -19 dBm/50 kHz Notes: None



Figure 8.4-158: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: 2x LTE 5 MHz + 2 x NR 5 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

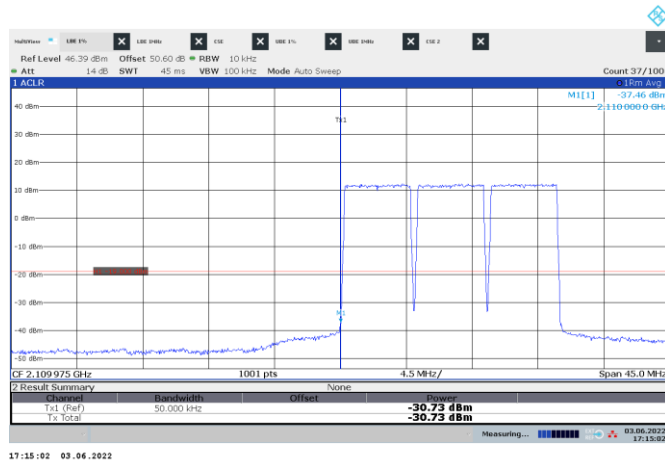


Figure 8.4-159: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: 3x LTE 5 MHz + 3 x NR 5 MHz
 Limit: -19 dBm/50 kHz Notes: None

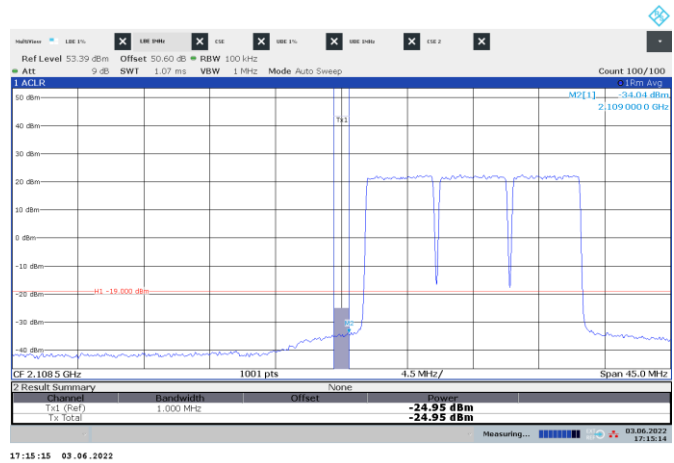


Figure 8.4-160: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: 3x LTE 5 MHz + 3 x NR 5 MHz
 Limit: -19 dBm/MHz Notes: None

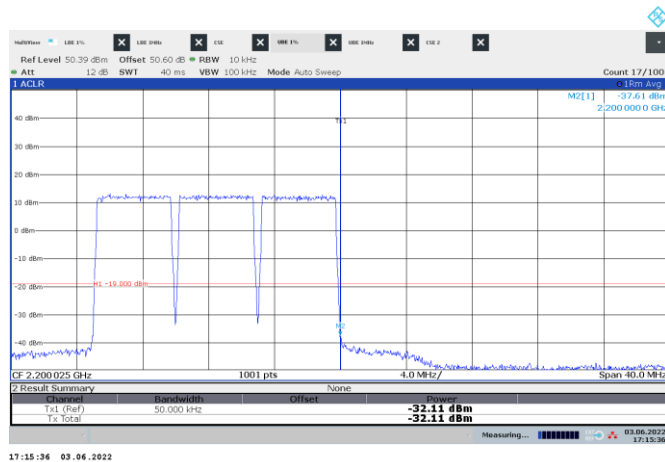


Figure 8.4-161: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: 3x LTE 5 MHz + 3 x NR 5 MHz
 Limit: -19 dBm/50 kHz Notes: None

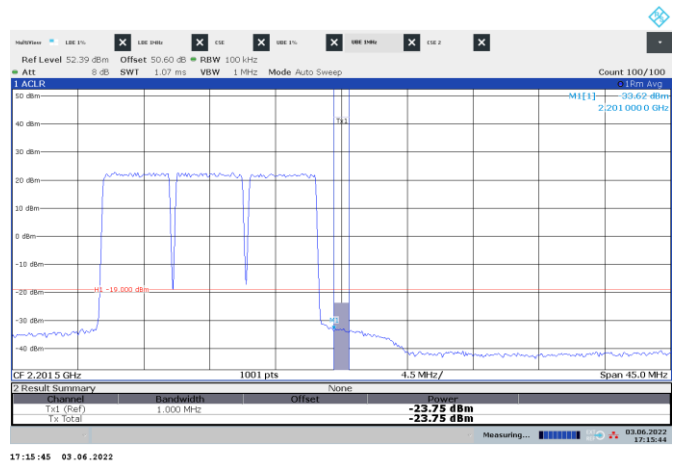


Figure 8.4-162: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: 3x LTE 5 MHz + 3 x NR 5 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

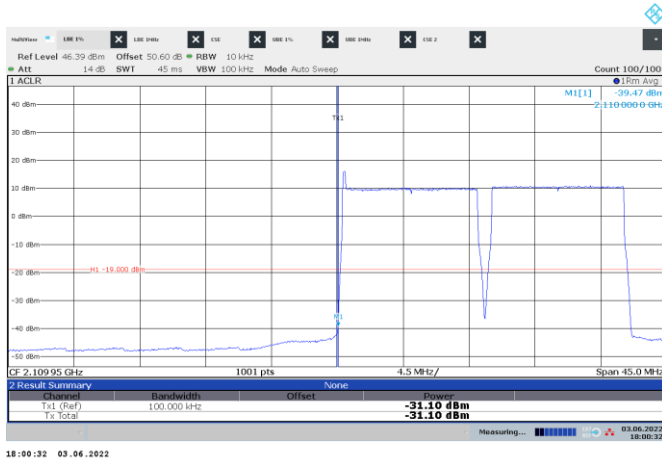


Figure 8.4-163: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: 2x LTE 10 MHz + 2x NR 10 MHz
 Limit: -19 dBm/100 kHz Notes: None



Figure 8.4-164: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: 2x LTE 10 MHz + 2x NR 10 MHz
 Limit: -19 dBm/MHz Notes: None

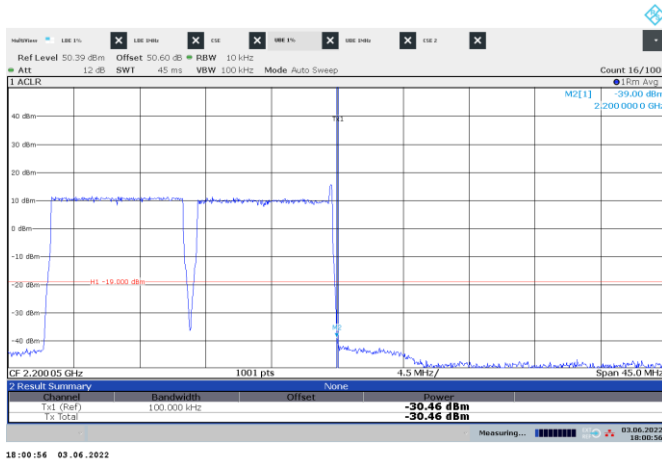


Figure 8.4-165: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: 2x LTE 10 MHz + 2x NR 10 MHz
 Limit: -19 dBm/100 kHz Notes: None



Figure 8.4-166: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: 2x LTE 10 MHz + 2x NR 10 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

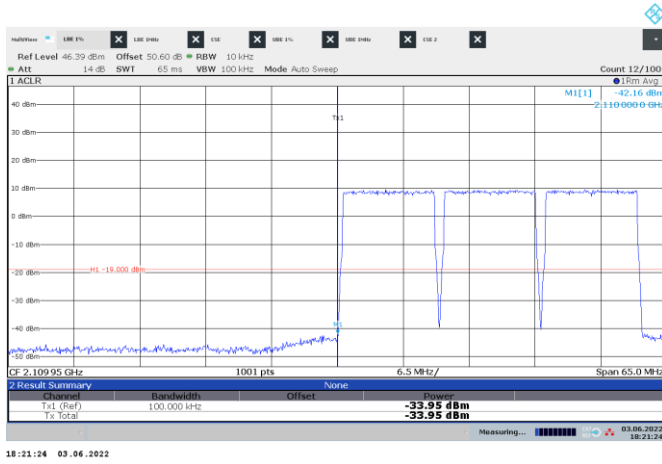


Figure 8.4-167: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: 3x LTE 10 MHz + 3 x NR 10 MHz
 Limit: -19 dBm/100 kHz Notes: None

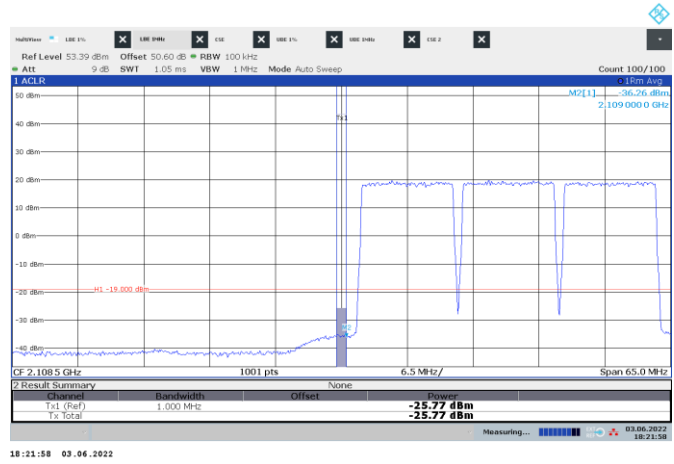


Figure 8.4-168: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: 3x LTE 10 MHz + 3 x NR 10 MHz
 Limit: -19 dBm/MHz Notes: None

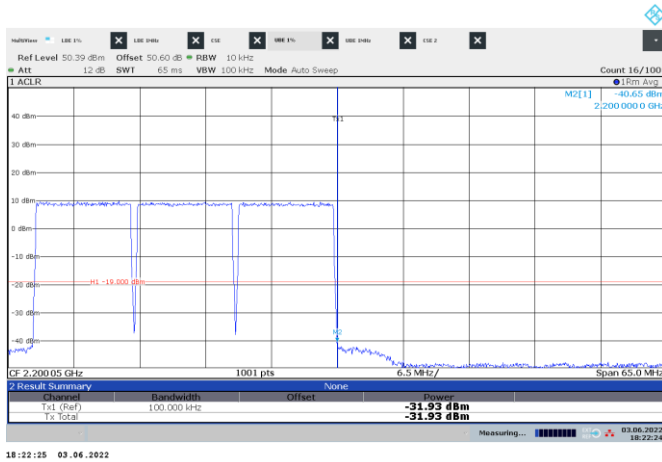


Figure 8.4-169: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: 3x LTE 10 MHz + 3 x NR 10 MHz
 Limit: -19 dBm/100 kHz Notes: None



Figure 8.4-170: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: 3x LTE 10 MHz + 3 x NR 10 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

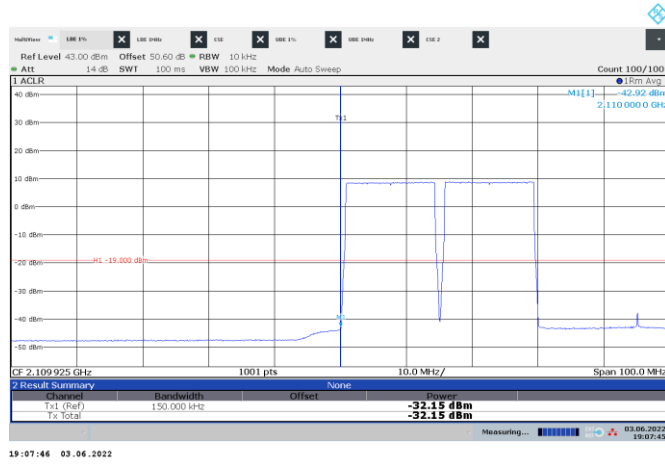


Figure 8.4-171: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: 2x LTE 15 MHz + 2x NR 15 MHz
 Limit: -19 dBm/150 kHz Notes: None



Figure 8.4-172: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: 2x LTE 15 MHz + 2x NR 15 MHz
 Limit: -19 dBm/MHz Notes: None



Figure 8.4-173: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: 2x LTE 15 MHz + 2x NR 15 MHz
 Limit: -19 dBm/150 kHz Notes: None



Figure 8.4-174: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: 2x LTE 15 MHz + 2x NR 15 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued

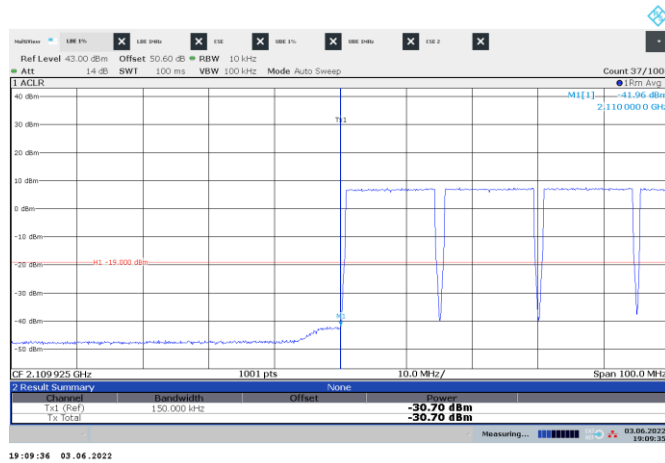


Figure 8.4-175: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: 3x LTE 15 MHz + 3 x NR 15 MHz
 Limit: -19 dBm/150 kHz Notes: None

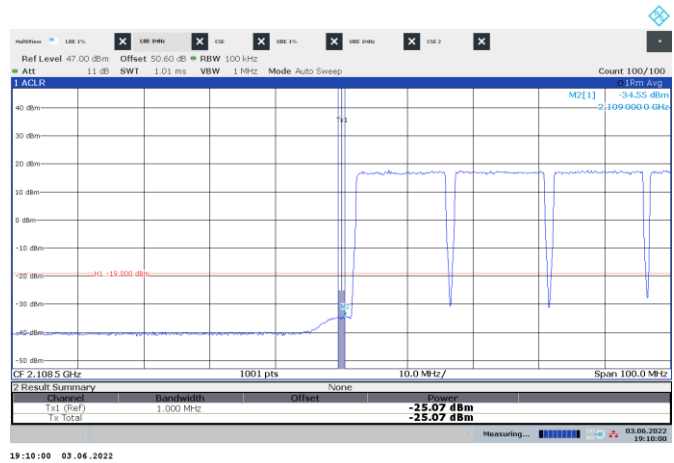


Figure 8.4-176: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: 3x LTE 15 MHz + 3 x NR 15 MHz
 Limit: -19 dBm/MHz Notes: None

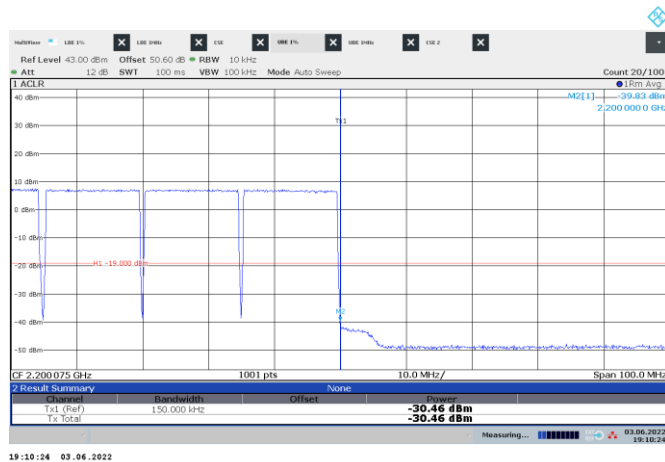


Figure 8.4-177: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: 3x LTE 15 MHz + 3 x NR 15 MHz
 Limit: -19 dBm/150 kHz Notes: None

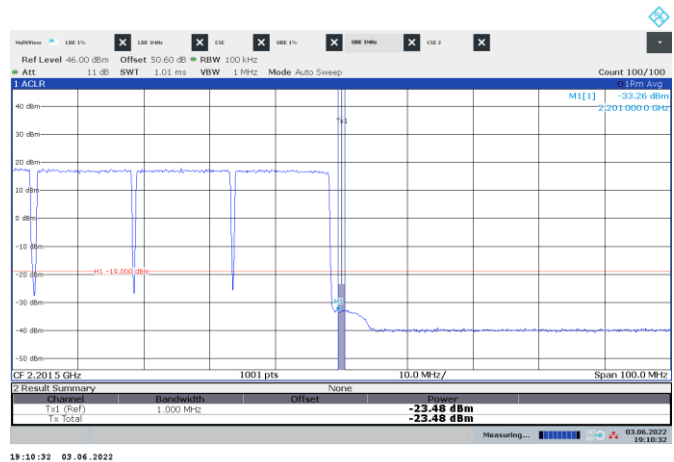


Figure 8.4-178: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: 3x LTE 15 MHz + 3 x NR 15 MHz
 Limit: -19 dBm/MHz Notes: None

Test data, continued



Figure 8.4-179: Conducted emission at the lower band edge

Frequency: 2110 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: 2x LTE 20 MHz + 2x NR 20 MHz
 Limit: -19 dBm/200 kHz Notes: None

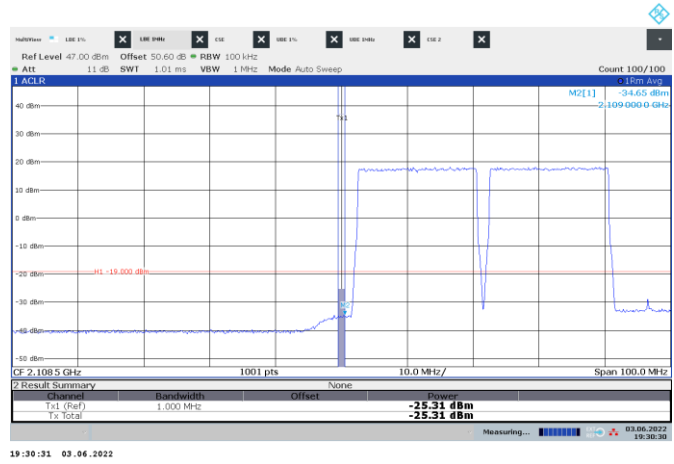


Figure 8.4-180: Conducted emission 1 MHz away from the lower band edge

Frequency: 2109 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: 2x LTE 20 MHz + 2x NR 20 MHz
 Limit: -19 dBm/MHz Notes: None

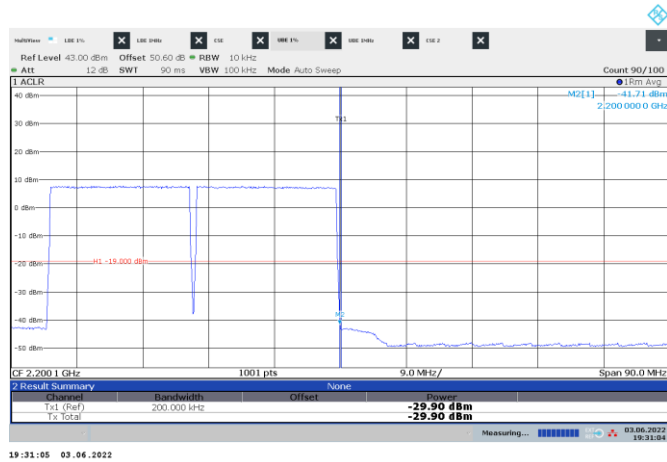


Figure 8.4-181: Conducted emission at the upper band edge

Frequency: 2200 MHz Mode: Multi-RAT operation
 Meas. BW: 1% of EBW Tech.: 2x LTE 20 MHz + 2x NR 20 MHz
 Limit: -19 dBm/200 kHz Notes: None

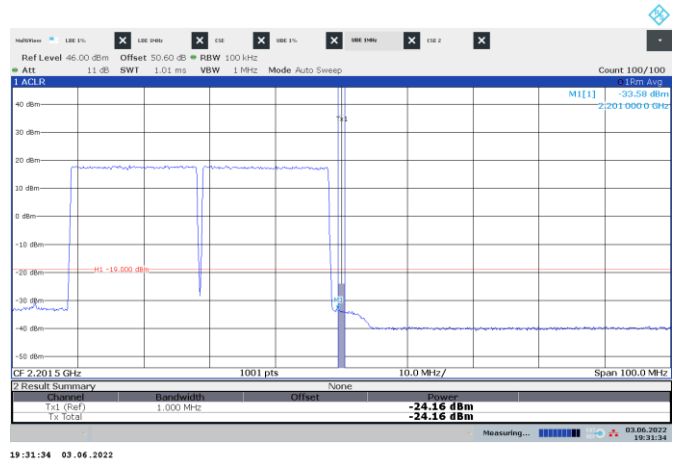


Figure 8.4-182: Conducted emission 1 MHz away from the upper band edge

Frequency: 2201 MHz Mode: Multi-RAT operation
 Meas. BW: 1 MHz Tech.: 2x LTE 20 MHz + 2x NR 20 MHz
 Limit: -19 dBm/MHz Notes: None

8.5 Radiated spurious emissions (Band 66 & 70 & 70A)

8.5.1 Definitions and limits

FCC §27.53:

(h) AWS emission limits

(1) General protection levels. Except as otherwise specified below, for operations in the 1695–1710 MHz, 1710–1755 MHz, 1755–1780 MHz, 1915–1920 MHz, 1995–2000 MHz, 2000–2020 MHz, 2110–2155 MHz, 2155–2180 MHz, and 2180–2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

(3) Measurement procedure.

(i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1-megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. 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.

(ii) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.

(iii) The measurements of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

RSS-139, Section 6.6:

i. In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

ii. After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

RSS-170, Section 5.4:

The transmitter unwanted emissions shall be measured for all channel bandwidths with the carrier frequency set at both the highest and lowest channels in which the equipment is designed to operate.

The e.i.r.p. density of unwanted and carrier-off state emissions outlined in this section (Section 5.4) shall be averaged over any 2-ms active transmission using an RMS detector with a resolution bandwidth of 1 MHz for broadband emissions and a resolution bandwidth of 1 kHz for discrete emissions, unless stated otherwise.

For ATC equipment operating in the bands 2000-2020 MHz and 2180-2200 MHz, the unwanted emission limits shall be determined using a measurement bandwidth of 1 MHz or greater. However, in the 1 MHz band immediately outside and adjacent to the equipment's operating frequency block, a resolution bandwidth of at least 1% of the occupied bandwidth may be employed.

5.4.1.2 ATC Base Station Equipment operating in bands 2000-2020 MHz and 2180-2200 MHz

he unwanted emissions of ATC base station equipment transmitting in the bands 2000–2020 MHz and 2180–2200 MHz shall comply with the following:

(1) The power of any unwanted emissions at frequencies outside the equipment's operating frequency block shall be attenuated below the transmitter power P (dBW), by $43 + 10 \log p$ (watts), dB.

(2) *For equipment operating in the band 2180–2200 MHz, in addition to (1), the power of any emissions on all frequencies between 2200 MHz and 2290 MHz shall not exceed an e.i.r.p. of -100.6 dBW/4 kHz (-70.6 dBm/4 kHz).

*** This requirement is for implementation and is enforced at the time of licensing. Therefore, results are not included in this report.**

Requirement number 2 above is amended as detailed in the following ISED document...

<https://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf11536.html>