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Radio Test report

Report ID:

REP114004-FCC

Project ID:

PRJ0078376

Applicant:

Amplitech Group Inc.

Product name:

Native DAS Solution

Model number (HVIN):

pRRU8801, pRRU8802

FCC ID:

2BNMP-PRRU880X

Requirements/Summary:

Standard	Environmental phenomenon	Compliance
FCC 47 CFR Part 24	Personal Communication Services (1930-1995 MHz)- B25	Yes
FCC 47 CFR Part 27	Miscellaneous Wireless Communication Services (2110-2200 MHz)- B66	Yes
FCC 47 CFR Part 27	Miscellaneous Wireless Communication Services (2620-2690 MHz)- B7	Yes

Date of issue: April 15, 2026

Dhara Patel, EMC/RF Test Specialist

Tested by

Andrey Adelberg, Senior Wireless/EMC Specialist

Reviewed by

Signature

Lab locations

Company name	Nemko Canada Inc.		
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Test site registration number	– CA2040 (Ottawa) – CA2041 (Montreal) – CA0101 (Cambridge)		
Website	www.nemko.com		

Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contain in this report are within Nemko Canada's ISO/IEC 17025 accreditation.

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Section 1. Report summary

1.1 Applicant and manufacturer

Company name	Amplitech Group Inc.
Address	155 Plant Avenue, Hauppauge, NY, 11788

1.2 Test specifications

FCC 47 CFR Part 24	Personal Communication Services (1930-1995 MHz)
FCC 47 CFR Part 27	Miscellaneous Wireless Communications Services (2110-2200 MHz)
FCC 47 CFR Part 27	Miscellaneous Wireless Communications Services (2620-2690 MHz)

1.3 Test method

ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
KDB 484596 D01	Referencing Test Data v02r03 (March 26, 2024)

1.4 Statement of compliance

In the configuration tested, the EUT was found compliant. Testing was completed against customer test plan. Results obtained indicate that the product under test complies in full with the requirements tested.

1.5 Test report revision history

Table 1.5-1: Test report revision history

Report ID	Date of issue	Details of changes made to test report
REP114004	March 13, 2026	Original report issued
REP114004	April 15, 2026	Clarification about TDD was added

Section 2. Summary of test results

2.1 Testing location

Test location (s)	Ottawa
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2.2 Testing period

Test start date	August 21, 2025	Test end date	September 23, 2025
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2.3 Sample information

Receipt date	August 21, 2025	Nemko sample ID number	PRJ00783760001
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2.4 Test results

Table 2.4-1: FCC results summary

Part	Test description	Verdict
§24.229	Frequencies (1930-1995 MHz band)	Pass
§24.232(b)	Maximum output power at RF antenna connector	Pass
§24.238(a)	Spurious emissions at RF antenna connector	Pass
§24.238(a)	Radiated spurious emissions	Pass
§24.235	Frequency stability	Pass
§27.5(h), (j)	Frequencies (2110-2200 MHz band)	Pass
§27.50(d)	Maximum output power at RF antenna connector	Pass
§27.53(h)	Spurious emissions at RF antenna connector	Pass
§27.53(h)	Radiated spurious emissions	Pass
§27.5(i)(2)(iii)	Frequencies (2620-2690 MHz band)	Pass
§27.50(h)(1)	Maximum output power at RF antenna connector	Pass
§27.53(m)	Spurious emissions at RF antenna connector	Pass
§27.53(m)	Radiated spurious emissions	Pass
§27.54	Frequency stability	Pass
§2.1049	Occupied bandwidth	Pass

Notes: None

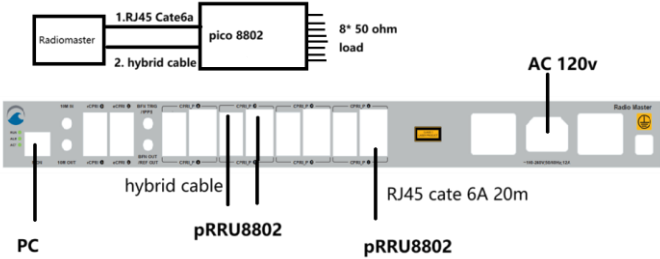
Section 3. Equipment under test (EUT) details

3.1 EUT information

Product name	Native DAS Solution
Model	pRRU8801, pRRU8802
Part number	RUA1290302/1, RUA1290302/2
Serial number	R30025120004
FCC ID	2BNMP-PRRU880X
Antenna ports	8 TX/RX
RF BW / IBW	n7/B7: 70 MHz n25/B25: 65 MHz n66/B66: 90/70 MHz (DL/UL)
Frequency	B7/n7(DL:2620-2690MHz UL:2500-2570MHz) B25/n25(DL:1930-1995MHz UL:1850-1915MHz) B66/n66(DL:2110-2200MHz UL:1710-1780MHz)
Nominal O/P per Antenna port per Band	24 dBm
RAT	LTE; NR: SC, MC, MIMO n77: NR (TDD) Band 7: NR, LTE (FDD) Band 25: NR, LTE (FDD) Band 66: NR, LTE (FDD)
Modulation	QPSK to 256-QAM
Operating temperature	-40°C to +55°C
Max RF Power	2 W total / radio (8 ports x 0.251 W)
Supported carriers /band/ port SRO/MRO	DL: Max 3 Carriers / Port UL: Max 3 Carriers / Port
Carrier Configuration:	SRO: LTE, NR
Antenna gain:	3.5 dBi (pRRU8801), product is considered a completely uncorrelated system and therefore the directional gain is equal to the single antenna gain.

3.2 Product description and theory of operation

EUT description of the methods used to exercise the EUT and all relevant ports:

Description/theory of operation	Connect the cables according to the fixed port positions shown in the figure. The test has two modes: 1) RJ45 mode: The Native Das only connects to the RJ45 port. 2) Hybrid cable mode: The Native Das needs to connect to both the RJ45 port and the optical fiber port. 								
Ports/Interface	<table><tr><th>Port</th><th>Description</th></tr><tr><td>0, 1, 2, 3, 4, 5, 6, 7</td><td>RF Ports</td></tr><tr><td>RJ45</td><td>Digital RDI / DC Power Input</td></tr><tr><td>Hybrid cable mode</td><td>Optical fiber port.</td></tr></table>	Port	Description	0, 1, 2, 3, 4, 5, 6, 7	RF Ports	RJ45	Digital RDI / DC Power Input	Hybrid cable mode	Optical fiber port.
Port	Description								
0, 1, 2, 3, 4, 5, 6, 7	RF Ports								
RJ45	Digital RDI / DC Power Input								
Hybrid cable mode	Optical fiber port.								
Software details									
Physical	<table><tr><td>Dimensions</td><td>220mm x 220mm x 70mm</td></tr><tr><td>Weight</td><td>2.5 Kg</td></tr><tr><td>Operating Temperature</td><td>-40°C to +55°C</td></tr><tr><td>Cooling</td><td>Natural convection</td></tr></table>	Dimensions	220mm x 220mm x 70mm	Weight	2.5 Kg	Operating Temperature	-40°C to +55°C	Cooling	Natural convection
Dimensions	220mm x 220mm x 70mm								
Weight	2.5 Kg								
Operating Temperature	-40°C to +55°C								
Cooling	Natural convection								

3.3 EUT test details

B25 LTE Test Configurations:

Carriers	CBW (MHz)	Low (MHz)	Middle (MHz)	High (MHz)
LTE 1C	5	1932.5	1962.5	1992.5
	20	1940.0	1962.5	1985.0
LTE 2NC	5+20	1932.5 MHz + 1985.0 MHz		

n25 NR Test Configurations:

Carriers	CBW (MHz)	Low (MHz)	Middle (MHz)	High (MHz)
NR 1C	5	1932.5	1962.5	1992.5
	10	1935.0	1962.5	1990.0
	15	1937.5	1962.5	1987.5

B66 LTE Test Configurations:

Carriers	CBW (MHz)	Low (MHz)	Middle (MHz)	High (MHz)
LTE 1C	15	2117.5	2155.0	2192.5

n66 NR Test Configurations:

Carriers	CBW (MHz)	Low (MHz)	Middle (MHz)	High (MHz)
NR 1C	10	2115.0	2155.0	2195.0
	20	2120.0	2155.0	2190.0
	30	2125.0	2155.0	2185.0

B7 LTE Test Configurations:

Carriers	CBW (MHz)	Low (MHz)	Mid (MHz)	High (MHz)
LTE 1C	10	2625.0	2655.0	2685.0
	15	2627.5	2655.0	2682.5
	20	2630.0	2655.0	2680.0
LTE 2NC	10+10	2625 MHz + 2685 MHz		
	20+20	2630 MHz + 2680 MHz		
LTE 3NC	10+10+10	2625 MHz + 2655 MHz + 2685 MHz		
	10+20+10	2625 MHz + 2655 MHz + 2685 MHz		

EUT test details, continued

n7 NR Test Configurations:

Carriers	CBW (MHz)	Low (MHz)	Mid (MHz)	High (MHz)
NR 1C	10	2625.0	2655.0	2685.0
	15	2627.5	2655.0	2682.5
	20	2630.0	2655.0	2680.0
NR 2NC	10+10	2625 MHz + 2685 MHz		
	20+20	2630 MHz + 2680 MHz		
NR 3NC	10+10+10	2625 MHz + 2655 MHz + 2685 MHz		
	10+20+10	2625 MHz + 2655 MHz + 2685 MHz		

Radiated Emissions Test Configurations:

	Carriers
SC	B66: NR 10 MHz Bottom B25: NR 5 MHz Bottom B7: LTE 10 MHz Bottom
NC	B25: LTE 5 MHz + 20 MHz B7: LTE 20 MHz + 20 MHz

3.4 EUT setup diagram

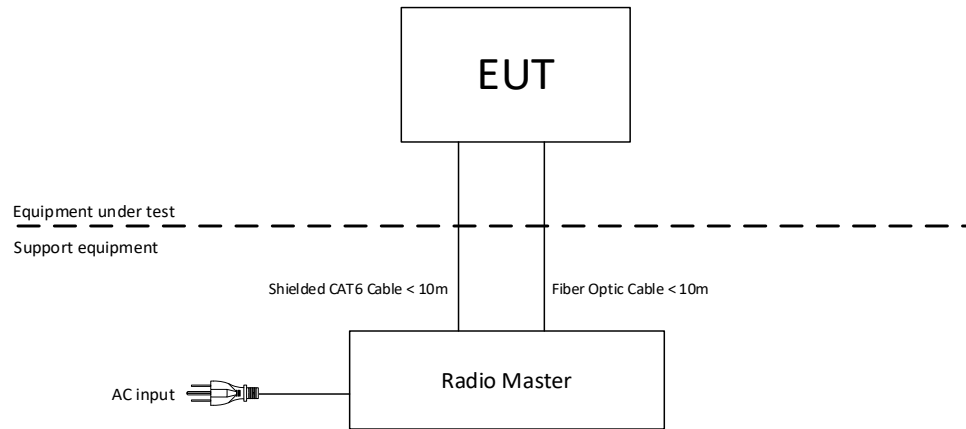


Figure 3.4-1: Setup diagram – Radio Compliance

3.5 Setup photographs

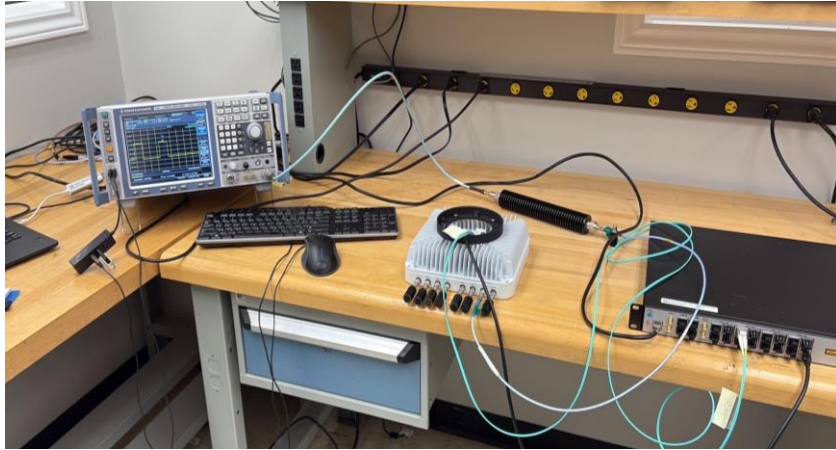


Figure 3.5-1: Set up photo for Conducted Radio Compliance Testing

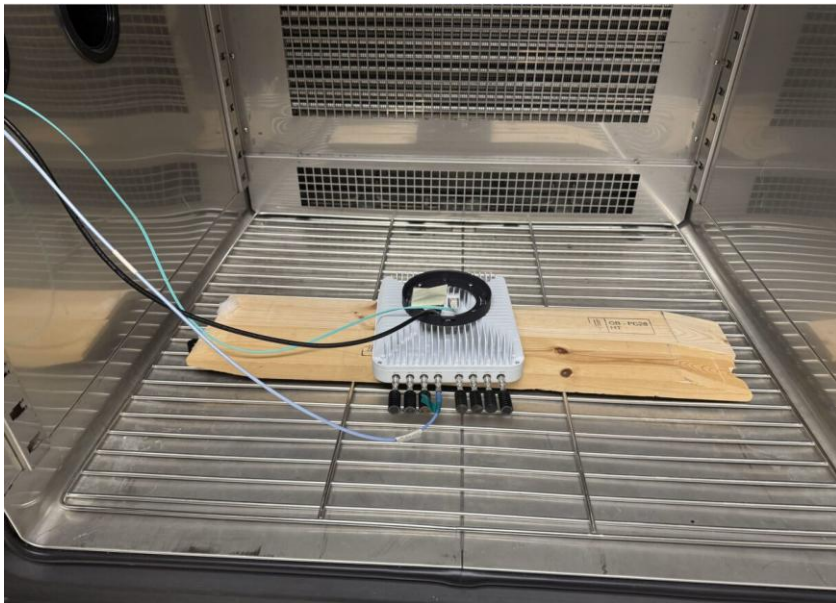


Figure 3.5-2: Set up photo for Conducted Radio Compliance Testing (thermal)

Setup photographs, continued



Figure 3.5-3: EUT Set-up photo for Radiated Emissions [30 MHz to 200 MHz]

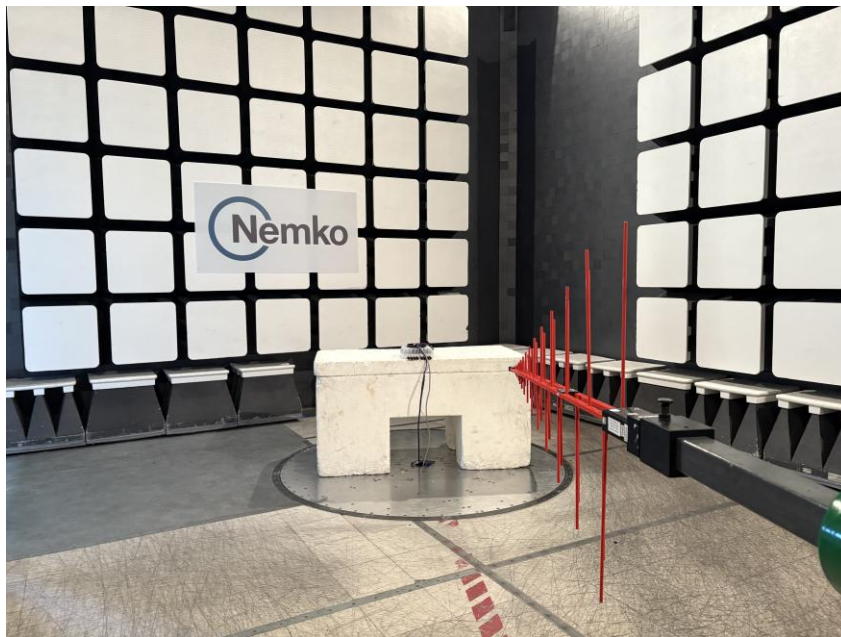


Figure 3.5-4: EUT Set-up photo for Radiated Emissions [200 MHz to 1000 MHz]

Setup photographs, continued

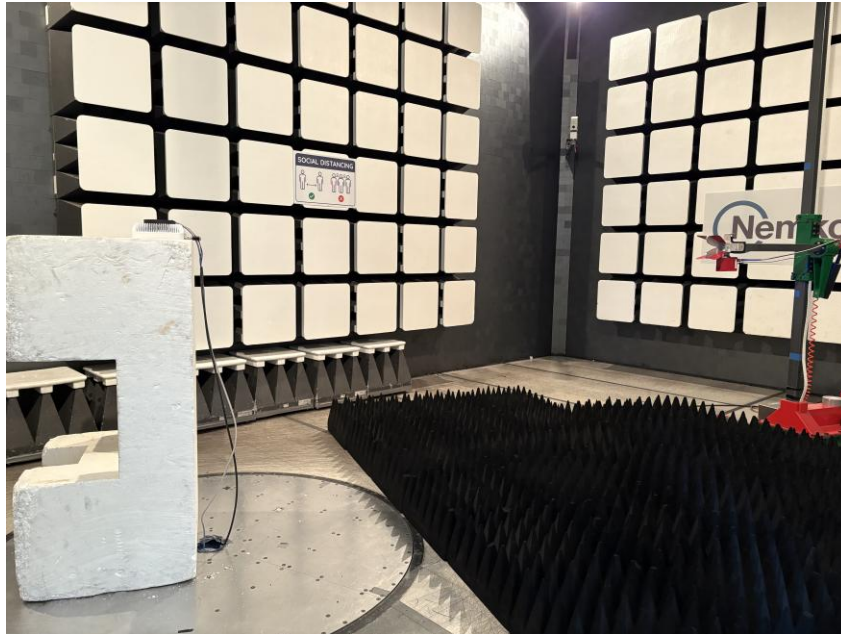


Figure 3.5-5: EUT Set-up photo for Radiated Emissions [1-18 GHz]

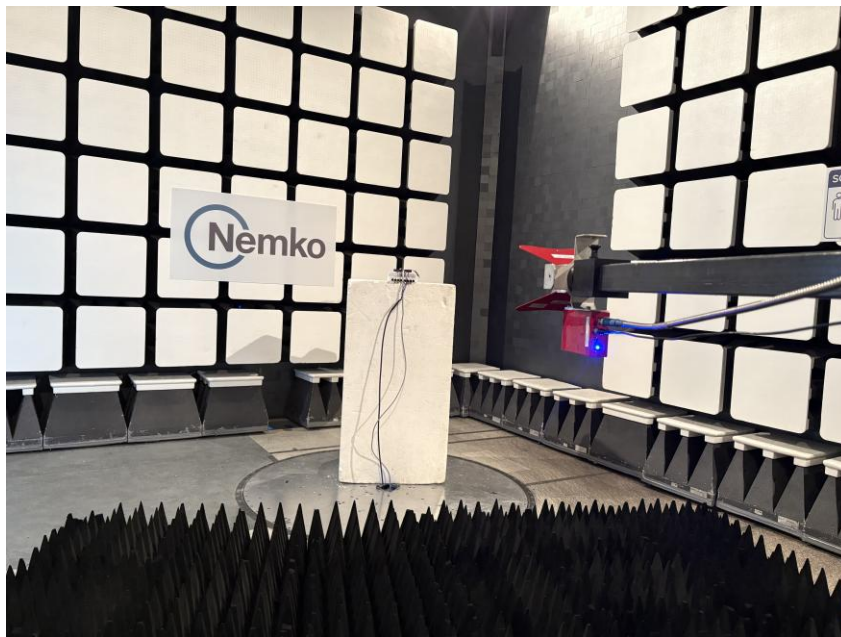


Figure 3.5-6: EUT Set-up photo for Radiated Emissions [1-18 GHz]

Setup photographs, continued

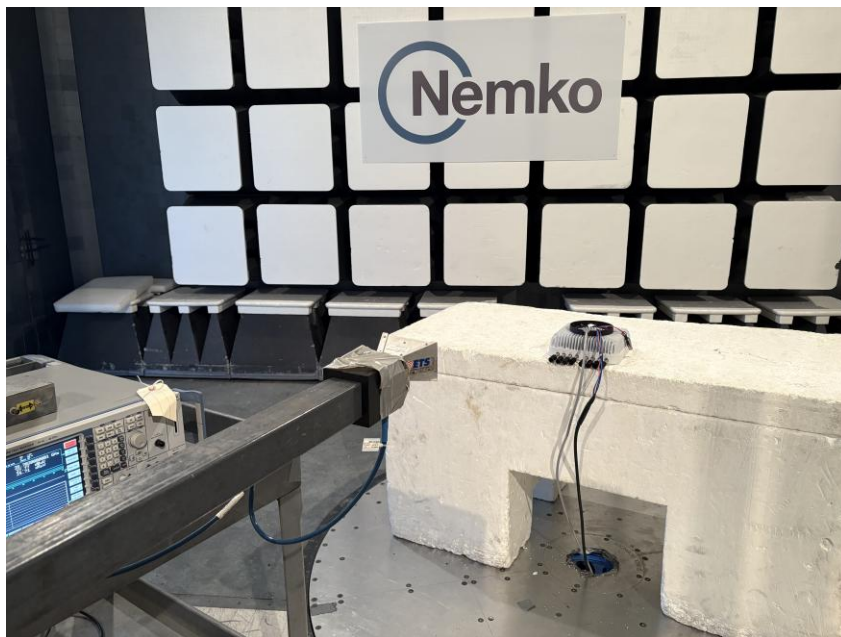


Figure 3.5-7: EUT Set-up photo for Radiated Emissions [18-40 GHz]

Section 4. Engineering considerations

4.1 Modifications incorporated in the EUT

There were no modifications performed to the EUT during this assessment.

4.2 Technical judgment

None

4.3 Model variant declaration

As declared by the applicant, the EUT model pRRU8802 has been chosen to be representative for all other models in the model family. The model family, and the description of the variations, are as follows:

The pRRU8801 and pRRU8802 models use the same hardware. The key difference is in their antenna configurations: the pRRU8801 has internal antennas, while the pRRU8802 supports external antennas. Conducted testing on the antenna port was carried out using the external antenna version (pRRU8802).

4.4 Deviations from laboratory tests procedures

No deviations were made from laboratory procedures.

Section 5. Test conditions

5.1 Atmospheric conditions

Temperature	15–30 °C
Relative humidity	20–75 %
Air pressure	860–1060 mbar

When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.

5.2 Power supply range

The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages $\pm 5\%$, for which the equipment was designed.

Section 6. Measurement uncertainty

6.1 Uncertainty of measurement

Measurement	Measurement uncertainty, $\pm$ dB
Radiated spurious emissions (30 MHz to 1 GHz)	5.8
Radiated spurious emissions (1 GHz to 6 GHz)	4.7
Radiated spurious emissions (6 GHz to 18 GHz)	5.0
Radiated spurious emissions (18 GHz to 26 GHz)	5.0
Radiated spurious emissions (18 GHz to 40 GHz)	5.2
RF Output power measurement using Spectrum Analyzer ¹	0.69
RF Output power measurement using Power Meter	0.54
Conducted spurious emissions	0.94
Frequency stability	163 Hz
Occupied Bandwidth	0.36%
Notes: UKAS Lab 34, TIA-603 and ETSI TR 100 028-1&2 have been used as guidance for measurement uncertainty reasonable estimations with regards to previous experience and validation of data. Nemko Canada Inc. follows these test methods in order to satisfy ISO/IEC 17025 requirements for estimation of uncertainty of measurement for wireless products. Measurement uncertainty calculations assume a coverage factor of K = 2 with 95% certainty.	

Section 7. Test equipment

7.1 Test equipment list

Table 7.1-1: Equipment list

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
Signal and Spectrum Analyzer	Rohde & Schwarz	FSW50	FA003267	1 year	December 4, 2025
NRP18A Average Power Sensor	Rohde & Schwarz	NRP18A	FA003586	1 year	June 4, 2026
Temperature Chamber	Espec	EPX-4H	FA002735	1 year	October 4, 2025
30 dB Attenuator	Aumiwalker	AT67302A	None		VOU
3 m EMI test chamber	TDK	SAC-3	FA002047	1 year	March 14, 2026
Flush mount turntable	Sunol	FM2022	FA002082	—	NCR
Controller	Sunol	SC104V	FA002060	—	NCR
Antenna mast	Sunol	TLT2	FA002061	—	NCR
Horn (1–18 GHz)	ETS Lindgren	3117	FA002840	1 year	March 7, 2026
Preamp (1–18 GHz)	ETS Lindgren	124334	FA002877	1 year	November 19, 2025
Log periodic antenna (200–5000 MHz)	Sunol	LP5	FA002077	1 year	June 11, 2026
Biconical antenna (30–300 MHz)	Sunol	BC2	FA002078	1 year	June 10, 2026
Horn antenna (18–40 GHz)	EMCO	3116	FA002487	1 year	April 21, 2027
Pre-amplifier (18–26.5 GHz)	Narda	BBS-1826N612	FA001550	1 year	March 21, 2026
Pre-amplifier (26.5–40 GHz)	Narda	DBL-2640N610	FA001556	1 year	March 21, 2026
50 Ω coax cable	Carlisle	WHU18-1818-072	FA002391	1 year	October 18, 2025
50 Ω coax cable	Huber+Suhner	104B11NX2/11000	FA003441	1 year	October 18, 2025

Notes: NCR - no calibration required, VOU - verify on use.

* Radio Supporting equipment (CT-DU25) is the test equipment that drives the radios traffic.

Table 7.1-2: Automation software details

Test description	Manufacturer of Software	Details
Radiated spurious emissions	Rohde & Schwarz	EMC32, Software for EMC Measurements, Version 11.20.00

Section 8. Testing data

8.1 Transmitter output power (Band 1930-1995 MHz)-B25

8.1.1 Definitions and limits

FCC §24.232(a)(2):

Base stations with an emission bandwidth greater than 1 MHz are limited to 1640 watts/MHz equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT, except as described in paragraph (b) below.

(2) Base station antenna heights may exceed 300 meters HAAT with a corresponding reduction in power; see table below.

(b)(1) Base stations that are located in counties with population densities of 100 persons or fewer per square mile, based upon the most recently available population statistics from the Bureau of the Census, with an emission bandwidth of 1 MHz or less are limited to 3280 watts equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT.

(d) Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

RSS-133, Section 5.5

The maximum output power of the equipment measured in terms of average values shall comply with the limits specified in table below:

Table 8.1-1: Maximum power of equipment

Equipment type	Maximum power
Non-AAS fixed station and base station	3280 W/MHz e.i.r.p
AAS fixed station and base station	46 dBm/MHz TRP
Subscriber equipment	2 W /channel bandwidth e.i.r.p

Notes: Equipment type is Indoor base station

In addition, the peak-to-average power ratio (PAPR) of the equipment shall not exceed 13 dB for more than 0.1% of the time, using a signal corresponding to the highest PAPR during periods of continuous transmission.

8.1.2 Test summary

Test date	August 21, 2025 and September 5, 2025
Test engineer	Dhara Patel

8.1.3 Observations, settings, and special notes

Output power was measured with RMS power meter per ANSI C63.26 Paragraph 5.2.4.2 method. PSD was measured using method described in paragraph 5.2.4.4.2.

- Randomly selected sample plots provided for information and settings only.
- The EUT supports Band 25 operation exclusively on RF Port 3 and is configured for SISO operation.
- RBS (Radio Base Station) Output Power Limits are deployment dependent. To ensure compliance with legal limits detailed in section 8.1.1, RBS set up and carrier configurations are addressed during site commissioning.
- Test Report results are compiled for the maximum rated output power for worst case emission assessment.
- All modulation configurations were pretested to identify the representative modulation yielding the worst-case power level. The modulations that resulted in the worst-case scenarios were 64QAM
- This radio unit is tested without the antenna. Licensees are required to assess and consider installation and deployment criteria along with maximum power settings, antenna gain, and feeder loss for all carrier configurations to ensure compliance against EIRP limits as defined by the ISED regulations. (See section 8.1.1).
- Report results are compiled for the maximum output rated power for worst case emission assessment. EIRP, based on possible beam configuration, indicate the maximum power / worst case beam configuration based on ideal antenna parameters. Customer carrier configuration and power will be limited to comply with legal limits of 20 dBm/MHz EIRP during RBS site set up and commissioning. Non-compliant configurations will be restricted to lower carrier power to ensure compliance.
- The measurements were performed using the calibrated path and included the duty cycle correction based on the test configuration. For NR TDD, with a duty cycle of 84%, a compensation factor of 0.75 dB was applied. The factor was added to the input correction factors of the spectrum analyzer and the power meter in addition to the path loss.
- **The maximum antenna gain for an RBS (Radio Base Station) system is 3.5 dBi. Maximum measured PSD to EIRP limit margin is 42.47 dB (worst-case margin).**

Spectrum analyzer settings for PSD:

Detector mode	RMS
Resolution bandwidth	1 MHz
Video bandwidth	>RBW
Measurement mode	Power over emission bandwidth
Trace mode	Averaging

8.1.4 Test data

Table 8.1-2: EIRP calculation based on the worst-case PSD measurement.

Frequency, MHz	RF power density, dBm/MHz	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
1932.50	19.18	3.5	22.68	65.15	42.47

Table 8.1-3: RF power density measurement results of a single-carrier operation for LTE on 5 MHz channel

Frequency, MHz	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
1932.50	19.05	22.55	65.15	42.60
1962.50	18.63	22.13	65.15	43.02
1992.50	18.71	22.21	65.15	42.94

Table 8.1-4: RF power density measurement results of a single-carrier operation for LTE on 20 MHz channel

Frequency, MHz	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
1940.00	13.33	16.83	65.15	48.32
1962.50	12.75	16.25	65.15	48.90
1985.00	12.81	16.31	65.15	48.84

Table 8.1-5: RF power density measurement results of a single-carrier operation for NR on 5 MHz channel

Frequency, MHz	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
1932.50	19.18	22.68	65.15	42.47
1962.50	18.90	22.40	65.15	42.75
1992.50	18.47	21.97	65.15	43.18

Table 8.1-6: RF power density measurement results of a single-carrier operation for NR on 10 MHz channel

Frequency, MHz	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
1935.00	15.95	19.45	65.15	45.70
1962.50	15.38	18.88	65.15	46.27
1990.00	15.50	19.00	65.15	46.15

Table 8.1-7: RF power density measurement results of a single-carrier operation for NR on 15 MHz channel

Frequency, MHz	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
1937.50	13.92	17.42	65.15	47.73
1962.50	13.61	17.11	65.15	48.04
1987.50	13.89	17.39	65.15	47.76

Table 8.1-8: RF power density measurement results of a multi-carrier operation for LTE on 5 MHz+20 MHz channel [Non-Contiguous]

Notes	Channel	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 carriers	Mid	13.42	16.92	65.15	48.23

Test data, continued

Table 8.1-9: RF total channel power measurement results for LTE 5 MHz

Remarks	Transmit power, dBm
Low channel	23.61
Mid channel	23.60
Top channel	23.71

Table 8.1-10: RF total channel power measurement results for LTE 20 MHz

Remarks	Transmit power, dBm
Low channel	23.62
Mid channel	23.56
Top channel	23.69

Table 8.1-11: RF total channel power measurement results for NR 5 MHz

Remarks	Transmit power, dBm
Low channel	23.62
Mid channel	23.54
Top channel	23.63

Table 8.1-12: RF total channel power measurement results for NR 10 MHz

Remarks	Transmit power, dBm
Low channel	23.60
Mid channel	23.46
Top channel	23.60

Table 8.1-13: RF total channel power measurement results for NR 15 MHz

Remarks	Transmit power, dBm
Low channel	23.51
Mid channel	23.54
Top channel	23.61

Table 8.1-14: RF total channel power measurement results for LTE Multi-carrier [5 MHz + 20 MHz, Non-Contiguous]

Carriers	Channel	Transmit power, dBm
2 Carriers	Mid Channel	23.89

Test data, continued

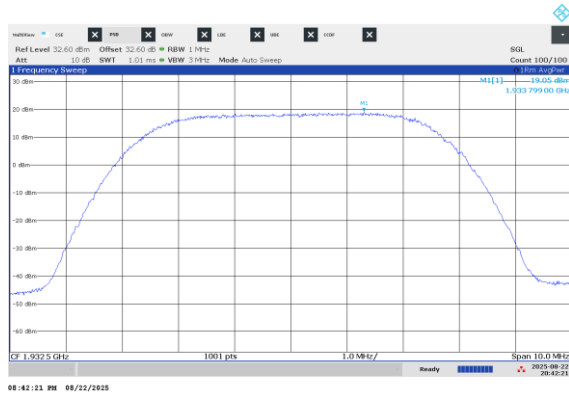


Figure 8.1-1: Power of LTE 5 MHz channel bandwidth, single carrier operation, sample plot

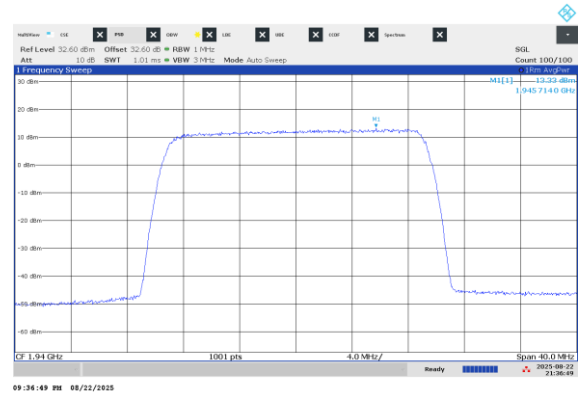


Figure 8.1-2: Power of LTE 20 MHz channel bandwidth, single carrier operation, sample plot

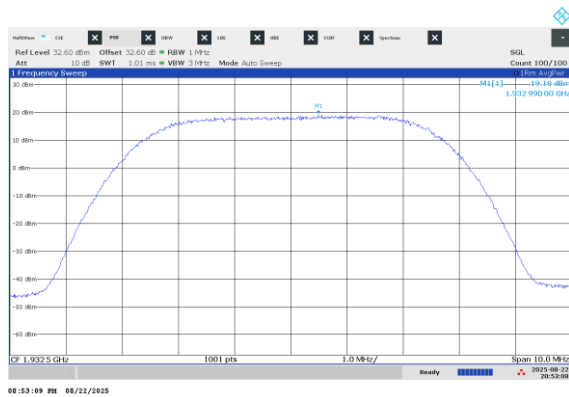


Figure 8.1-3: Power of NR 5 MHz channel bandwidth, single carrier operation, sample plot

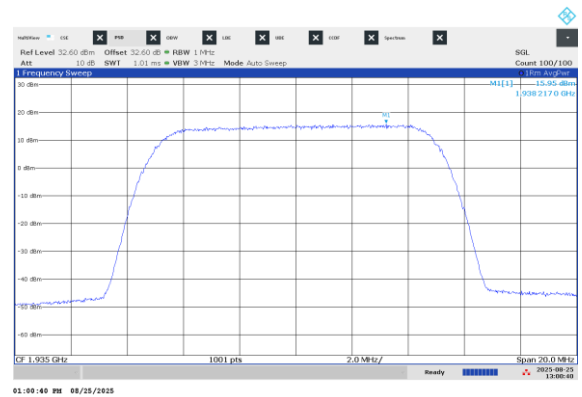


Figure 8.1-4: Power of NR 10 MHz channel bandwidth, single carrier operation, sample plot

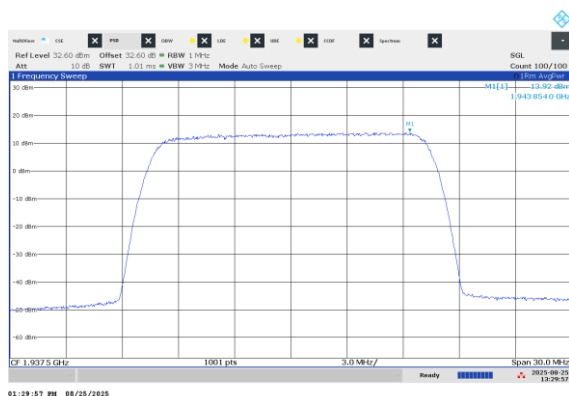


Figure 8.1-5: Power of NR 15 MHz channel bandwidth, single carrier operation, sample plot

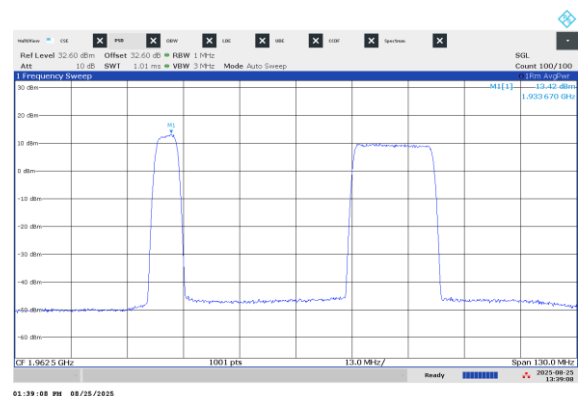


Figure 8.1-6: Power of LTE 5+20 MHz channel, multi-carrier non-contiguous operation, sample plot, [2 Carrier]

Test data, continued

Table 8.1-15: Complementary Cumulative Distribution Function (CCDF) of the PAPR reduction measurement results for single carrier operation for LTE 5 MHz

Remarks	Frequency, MHz	Peak, dB	Average, dB	Delta, dB	PAPR reduction limit, dB	Margin, dB
5 MHz, Low channel	1932.50	28.08	19.13	8.95	13.00	4.05
5 MHz, Mid channel	1962.50	28.28	18.67	9.61	13.00	3.39
5 MHz, Top channel	1992.50	28.15	18.51	9.64	13.00	3.36

Table 8.1-16: Complementary Cumulative Distribution Function (CCDF) of the PAPR reduction measurement results for single carrier operation for LTE 20 MHz

Remarks	Frequency, MHz	Peak, dB	Average, dB	Delta, dB	PAPR reduction limit, dB	Margin, dB
20 MHz, Low channel	1940.00	23.23	13.24	9.99	13.00	3.01
20 MHz, Mid channel	1962.50	22.48	12.65	9.83	13.00	3.17
20 MHz, Top channel	1985.00	22.15	12.97	9.18	13.00	3.82

Table 8.1-17: Complementary Cumulative Distribution Function (CCDF) of the PAPR reduction measurement results for single carrier operation for NR 5 MHz

Remarks	Frequency, MHz	Peak, dB	Average, dB	Delta, dB	PAPR reduction limit, dB	Margin, dB
5 MHz, Low channel	1932.50	27.92	19.09	8.83	13.00	4.17
5 MHz, Mid channel	1962.50	27.85	18.86	8.99	13.00	4.01
5 MHz, Top channel	1992.50	27.66	18.39	9.27	13.00	3.73

Table 8.1-18: Complementary Cumulative Distribution Function (CCDF) of the PAPR reduction measurement results for single carrier operation for NR 10 MHz

Remarks	Frequency, MHz	Peak, dB	Average, dB	Delta, dB	PAPR reduction limit, dB	Margin, dB
10 MHz, Low channel	1935.00	24.49	15.86	8.63	13.00	4.37
10 MHz, Mid channel	1962.50	24.35	15.56	8.79	13.00	4.21
10 MHz, Top channel	1990.00	25.04	15.51	9.53	13.00	3.47

Table 8.1-19: Complementary Cumulative Distribution Function (CCDF) of the PAPR reduction measurement results for single carrier operation for NR 15 MHz

Remarks	Frequency, MHz	Peak, dB	Average, dB	Delta, dB	PAPR reduction limit, dB	Margin, dB
15 MHz, Low channel	1937.50	22.80	14.16	8.64	13.00	4.36
15 MHz, Mid channel	1962.50	22.64	13.84	8.80	13.00	4.20
15 MHz, Top channel	1990.00	22.91	13.86	9.05	13.00	3.95

Test data, continued

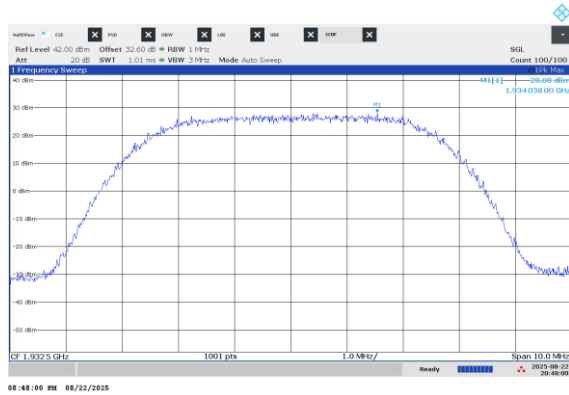


Figure 8.1-7: CCDF sample plot, LTE 5 MHz [peak]

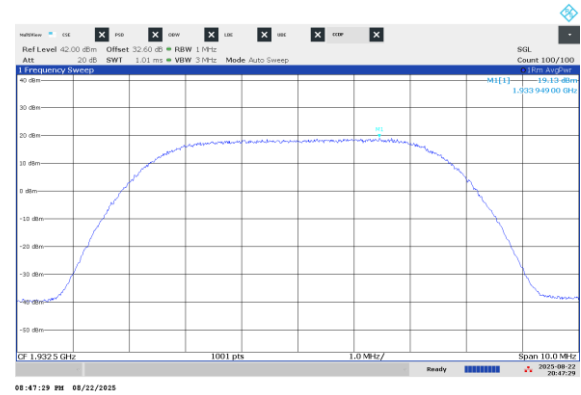


Figure 8.1-8: CCDF sample plot, LTE 5 MHz [average]

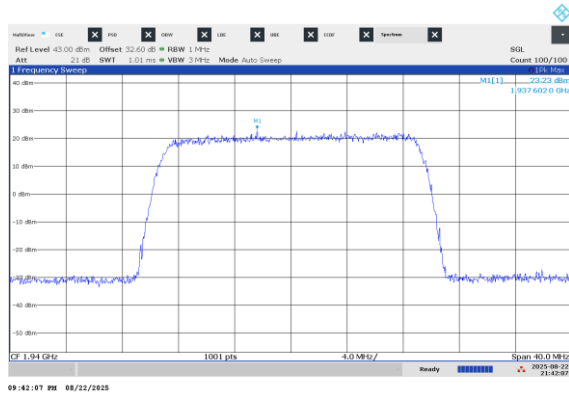


Figure 8.1-9: CCDF sample plot, LTE 20 MHz [peak]

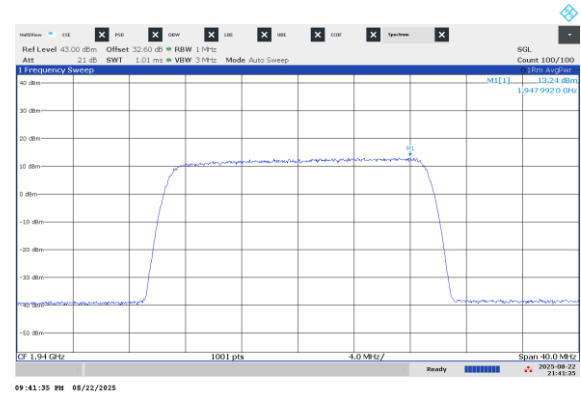


Figure 8.1-10: CCDF sample plot, LTE 20 MHz [average]

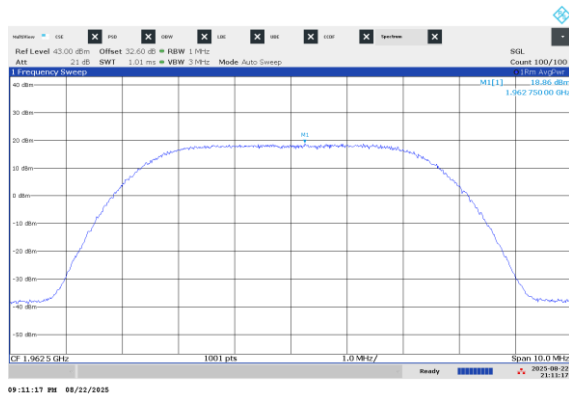


Figure 8.1-11: CCDF sample plot, NR 5 MHz [peak]

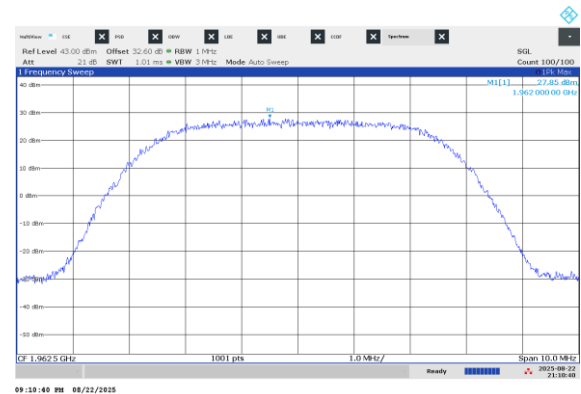


Figure 8.1-12: CCDF sample plot, NR 5 MHz [average]

Test data, continued

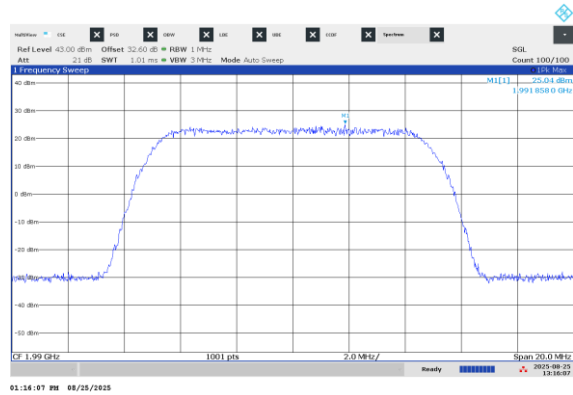


Figure 8.1-13: CCDF sample plot, NR 10 MHz [peak]

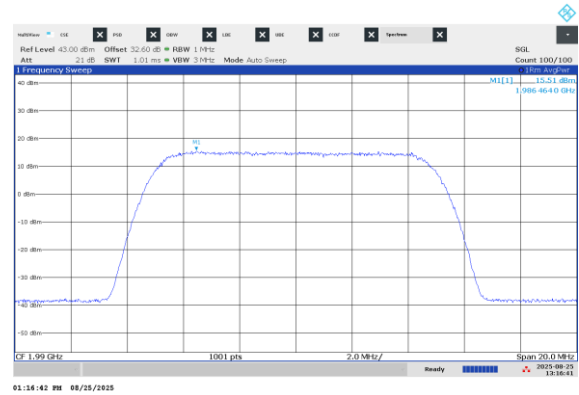


Figure 8.1-14: CCDF sample plot, NR 10 MHz [average]

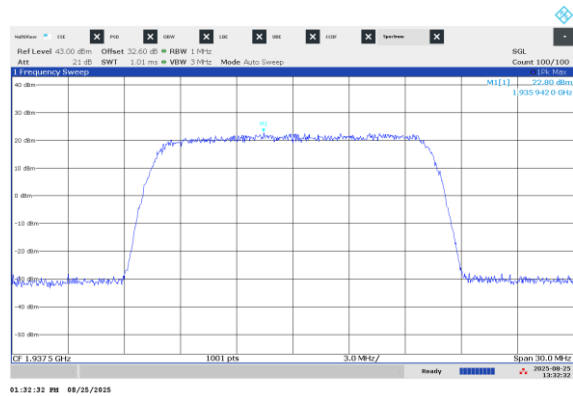


Figure 8.1-15: CCDF sample plot, NR 15 MHz [peak]

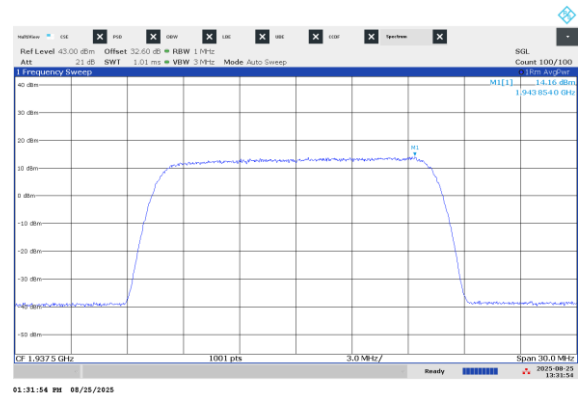


Figure 8.1-16: CCDF sample plot, NR 15 MHz [average]

8.2 Transmitter output power (Band 2110–2200 MHz)-B66

8.2.1 Definitions and limits

RSS-139 Section 5.5:

The maximum output power of the equipment shall comply with the limits specified below. In the tables, maximum power refers to the equivalent isotropically radiated power (e.i.r.p.) or total radiated power (TRP), measured in terms of average values.

Table 8.2-1: Maximum power of equipment in the band 2110-2180 MHz

Equipment type	Maximum power
Non-AAS fixed station and base station	65 dBm e.i.r.p./MHz
AAS fixed station and base station	46 dBm TRP/MHz
Subscriber equipment	30 dBm e.i.r.p./channel bandwidth

Table 8.2-2: Maximum power of equipment in the band 2180-2200 MHz

Equipment type	Maximum power
Non-AAS base station	65 dBm e.i.r.p./MHz
AAS base station	46 dBm TRP/MHz

In addition, the peak to average power ratio (PAPR) of the equipment shall not exceed 13 dB for more than 0.1% of the time, using a signal that corresponds to the highest PAPR during periods of continuous transmission.

FCC §27.50(d)(2):

The power of each fixed or base station transmitting in the 1995-2000 MHz, the 2110-2155 MHz 2155-2180 MHz band, or 2180-2200 MHz band and situated in any geographic location other than that described in paragraph (d)(1) of this section is limited to:

- (i) An equivalent isotropically radiated power (EIRP) of 1640 watts when transmitting with an emission bandwidth of 1 MHz or less;
- (ii) An EIRP of 1640 watts/MHz when transmitting with an emission bandwidth greater than 1 MHz..

8.2.2 Test summary

Verdict	Pass		
Test date	August 21, 2025 – August 28, 2025	Temperature	19-21 °C
Tested by	Dhara Patel	Air pressure	995-1005 mbar
Test location	Ottawa	Relative humidity	35-38 %

8.2.3 Observations, settings, and special notes

Output power was measured with RMS power meter per ANSI C63.26 Paragraph 5.2.4.2 method. PSD was measured using method described in paragraph 5.2.4.4.2.

- Sample plots provided for information and settings only and represent the worst-case results.
- The EUT supports Band 66 operation exclusively on RF port 4 and is configured for SISO operation.
- RBS (Radio Base Station) Output Power Limits are deployment dependent. To ensure compliance with legal limits detailed in section 8.1.1, RBS set up and carrier configurations are addressed during site commissioning.
- Test Report results are compiled for the maximum rated output power for worst case emission assessment.
- All modulation configurations were pretested to identify the representative modulation yielding the worst-case power level. The modulations that resulted in the worst-case scenarios were 256QAM with NB IoT where it applies.
- This radio unit is tested without the antenna. Licenses are required to assess and consider installation and deployment criteria along with maximum power settings, antenna gain, and feeder loss for all carrier configurations to ensure compliance against TRP limits as defined by the ISSED regulations. (See section 8.1.1).
- **Maximum measured PSD to EIRP limit margin is 54.31 dB. Power settings and carrier configurations will be limited to lower power as warranted based on deployment scenarios as per ISSED regulations as defined in section 8.1.1.**
- Channel bandwidth in this document will be referenced as CB

Detector mode	RMS
Resolution bandwidth	1 MHz
Video bandwidth	>RBW
Measurement mode	Power over channel bandwidth
Trace mode	Averaging
Measurement time	Auto

8.2.1 Test data

Table 8.2-3: EIRP calculation based on the worst-case PSD measurement.

Frequency, MHz	RF power density, dBm/MHz	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2115.00	16.34	3.5	19.84	65.15	45.31

Table 8.2-4: RF power density measurement results of a single-carrier operation for LTE on 15 MHz channel

Frequency, MHz	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2117.50	14.48	17.98	65.15	47.17
2155.00	14.50	18.00	65.15	47.15
2192.50	14.85	18.35	65.15	46.80

Table 8.2-5: RF power density measurement results of a single-carrier operation for NR on 10 MHz channel

Frequency, MHz	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2115.00	16.34	19.84	65.15	45.31
2155.00	15.97	19.47	65.15	45.68
2195.00	15.80	19.30	65.15	45.85

Table 8.2-6: RF power density measurement results of a single-carrier operation for NR on 20 MHz channel

Frequency, MHz	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2120.00	13.14	16.64	65.15	48.51
2155.00	12.24	15.74	65.15	49.41
2190.00	13.21	16.71	65.15	48.44

Table 8.2-7: RF power density measurement results of a single-carrier operation for NR on 30 MHz channel

Frequency, MHz	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2125.00	11.48	14.98	65.15	50.17
2155.00	11.35	14.85	65.15	50.30
2185.00	11.29	14.79	65.15	50.36

Test data, continued

Table 8.2-8: RF total channel power measurement results for LTE 15 MHz

Remarks	Transmit power, dBm
Low channel	23.98
Mid channel	23.80
Top channel	23.97

Note: all results in the table are in dBm units

Table 8.2-9: RF total channel power measurement results for NR 10 MHz

Remarks	Transmit power, dBm
Low channel	23.99
Mid channel	23.82
Top channel	23.88

Note: all results in the table are in dBm units

Table 8.2-10: RF total channel power measurement results for NR 20 MHz

Remarks	Transmit power, dBm
Low channel	23.99
Mid channel	23.85
Top channel	23.95

Note: all results in the table are in dBm units

Table 8.2-11: RF total channel power measurement results for NR 30 MHz

Remarks	Transmit power, dBm
Low channel	23.93
Mid channel	23.82
Top channel	23.96

Note: all results in the table are in dBm units

Test data, continued

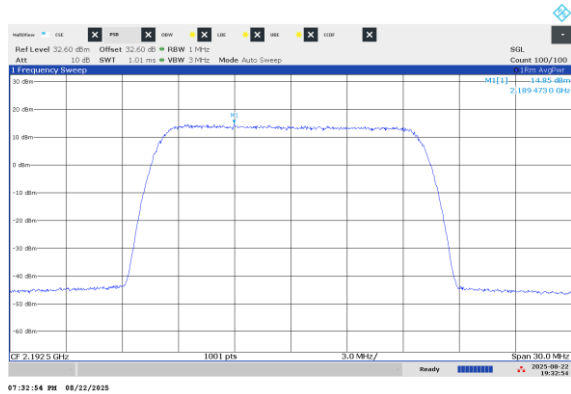


Figure 8.2-1: Power of LTE 15 MHz channel bandwidth, single carrier operation, sample plot

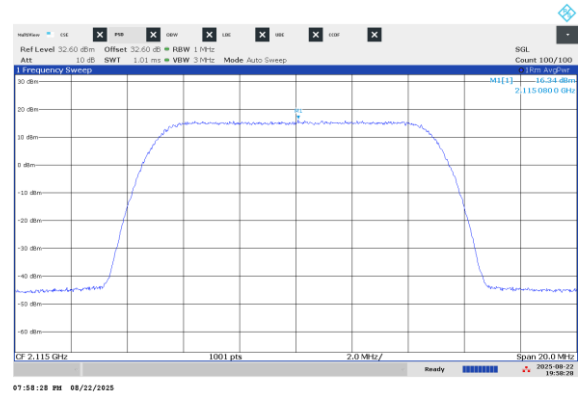


Figure 8.2-2: Power of NR 10 MHz channel bandwidth, single carrier operation, sample plot

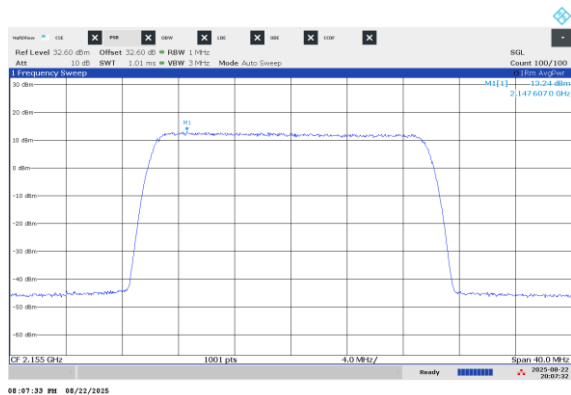


Figure 8.2-3: Power of NR 20 MHz channel bandwidth, single carrier operation, sample plot

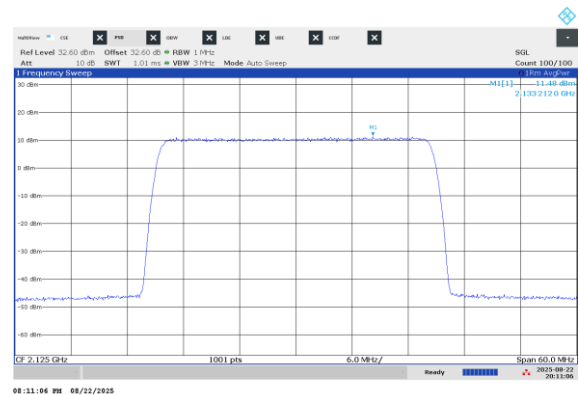


Figure 8.2-4: Power of NR 30 MHz channel bandwidth, single carrier operation, sample plot

Test data, continued

Table 8.2-12: Complementary Cumulative Distribution Function (CCDF) of the PAPR reduction measurement results for single carrier operation for LTE 15 MHz

Remarks	Frequency, MHz	Peak, dB	Average, dB	Delta, dB	PAPR reduction limit, dB	Margin, dB
15 MHz, Low channel	2117.50	23.85	12.26	11.59	13.00	1.41
15 MHz, Mid channel	2155.00	24.55	14.47	10.08	13.00	2.92
15 MHz, Top channel	2192.50	23.77	14.67	9.10	13.00	3.90

Table 8.2-13: Complementary Cumulative Distribution Function (CCDF) of the PAPR reduction measurement results for single carrier operation for NR 10 MHz

Remarks	Frequency, MHz	Peak, dB	Average, dB	Delta, dB	PAPR reduction limit, dB	Margin, dB
10 MHz, Low channel	2115.00	25.44	15.92	9.52	13.00	3.48
10 MHz, Mid channel	2155.00	25.58	15.83	9.75	13.00	3.25
10 MHz, Top channel	2195.00	25.61	15.95	9.66	13.00	3.34

Table 8.2-14: Complementary Cumulative Distribution Function (CCDF) of the PAPR reduction measurement results for single carrier operation for NR 20 MHz

Remarks	Frequency, MHz	Peak, dB	Average, dB	Delta, dB	PAPR reduction limit, dB	Margin, dB
20 MHz, Low channel	2120.00	22.78	13.03	9.75	13.00	3.25
20 MHz, Mid channel	2155.00	22.76	12.92	9.84	13.00	3.16
20 MHz, Top channel	2190.00	22.62	12.94	9.68	13.00	3.32

Table 8.2-15: Complementary Cumulative Distribution Function (CCDF) of the PAPR reduction measurement results for single carrier operation for NR 30 MHz

Remarks	Frequency, MHz	Peak, dB	Average, dB	Delta, dB	PAPR reduction limit, dB	Margin, dB
30 MHz, Low channel	2125.00	21.04	11.11	9.93	13.00	3.07
30 MHz, Mid channel	2155.00	20.79	11.18	9.61	13.00	3.39
30 MHz, Top channel	2185.00	21.11	11.30	9.81	13.00	3.19

Test data, continued

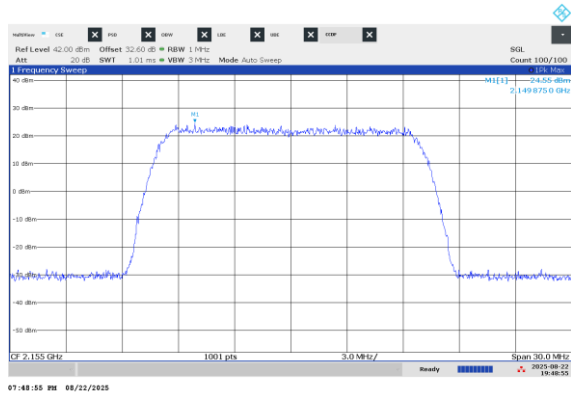


Figure 8.2-5: CCDF sample plot, LTE 15 MHz [peak]

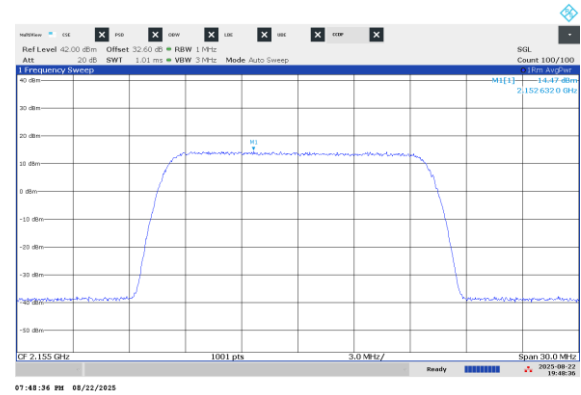


Figure 8.2-6: CCDF sample plot, LTE 15 MHz [average]

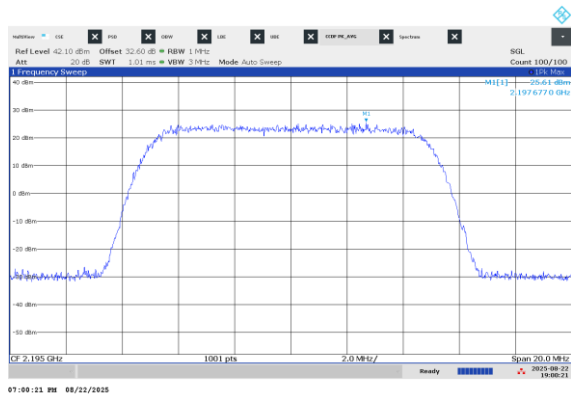


Figure 8.2-7: CCDF sample plot, NR 10 MHz [peak]

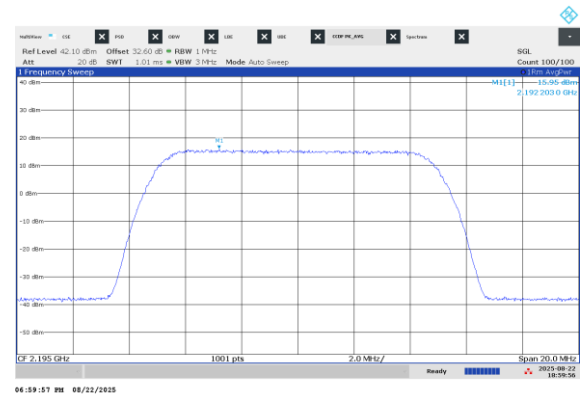


Figure 8.2-8: CCDF sample plot, NR 10 MHz [average]

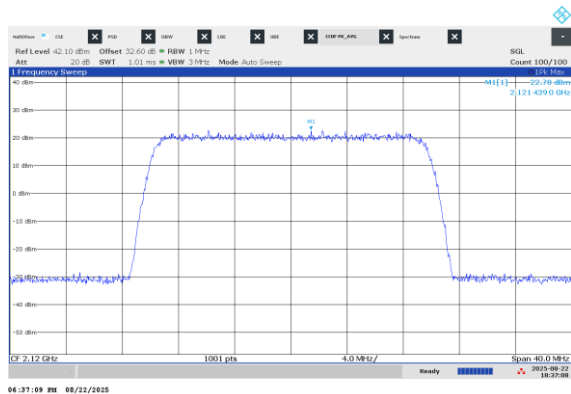


Figure 8.2-9: CCDF sample plot, NR 20 MHz [peak]

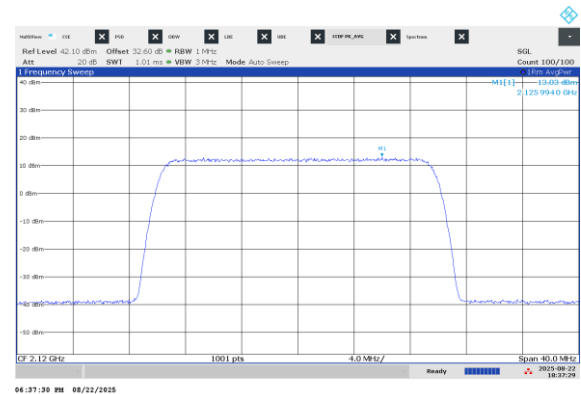


Figure 8.2-10: CCDF sample plot, NR 20 MHz [average]



Test data, continued

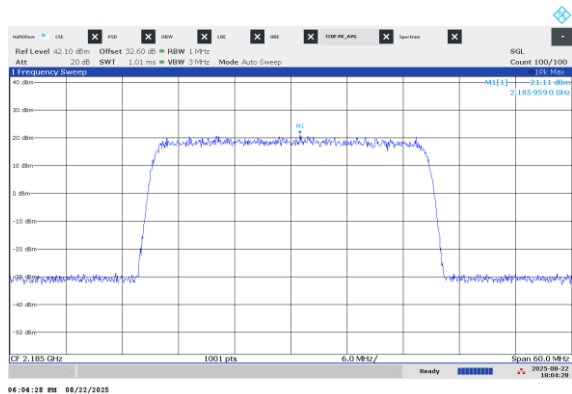


Figure 8.2-11: CCDF sample plot, NR 30 MHz [peak]

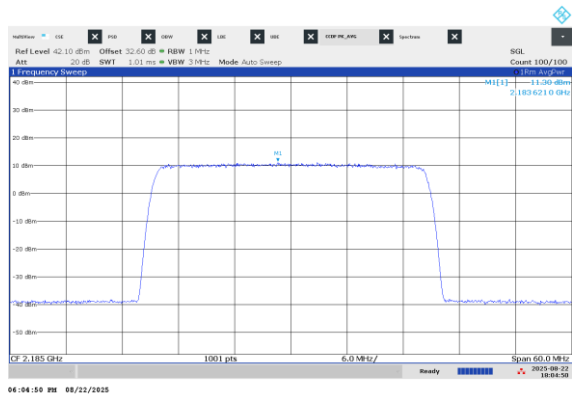


Figure 8.2-12: CCDF sample plot, NR 30 MHz [average]

8.3 Transmitter output power (Band 2620–2690 MHz)-B7

8.3.1 Definitions and limits

RSS-199 Section 5.5:

The maximum output power of the equipment shall comply with the limits specified in table 3. In this table, maximum power refers to the equivalent isotropically radiated power (e.i.r.p.) or total radiated power (TRP), measured in terms of average values.

The maximum power limits for fixed station and base station are provided in the table below. The limits in this RSS are specified for the purpose of certification and may not apply to all deployment scenarios. Consult SRSP-517 for more deployment details in the band 2500-2690 MHz.

Table 8.3-1: Maximum power of fixed station and base station in the band 2500-2690 MHz

Equipment type	Maximum power
Non-AAS fixed station and base station	e.i.r.p of 1640 W /MHz
AAS fixed station and base station	TRP of 43 dBm /MHz

In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

FCC §27.50(h)(1): Main, booster and base stations.

(i) The maximum EIRP of a main, booster or base station shall not exceed $33 \text{ dBW} + 10\log(X/Y) \text{ dBW}$, where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition, except as provided in paragraph (h)(1)(ii) of this section.

8.3.2 Test summary

Verdict	Pass		
Test date	August 21, 2025 – August 28, 2025	Temperature	19-21 °C
Tested by	Dhara Patel	Air pressure	995-1005 mbar
Test location	Ottawa	Relative humidity	35-38 %

8.3.3 Observations, settings, and special notes

Output power was measured with RMS power meter per ANSI C63.26 Paragraph 5.2.4.2 method. PSD was measured using method described in paragraph 5.2.4.4.2.

- Sample plots provided for information and settings only and represent the worst-case results.
- The EUT supports Band 7 operation exclusively on RF ports 2 and 5.
- Total MIMO Power was calculated as follows: Power from one antenna port + $10 \times \text{Log}_{10}(2)$
- RBS (Radio Base Station) Output Power Limits are deployment dependent. To ensure compliance with legal limits detailed in section 8.1.1, RBS set up and carrier configurations are addressed during site commissioning.
- Test Report results are compiled for the maximum rated output power for worst case emission assessment.
- All modulation configurations were pretested to identify the representative modulation yielding the worst-case power level. The modulations that resulted in the worst-case scenarios were 256QAM.
- This radio unit is tested without the antenna. Licenses are required to assess and consider installation and deployment criteria along with maximum power settings, antenna gain, and feeder loss for all carrier configurations to ensure compliance against TRP limits as defined by the ISED regulations. (See section 8.1.1).
- **Maximum measured PSD to EIRP limit margin is 45.46 dB. Power settings and carrier configurations will be limited to lower power as warranted based on deployment scenarios as per ISED regulations as defined in section 8.1.1.**
- Channel bandwidth in this document will be referenced as CB
- The product is considered a completely uncorrelated system and therefore the directional gain is equal to the single antenna gain.

Detector mode	RMS
Resolution bandwidth	1 MHz
Video bandwidth	>RBW
Measurement mode	Power over channel bandwidth
Trace mode	Averaging
Measurement time	Auto

8.3.4 Test data

Table 8.3-2: EIRP calculation based on the worst-case PSD measurement.

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2625.00	16.19	19.19	3.5	22.69	65.15	42.46

For MIMO compliance, a 3 dB adjustment must be subtracted from the calculated margin in the tables below (from 8.3-3 to 8.3-16).

Table 8.3-3: RF power density measurement results of a single-carrier operation for LTE on 10 MHz channel

Frequency, MHz	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2625.00	16.19	19.69	65.15	45.46
2655.00	15.93	19.43	65.15	45.72
2685.00	15.71	19.21	65.15	45.94

Table 8.3-4: RF power density measurement results of a single-carrier operation for LTE on 15 MHz channel

Frequency, MHz	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2627.50	14.45	17.95	65.15	47.20
2655.00	14.34	17.84	65.15	47.31
2682.50	14.04	17.54	65.15	47.61

Table 8.3-5: RF power density measurement results of a single-carrier operation for LTE on 20 MHz channel

Frequency, MHz	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2630.00	12.53	16.03	65.15	49.12
2655.00	12.95	16.45	65.15	48.70
2680.00	13.06	16.56	65.15	48.59

Table 8.3-6: RF power density measurement results of a single-carrier operation for NR on 10 MHz channel

Frequency, MHz	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2625.00	15.99	19.49	65.15	45.66
2655.00	15.71	19.21	65.15	45.94
2685.00	15.52	19.02	65.15	46.13

Table 8.3-7: RF power density measurement results of a single-carrier operation for NR on 15 MHz channel

Frequency, MHz	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2627.50	14.16	17.66	65.15	47.49
2655.00	13.93	17.43	65.15	47.72
2682.50	14.05	17.55	65.15	47.60

Table 8.3-8: RF power density measurement results of a single-carrier operation for NR on 20 MHz channel

Frequency, MHz	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2630.00	13.22	16.72	65.15	48.43
2655.00	12.68	16.18	65.15	48.97
2680.00	12.77	16.27	65.15	48.88

Test data, continued

Table 8.3-9: RF power density measurement results of a multi-carrier operation for 2xLTE 10 MHz channel [Non-Contiguous]

Notes	Channel	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	Mid	12.33	15.83	65.15	49.32

Table 8.3-10: RF power density measurement results of a multi-carrier operation for 2xLTE 20 MHz channel [Non-Contiguous]

Notes	Channel	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	Mid	10.04	13.54	65.15	51.61

Table 8.3-11: RF power density measurement results of a multi-carrier operation for 3xLTE 10 MHz channel [Non-Contiguous]

Notes	Channel	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
3 Carriers	Mid	11.36	14.86	65.15	50.29

Table 8.3-12: RF power density measurement results of a multi-carrier operation for LTE 10 MHz + 20 MHz + 10 MHz channel [Non-Contiguous]

Notes	Channel	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
3 Carriers	Mid	10.56	14.76	65.15	50.39

Table 8.3-13: RF power density measurement results of a multi-carrier operation for 2xNR 10 MHz channel [Non-Contiguous]

Notes	Channel	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	Mid	12.01	16.21	65.15	48.94

Table 8.3-14: RF power density measurement results of a multi-carrier operation for 2xNR 20 MHz channel [Non-Contiguous]

Notes	Channel	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	Mid	9.67	13.17	65.15	51.98

Table 8.3-15: RF power density measurement results of a multi-carrier operation for 3xNR 10 MHz channel [Non-Contiguous]

Notes	Channel	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
3 Carriers	Mid	11.00	14.50	65.15	50.65

Table 8.3-16: RF power density measurement results of a multi-carrier operation for NR 10 MHz + 20 MHz + 10 MHz channel [Non-Contiguous]

Notes	Channel	RF power density, dBm/MHz	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
3 Carriers	Mid	10.61	14.11	65.15	51.04

Test data, continued

Table 8.3-17: RF total channel power measurement results for LTE 10 MHz

Remarks	Transmit power, dBm
Low channel	23.99
Mid channel	23.99
Top channel	23.80

Note: all results in the table are in dBm units

Table 8.3-18: RF total channel power measurement results for LTE 15 MHz

Remarks	Transmit power, dBm
Low channel	23.95
Mid channel	23.97
Top channel	23.89

Note: all results in the table are in dBm units

Table 8.3-19: RF total channel power measurement results for LTE 20 MHz

Remarks	Transmit power, dBm
Low channel	23.96
Mid channel	23.98
Top channel	23.91

Note: all results in the table are in dBm units

Table 8.3-20: RF total channel power measurement results for NR 10 MHz

Remarks	Transmit power, dBm
Low channel	23.83
Mid channel	23.94
Top channel	23.66

Note: all results in the table are in dBm units

Table 8.3-21: RF total channel power measurement results for NR 15 MHz

Remarks	Transmit power, dBm
Low channel	23.86
Mid channel	23.93
Top channel	23.88

Note: all results in the table are in dBm units

Table 8.3-22: RF total channel power measurement results for NR 20 MHz

Remarks	Transmit power, dBm
Low channel	23.96
Mid channel	23.91
Top channel	23.89

Note: all results in the table are in dBm units

Table 8.3-23: RF total channel power measurement results for 2xLTE 10 MHz [Non-contiguous]

Remarks	Transmit power, dBm
Mid channel	23.90

Note: all results in the table are in dBm units

Test data, continued

Table 8.3-24: RF total channel power measurement results for 2xLTE 20 MHz [Non-contiguous]

Remarks	Transmit power, dBm
Mid channel	23.94

Note: all results in the table are in dBm units

Table 8.3-25: RF total channel power measurement results for 3xLTE 10 MHz [Non-contiguous]

Remarks	Transmit power, dBm
Mid channel	23.99

Note: all results in the table are in dBm units

Table 8.3-26: RF total channel power measurement results for LTE 10 MHz +20 MHz + 10 MHz [Non-contiguous]

Remarks	Transmit power, dBm
Mid channel	23.93

Note: all results in the table are in dBm units

Table 8.3-27: RF total channel power measurement results for 2xNR 10 MHz [Non-contiguous]

Remarks	Transmit power, dBm
Mid channel	23.77

Note: all results in the table are in dBm units

Table 8.3-28: RF total channel power measurement results for 2xNR 20 MHz [Non-contiguous]

Remarks	Transmit power, dBm
Mid channel	23.92

Note: all results in the table are in dBm units

Table 8.3-29: RF total channel power measurement results for 3xNR 10 MHz [Non-contiguous]

Remarks	Transmit power, dBm
Mid channel	23.98

Note: all results in the table are in dBm units

Table 8.3-30: RF total channel power measurement results for NR 10 MHz +20 MHz + 10 MHz [Non-contiguous]

Remarks	Transmit power, dBm
Mid channel	23.90

Note: all results in the table are in dBm units

Test data, continued

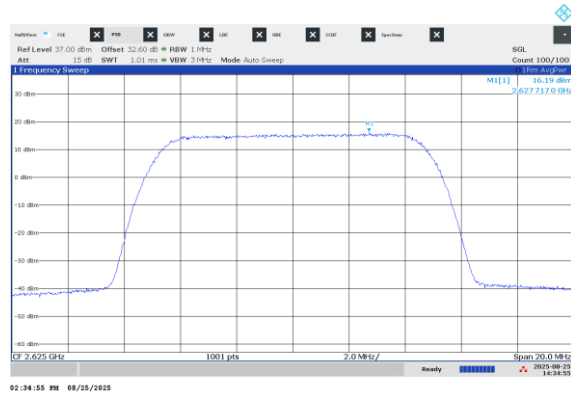


Figure 8.3-1: Power of LTE 10 MHz channel bandwidth, single carrier operation, sample plot

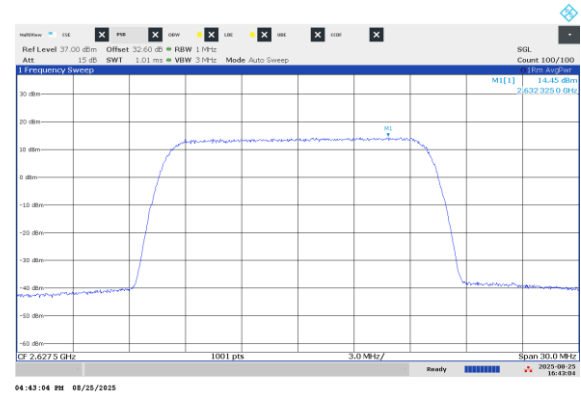


Figure 8.3-2: Power of LTE 15 MHz channel bandwidth, single carrier operation, sample plot

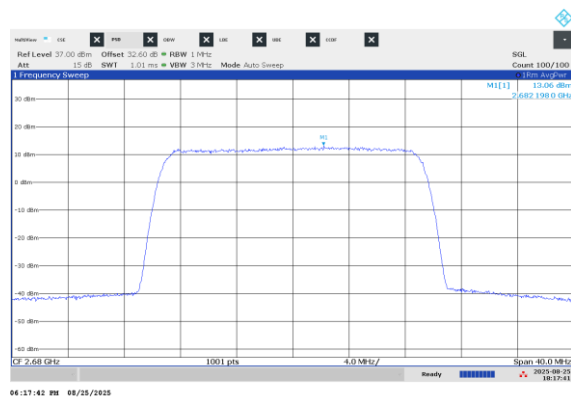


Figure 8.3-3: Power of LTE 20 MHz channel bandwidth, single carrier operation, sample plot

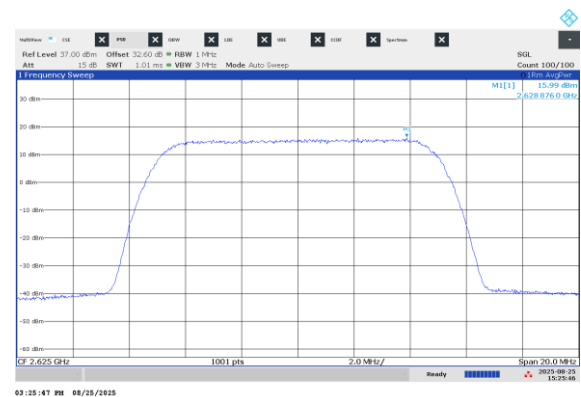


Figure 8.3-4: Power of NR 10 MHz channel bandwidth, single carrier operation, sample plot

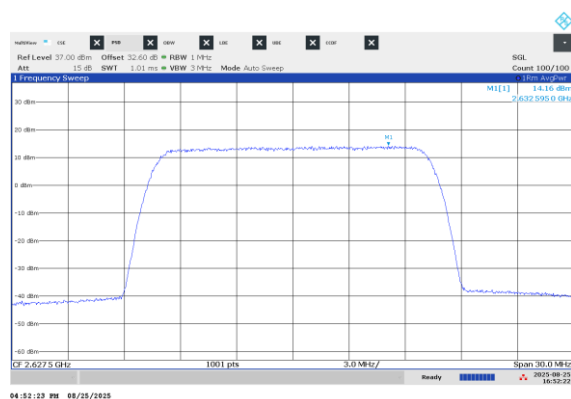


Figure 8.3-5: Power of NR 15 MHz channel bandwidth, single carrier operation, sample plot

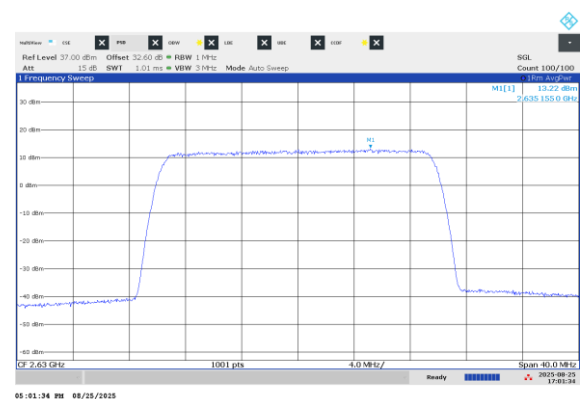


Figure 8.3-6: Power of NR 20 MHz channel bandwidth, single carrier operation, sample plot

Test data, continued

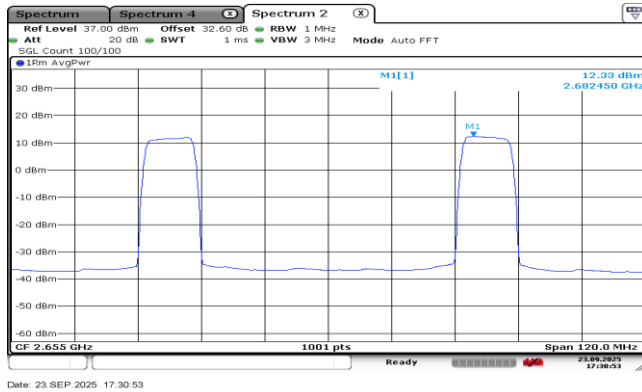


Figure 8.3-7: Power of 2xLTE 10 MHz channel bandwidth, multi-carrier non-contiguous operation, sample plot

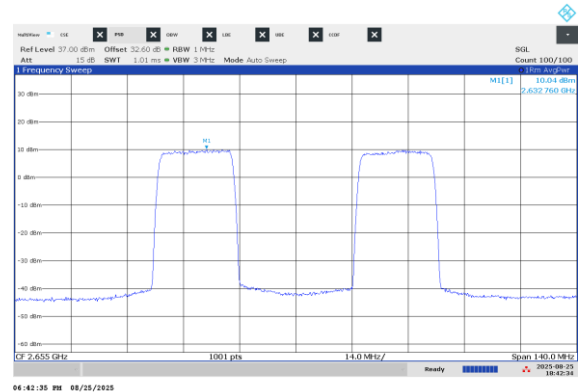


Figure 8.3-8: Power of 2xLTE 20 MHz channel bandwidth, multi-carrier non-contiguous operation, sample plot

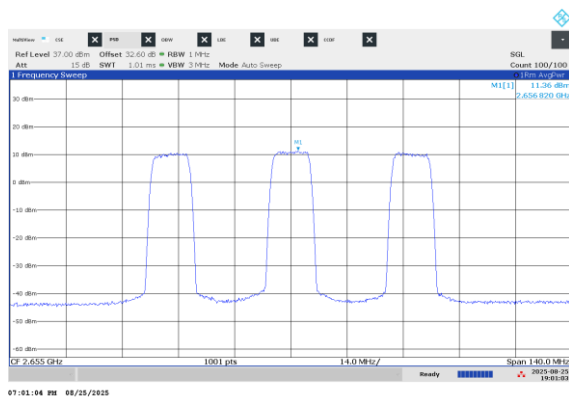


Figure 8.3-9: Power of 3xLTE 10 MHz channel bandwidth, multi-carrier non-contiguous operation, sample plot

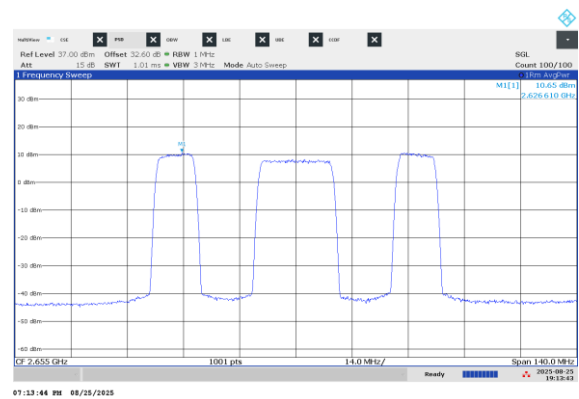


Figure 8.3-10 Power of LTE 10 + 20 + 10 MHz channel bandwidth, multi-carrier non-contiguous operation, sample plot

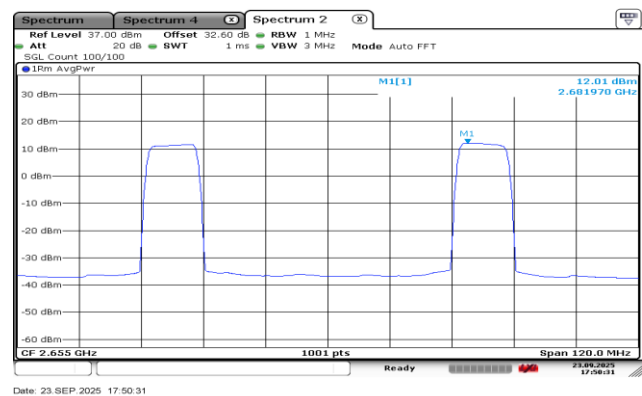


Figure 8.3-11: Power of 2xNR 10 MHz channel bandwidth, multi-carrier non-contiguous operation, sample plot

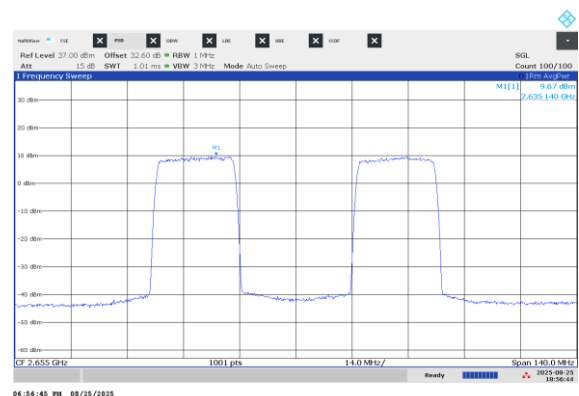


Figure 8.3-12: Power of 2xNR 20 MHz channel bandwidth, multi-carrier non-contiguous operation, sample plot



Test data, continued

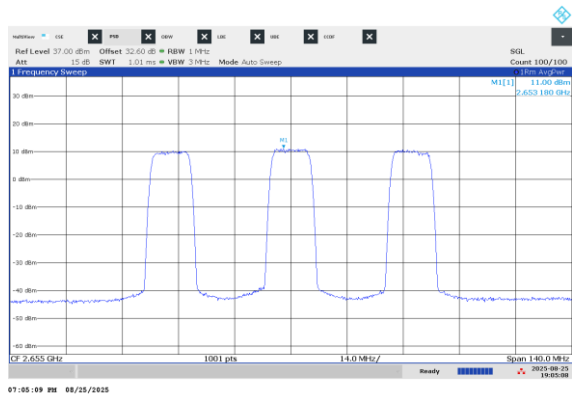


Figure 8.3-13: Power of 3xNR 10 MHz channel bandwidth, multi-carrier non-contiguous operation, sample plot

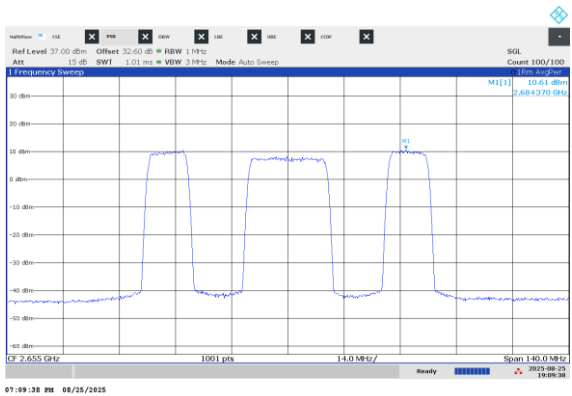


Figure 8.3-14 Power of NR 10 + 20 + 10 MHz channel bandwidth, multi-carrier non-contiguous operation, sample plot

Test data, continued

Table 8.3-31: Complementary Cumulative Distribution Function (CCDF) of the PAPR reduction measurement results for single carrier operation for LTE 10 MHz

Remarks	Frequency, MHz	Peak, dB	Average, dB	Delta, dB	PAPR reduction limit, dB	Margin, dB
10 MHz, Low channel	2625.00	25.48	16.19	9.29	13.00	3.71
10 MHz, Mid channel	2655.00	25.26	15.98	9.28	13.00	3.72
10 MHz, Top channel	2685.00	25.11	15.63	9.48	13.00	3.52

Table 8.3-32: Complementary Cumulative Distribution Function (CCDF) of the PAPR reduction measurement results for single carrier operation for LTE 15 MHz

Remarks	Frequency, MHz	Peak, dB	Average, dB	Delta, dB	PAPR reduction limit, dB	Margin, dB
15 MHz, Low channel	2627.50	24.23	14.61	9.62	13.00	3.38
15 MHz, Mid channel	2655.00	24.88	14.21	10.67	13.00	2.33
15 MHz, Top channel	2682.50	23.36	14.17	9.19	13.00	3.81

Table 8.3-33: Complementary Cumulative Distribution Function (CCDF) of the PAPR reduction measurement results for single carrier operation for LTE 20 MHz

Remarks	Frequency, MHz	Peak, dB	Average, dB	Delta, dB	PAPR reduction limit, dB	Margin, dB
20 MHz, Low channel	2630.00	23.29	13.32	9.97	13.00	3.03
20 MHz, Mid channel	2655.00	23.46	12.85	10.61	13.00	2.39
20 MHz, Top channel	2680.00	22.73	12.69	10.04	13.00	2.96

Table 8.3-34: Complementary Cumulative Distribution Function (CCDF) of the PAPR reduction measurement results for single carrier operation for NR 10 MHz

Remarks	Frequency, MHz	Peak, dB	Average, dB	Delta, dB	PAPR reduction limit, dB	Margin, dB
10 MHz, Low channel	2625.00	25.18	15.82	9.36	13.00	3.64
10 MHz, Mid channel	2655.00	24.79	15.82	8.97	13.00	4.03
10 MHz, Top channel	2685.00	24.40	15.61	8.79	13.00	4.21

Table 8.3-35: Complementary Cumulative Distribution Function (CCDF) of the PAPR reduction measurement results for single carrier operation for NR 15 MHz

Remarks	Frequency, MHz	Peak, dB	Average, dB	Delta, dB	PAPR reduction limit, dB	Margin, dB
15 MHz, Low channel	2627.50	22.97	14.11	8.86	13.00	4.14
15 MHz, Mid channel	2655.00	23.09	14.20	8.89	13.00	4.11
15 MHz, Top channel	2682.50	23.01	13.70	9.31	13.00	3.69

Table 8.3-36: Complementary Cumulative Distribution Function (CCDF) of the PAPR reduction measurement results for single carrier operation for NR 20 MHz

Remarks	Frequency, MHz	Peak, dB	Average, dB	Delta, dB	PAPR reduction limit, dB	Margin, dB
20 MHz, Low channel	2630.00	22.59	13.00	9.59	13.00	3.41
20 MHz, Mid channel	2655.00	22.40	12.94	9.46	13.00	3.54
20 MHz, Top channel	2680.00	21.99	12.56	9.43	13.00	3.57

Test data, continued

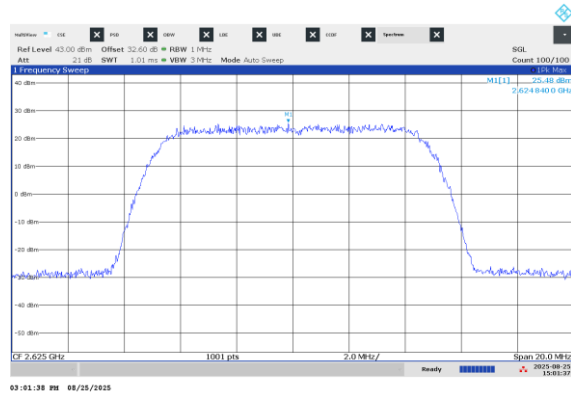


Figure 8.3-15: CCDF sample plot, LTE 10 MHz [peak]

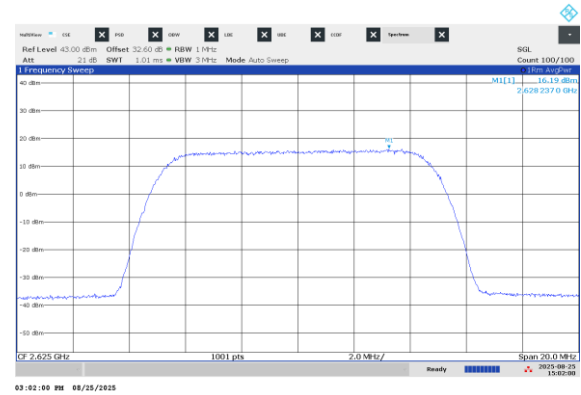


Figure 8.3-16: CCDF sample plot, LTE 10 MHz [average]

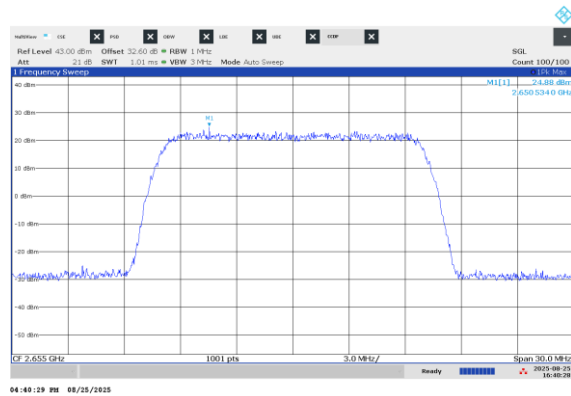


Figure 8.3-17: CCDF sample plot, LTE 15 MHz [peak]

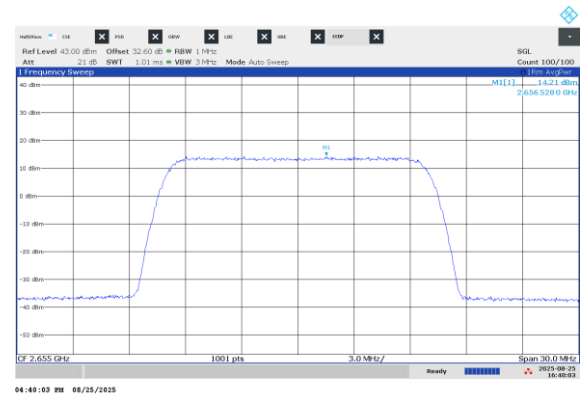


Figure 8.3-18: CCDF sample plot, LTE 15 MHz [average]

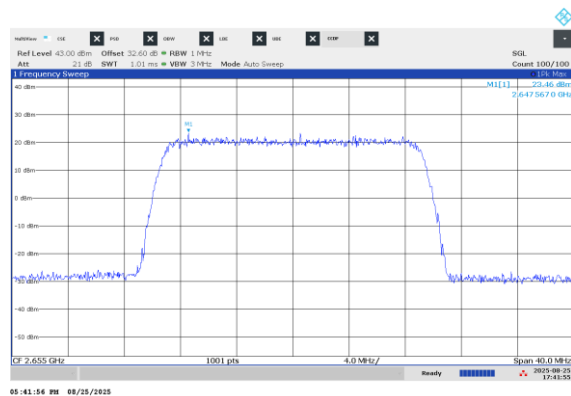


Figure 8.3-19: CCDF sample plot, LTE 20 MHz [peak]

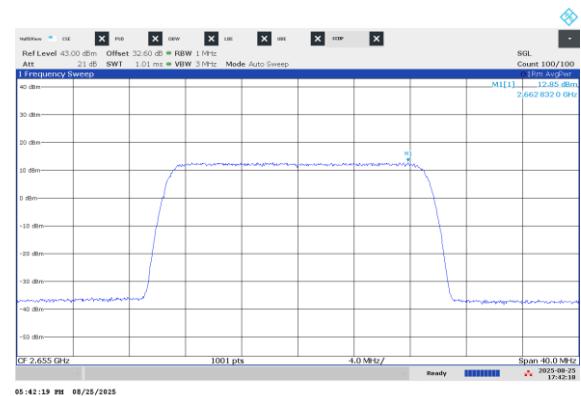


Figure 8.3-20: CCDF sample plot, LTE 20 MHz [average]

Test data, continued

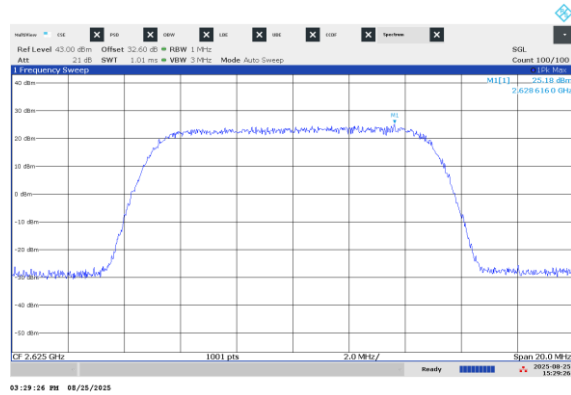


Figure 8.3-21: CCDF sample plot, NR 10 MHz [peak]

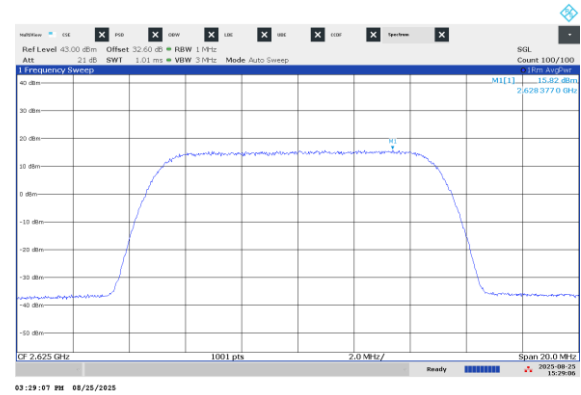


Figure 8.3-22: CCDF sample plot, NR 10 MHz [average]

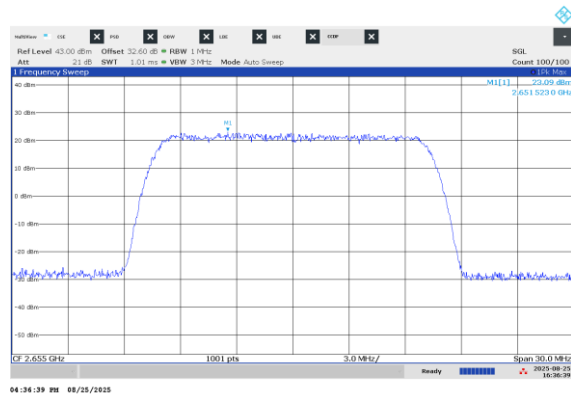


Figure 8.3-23: CCDF sample plot, NR 15 MHz [peak]

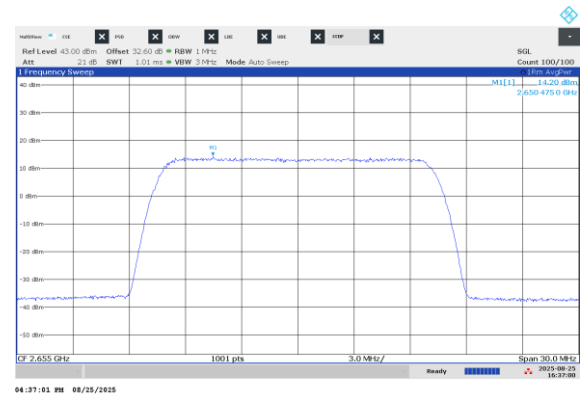


Figure 8.3-24: CCDF sample plot, NR 15 MHz [average]

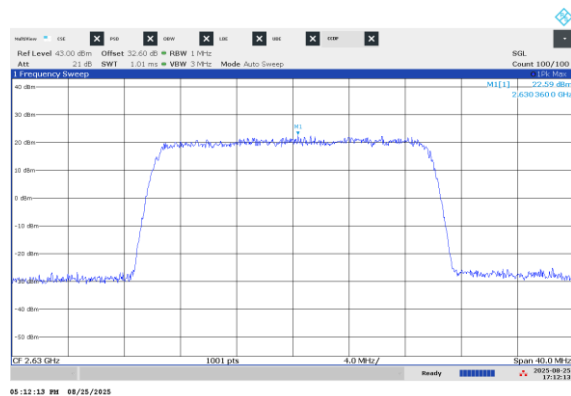


Figure 8.3-25: CCDF sample plot, NR 20 MHz [peak]

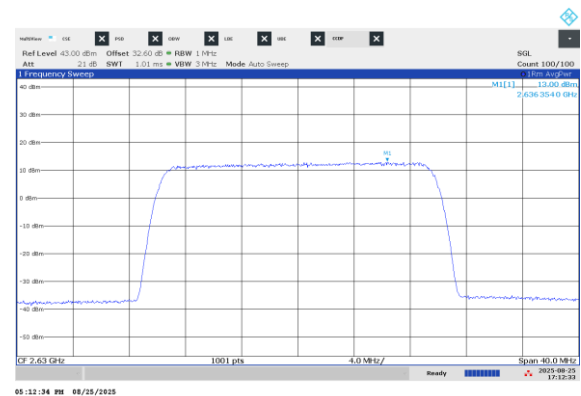


Figure 8.3-26: CCDF sample plot, NR 20 MHz [average]

8.4 Transmitter unwanted emissions (1930-1995 MHz)-B25

8.4.1 Definitions and limits

FCC §24.238:

(a) **Out of band emissions:** The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

RSS-133, Section 5.6:

Unwanted emissions shall be measured in terms of average values while the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen.

Equipment shall meet the unwanted emission limits, specified in table below, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range.

For the unwanted emission limits, in the 1 MHz bands immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth (OBW). Beyond these 1 MHz bands, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth may be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% of the OBW, as applicable.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the table below.

Table 8.4-1: Unwanted emissions limits for indoor base station equipment

Offset from the edge of the frequency block group (MHz)	Unwanted emission limits
≤ 1	-13 dBm/(1% of OBW)
> 1	-13 dBm/MHz

Notes: None

8.4.2 Test summary

Verdict	Pass		
Test date	August 21, 2025 - August 28, 2025	Temperature	19-21 °C
Tested by	Dhara Patel	Air pressure	995-1005 mbar
Test location	Ottawa	Relative humidity	35-38 %

8.4.3 Observations, settings and special notes

- The spectrum was searched from 30 MHz to the 10th harmonic.
- Measurements were performed using a peak detector per ANSI C63.26 Paragraph 5.7.4 method.
- RBW 1 MHz, VBW was wider than RBW.
- All modulation configurations were pretested to identify the representative modulation yielding the worst-case power level. The modulations that resulted in the worst-case scenarios were 64QAM

8.4.1 Test data

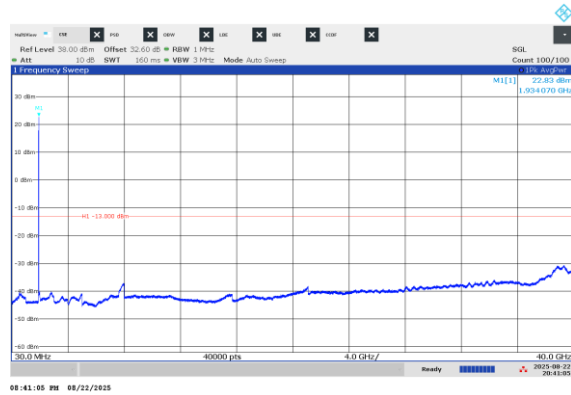


Figure 8.4-1: Conducted spurious emissions of LTE 5 MHz low channel, single carrier operation

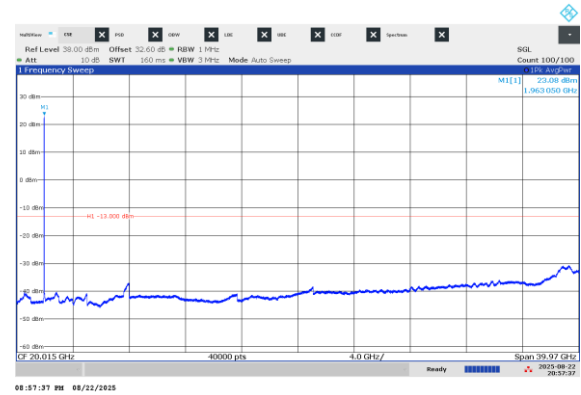


Figure 8.4-2: Conducted spurious emissions of LTE 5 MHz mid channel, single carrier operation

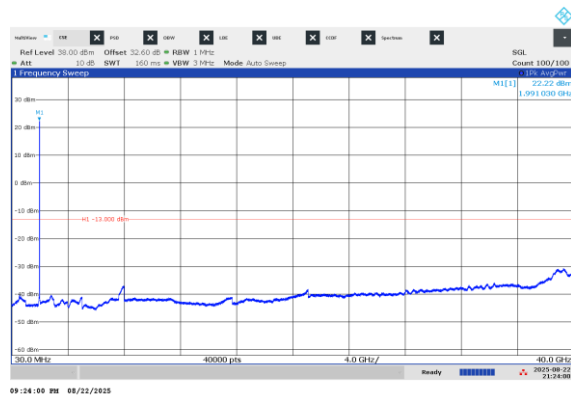


Figure 8.4-3: Conducted spurious emissions of LTE 5 MHz top channel, single carrier operation

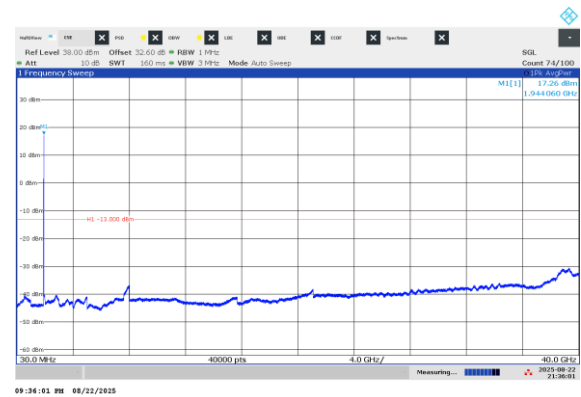


Figure 8.4-4: Conducted spurious emissions of LTE 20 MHz low channel, single carrier operation

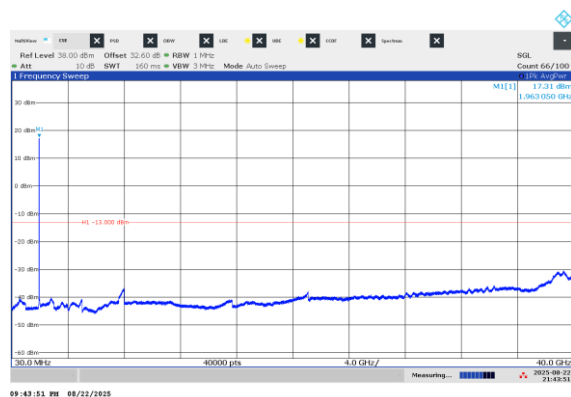


Figure 8.4-5: Conducted spurious emissions of LTE 20 MHz mid channel, single carrier operation

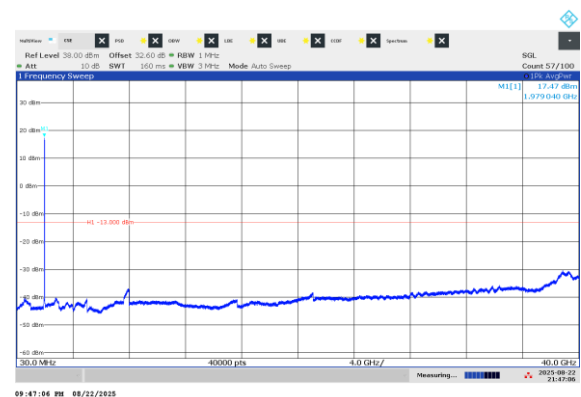


Figure 8.4-6: Conducted spurious emissions of LTE 20 MHz top, single carrier operation

Test data, continued

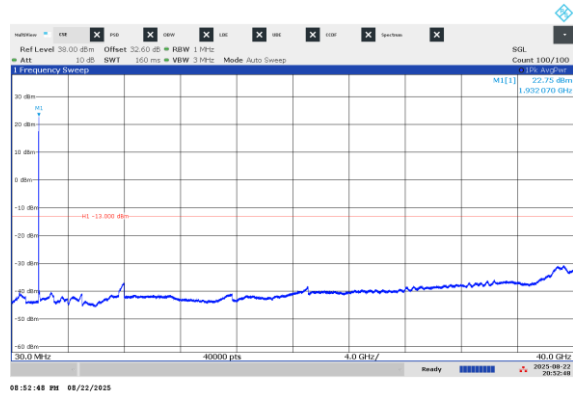


Figure 8.4-7: Conducted spurious emissions of NR 5 MHz low channel, single carrier operation

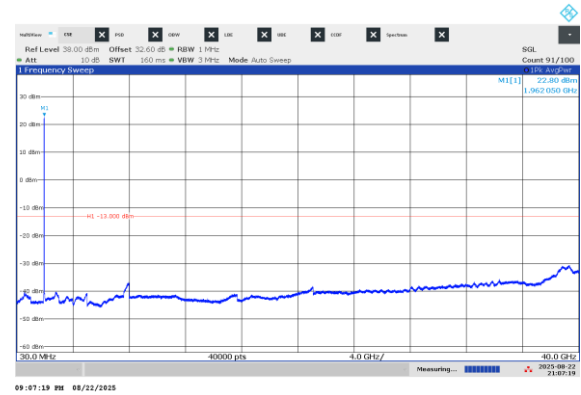


Figure 8.4-8: Conducted spurious emissions of NR 5 MHz mid channel, single carrier operation

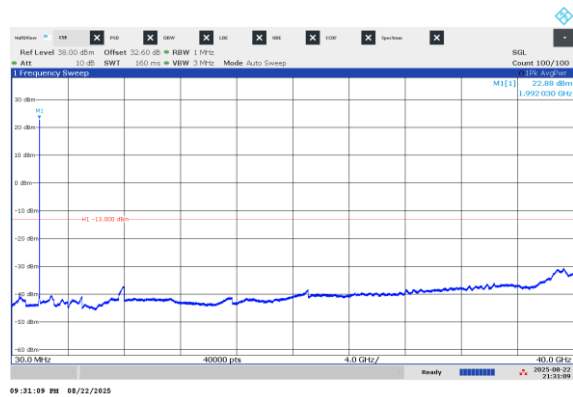


Figure 8.4-9: Conducted spurious emissions of NR 5 MHz top channel, single carrier operation

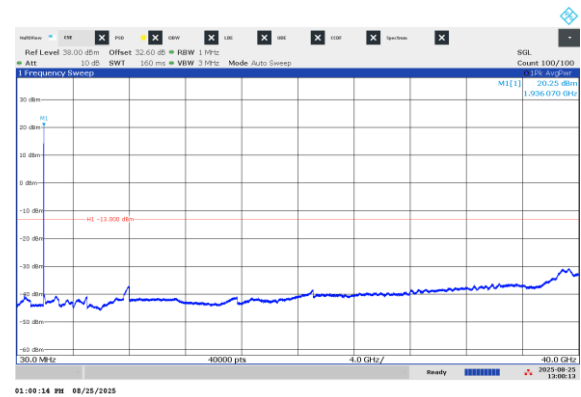


Figure 8.4-10: Conducted spurious emissions of NR 10 MHz low channel, single carrier operation

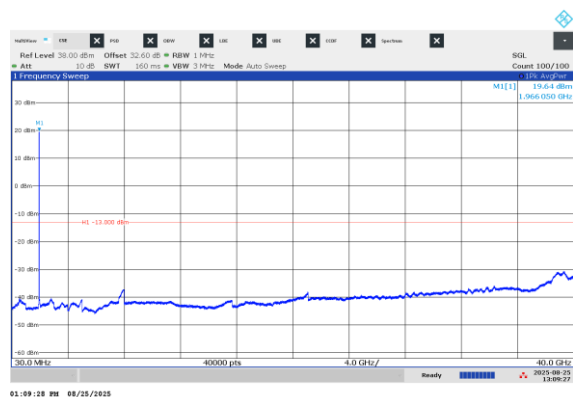


Figure 8.4-11: Conducted spurious emissions of NR 10 MHz mid channel, single carrier operation

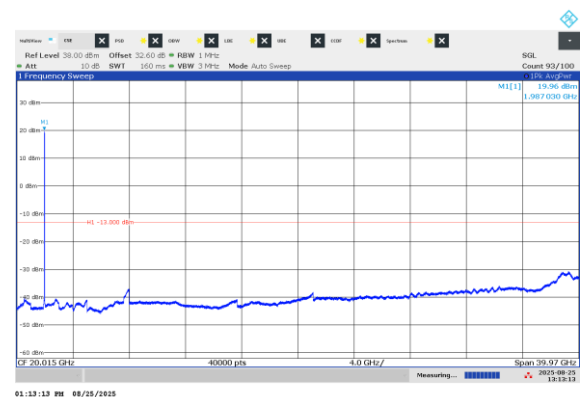


Figure 8.4-12: Conducted spurious emissions of NR 10 MHz top, single carrier operation

Test data, continued

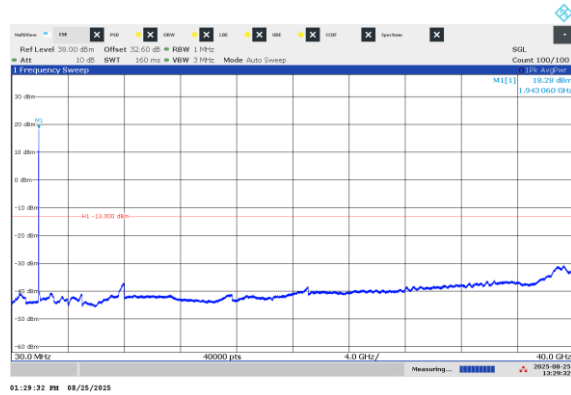


Figure 8.4-13: Conducted spurious emissions of NR 15 MHz low, single carrier operation

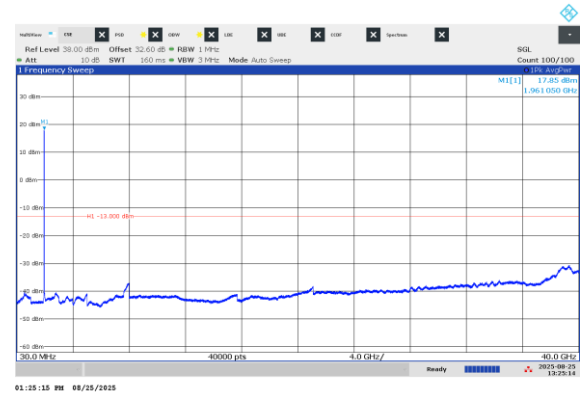


Figure 8.4-14: Conducted spurious emissions of NR 15 MHz mid channel, single carrier operation

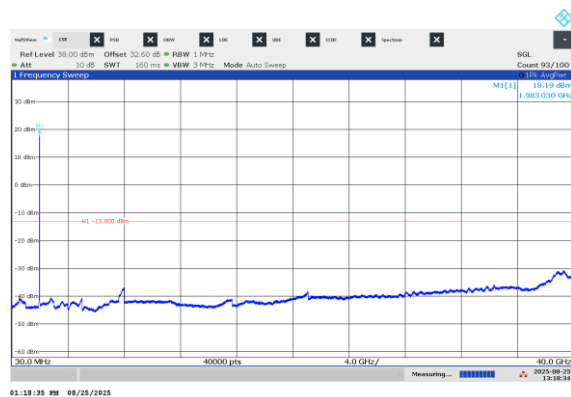


Figure 8.4-15: Conducted spurious emissions of NR 15 MHz top, single carrier operation

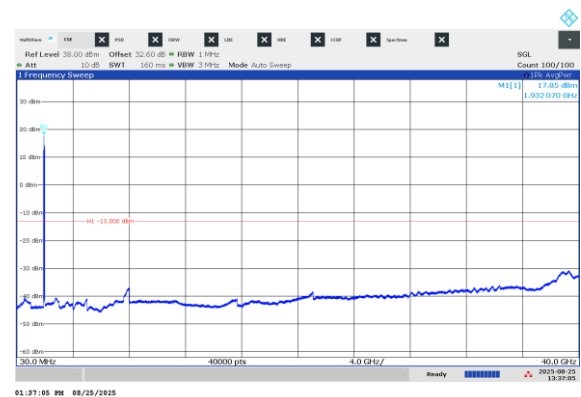


Figure 8.4-16: Conducted spurious emissions of LTE 5 MHz + 20 MHz channel, single carrier operation [non-contiguous]

Test data, continued

On the plots below the measured *Channel Power* value in the “*Total Channel Power*” column must be -13 dBm and lower.

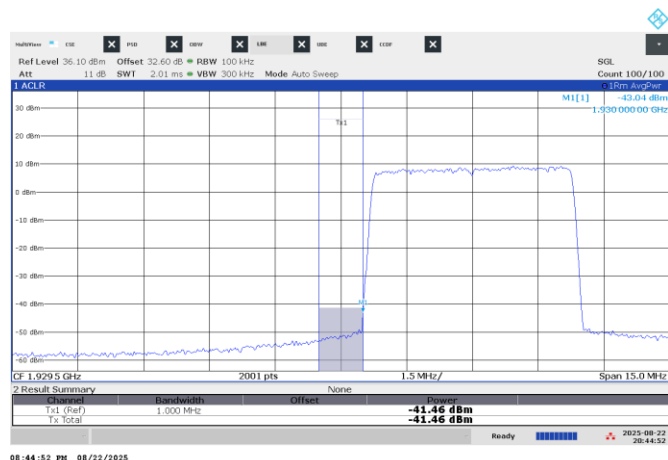


Figure 8.4-17: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Single-carrier operation
Meas. BW: 1 MHz Tech.: LTE 5 MHz
Limit: -13 dBm/MHz Notes: None

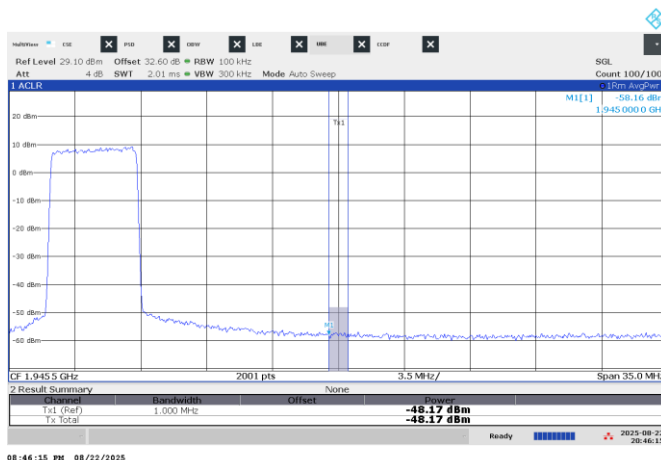


Figure 8.4-18: Conducted emission at the upper frequency block edge of the lower channel

Frequency: 1945 MHz Mode: Single-carrier operation
Meas. BW: 1 MHz Tech.: LTE 5 MHz
Limit: -13 dBm/MHz Notes: None



Figure 8.4-19: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Single-carrier operation
Meas. BW: 1 MHz Tech.: LTE 5 MHz
Limit: -13 dBm/MHz Notes: None



Figure 8.4-20: Conducted emission at the lower frequency block edge of the upper channel

Frequency: 1990 MHz Mode: Single-carrier operation
Meas. BW: 1 MHz Tech.: LTE 5 MHz
Limit: -13 dBm/MHz Notes: None

Test data, continued

On the plots below the measured *Channel Power* value in the “*Total Channel Power*” column must be -13 dBm and lower.

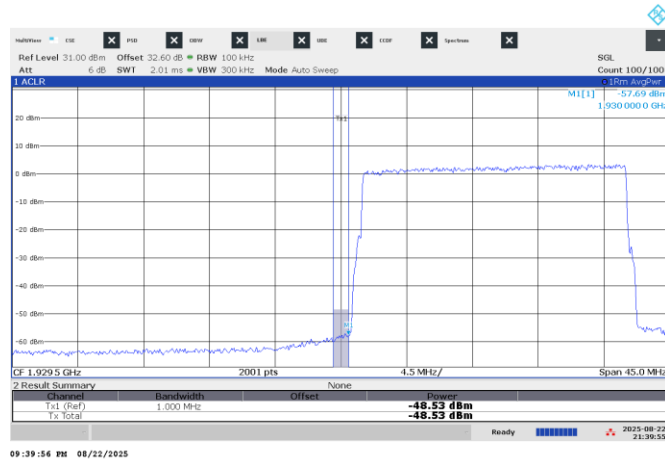


Figure 8.4-21: Conducted emission at the lower band edge

Frequency: 1930 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: LTE 20 MHz
Notes: None



Figure 8.4-22: Conducted emission at the upper frequency block edge of the lower channel

Frequency: 1950 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: LTE 20 MHz
Notes: None

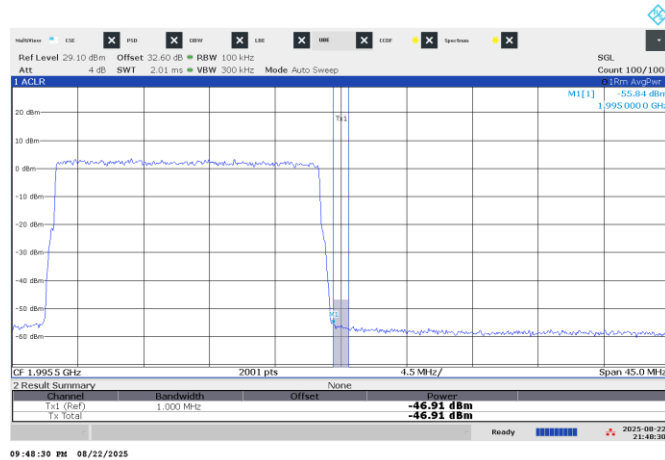


Figure 8.4-23: Conducted emission at the upper band edge

Frequency: 1995 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: LTE 20 MHz
Notes: None

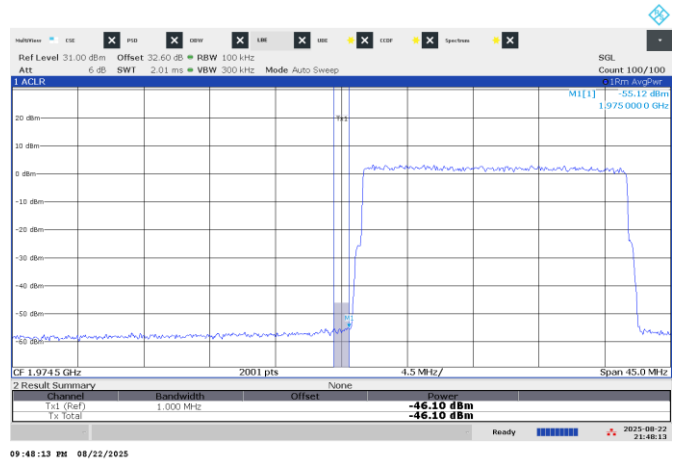


Figure 8.4-24: Conducted emission at the lower frequency block edge of the upper channel

Frequency: 1975 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: LTE 20 MHz
Notes: None

Test data, continued

On the plots below the measured *Channel Power* value in the “*Total Channel Power*” column must be -13 dBm and lower.

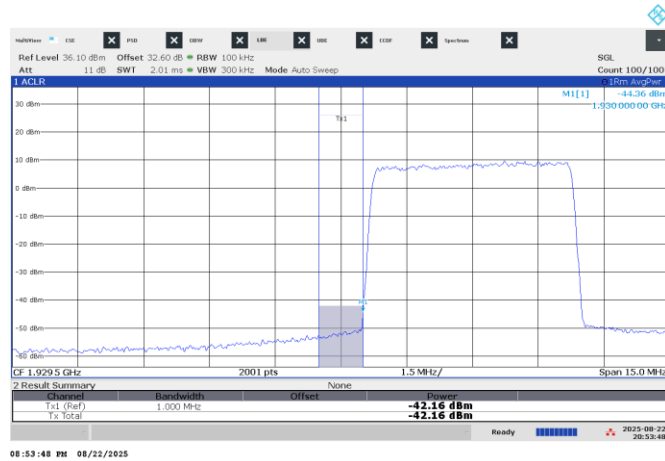


Figure 8.4-25: Conducted emission at the lower band edge

Frequency: 1930 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: NR 5 MHz
Notes: None



Figure 8.4-26: Conducted emission at the upper frequency block edge of the lower channel

Frequency: 1935 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: NR 5 MHz
Notes: None



Figure 8.4-27: Conducted emission at the upper band edge

Frequency: 1995 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: NR 5 MHz
Notes: None



Figure 8.4-28: Conducted emission at the lower frequency block edge of the upper channel

Frequency: 1990 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: NR 5 MHz
Notes: None

Test data, continued

On the plots below the measured *Channel Power* value in the “*Total Channel Power*” column must be -13 dBm and lower.

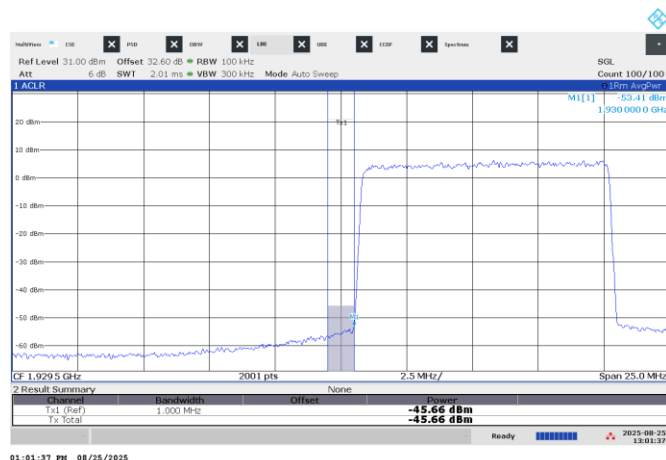


Figure 8.4-29: Conducted emission at the lower band edge

Frequency: 1930 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: NR 10 MHz
Notes: None

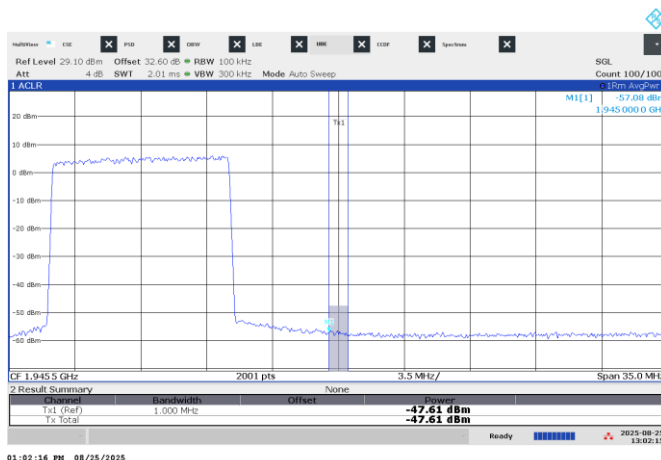


Figure 8.4-30: Conducted emission at the upper frequency block edge of the lower channel

Frequency: 1945 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: NR 10 MHz
Notes: None

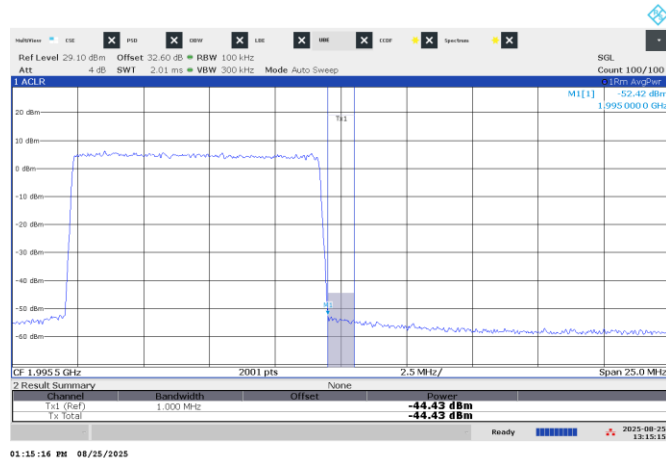


Figure 8.4-31: Conducted emission at the upper band edge

Frequency: 1995 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: NR 10 MHz
Notes: None

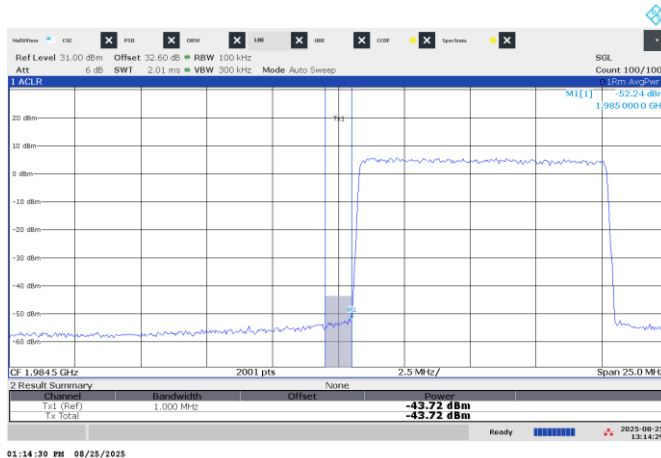


Figure 8.4-32: Conducted emission at the lower frequency block edge of the upper channel

Frequency: 1985 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: NR 10 MHz
Notes: None

Test data, continued

On the plots below the measured *Channel Power* value in the “*Total Channel Power*” column must be -13 dBm and lower.

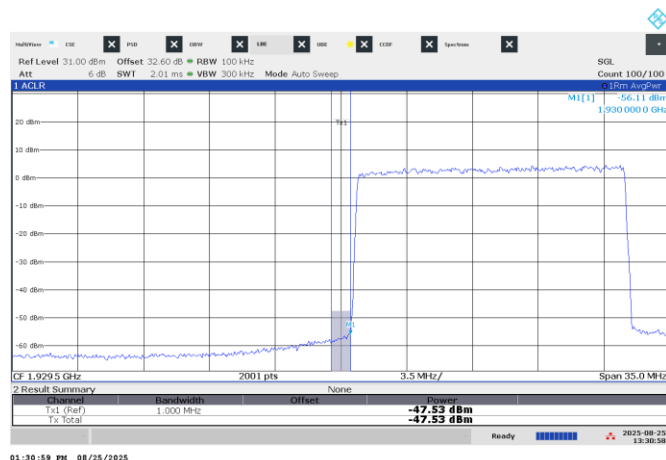


Figure 8.4-33: Conducted emission at the lower band edge

Frequency: 1930 MHz Mode: Single-carrier operation
Meas. BW: 1 MHz Tech.: NR 15 MHz
Limit: -13 dBm/MHz Notes: None

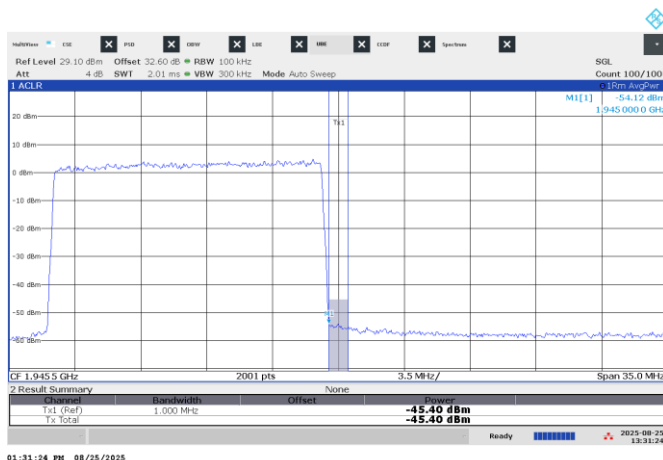


Figure 8.4-34: Conducted emission at the upper frequency block edge of the lower channel

Frequency: 1945 MHz Mode: Single-carrier operation
Meas. BW: 1 MHz Tech.: NR 15 MHz
Limit: -13 dBm/MHz Notes: None

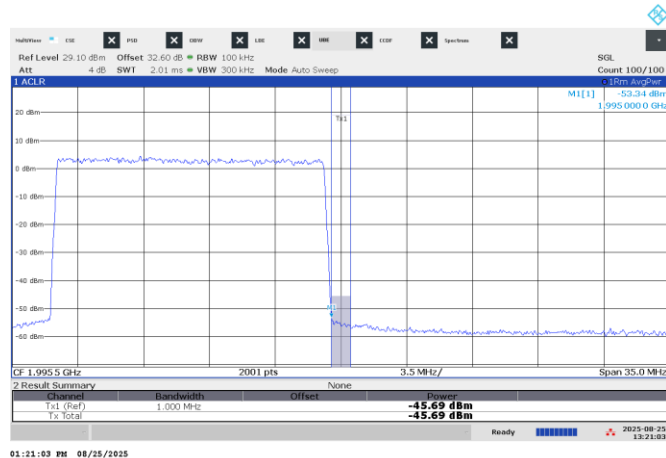


Figure 8.4-35: Conducted emission at the upper band edge

Frequency: 1995 MHz Mode: Single-carrier operation
Meas. BW: 1 MHz Tech.: NR 15 MHz
Limit: -13 dBm/MHz Notes: None

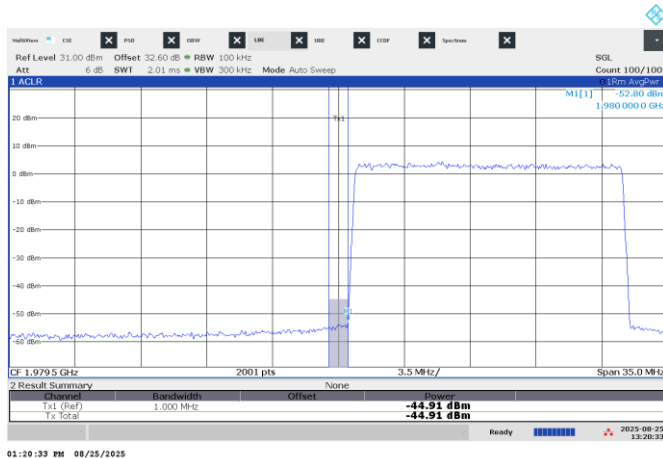


Figure 8.4-36: Conducted emission at the lower frequency block edge of the upper channel

Frequency: 1980 MHz Mode: Single-carrier operation
Meas. BW: 1 MHz Tech.: NR 15 MHz
Limit: -13 dBm/MHz Notes: None



Test data, continued

On the plots below the measured *Channel Power* value in the “*Total Channel Power*” column must be -13 dBm and lower.

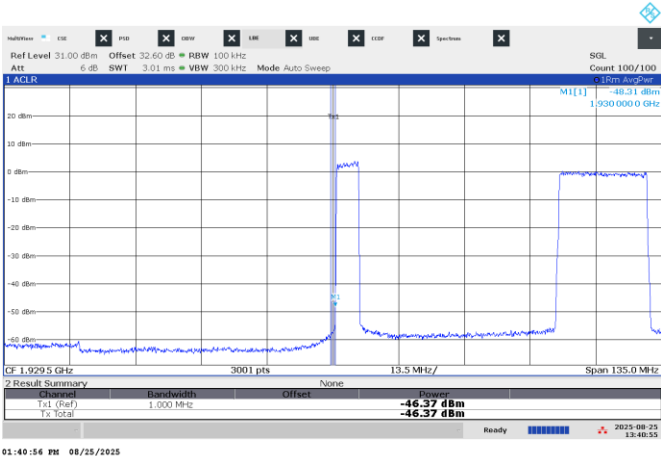


Figure 8.4-37: Conducted emission at the lower band edge

Frequency:

Meas. BW:

Limit:

1930 MHz

1 MHz

-13 dBm/MHz

Mode:

Tech.:

Notes:

Multi-carrier operation

LTE 5 MHz + 20 MHz

Non-contiguous

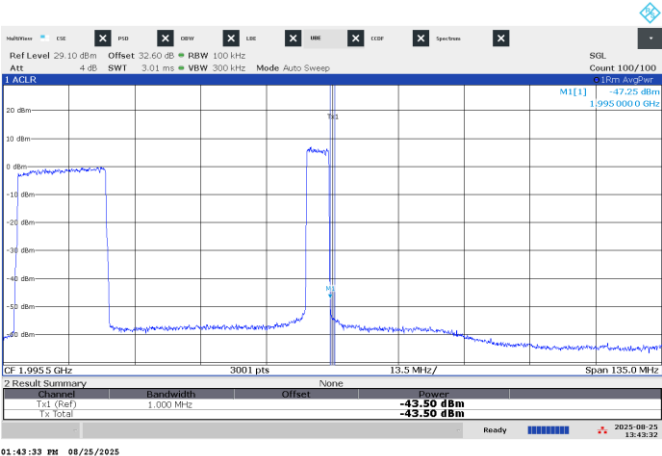


Figure 8.4-38: Conducted emission at the upper band edge

Frequency:

Meas. BW:

Limit:

1995 MHz

1 MHz

-13 dBm/MHz

Mode:

Tech.:

Notes:

Multi-carrier operation

LTE 5 MHz + 20 MHz

Non-contiguous

8.5 Transmitter unwanted emissions (2110-2200 MHz) B66

8.5.1 Definitions and limits

FCC §27.53 (h):

(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.

RSS-139, Section 5.6:

Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table below.

Table 8.5-1: Unwanted emissions limits for all equipment

Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limits
1 MHz	-13 dBm/1% OB*
>1 MHz	-13 dBm/MHz

Notes: *OB is the occupied bandwidth

8.5.2 Test summary

Verdict	Pass		
Test date	August 21, 2025 - August 28, 2025	Temperature	19-21 °C
Tested by	Dhara Patel	Air pressure	995-1005 mbar
Test location	Ottawa	Relative humidity	35-38 %

8.5.3 Observations, settings and special notes

- The spectrum was searched from 30 MHz to the 10th harmonic.
- Measurements were performed using a peak detector per ANSI C63.26 Paragraph 5.7.4 method.
- RBW 1 MHz, VBW was wider than RBW.
- All modulation configurations were pretested to identify the representative modulation yielding the worst-case power level. The modulations that resulted in the worst-case scenarios were 16QAM

8.5.4 Test data

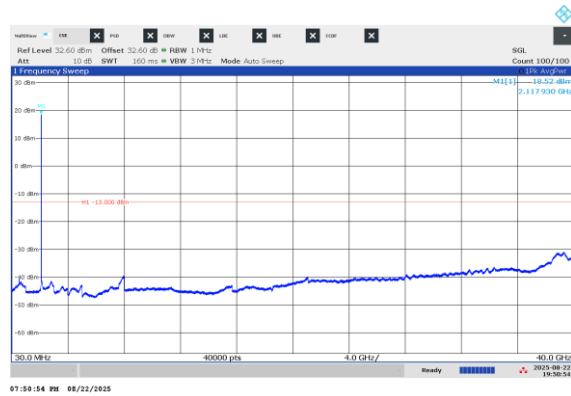


Figure 8.5-1: Conducted spurious emissions of LTE 15 MHz low channel, single carrier operation

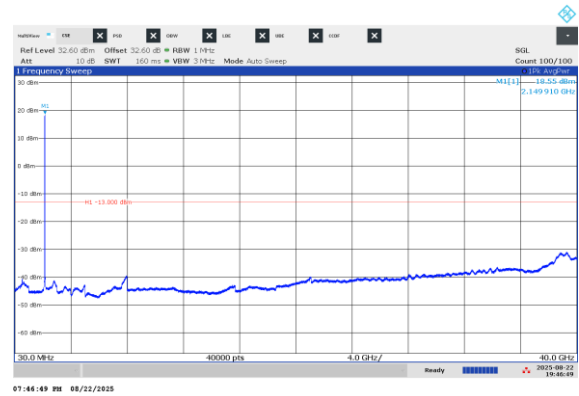


Figure 8.5-2: Conducted spurious emissions of LTE 15 MHz mid channel, single carrier operation

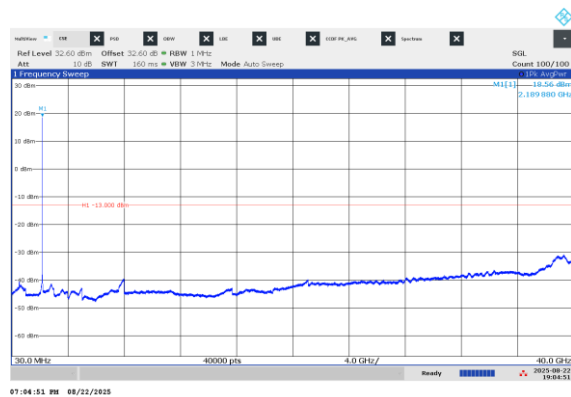


Figure 8.5-3: Conducted spurious emissions of LTE 15 MHz top channel, single carrier operation

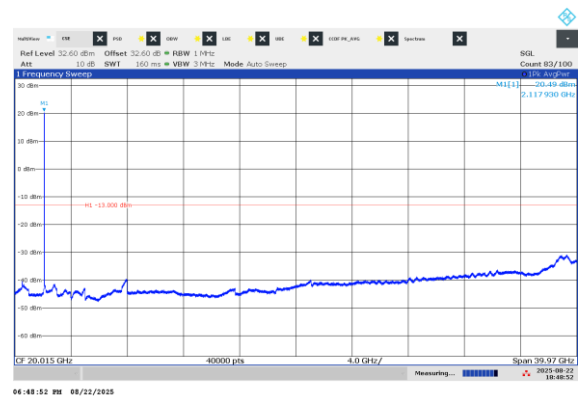


Figure 8.5-4: Conducted spurious emissions of NR 10 MHz low channel, single carrier operation

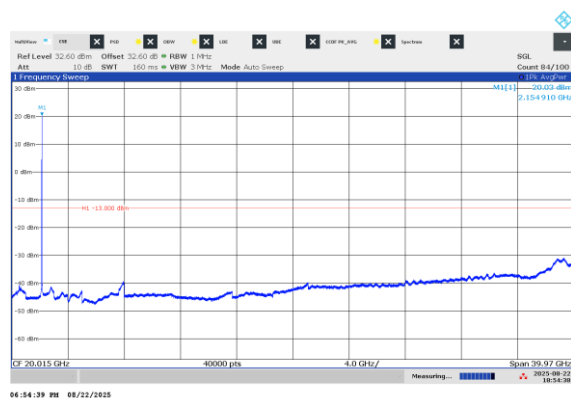


Figure 8.5-5: Conducted spurious emissions of NR 10 MHz mid channel, single carrier operation

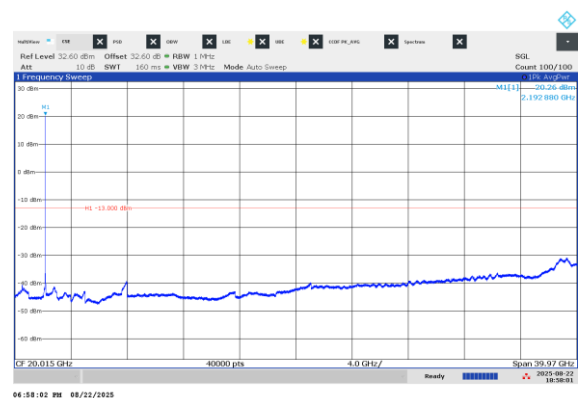


Figure 8.5-6: Conducted spurious emissions of NR 10 MHz top channel, single carrier operation

Test data, continued

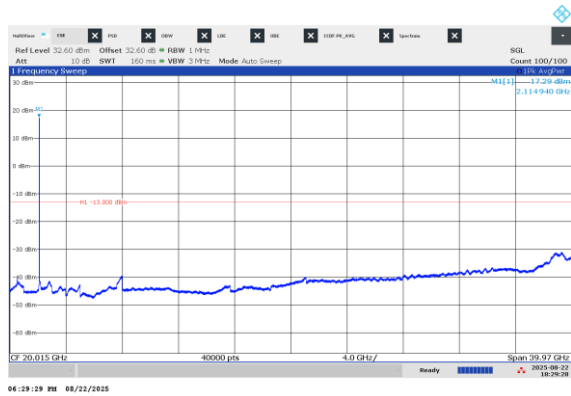


Figure 8.5-7: Conducted spurious emissions of NR 20 MHz low, single carrier operation

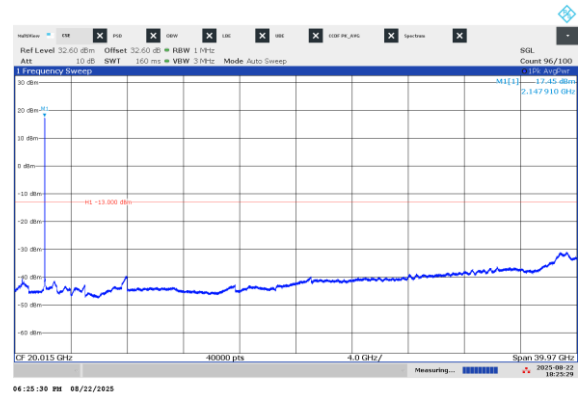


Figure 8.5-8: Conducted spurious emissions of NR 20 MHz mid channel, single carrier operation

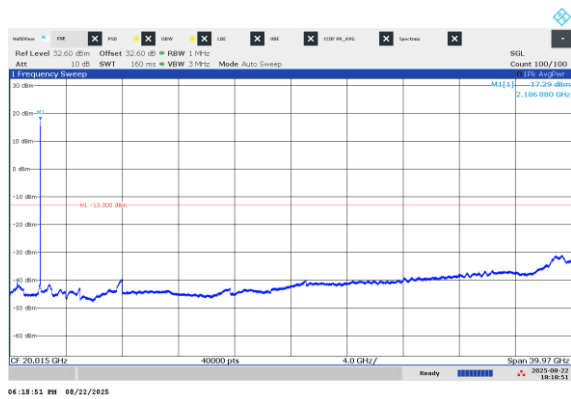


Figure 8.5-9: Conducted spurious emissions of NR 20 MHz top, single carrier operation

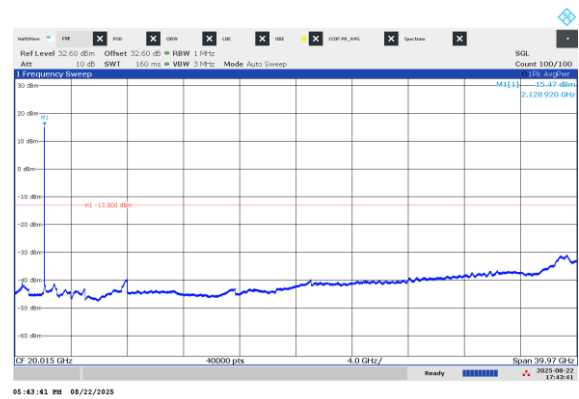


Figure 8.5-10: Conducted spurious emissions of NR 30 MHz low channel, single carrier operation

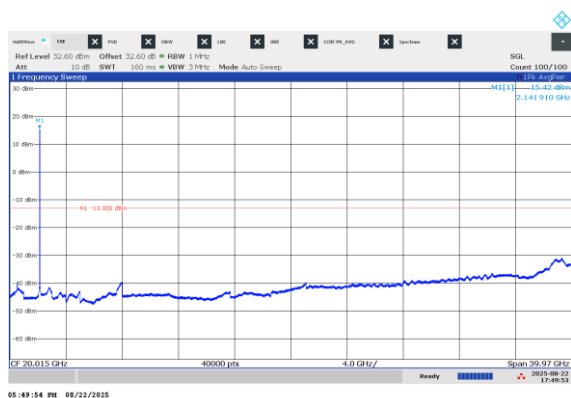


Figure 8.5-11: Conducted spurious emissions of NR 30 MHz mid channel, single-carrier operation

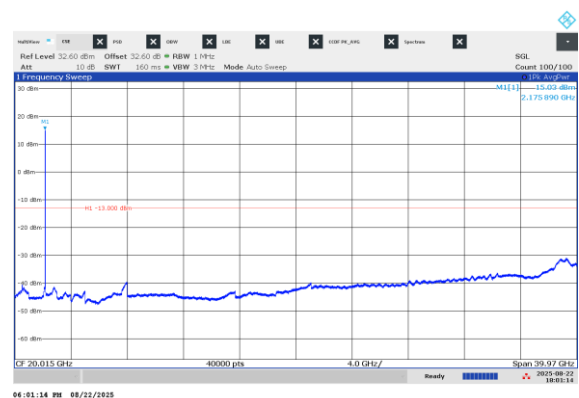


Figure 8.5-12: Conducted spurious emissions of NR 30 MHz top, single-carrier operation

Test data, continued

On the plots below the measured *Channel Power* value in the “*Total Channel Power*” column must be -16 dBm and lower.

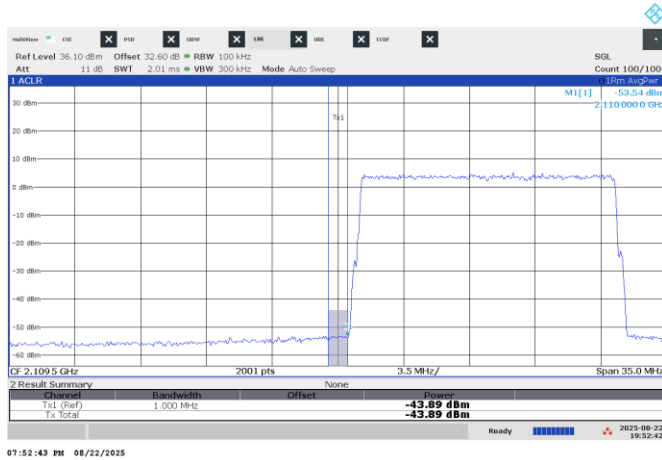


Figure 8.5-13: Conducted emission at the lower band edge

Frequency: 2110 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: LTE 15 MHz
Notes: None

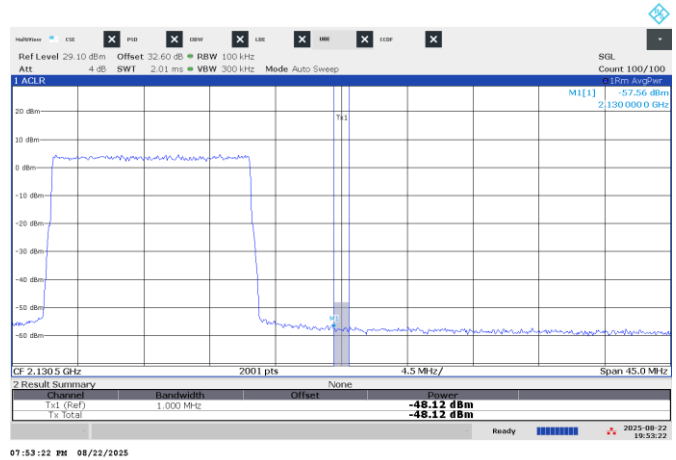


Figure 8.5-14: Conducted emission at the upper frequency block edge of the lower channel

Frequency: 2130 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: LTE 15 MHz
Notes: None

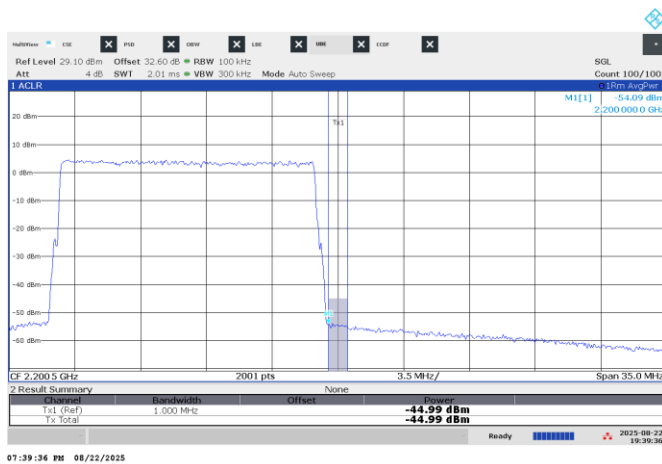


Figure 8.5-15: Conducted emission at the upper band edge

Frequency: 2200 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: LTE 15 MHz
Notes: None

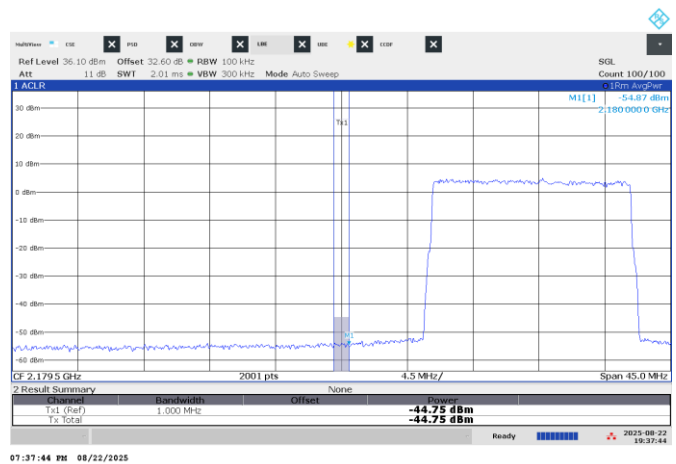


Figure 8.5-16: Conducted emission at the lower frequency block edge of the upper channel

Frequency: 2180 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: LTE 15 MHz
Notes: None

Test data, continued

On the plots below the measured *Channel Power* value in the “*Total Channel Power*” column must be **–16 dBm** and lower.



Figure 8.5-17: Conducted emission at the lower band edge

Frequency: 2110 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: NR 10 MHz
Notes: None



Figure 8.5-18: Conducted emission at the upper frequency block edge of the lower channel

Frequency: 2120 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: NR 10 MHz
Notes: None



Figure 8.5-19: Conducted emission at the upper band edge

Frequency: 2200 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: NR 10 MHz
Notes: None



Figure 8.5-20: Conducted emission at the lower frequency block edge of the upper channel

Frequency: 2190 MHz
Meas. BW: 1 MHz
Limit: -13 dBm/MHz

Mode: Single-carrier operation
Tech.: NR 10 MHz
Notes: None



Test data, continued

On the plots below the measured *Channel Power* value in the “*Total Channel Power*” column must be **–16 dBm** and lower.

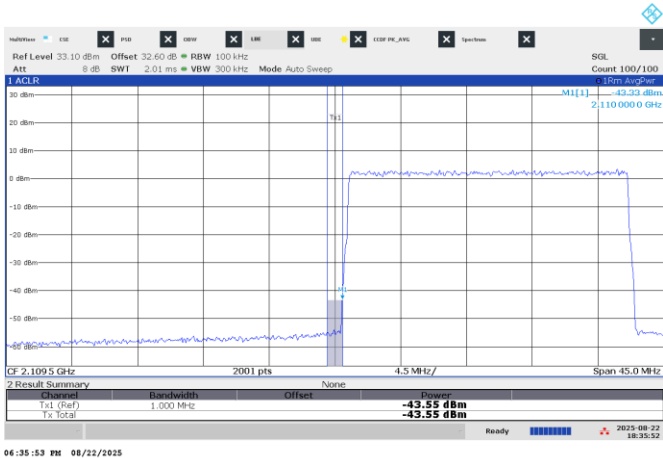


Figure 8.5-21: Conducted emission at the lower band edge

Frequency: 2110 MHz

Meas. BW: 1 MHz

Limit: -13 dBm/MHz

Mode: Single-carrier operation

Tech.: NR 20 MHz

Notes: None



Figure 8.5-22: Conducted emission at the upper frequency block edge of the lower channel

Frequency: 2130 MHz

Meas. BW: 1 MHz

Limit: -13 dBm/MHz

Mode: Single-carrier operation

Tech.: NR 20 MHz

Notes: None



Figure 8.5-23: Conducted emission at the upper band edge

Frequency: 2200 MHz

Meas. BW: 1 MHz

Limit: -13 dBm/MHz

Mode: Single-carrier operation

Tech.: NR 20 MHz

Notes: None

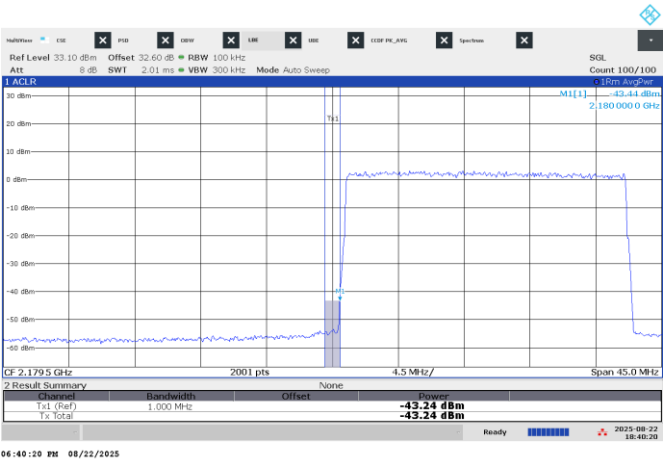


Figure 8.5-24: Conducted emission at the lower frequency block edge of the upper channel

Frequency: 2180 MHz

Meas. BW: 1 MHz

Limit: -13 dBm/MHz

Mode: Single-carrier operation

Tech.: NR 20 MHz

Notes: None