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Radio Test report – Radio 4472HP B5

Report ID

REP091684

Project ID

PRJ0077881

Applicant:

Ericsson AB

Product name:

Radio Unit

Model (PMN):

Radio 4472HP B5

Part number:

KRC 161 4405/31

FCC Identifier

FCC ID: TA8AKRC1614405

ISED certification number:

IC: 287AB-AS1614405

HVIN:

AS1614405

Requirements/Summary:

Standard	Environmental phenomenon	Compliance
FCC 47 CFR Part 22	Public Mobile Services (869-894 MHz band)	Yes
RSS-132 Issue 4	Cellular Systems Operating in the Bands 824-849 MHz and 869-894 MHz	Yes

Date of issue: June 9, 2025

Dhara Patel, EMC/Wireless Specialist

Tested by

Signature

Andrey Adelberg, Senior Wireless/EMC Specialist

Reviewed by

Signature

Two test locations

Company name	Nemko Canada Inc.	
Address	303 River Road	349 Terry Fox
City	Ottawa	Ottawa
Province	Ontario	Ontario
Postal code	K1V 1H2	K2K 2V6
Country	Canada	Canada
Telephone	+1 613 737 9680	+1 613 963 8000
Facsimile	+1 613 737 9691	
Toll free	+1 800 563 6336	
Website	www.nemko.com	
Site number	FCC test site registration number: CA2040, IC: 2040A-4 (3 m semi anechoic chamber)	

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 contained in this report are within Nemko Canada's ISO/IEC 17025 accreditation.

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Section 1. Report summary

1.1 Applicant

Company name	Ericsson AB
Address	PEU Radio Torshamnsgatan 23, Stockholm, Sweden 164 80

1.2 Manufacturer

Company name	Ericsson AB
Address	PEU Radio Torshamnsgatan 23, Stockholm, Sweden 164 80

1.3 Test specifications

FCC 47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
FCC 47 CFR Part 22	Public Mobile Services (869-894 MHz band)
RSS-132 Issue 4	Cellular Systems Operating in the Bands 824-849 MHz and 869-894 MHz
SRSP-503, Issue 9, July 2024	Cellular Systems Operating in the Bands 824-849 MHz and 869-894 MHz
RSS-Gen, Issue 5, April 2018	General Requirements for Compliance of Radio Apparatus

1.4 Test method

ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
KDB 662911 D01	Multiple Transmitter Output v02r01
KDB 662911 D02	MIMO with Cross-Polarized Antennas v01

1.5 Statement of compliance

In the configurations 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.

This test report (REP091684) applies to the *Radio 4472HP B5* with part number *KRC 161 4405/31*. See "Summary of test results" for full details.

EUT Configuration(s) SRO/MRO: refer to Section 3.

1.6 Test report revision history

Table 1.6-1: Test report revision history

Report ID	Date of issue	Details of changes made to test report
REP091684	June 9, 2025	Original report issued

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	April 7, 2025	Test end date	June 2, 2025
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2.3 Sample information

Receipt date	April 7, 2025	Nemko sample ID number	PRJ00778810001
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2.4 FCC Part 22 test results

Table 2.4-1: FCC results summary

Part	Test description	Verdict
§22.905	Frequencies (869-894 MHz band)	Pass
§22.913	Maximum output power at RF antenna connector	Pass
§22.917	Spurious emissions at RF antenna connector	Pass
§22.917	Radiated spurious emissions	Pass
§22.863	Frequency stability	Pass
§2.1049	Occupied bandwidth	Pass

Notes: None

2.5 RSS-132/Gen test results

Table 2.5-1: ISED results summary

Section	Test description	Verdict
RSS-132, 5.2	Types of modulation	Pass ¹
RSS-132, 5.1	Frequency sub-bands	Pass ²
RSS-132, 5.3	Frequency stability	Pass
RSS-132, 5.4	Transmitter output power and equivalent radiated power (e.r.p.)	Pass
RSS-132, 5.5	Transmitter unwanted emissions	Pass
RSS-Gen, 6.7	Occupied bandwidth	Pass

Notes: ¹EUT employs digital modulation

²EUT transmits within 869-894 MHz frequency range

³The EUT is a fixed base station.

Section 3. Equipment under test (EUT) details

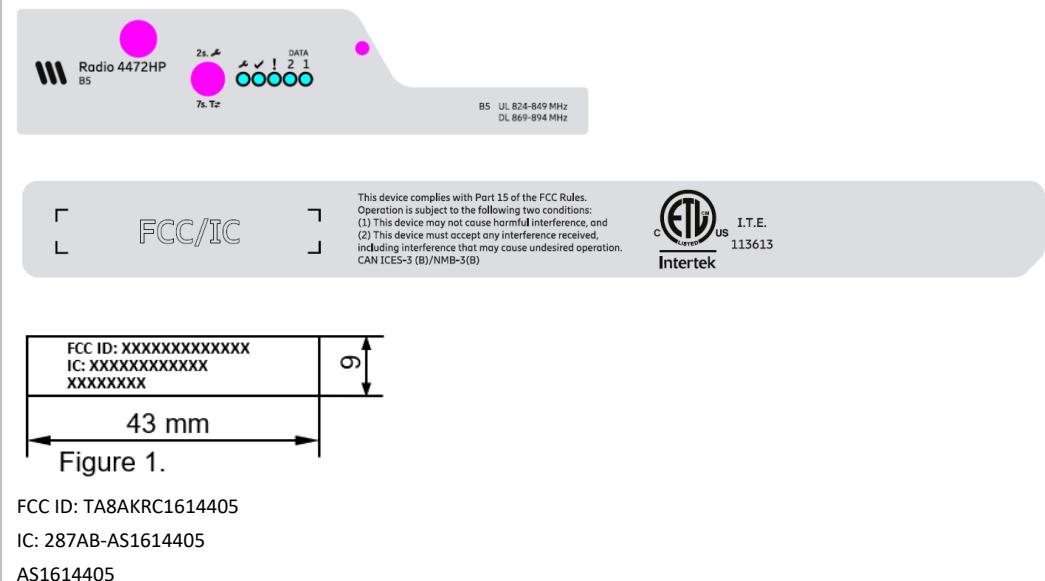
3.1 EUT information

Product name	Radio Unit
Model	Radio 4472HP B5
Part number	KRC 161 4405/3 (tested), KRC 161 4405/31
Revision	R1A
Serial number	EA2B094881, EA2B094874 (for radiated spurious emissions)
Antenna ports	4 TX/RX
RF BW / IBW	25 MHz
FDD	45 MHz
Frequency	TX (DL): 869 – 894 MHz RX (UL): 824 – 849 MHz
Nominal O/P per Antenna port	60 W
Accuracy (nominal)	±0.1 ppm
Nominal voltage	-48 VDC (-36 to -58.5 VDC)
RAT	LTE (NB-IoT IB, GB, SA) NR WCDMA GSM: MRO only NB-IoT SA: MRO only
Modulation	LTE: QPSK, 16 QAM, 64 QAM, 256 QAM NR: QPSK, 16 QAM, 64 QAM, 256 QAM WCDMA: QPSK, 16 QAM, 64 QAM GSM: GMSK, 8PSK, AQPSK
Channel bandwidth	LTE: 1.4, 3, 5, 10 MHz NR: 5, 10, 15, 20, 25 MHz NB-IoT (IB, GB): 200 kHz NB-IoT (SA): 400 kHz WCDMA: 5 MHz GSM: 200 kHz
Maximum combined OBW per port	25 MHz
CPRI	2.5 – 24.3 Gbps (Data 1, 2)
Channel raster	LTE: 100 kHz NR: 100 kHz WCDMA: 200 kHz GSM: 200 kHz
Regulatory requirements	Radio: FCC Part 2, 22, RSS-Gen, RSS-132 EMC: FCC Part 15, ICES-003
Emission Designator	LTE: 1M40W7D, 3M00W7D, 5M00W7D, 10M0W7D NR: 5M00W7D, 10M0W7D, 15M0W7D, 20M0W7D, 25M0W7D WCDMA: 5M00F9W GSM: 200KG7W NB-IoT SA: 400KW7D
Supported Configurations	Single Antenna, TX Diversity, MIMO, Carrier Aggregation, Ericsson Spectral Sharing (ESS)
Operating temperature	-40 °C to +55 °C
Max RF Power	240 W total / radio (= 4 ports × 60 W)

Supported carriers /band/ port SRO/MRO	Up to 6 carriers /band/port (MRO) Max 6 LTE carriers/band/port Max 5 NR carriers/band/port Max 5 WCDMA carriers/band/port Max 3 GSM carriers/band/port Max 1 NB-IoT SA carriers/band/port
Carrier Configuration:	SRO: LTE, NR, WCDMA MRO: Combinations of LTE, NR, WCDMA, GSM and NB-IoT SA GSM in MRO mode only with wide carriers.
RAT SC Carrier Power (max)	LTE 1.4, 3 MHz: 20 W LTE 5 MHz: 40 W LTE 10 MHz: 60 W NR 5 MHz: 40 W NR 10, 15, 20, 25 MHz: 60 W WCDMA: 40 W GSM: 20W NB-IoT SA: 20 W

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	<p>Radio 4472HP B5 is a multi-standard remote Single Band radio forming part of the Ericsson RBS (Radio Base Station) equipment. Radio 4472HP provides radio access for mobile and fixed devices. Radio 4472HP operates over the band 5 via 4 TX/RX ports connected to the Remote Radio Unit (RRU) antennas. Radio 4472HP transmits and receives on all 4 ports. Radio unit installation is designed for pole, wall or rail mount options. A fiber optic interface (2) provides the RRU/RBS control and digital interface between the Radio and the RBS. Radio 4472HP is convection cooled and can be mounted either vertically or horizontally.</p> <p>Output RF Power is rated at 4×60 W. Altitude during operation: Below 4000 m.</p> <p>Radio 4472HP is a synthesized Transceiver designed for use in the 3GPP (Third Generation Partnership Project) for LTE (Long Term Evolution) - E-UTRA Base Station, NR (New Radio), WCDMA and GSM.</p> <p>Radio product is KRC 161 4405/31 which is a SW locked customer deliverable. Tests were executed on the KRC 161 4405/3 which is a SW unlocked variant of the KRC 161 4405/31 radio to enable efficient testing for compliance. Both variants are electrically identical.</p>												
Ports/Interface	<table border="1"> <thead> <tr> <th>Port</th><th>Description</th></tr> </thead> <tbody> <tr> <td>A, B, C, D</td><td>RF Ports</td></tr> <tr> <td>Data 1, 2</td><td>Optical Interface</td></tr> <tr> <td>Alarm / Fan</td><td>Alarm / Fan Control</td></tr> <tr> <td>AISG</td><td>AISG communication port</td></tr> <tr> <td>-48VDC</td><td>DC Input</td></tr> </tbody> </table>	Port	Description	A, B, C, D	RF Ports	Data 1, 2	Optical Interface	Alarm / Fan	Alarm / Fan Control	AISG	AISG communication port	-48VDC	DC Input
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A, B, C, D	RF Ports												
Data 1, 2	Optical Interface												
Alarm / Fan	Alarm / Fan Control												
AISG	AISG communication port												
-48VDC	DC Input												
Physical	<table border="1"> <tbody> <tr> <td>Dimensions</td><td>419 x 269 x 155 mm</td></tr> <tr> <td>Weight</td><td>14.5 kg without fan</td></tr> <tr> <td>Operating Temperature</td><td>-40 °C to +55 °C</td></tr> <tr> <td>Mounting</td><td>Rail, wall and pole Vertical: portrait and bookshelf mounting are supported Horizontal: supported with a fan unit installed</td></tr> <tr> <td>Cooling</td><td>Natural convection; optional fan unit</td></tr> </tbody> </table>	Dimensions	419 x 269 x 155 mm	Weight	14.5 kg without fan	Operating Temperature	-40 °C to +55 °C	Mounting	Rail, wall and pole Vertical: portrait and bookshelf mounting are supported Horizontal: supported with a fan unit installed	Cooling	Natural convection; optional fan unit		
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Mounting	Rail, wall and pole Vertical: portrait and bookshelf mounting are supported Horizontal: supported with a fan unit installed												
Cooling	Natural convection; optional fan unit												
Software details	CXP202113/1_R25A05												
Product Identification / Markings and Labels	 <p>FCC ID: TA8AKRC1614405 IC: 287AB-AS1614405 AS1614405</p>												

3.3 EUT test details

EUT setup/configuration rationale for Down link:

RAT	Modulation	Test Model / Configuration
LTE	QPSK	TM1.1
LTE	16QAM	TM3.2
LTE	64QAM	TM3.1
LTE	256QAM	TM3.1a
NR	QPSK	TM1.1
NR	16QAM	TM3.2
NR	64QAM	TM3.1
NR	256QAM	TM3.1a
WCDMA	QPSK	TM1
WCDMA	16QAM	TM5
WCDMA	64QAM	TM6
GSM	GMSK	GMSK
GSM	8PSK	8PSK
GSM	AQPSK	AQPSK

LTE Test Configurations:

Configuration	CBW (MHz)	Low (MHz)	Middle (MHz)	High (MHz)
LTE 1C	1.4	869.7	881.5	893.3
	3	870.5	881.5	892.5
	5 [IB]	871.5	881.5	891.5
	10 [GB]	874	881.5	889
LTE 2C Contig	1.4	869.7+871.1	880.8+882.2	891.9+893.3
	10	874+884	876.5+886.5	879+889
LTE 6C Contig	1.4	869.7+871.1+872.5 +873.9+875.3+876.7	878+879.4+880.8 +882.2+883.6+885	886.3+887.7+889.1 +890.5+891.9+893.3
	3	870.5+873.5+876.5 +879.5+882.5+885.5	874+877+880 +883+886+889	877.5+880.5+883.5 +886.5+889.5+892.5
LTE 2C Non-contig	1.4	869.7_888.3	872.2_890.8	874.7_893.3
	5		871.5_891.5	
LTE 6C Non-contig	1.4	869.7+871.1+872.5 _885.5+886.9+888.3	872.2+873.6+875 _888+889.4+890.8	874.7+876.1+877.5 _890.5+891.9+893.3

NR Test Configurations:

Configuration	CBW (MHz)	Low (MHz)	Middle (MHz)	High (MHz)
NR 1C	5	871.5	881.5	891.5
	10	874	881.5	889
	15	876.5	881.5	886.5
	20	879	881.5	884
	25		881.5	
NR 2C Contig	5	871.5+876.5	879+884	886.5+891.5
	10	874+884	876.5+886.5	879+889
NR 5C Contig	5		871.5+876.5+881.5+886.5+891.5	
NR 2C Non-contig	5		871.5_891.5	
NR 4C Non-contig	5		871.5+876.5_886.5+891.5	

GSM test configuration

CBW (MHz)	Low (MHz)	Middle (MHz)	High (MHz)
0.2	869.2	881.6	893.6
0.2	869.4		893.8

SA IoT test configuration

CBW (MHz)	Low (MHz)	Middle (MHz)	High (MHz)
0.4	869.2	881.5	893.8

WCDMA Test Configurations:

Configuration	CBW (MHz)	Low (MHz)	Middle (MHz)	High (MHz)
WCDMA 1C	5	881.5	881.6	891.4
WCDMA 2C Contig	5	871.5+876.5	879+884	886.4+891.4
WCDMA 5C Contig	5		871.5+876.5+881.4+886.4+891.4	
WCDMA 2C Non-contig	5		871.5_891.4	
WCDMA 4C Non-contig	5		871.5+876.5_886.4+891.4	

Multi-RAT Test Configurations:

	Configuration	Low (MHz)	Middle (MHz)	High (MHz)
Contiguous	G+W	869.2+871.8	879+881.6	893.8+891.2
	G+L5IB	869.2+871.8	879+881.6	893.8+891.2
	G+N5	869.2+871.8	879+881.6	893.8+891.2
	L1.4+W	869.7+872.8	879+882.2	893.3+890.2
	W+N5	871.5+876.5	879+884	886.6+891.5
	SA+W	869.2+871.8	879+881.8	893.8+891.2
	N5+L1.4	871.5+874.7	880.8+884	890.1+893.3
	SA+L5	869.2+871.9	879+881.7	893.8+891.1
	SA+N5	869.2+871.9	884+881.3	891.1+893.8
	G+L5+SA	869.2+871.8+874.5	878.8+881.4+884.1	888.6+891.1+893.8
	W+L1.4+SA	871.5+874.7+875.6	880.6+883.8+884.7	889.8+892.9+893.8
	N5+L1.4+SA	871.5+874.7+875.6	880.6+883.8+884.7	889.7+892.9+893.8
	G+L1.4+N5	869.2+870+873.2	878.4+879.1+882.3	887.6+888.3+891.5
	L1.4+W+N5	869.7+872.8+877.9	876.5+879.8+884.7	883.3+886.6+891.5
	3G+2L5+SA	869.2+869.4+869.6 +872.2+877.2+879.9	876.2+876.4+876.6 +879.1+884.1+886.8	883.2+883.4+883.6 +886.1+891.1+893.8
	2W+3L1.4+SA	871.5+876.5+879.7 +881.1+882.5+883.4	876.8+881.8+884.9 +886.3+887.7+888.6	882+887+890.1 +891.5+892.9+893.8
	2N5+3L1.4+SA	871.5+876.5+879.7 +881.1+882.5+883.4	876.7+881.7+884.9 +886.3+887.7+888.6	881.9+886.9+890.1 +891.5+892.9+893.8
	2G+2L1.4+2N5	869.2+869.4+870.2 +871.6+874.8+879.8	875+875.2+876M +877.4+880.6+885.6	881+881.2+881.9 +883.3+886.5+891.5
	2L1.4+2W+2N5	869.7+871.1+874.2 +879.2+884.3+889.3	n/a	871.9+873.3+876.5 +881.6+886.5+891.5

Configuration	Frequency (MHz)
G_W	869.2_891.4
G_L5IB	869.2_891.5
N5_G	871.5_893.8
W_L1.4	871.5_893.3
W_N5	871.5_891.5
W_SA	871.5_893.8
N5_L1.4	871.5_893.3
L5_SA	871.5_893.8
SA_N5	869.2_891.5
G_SA_L10	869.2_881.5_889
W_L1.4_SA	871.5_881.5_893.8
N5_SA_L1.4	871.5_881.5_893.3
G_L1.4_N5	869.2_881.5_891.5
L1.4_W_N5	869.7_881.6_891.5
3G_SA_2L5	869.2+869.4+869.6_881.5_886.5+891.5
2W_3L1.4_SA	871.5+876.5_880.1+881.5+882.9_893.8
2N5_SA_3L1.4	871.5+876.5_881.5_890.5+891.9+893.3
2G_2L1.4_2N5	869.2+869.4_880.8+882.2_886.5+891.5
2L1.4+2W_2N5	869.7+871.1+874.4+879.4_886.5_891.5

Radiated Emissions Test Configurations:

	Config	Frequency (MHz)
1	SA_N5	869.2_891.5

3.4 EUT setup diagram

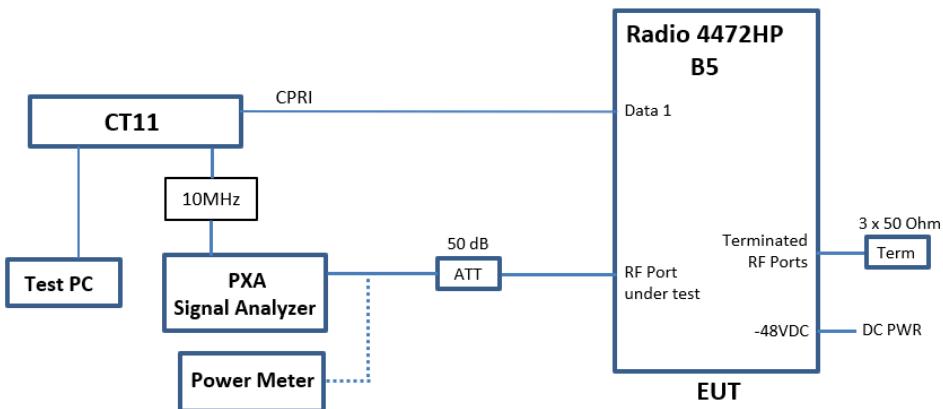


Figure 3.4-1: Setup diagram – Radio Compliance

3.5 Setup photographs



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



Figure 3.5-2: EUT Set-up photo for Thermal Radio Compliance Testing

Setup photographs, continued

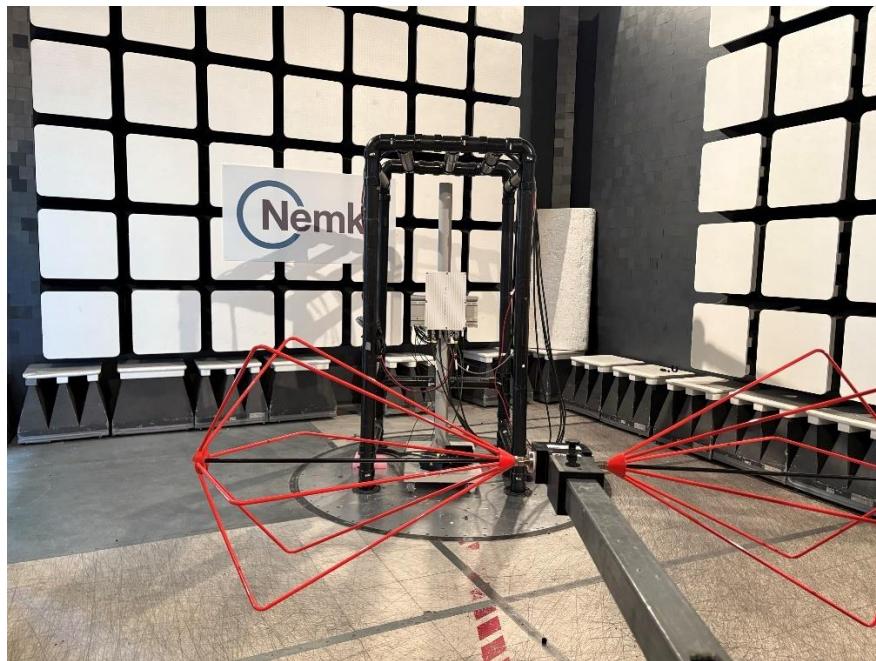


Figure 3.5-3: EUT Set-up photos for Cabinet Radiated Emissions below 30 to 200 MHz



Figure 3.5-4: EUT Set-up photos for Cabinet Radiated Emissions 200 to 1000 MHz

Setup photographs, continued

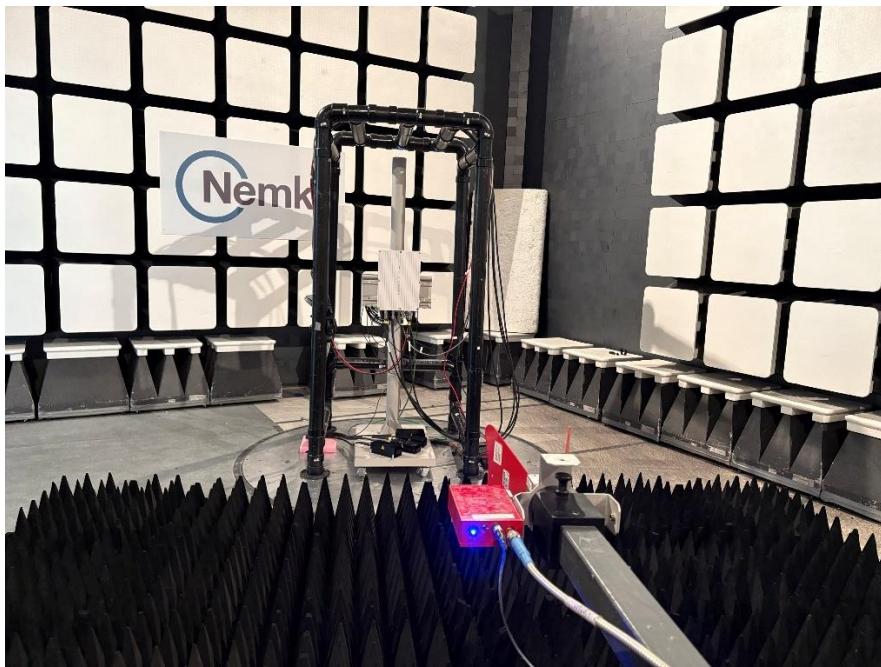


Figure 3.5-5: EUT Set-up photos for Cabinet Radiated Emissions above 1 GHz

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 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, ±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
RF Output power measurement using Spectrum Analyzer ¹	0.71
RF Output power measurement using Power Meter	0.54
Conducted spurious emissions	0.90
Other antenna port measurements	0.81

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.
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
DC Power source	Ametek	SGA80X125C-0AAA	FA002737	—	NCR
Receiver/spectrum analyzer	Rohde & Schwarz	ESU 40	FA002071	1 year	February 7, 2026
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
Biconical antenna (30–300 MHz)	Sunol	BC2	FA002078	1 year	June 5, 2025
Log periodic antenna (200–5000 MHz)	Sunol	LP5	FA002077	1 year	June 5, 2025
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
PXA Signal Analyzer	Keysight	N9030B	MY57144347	1 year	May 28, 2026
FSV Signal Analyzer	Rohde & Schwarz	FSV 40	FA002731	1 year	March 25, 2026
Power Meter	Rohde & Schwarz	NRP2	105452	2 years	March 13, 2027
Power Sensor	Rohde & Schwarz	NRP-Z11	111941	2 years	February 28, 2026
30 dB Attenuator	Weinschel Associates	WA66-30-33	1001278743	—	VOU
10 dB Attenuator (x2)	Mini-Circuits	BW-K10-2W44+	—	—	VOU
CT11*	Ericsson	LPC 102 494/1	T01G495060	—	NCR
ENA Network Analyzer	Keysight	E5080B	MY59202549	1 year	April 22, 2025
DC Power Supply	Xantrex	XKW 60-50	E00109863	—	VOU

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

* CT-DU25 is the test equipment that drives the radios traffic.

Section 8. Testing data

8.1 Maximum output power at RF antenna connector (B5)

8.1.1 Definitions and limits

FCC §22.913(a) Maximum ERP: The ERP of transmitters in the Cellular Radiotelephone Service must not exceed the limits in this section.

(2) Except as described in paragraphs (a)(3) and (4) of this section, for systems operating in areas more than 72 kilometers (45 miles) from international borders that:

- (i) 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; or
- (ii) Extend coverage into Unserved Area on a secondary basis (see § 22.949), the ERP of base transmitters and repeaters must not exceed—
 - (A) 1000 watts per emission; or
 - (B) 800 watts/MHz (PSD) per sector.

RSS-132, Section 5.4: Transmitter output power and equivalent radiated power (e.r.p.)

The transmitter output power shall be measured in terms of average power. The equivalent radiated power (e.r.p.) shall not exceed 7 watts for mobile equipment and 3 watts for portable equipment.

The effective isotropic radiated power (e.i.r.p.) shall not exceed the limits specified in SRSP-503 for base station equipment.

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 using a signal corresponding to the highest PAPR during periods of continuous transmission.

SRSP-503, Section 5: Technical Criteria

5.1 Radiated power and antenna height limits for fixed and base stations

20. Fixed and base stations located in geographical areas at a distance greater than 26 km from large or medium population centres and transmitting in accordance with paragraphs 15 and 16 within the frequency range 869-894 MHz, may increase their e.i.r.p. up to a maximum of 1640 watts/5 MHz (i.e. no more than 1640 watts e.i.r.p. in any 5 MHz band segment), with an antenna HAAT up to 150 m.

5.2 Fixed and base stations with multiple-input multiple-output (MIMO) antennas

26. If a fixed or base station is equipped with multiple antennas, the following rules regarding e.i.r.p. and antenna height shall apply.

5.2.1 E.i.r.p. for correlated transmission

27. When multiple antennas are used at a station to transmit the same digital data in a given symbol period (even with different coding or phase shifts) for transmit diversity or to steer signal energy towards a particular direction for enhanced directional gain (i.e. beamforming) or to devise any other transmission mode where signals from different antennas are correlated, the e.i.r.p. shall be calculated based on the aggregate power conducted across all antennas and resulting directional gain $10 \log_{10}(N) + G_{max}$ dBi. Here, N is the number of antennas and Gmax is the highest gain in dBi among all antennas.

5.2.2 E.i.r.p. for uncorrelated transmission

28. When multiple antennas are used at a station in which each antenna transmits different digital data during any given symbol period (i.e. space-time code) or independent parallel data stream over the same frequency bandwidth in order to increase data rates (i.e. spatial multiplexing), or forms any other transmission mode where signals from different antennas are completely uncorrelated, the e.i.r.p. shall be calculated based on the aggregate power conducted across all antennas and maximum antenna gain Gmax.

5.2.3 Antenna height

29. The HAAT of a fixed or base station with multiple antennas shall be calculated with reference to the highest antenna.

8.1.2 Test summary

Test date	April 7, 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.

- Sample Selection: A random sample of devices was selected for testing to ensure representative results.
- Antenna Port Selection: The device under test (EUT) has four antenna ports. Port D was identified as the port with the highest transmit power and was selected for all subsequent measurements.
- Modulation Selection: The EUT supports multiple Quadrature Amplitude Modulation (QAM) schemes. QPSK was chosen as the worst-case modulation due to its higher power output.
- MIMO Power Calculation:
 - For New Radio (NR) and Long-Term Evolution (LTE) modes, the Total MIMO Power Spectral Density (PSD) was calculated by adding 6.02 dB to the
 - PSD of a single antenna port to account for the 4x4 MIMO configuration.
 - For IoT SA mode, the Total MIMO PSD was calculated by adding 3.01 dB to the PSD of a single antenna port to account for the 2x2 MIMO configuration.
 - GSM transmits completely uncorrelated signal from each antenna port, therefore there were no MIMO factors used.
- Radio Base Station (RBS) EIRP Limits: RBS EIRP limits vary depending on deployment scenarios. To ensure compliance with regulatory limits, specific RBS setups and carrier configurations are considered during site commissioning.
- Test Conditions: The EUT was tested under maximum rated output power conditions to assess worst-case emission levels.
- Antenna and Deployment Considerations: The EUT was tested without an antenna. Licensees are responsible for evaluating installation and deployment factors, including maximum power settings, antenna gain, and feeder loss, to ensure compliance with Equivalent Isotropically Radiated Power (EIRP) limits as defined by the FCC and ISED regulations.
- EIRP Calculation [FCC] Example: For Radio 4472HP B5, ERP was calculated using an antenna gain of 16.5 dBi and a feeder loss of 5.0 dB. Power settings and carrier configurations will be adjusted as necessary to meet regulatory requirements based on specific deployment scenarios.
- EIRP Calculation [ISED] Example: For Radio 4472HP B5, EIRP was calculated using an antenna gain of 16.5 dBi and a feeder loss of 8.0 dB. Power settings and carrier configurations will be adjusted as necessary to meet regulatory requirements based on specific deployment scenarios.
- The FCC and ISED regulatory limits for Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) are 800 W/MHz (59.03 dBm) and 1640 W/5 MHz (62.15 dBm), respectively. As EIRP is calculated as ERP + 2.15 dB, compliance with either limit ensures compliance with the other. The tables below present measurement results evaluated against the EIRP limit, with the margin of compliance being identical for both ERP and EIRP.

Spectrum analyzer settings for PSD:

Detector mode	RMS (Average)
Resolution bandwidth	1 MHz (for FCC), 5 MHz (for ISED)
Video bandwidth	>RBW
Trace mode	Averaging
Measurement time	Auto

Total channel power was measured using an RMS power meter.

8.1.4 Test data (FCC configuration)

Table 8.1-1: RF power density measurement results of a single-carrier operation for LTE on 1.4 MHz channel

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
869.7	43.13	49.13	5.0	16.5	60.63	61.18	0.55
881.5	43.25	49.26	5.0	16.5	60.76	61.18	0.42
893.3	43.03	49.03	5.0	16.5	60.53	61.18	0.65

Table 8.1-2: RF power density measurement results of a single-carrier operation for LTE on 3 MHz channel

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
870.5	40.59	46.59	5.0	16.5	58.09	61.18	3.09
881.5	40.28	46.28	5.0	16.5	57.78	61.18	3.40
892.5	40.36	46.36	5.0	16.5	57.86	61.18	3.32

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

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
871.5	41.85	47.85	5.0	16.5	59.35	61.18	1.83
881.5	41.94	47.95	5.0	16.5	59.45	61.18	1.73
891.5	41.85	47.86	5.0	16.5	59.36	61.18	1.82

Table 8.1-4: RF power density measurement results of a single-carrier operation for LTE on 10 MHz channel with GB

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
874.0	39.69	45.69	5.0	16.5	57.19	61.18	3.99
881.5	39.94	45.94	5.0	16.5	57.44	61.18	3.74
889.0	39.95	45.95	5.0	16.5	57.45	61.18	3.73

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	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
871.5	41.29	47.30	5.0	16.5	58.80	61.18	2.38
881.5	41.35	47.35	5.0	16.5	58.85	61.18	2.33
891.5	41.28	47.28	5.0	16.5	58.78	61.18	2.40

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	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
874.0	40.31	46.31	5.0	16.5	57.81	61.18	3.37
881.5	40.39	46.40	5.0	16.5	57.90	61.18	3.28
889.0	40.29	46.29	5.0	16.5	57.79	61.18	3.39

Test data, continued (FCC configuration)

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	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
876.5	39.44	45.44	5.0	16.5	56.94	61.18	4.24
881.5	39.33	45.33	5.0	16.5	56.83	61.18	4.35
886.5	39.23	45.23	5.0	16.5	56.73	61.18	4.45

Table 8.1-8: RF power density measurement results of a single-carrier operation for NR on 20 MHz channel

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
879.0	38.36	44.37	5.0	16.5	55.87	61.18	5.31
881.5	38.25	44.25	5.0	16.5	55.75	61.18	5.43
884.0	38.22	44.22	5.0	16.5	55.72	61.18	5.46

Table 8.1-9: RF power density measurement results of a single-carrier operation for NR on 25 MHz channel

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
881.5	36.87	42.87	5.0	16.5	54.37	61.18	6.81

Table 8.1-10: RF power density measurement results of a single-carrier operation for WCDMA on 5 MHz channel

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
871.5	42.27	48.27	5.0	16.5	59.77	61.18	1.41
881.6	41.74	47.74	5.0	16.5	59.24	61.18	1.94
891.4	41.97	47.97	5.0	16.5	59.47	61.18	1.71

Table 8.1-11: RF power density measurement results of a multi-carrier operation for LTE on 1.4 MHz channel (2C)

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	43.33	49.34	5.0	16.5	60.84	61.18	0.34
2 Carriers	43.27	49.27	5.0	16.5	60.77	61.18	0.41
2 Carriers	43.02	49.02	5.0	16.5	60.52	61.18	0.66

Table 8.1-12: RF power density measurement results of a multi-carrier operation for LTE on 10 MHz channel (2C)

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	36.91	42.91	5.0	16.5	54.41	61.18	6.77
2 Carriers	36.72	42.72	5.0	16.5	54.22	61.18	6.96
2 Carriers	36.89	42.89	5.0	16.5	54.39	61.18	6.79

Table 8.1-13: RF power density measurement results of a multi-carrier operation for LTE on 1.4 MHz channel (6C)

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
6 Carriers	40.79	46.79	5.0	16.5	58.29	61.18	2.89
6 Carriers	40.28	46.28	5.0	16.5	57.78	61.18	3.40
6 Carriers	40.05	46.05	5.0	16.5	57.55	61.18	3.63

Test data, continued (FCC configuration)

Table 8.1-14: RF power density measurement results of a multi-carrier operation for LTE on 3 MHz channel (6C)

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
6 Carriers	37.69	43.69	5.0	16.5	55.19	61.18	5.99
6 Carriers	37.24	43.24	5.0	16.5	54.74	61.18	6.44
6 Carriers	37.35	43.35	5.0	16.5	54.85	61.18	6.33

Table 8.1-15: RF power density measurement results of a multi-carrier operation for NR on 5 MHz channel (2C)

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	40.04	46.04	5.0	16.5	57.54	61.18	3.64
2 Carriers	40.22	46.22	5.0	16.5	57.72	61.18	3.46
2 Carriers	39.38	45.38	5.0	16.5	56.88	61.18	4.30

Table 8.1-16: RF power density measurement results of a multi-carrier operation for NR on 10 MHz channel (2C)

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	37.46	43.46	5.0	16.5	54.96	61.18	6.22
2 Carriers	37.47	43.47	5.0	16.5	54.97	61.18	6.21
2 Carriers	37.34	43.34	5.0	16.5	54.84	61.18	6.34

Table 8.1-17: RF power density measurement results of a multi-carrier operation for NR on 5 MHz channel (5C)

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
5 Carriers	36.01	42.01	5.0	16.5	53.51	61.18	7.67

Table 8.1-18: RF power density measurement results of a multi-carrier operation for WCDMA on 5 MHz channel (2C)

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	40.58	46.58	5.0	16.5	58.08	61.18	3.10
2 Carriers	40.54	46.54	5.0	16.5	58.04	61.18	3.14
2 Carriers	40.94	46.94	5.0	16.5	58.44	61.18	2.74

Table 8.1-19: RF power density measurement results of a multi-carrier operation for WCDMA on 5 MHz channel (5C)

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
5 Carriers	36.52	42.52	5.0	16.5	54.02	61.18	7.16

Table 8.1-20: RF power density measurement results of a multi-carrier operation for LTE 1.4 MHz [2C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	43.16	49.16	5.0	16.5	60.66	61.18	0.52
2 Carriers	43.11	49.11	5.0	16.5	60.61	61.18	0.57
2 Carriers	42.94	48.94	5.0	16.5	60.44	61.18	0.74

Test data, continued (FCC configuration)

Table 8.1-21: RF power density measurement results of a multi-carrier operation for LTE 5 MHz [2C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	39.99	45.99	5.0	16.5	57.49	61.18	3.69

Table 8.1-22: RF power density measurement results of a multi-carrier operation for LTE 1.4 MHz [6C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
6 Carriers	39.45	45.45	5.0	16.5	56.95	61.18	4.23
6 Carriers	39.34	45.34	5.0	16.5	56.84	61.18	4.34
6 Carriers	39.18	45.18	5.0	16.5	56.68	61.18	4.50

Table 8.1-23: RF power density measurement results of a multi-carrier operation for NR 5 MHz [2C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	39.64	45.65	5.0	16.5	57.15	61.18	4.03

Table 8.1-24: RF power density measurement results of a multi-carrier operation for NR 5 MHz [4C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
4 Carriers	36.69	42.69	5.0	16.5	54.19	61.18	6.99

Table 8.1-25: RF power density measurement results of a multi-carrier operation for WCDMA 5 MHz [2C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	40.07	46.07	5.0	16.5	57.57	61.18	3.61

Table 8.1-26: RF power density measurement results of a multi-carrier operation for WCDMA 5 MHz [4C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
4 Carriers	37.38	43.38	5.0	16.5	54.88	61.18	6.30

Table 8.1-27: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + WCDMA 5 MHz [2C]

Frequency, MHz	RF power density, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	42.02	5.0	16.5	53.52	61.18	7.66
2 Carriers	42.84	5.0	16.5	54.34	61.18	6.84
2 Carriers	41.89	5.0	16.5	53.39	61.18	7.79

Table 8.1-28: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + LTE 5 MHz with IB [2C]

Frequency, MHz	RF power density, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	42.06	5.0	16.5	53.56	61.18	7.62
2 Carriers	44.13	5.0	16.5	55.63	61.18	5.55
2 Carriers	42.12	5.0	16.5	53.62	61.18	7.56

Test data, continued (FCC configuration)

Table 8.1-29: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + NR 5 MHz [2C]

Frequency, MHz	RF power density, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	41.64	5.0	16.5	53.14	61.18	8.04
2 Carriers	43.77	5.0	16.5	55.27	61.18	5.91
2 Carriers	41.47	5.0	16.5	52.97	61.18	8.21

Table 8.1-30: RF power density measurement results of a multi-RAT operation for WCDMA 5 MHz + LTE 1.4 MHz [2C]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	42.62	48.62	5.0	16.5	60.12	61.18	1.06
2 Carriers	42.84	48.84	5.0	16.5	60.34	61.18	0.84
2 Carriers	42.35	48.35	5.0	16.5	59.85	61.18	1.33

Table 8.1-31: RF power density measurement results of a multi-RAT operation for WCDMA 5 MHz + NR 5 MHz [2C]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	40.49	46.49	5.0	16.5	57.99	61.18	3.19
2 Carriers	40.47	46.48	5.0	16.5	57.98	61.18	3.20
2 Carriers	40.38	46.38	5.0	16.5	57.88	61.18	3.30

Table 8.1-32: RF power density measurement results of a multi-RAT operation for IoT SA 0.4 MHz + WCDMA 5 MHz [2C]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	43.34	46.34	5.0	16.5	57.84	61.18	3.34
2 Carriers	43.36	46.36	5.0	16.5	57.86	61.18	3.32
2 Carriers	42.89	45.89	5.0	16.5	57.39	61.18	3.79

Table 8.1-33: RF power density measurement results of a multi-RAT operation for NR 5 MHz + LTE 1.4 MHz [2C]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	42.87	48.87	5.0	16.5	60.37	61.18	0.81
2 Carriers	42.52	48.52	5.0	16.5	60.02	61.18	1.16
2 Carriers	42.13	48.13	5.0	16.5	59.63	61.18	1.55

Table 8.1-34: RF power density measurement results of a multi-RAT operation for IoT SA 0.4 MHz + LTE 5 MHz [2C]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	43.55	46.55	5.0	16.5	58.05	61.18	3.13
2 Carriers	43.73	46.73	5.0	16.5	58.23	61.18	2.95
2 Carriers	42.95	45.95	5.0	16.5	57.45	61.18	3.73

Table 8.1-35: RF power density measurement results of a multi-RAT operation for IoT SA 0.4 MHz + NR 5 MHz [2C]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	43.24	46.24	5.0	16.5	57.74	61.18	3.44
2 Carriers	43.71	46.71	5.0	16.5	58.21	61.18	2.97
2 Carriers	43.18	46.18	5.0	16.5	57.68	61.18	3.50

Test data, continued (FCC configuration)

Table 8.1-36: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + LTE 5 MHz + IoT SA 0.4 MHz [3C]

Frequency, MHz	RF power density, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
3 Carriers	43.48	5.0	16.5	54.98	61.18	6.20
3 Carriers	43.48	5.0	16.5	54.98	61.18	6.20
3 Carriers	43.43	5.0	16.5	54.93	61.18	6.25

Table 8.1-37: RF power density measurement results of a multi-RAT operation for WCDMA 5 MHz + LTE 1.4 MHz + IoT SA 0.4 MHz [3C]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
3 Carriers	44.47	47.47	5.0	16.5	58.97	61.18	2.21
3 Carriers	44.29	47.29	5.0	16.5	58.79	61.18	2.39
3 Carriers	43.55	46.55	5.0	16.5	58.05	61.18	3.13

Table 8.1-38: RF power density measurement results of a multi-RAT operation for NR 5 MHz + LTE 1.4 MHz + IoT SA 0.4 MHz [3C]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
3 Carriers	44.73	47.73	5.0	16.5	59.23	61.18	1.95
3 Carriers	42.95	45.95	5.0	16.5	57.45	61.18	3.73
3 Carriers	42.39	45.39	5.0	16.5	56.89	61.18	4.29

Table 8.1-39: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + LTE 1.4 MHz + NR 5 MHz [3C]

Frequency, MHz	RF power density, dBm/MHz	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
Frequency, MHz	Feeder loss, dB				
3 Carriers	41.38				
3 Carriers	5.0	16.5	52.88	61.18	8.30
3 Carriers	44.05	5.0	55.55	61.18	5.63
3 Carriers	43.63	5.0	55.13	61.18	6.05

Table 8.1-40: RF power density measurement results of a multi-RAT operation for LTE 1.4 MHz + WCDMA 5 MHz + NR 5 MHz [3C]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
3 Carriers	41.44	47.44	5.0	16.5	58.94	61.18	2.24
3 Carriers	41.65	47.65	5.0	16.5	59.15	61.18	2.03
3 Carriers	41.98	47.98	5.0	16.5	59.48	61.18	1.70

Table 8.1-41: RF power density measurement results of a multi-RAT operation for 3 x GSM 0.2 MHz + 2 x LTE 5 MHz + IoT SA 0.4 MHz [6C]

Frequency, MHz	RF power density, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
6 Carriers	43.34	5.0	16.5	54.84	61.18	6.34
6 Carriers	44.19	5.0	16.5	55.69	61.18	5.49
6 Carriers	44.59	5.0	16.5	56.09	61.18	5.09

Test data, continued (FCC configuration)

Table 8.1-42: RF power density measurement results of a multi-RAT operation for 2 x WCDMA 5 MHz + 3 x LTE 1.4 MHz + IoT SA 0.4 MHz [6C]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
6 Carriers	41.59	44.59	5.0	16.5	56.09	61.18	5.09
6 Carriers	40.79	43.79	5.0	16.5	55.29	61.18	5.89
6 Carriers	40.59	43.59	5.0	16.5	55.09	61.18	6.09

Table 8.1-43: RF power density measurement results of a multi-RAT operation for 2 x NR 5 MHz + 3 x LTE 1.4 MHz + IoT SA 0.4 MHz [6C]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
6 Carriers	41.10	44.10	5.0	16.5	55.60	61.18	5.58
6 Carriers	41.00	44.00	5.0	16.5	55.50	61.18	5.68
6 Carriers	40.53	43.53	5.0	16.5	55.03	61.18	6.15

Table 8.1-44: RF power density measurement results of a multi-RAT operation for 2 x GSM 0.2 MHz + 2x LTE 1.4 MHz + 2 x NR 5 MHz [6C]

Frequency, MHz	RF power density, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
6 Carriers	42.60	5.0	16.5	54.10	61.18	7.08
6 Carriers	44.06	5.0	16.5	55.56	61.18	5.62
6 Carriers	43.89	5.0	16.5	55.39	61.18	5.79

Table 8.1-45: RF power density measurement results of a multi-RAT operation for 2 x LTE 1.4 MHz + 2 x WCDMA 5 MHz + 2 x NR 5 MHz [6C]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
6 Carriers	39.44	45.44	5.0	16.5	56.94	61.18	4.24
6 Carriers	39.81	45.44	5.0	16.5	56.94	61.18	4.24

Table 8.1-46: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + WCDMA 5 MHz [2C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	40.17	5.0	16.5	51.67	61.18	9.51

Table 8.1-47: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + LTE 5 MHz with IB [2C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	41.84	5.0	16.5	53.34	61.18	7.84

Table 8.1-48: RF power density measurement results of a multi-RAT operation for NR 5 MHz + GSM 0.2 MHz [2C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	40.92	5.0	16.5	52.42	61.18	8.76

Test data, continued (FCC configuration)

Table 8.1-49: RF power density measurement results of a multi-RAT operation for WCDMA 5 MHz + LTE 1.4 MHz [2C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	41.72	47.72	5.0	16.5	59.22	61.18	1.96

Table 8.1-50: RF power density measurement results of a multi-RAT operation for WCDMA 5 MHz + NR 5 MHz [2C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	40.21	46.22	5.0	16.5	57.72	61.18	3.46

Table 8.1-51: RF power density measurement results of a multi-RAT operation for WCDMA 5 MHz + IoT SA 0.4 MHz [2C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	42.27	45.27	5.0	16.5	56.77	61.18	4.41

Table 8.1-52: RF power density measurement results of a multi-RAT operation for NR 5 MHz + LTE 1.4 MHz [2C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	41.45	47.45	5.0	16.5	58.95	61.18	2.23

Table 8.1-53: RF power density measurement results of a multi-RAT operation for LTE 5 MHz + IoT SA 0.4 MHz [2C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	42.54	45.54	5.0	16.5	57.04	61.18	4.14

Table 8.1-54: RF power density measurement results of a multi-RAT operation for IoT SA 0.4 MHz + NR 5 MHz [2C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
2 Carriers	42.81	45.81	5.0	16.5	57.31	61.18	3.87

Table 8.1-55: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + IoT SA 0.4 MHz + LTE 10 MHz [3C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
3 Carriers	42.74	5.0	16.5	54.24	61.18	6.94

Table 8.1-56: RF power density measurement results of a multi-RAT operation for WCDMA 5 MHz + LTE 1.4 MHz + IoT SA 0.4 MHz [3C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
3 Carriers	42.44	45.44	5.0	16.5	56.94	61.18	4.24

Table 8.1-57: RF power density measurement results of a multi-RAT operation for NR 5 MHz + IoT SA 0.4 MHz + LTE 1.4 MHz [3C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
3 Carriers	42.72	45.72	5.0	16.5	57.22	61.18	3.96

Test data, continued (FCC configuration)

Table 8.1-58: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + LTE 1.4 MHz + NR 5 MHz [3C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
3 Carriers	42.39	5.0	16.5	53.89	61.18	7.29

Table 8.1-59: RF power density measurement results of a multi-RAT operation for LTE 1.4 MHz + WCDMA 5 MHz + NR 5 MHz [3C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
3 Carriers	41.69	47.69	5.0	16.5	59.19	61.18	1.99

Table 8.1-60: RF power density measurement results of a multi-RAT operation for 3 x GSM 0.2 MHz + IoT SA 0.4 MHz + 2 x LTE 5 MHz [6C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
6 Carriers	43.37	5.0	16.5	54.87	61.18	6.31

Table 8.1-61: RF power density measurement results of a multi-RAT operation for 2 x WCDMA 5 MHz + 3 x LTE 1.4 MHz + IoT SA 0.4 MHz [6C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
6 Carriers	40.29	43.29	5.0	16.5	54.79	61.18	6.39

Table 8.1-62: RF power density measurement results of a multi-RAT operation for 2 x NR 5 MHz + IoT SA 0.4 MHz + 3 x LTE 1.4 MHz [6C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
6 Carriers	40.04	43.04	5.0	16.5	54.54	61.18	6.64

Table 8.1-63: RF power density measurement results of a multi-RAT operation for 2 x GSM 0.2 MHz + 2x LTE 1.4 MHz + 2 x NR 5 MHz [6C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
6 Carriers	42.14	5.0	16.5	53.64	61.18	7.54

Table 8.1-64: RF power density measurement results of a multi-RAT operation for 2 x LTE 1.4 MHz + 2 x WCDMA 5 MHz + 2 x NR 5 MHz [6C Non-contiguous]

Frequency, MHz	RF power density, dBm/MHz	Total MIMO PSD, dBm/MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/MHz	EIRP limit, dBm/MHz	Margin, dB
6 Carriers	39.47	45.47	5.0	16.5	56.97	61.18	4.21

Test data, continued (ISED configuration)

Table 8.1-65: RF power density measurement results of a single-carrier operation for LTE on 1.4 MHz channel

Frequency, MHz	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
869.7	44.14	50.14	8.0	16.5	58.64	62.15	3.51
881.5	43.86	49.86	8.0	16.5	58.36	62.15	3.79
893.3	43.92	49.92	8.0	16.5	58.42	62.15	3.73

Table 8.1-66: RF power density measurement results of a single-carrier operation for LTE on 3 MHz channel

Frequency, MHz	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
870.5	43.18	49.18	8.0	16.5	57.68	62.15	4.47
881.5	43.48	49.48	8.0	16.5	57.98	62.15	4.17
892.5	43.18	49.18	8.0	16.5	57.68	62.15	4.47

Table 8.1-67: RF power density measurement results of a single-carrier operation for LTE on 5 MHz channel with IB

Frequency, MHz	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
871.5	45.75	51.75	8.0	16.5	60.25	62.15	1.90
881.5	45.79	51.79	8.0	16.5	60.29	62.15	1.86
891.5	45.52	51.52	8.0	16.5	60.02	62.15	2.13

Table 8.1-68: RF power density measurement results of a single-carrier operation for LTE on 10 MHz channel with GB

Frequency, MHz	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
874.0	45.44	51.45	8.0	16.5	59.94	62.15	2.21
881.5	45.70	51.70	8.0	16.5	60.20	62.15	1.95
889.0	45.42	51.42	8.0	16.5	59.92	62.15	2.23

Table 8.1-69: RF power density measurement results of a single-carrier operation for NR on 5 MHz channel

Frequency, MHz	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
871.5	45.94	51.94	8.0	16.5	60.44	62.15	1.71
881.5	45.75	51.75	8.0	16.5	60.25	62.15	1.90
891.5	45.81	51.81	8.0	16.5	60.31	62.15	1.84

Table 8.1-70: RF power density measurement results of a single-carrier operation for NR on 10 MHz channel

Frequency, MHz	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
874.0	46.26	52.26	8.0	16.5	60.76	62.15	1.39
881.5	46.33	52.33	8.0	16.5	60.83	62.15	1.32
889.0	46.10	52.10	8.0	16.5	60.60	62.15	1.55

Test data, continued (ISED configuration)

Table 8.1-71: RF power density measurement results of a single-carrier operation for NR on 15 MHz channel

Frequency, MHz	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
876.5	44.652	50.65	8.0	16.5	59.15	62.15	3.00
881.5	44.513	50.51	8.0	16.5	59.01	62.15	3.14
886.5	44.493	50.49	8.0	16.5	58.99	62.15	3.16

Table 8.1-72: RF power density measurement results of a single-carrier operation for NR on 20 MHz channel

Frequency, MHz	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
879.0	43.44	49.44	8.0	16.5	57.94	62.15	4.21
881.5	43.38	49.38	8.0	16.5	57.88	62.15	4.27
884.0	43.36	49.36	8.0	16.5	57.86	62.15	4.29

Table 8.1-73: RF power density measurement results of a single-carrier operation for NR on 25 MHz channel

Frequency, MHz	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
881.5	42.27	48.27	8.0	16.5	56.77	62.15	5.38

Table 8.1-74: RF power density measurement results of a single-carrier operation for WCDMA on 5 MHz channel

Frequency, MHz	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
871.5	46.35	52.35	8.0	16.5	60.85	62.15	1.30
881.6	45.89	51.89	8.0	16.5	60.39	62.15	1.76
891.4	46.42	52.42	8.0	16.5	60.92	62.15	1.23

Table 8.1-75: RF power density measurement results of a multi-carrier operation for LTE on 1.4 MHz channel (2C)

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	46.39	52.39	8.0	16.5	60.89	62.15	1.26
2 Carriers	46.20	52.20	8.0	16.5	60.70	62.15	1.45
2 Carriers	46.23	52.23	8.0	16.5	60.73	62.15	1.42

Table 8.1-76: RF power density measurement results of a multi-carrier operation for LTE on 10 MHz channel (2C)

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	43.28	49.28	8.0	16.5	57.78	62.15	4.37
2 Carriers	43.16	49.16	8.0	16.5	57.66	62.15	4.49
2 Carriers	43.39	49.39	8.0	16.5	57.89	62.15	4.26

Table 8.1-77: RF power density measurement results of a multi-carrier operation for LTE on 1.4 MHz channel (6C)

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
6 Carriers	46.32	52.32	8.0	16.5	60.82	62.15	1.33
6 Carriers	45.98	51.98	8.0	16.5	60.48	62.15	1.67
6 Carriers	45.69	51.69	8.0	16.5	60.19	62.15	1.96

Test data, continued (ISED configuration)

Table 8.1-78: RF power density measurement results of a multi-carrier operation for LTE on 3 MHz channel (6C)

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
6 Carriers	42.92	48.92	8.0	16.5	57.42	62.15	4.73
6 Carriers	42.86	48.86	8.0	16.5	57.36	62.15	4.79
6 Carriers	42.94	48.94	8.0	16.5	57.44	62.15	4.71

Table 8.1-79: RF power density measurement results of a multi-carrier operation for NR on 5 MHz channel (2C)

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	45.80	51.80	8.0	16.5	60.30	62.15	1.85
2 Carriers	45.76	51.76	8.0	16.5	60.26	62.15	1.89
2 Carriers	45.52	51.52	8.0	16.5	60.02	62.15	2.13

Table 8.1-80: RF power density measurement results of a multi-carrier operation for NR on 10 MHz channel (2C)

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	43.33	49.33	8.0	16.5	57.83	62.15	4.32
2 Carriers	43.39	49.39	8.0	16.5	57.89	62.15	4.26
2 Carriers	43.52	49.52	8.0	16.5	58.02	62.15	4.13

Table 8.1-81: RF power density measurement results of a multi-carrier operation for NR on 5 MHz channel (5C)

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
5 Carriers	41.89	47.89	8.0	16.5	56.39	62.15	5.76

Table 8.1-82: RF power density measurement results of a multi-carrier operation for WCDMA on 5 MHz channel (2C)

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	45.59	51.59	8.0	16.5	60.09	62.15	2.06
2 Carriers	45.85	51.85	8.0	16.5	60.35	62.15	1.80
2 Carriers	45.88	51.88	8.0	16.5	60.38	62.15	1.77

Table 8.1-83: RF power density measurement results of a multi-carrier operation for WCDMA on 5 MHz channel (5C)

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
5 Carriers	42.28	48.28	8.0	16.5	56.78	62.15	5.37

Table 8.1-84: RF power density measurement results of a multi-carrier operation for LTE 1.4 MHz [2C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	43.61	49.61	8.0	16.5	58.11	62.15	4.04
2 Carriers	43.60	49.60	8.0	16.5	58.10	62.15	4.05
2 Carriers	43.71	49.71	8.0	16.5	58.21	62.15	3.94

Test data, continued (ISED configuration)

Table 8.1-85: RF power density measurement results of a multi-carrier operation for LTE 5 MHz [2C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	44.73	50.73	8.0	16.5	59.23	62.15	2.92

Table 8.1-86: RF power density measurement results of a multi-carrier operation for LTE 1.4 MHz [6C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
6 Carriers	43.58	49.58	8.0	16.5	58.08	62.15	4.07
6 Carriers	43.27	49.27	8.0	16.5	57.77	62.15	4.38
6 Carriers	43.52	49.52	8.0	16.5	58.02	62.15	4.13

Table 8.1-87: RF power density measurement results of a multi-carrier operation for NR 5 MHz [2C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	44.67	50.67	8.0	16.5	59.17	62.15	2.98

Table 8.1-88: RF power density measurement results of a multi-carrier operation for NR 5 MHz [4C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
4 Carriers	42.56	48.57	8.0	16.5	57.06	62.15	5.09

Table 8.1-89: RF power density measurement results of a multi-carrier operation for WCDMA 5 MHz [2C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	44.92	50.92	8.0	16.5	59.42	62.15	2.73

Table 8.1-90: RF power density measurement results of a multi-carrier operation for WCDMA 5 MHz [4C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
4 Carriers	42.86	48.86	8.0	16.5	57.36	62.15	4.79

Table 8.1-91: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + WCDMA 5 MHz [2C]

Notes	RF power density, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	46.95	8.0	16.5	55.5	62.15	6.70
2 Carriers	47.71	8.0	16.5	56.2	62.15	5.94
2 Carriers	46.79	8.0	16.5	55.3	62.15	6.86

Table 8.1-92: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + LTE 5 MHz with IB [2C]

Notes	RF power density, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	46.68	8.0	16.5	55.2	62.15	6.97
2 Carriers	47.60	8.0	16.5	56.1	62.15	6.05
2 Carriers	46.51	8.0	16.5	55.0	62.15	7.14

Test data, continued (ISED configuration)

Table 8.1-93: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + NR 5 MHz [2C]

Notes	RF power density, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	46.78	8.0	16.5	55.3	62.15	6.87
2 Carriers	47.58	8.0	16.5	56.1	62.15	6.07
2 Carriers	46.75	8.0	16.5	55.3	62.15	6.90

Table 8.1-94: RF power density measurement results of a multi-RAT operation for WCDMA 5 MHz + LTE 1.4 MHz [2C]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	47.15	53.15	8.0	16.5	61.65	62.15	0.50
2 Carriers	47.46	53.46	8.0	16.5	61.96	62.15	0.19
2 Carriers	46.99	52.99	8.0	16.5	61.49	62.15	0.66

Table 8.1-95: RF power density measurement results of a multi-RAT operation for WCDMA 5 MHz + NR 5 MHz [2C]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	46.01	52.01	8.0	16.5	60.51	62.15	1.64
2 Carriers	46.06	52.06	8.0	16.5	60.56	62.15	1.59
2 Carriers	45.98	51.98	8.0	16.5	60.48	62.15	1.67

Table 8.1-96: RF power density measurement results of a multi-RAT operation for IoT SA 0.4 MHz + WCDMA 5 MHz [2C]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	47.02	50.02	8.0	16.5	58.52	62.15	3.63
2 Carriers	47.57	50.57	8.0	16.5	59.07	62.15	3.08
2 Carriers	47.40	50.40	8.0	16.5	58.90	62.15	3.25

Table 8.1-97: RF power density measurement results of a multi-RAT operation for NR 5 MHz + LTE 1.4 MHz [2C]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	46.92	52.93	8.0	16.5	61.42	62.15	0.73
2 Carriers	47.00	53.00	8.0	16.5	61.50	62.15	0.65
2 Carriers	46.80	52.80	8.0	16.5	61.30	62.15	0.85

Table 8.1-98: RF power density measurement results of a multi-RAT operation for IoT SA 0.4 MHz + LTE 5 MHz [2C]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	47.50	50.50	8.0	16.5	59.00	62.15	3.15
2 Carriers	47.36	50.36	8.0	16.5	58.86	62.15	3.29
2 Carriers	47.07	50.07	8.0	16.5	58.57	62.15	3.58

Table 8.1-99: RF power density measurement results of a multi-RAT operation for IoT SA 0.4 MHz + NR 5 MHz [2C]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	47.29	50.29	8.0	16.5	58.79	62.15	3.36
2 Carriers	47.21	50.21	8.0	16.5	58.71	62.15	3.44
2 Carriers	46.92	49.92	8.0	16.5	58.42	62.15	3.73

Test data, continued (ISED configuration)

Table 8.1-100: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + LTE 5 MHz + IoT SA 0.4 MHz [3C]

Notes	RF power density, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
3 Carriers	46.96	8.0	16.5	55.5	62.15	6.69
3 Carriers	46.18	8.0	16.5	54.7	62.15	7.47
3 Carriers	45.84	8.0	16.5	54.3	62.15	7.81

Table 8.1-101: RF power density measurement results of a multi-RAT operation for WCDMA 5 MHz + LTE 1.4 MHz + IoT SA 0.4 MHz [3C]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
3 Carriers	47.50	50.50	8.0	16.5	55.97	62.15	6.18
3 Carriers	47.32	50.32	8.0	16.5	55.79	62.15	6.36
3 Carriers	46.58	49.58	8.0	16.5	55.05	62.15	7.10

Table 8.1-102: RF power density measurement results of a multi-RAT operation for NR 5 MHz + LTE 1.4 MHz + IoT SA 0.4 MHz [3C]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
3 Carriers	47.87	50.87	8.0	16.5	59.37	62.15	2.78
3 Carriers	47.19	50.19	8.0	16.5	58.69	62.15	3.46
3 Carriers	46.92	49.92	8.0	16.5	58.42	62.15	3.73

Table 8.1-103: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + LTE 1.4 MHz + NR 5 MHz [3C]

Notes	RF power density, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
3 Carriers	46.80	8.0	16.5	55.3	62.15	6.85
3 Carriers	47.52	8.0	16.5	56.0	62.15	6.13
3 Carriers	47.17	8.0	16.5	55.7	62.15	6.48

Table 8.1-104: RF power density measurement results of a multi-RAT operation for LTE 1.4 MHz + WCDMA 5 MHz + NR 5 MHz [3C]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
3 Carriers	44.47	50.47	8.0	16.5	58.97	62.15	3.18
3 Carriers	44.74	50.74	8.0	16.5	59.24	62.15	2.91
3 Carriers	44.42	50.42	8.0	16.5	58.92	62.15	3.23

Table 8.1-105: RF power density measurement results of a multi-RAT operation for 3 x GSM 0.2 MHz + 2 x LTE 5 MHz + IoT SA 0.4 MHz [6C]

Notes	RF power density, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
6 Carriers	44.78	8.0	16.5	53.3	62.15	8.87
6 Carriers	45.60	8.0	16.5	54.1	62.15	8.05
6 Carriers	45.49	8.0	16.5	54.0	62.15	8.16

Test data, continued (ISED configuration)

Table 8.1-106: RF power density measurement results of a multi-RAT operation for 2 x WCDMA 5 MHz + 3 x LTE 1.4 MHz + IoT SA 0.4 MHz [6C]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
6 Carriers	45.52	48.52	8.0	16.5	57.02	62.15	5.13
6 Carriers	45.57	48.57	8.0	16.5	57.07	62.15	5.08
6 Carriers	45.25	48.25	8.0	16.5	56.75	62.15	5.40

Table 8.1-107: RF power density measurement results of a multi-RAT operation for 2 x NR 5 MHz + 3 x LTE 1.4 MHz + IoT SA 0.4 MHz [6C]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
6 Carriers	45.67	48.67	8.0	16.5	57.17	62.15	4.98
6 Carriers	45.51	48.51	8.0	16.5	57.01	62.15	5.14
6 Carriers	45.28	48.28	8.0	16.5	56.78	62.15	5.37

Table 8.1-108: RF power density measurement results of a multi-RAT operation for 2 x GSM 0.2 MHz + 2x LTE 1.4 MHz + 2 x NR 5 MHz [6C]

Notes	RF power density, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
6 Carriers	45.88	8.0	16.5	54.4	62.15	7.77
6 Carriers	46.35	8.0	16.5	54.9	62.15	7.30
6 Carriers	46.40	8.0	16.5	54.9	62.15	7.25

Table 8.1-109: RF power density measurement results of a multi-RAT operation for 2 x LTE 1.4 MHz + 2 x WCDMA 5 MHz + 2 x NR 5 MHz [6C]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
6 Carriers	43.48	49.48	8.0	16.5	57.98	62.15	4.17
6 Carriers	43.52	49.52	8.0	16.5	58.02	62.15	4.13

Table 8.1-110: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + WCDMA 5 MHz [2C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	46.43	8.0	16.5	54.9	62.15	7.22

Table 8.1-111: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + LTE 5 MHz with IB [2C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	46.13	8.0	16.5	54.6	62.15	7.52

Table 8.1-112: RF power density measurement results of a multi-RAT operation for NR 5 MHz + GSM 0.2 MHz [2C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	46.16	8.0	16.5	54.8	62.15	7.31

Test data, continued (ISED configuration)

Table 8.1-113: RF power density measurement results of a multi-RAT operation for WCDMA 5 MHz + LTE 1.4 MHz [2C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	46.30	52.30	8.0	16.5	60.80	62.15	1.35

Table 8.1-114: RF power density measurement results of a multi-RAT operation for WCDMA 5 MHz + NR 5 MHz [2C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	44.88	50.88	8.0	16.5	59.38	62.15	2.77

Table 8.1-115: RF power density measurement results of a multi-RAT operation for WCDMA 5 MHz + IoT SA 0.4 MHz [2C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	46.01	49.01	8.0	16.5	57.51	62.15	4.64

Table 8.1-116: RF power density measurement results of a multi-RAT operation for NR 5 MHz + LTE 1.4 MHz [2C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	45.16	51.16	8.0	16.5	59.66	62.15	2.49

Table 8.1-117: RF power density measurement results of a multi-RAT operation for LTE 5 MHz + IoT SA 0.4 MHz [2C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	46.07	49.07	8.0	16.5	57.57	62.15	4.58

Table 8.1-118: RF power density measurement results of a multi-RAT operation for IoT SA 0.4 MHz + NR 5 MHz [2C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
2 Carriers	45.72	48.72	8.0	16.5	57.22	62.15	4.93

Table 8.1-119: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + IoT SA 0.4 MHz + LTE 10 MHz [3C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
3 Carriers	43.56	8.0	16.5	52.1	62.15	10.09

Table 8.1-120: RF power density measurement results of a multi-RAT operation for WCDMA 5 MHz + LTE 1.4 MHz + IoT SA 0.4 MHz [3C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
3 Carriers	43.55	46.55	8.0	16.5	55.05	62.15	7.10

Table 8.1-121: RF power density measurement results of a multi-RAT operation for NR 5 MHz + IoT SA 0.4 MHz + LTE 1.4 MHz [3C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
3 Carriers	45.23	48.23	8.0	16.5	56.73	62.15	5.42

Test data, continued (ISED configuration)

Table 8.1-122: RF power density measurement results of a multi-RAT operation for GSM 0.2 MHz + LTE 1.4 MHz + NR 5 MHz [3C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
3 Carriers	44.88	8.0	16.5	53.4	62.15	8.77

Table 8.1-123: RF power density measurement results of a multi-RAT operation for LTE 1.4 MHz + WCDMA 5 MHz + NR 5 MHz [3C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
3 Carriers	42.70	48.70	8.0	16.5	57.20	62.15	4.95

Table 8.1-124: RF power density measurement results of a multi-RAT operation for 3 x GSM 0.2 MHz + IoT SA 0.4 MHz + 2 x LTE 5 MHz [6C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
6 Carriers	43.97	8.0	16.5	51.9	62.15	10.28

Table 8.1-125: RF power density measurement results of a multi-RAT operation for 2 x WCDMA 5 MHz + 3 x LTE 1.4 MHz + IoT SA 0.4 MHz [6C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
6 Carriers	45.11	48.11	8.0	16.5	56.61	62.15	5.54

Table 8.1-126: RF power density measurement results of a multi-RAT operation for 2 x NR 5 MHz + IoT SA 0.4 MHz + 3 x LTE 1.4 MHz [6C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
6 Carriers	44.46	47.46	8.0	16.5	55.96	62.15	6.19

Table 8.1-127: RF power density measurement results of a multi-RAT operation for 2 x GSM 0.2 MHz + 2x LTE 1.4 MHz + 2 x NR 5 MHz [6C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
6 Carriers	44.21	8.0	16.5	52.7	62.15	9.44

Table 8.1-128: RF power density measurement results of a multi-RAT operation for 2 x LTE 1.4 MHz + 2 x WCDMA 5 MHz + 2 x NR 5 MHz [6C Non-contiguous]

Notes	RF power density, dBm/5 MHz	Total MIMO PSD, dBm/5 MHz	Feeder loss, dB	Antenna gain, dBi	EIRP PSD, dBm/5 MHz	EIRP limit, dBm/5 MHz	Margin, dB
6 Carriers	43.55	49.55	8.0	16.5	58.05	62.15	4.10

Test data, continued

Table 8.1-129: RF total channel power measurement results for LTE [1.4 MHz]

Remarks	RF total channel power, dBm
Low channel, QPSK	43.20
Mid channel, QPSK	43.14
Top channel, QPSK	43.11

Table 8.1-130: RF total channel power measurement results for LTE [3 MHz]

Remarks	RF total channel power, dBm
Low channel, QPSK	43.22
Mid channel, QPSK	43.17
Top channel, QPSK	43.08

Table 8.1-131: RF total channel power measurement results for LTE [5 MHz with IB]

Remarks	RF total channel power, dBm
Low channel, QPSK	46.21
Mid channel, QPSK	46.16
Top channel, QPSK	46.06

Table 8.1-132: RF total channel power measurement results for LTE [10 MHz with GB]

Remarks	RF total channel power, dBm
Low channel, QPSK	47.69
Mid channel, QPSK	47.76
Top channel, QPSK	47.52

Table 8.1-133: RF total channel power measurement results for NR [5 MHz]

Remarks	RF total channel power, dBm
Low channel, QPSK	46.27
Mid channel, QPSK	46.17
Top channel, QPSK	46.10

Table 8.1-134: RF total channel power measurement results for NR [10 MHz]

Remarks	RF total channel power, dBm
Low channel, QPSK	47.80
Mid channel, QPSK	47.85
Top channel, QPSK	47.64

Table 8.1-135: RF total channel power measurement results for NR [15 MHz]

Remarks	RF total channel power, dBm
Low channel, QPSK	47.81
Mid channel, QPSK	47.82
Top channel, QPSK	47.71

Test data, continued

Table 8.1-136: RF total channel power measurement results for NR [20 MHz]

Remarks	RF total channel power, dBm
Low channel, QPSK	47.82
Mid channel, QPSK	47.81
Top channel, QPSK	47.78

Table 8.1-137: RF total channel power measurement results for NR [25 MHz]

Remarks	RF total channel power, dBm
Mid channel, QPSK	47.74

Table 8.1-138: RF total channel power measurement results for WCDMA [5 MHz]

Remarks	RF total channel power, dBm
Low channel, QPSK	46.20
Mid channel, QPSK	46.13
Top channel, QPSK	46.06

Table 8.1-139: RF total channel power measurement results for GSM

Remarks	RF total channel power, dBm
Low channel 1 (869.2 MHz)	37.09
Low channel 2 (869.4 MHz)	43.07
Mid channel	43.00
Top channel 2 (893.6 MHz)	42.85
Top channel 1 (893.8 MHz)	36.81

Note: the configured power of a GSM "corner carrier" located at a distance of 200 kHz from the licensed band edge shall not exceed 37 dBm.

Table 8.1-140: RF total channel power measurement results for SA IoT [0.4 MHz]

Remarks	RF total channel power, dBm
Low channel, QPSK	42.81
Mid channel, QPSK	42.73
Top channel, QPSK	42.50

Table 8.1-141: RF total channel power measurement results for LTE Multi-carrier [1.4 MHz bandwidth Contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Low Channel	46.23
	Middle Channel	46.17
	Top Channel	46.09

Table 8.1-142: RF total channel power measurement results for LTE Multi-carrier [10 MHz bandwidth Contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Low Channel	47.74
	Middle Channel	47.74
	Top Channel	47.68

Test data, continued

Table 8.1-143: RF total channel power measurement results for LTE Multi-carrier [1.4 MHz bandwidth Contiguous]

Carriers	Channel	RF total channel power, dBm
6 Carriers, QPSK	Low Channel	47.71
	Middle Channel	47.78
	Top Channel	47.51

Table 8.1-144: RF total channel power measurement results for LTE Multi-carrier [3 MHz bandwidth Contiguous]

Carriers	Channel	RF total channel power, dBm
6 Carriers, QPSK	Low Channel	47.75
	Middle Channel	47.76
	Top Channel	47.69

Table 8.1-145: RF total channel power measurement results for NR Multi-carrier [5 MHz bandwidth Contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Low Channel	47.75
	Middle Channel	47.85
	Top Channel	47.62

Table 8.1-146: RF total channel power measurement results for NR Multi-carrier [10 MHz bandwidth Contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Low Channel	47.78
	Middle Channel	47.77
	Top Channel	47.74

Table 8.1-147: RF total channel power measurement results for NR Multi-carrier [5 MHz bandwidth Contiguous]

Carriers	Channel	RF total channel power, dBm
5 Carriers, QPSK	Middle Channel	47.59

Table 8.1-148: RF total channel power measurement results for WCDMA Multi-carrier [5 MHz bandwidth Contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Low Channel	47.73
	Middle Channel	47.81
	Top Channel	47.59

Table 8.1-149: RF total channel power measurement results for WCDMA Multi-carrier [5 MHz bandwidth Contiguous]

Carriers	Channel	RF total channel power, dBm
5 Carriers, QPSK	Middle Channel	47.69

Table 8.1-150: RF total channel power measurement results of multi-carrier operation for LTE 1.4 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Low Channel	46.11
	Middle Channel	46.15
	Top Channel	46.15

Test data, continued

Table 8.1-151: RF total channel power measurement results of multi-carrier operation for LTE 5 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Middle Channel	47.54

Table 8.1-152: RF total channel power measurement results of multi-carrier operation for LTE 1.4 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
6 Carriers, QPSK	Low Channel	46.90
	Middle Channel	46.95
	Top Channel	46.89

Table 8.1-153: RF total channel power measurement results of multi-carrier operation for NR 5 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Middle Channel	47.52

Table 8.1-154: RF total channel power measurement results of multi-carrier operation for NR 5 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
4 Carriers, QPSK	Middle Channel	47.45

Table 8.1-155: RF total channel power measurement results of multi-carrier operation for WCDMA [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Middle Channel	47.49

Table 8.1-156: RF total channel power measurement results of multi-carrier operation for WCDMA [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
4 Carriers, QPSK	Middle Channel	47.63

Table 8.1-157: RF total channel power measurement results of multi-RAT operation for GSM + WCDMA [Contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Low Channel	46.69
	Middle Channel	47.81
	Top Channel	46.52

Table 8.1-158: RF total channel power measurement results of multi- RAT operation for GSM + LTE 5 MHz channel with IB [Contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Low Channel	46.67
	Middle Channel	47.79
	Top Channel	46.51

Test data, continued

Table 8.1-159: RF total channel power measurement results of multi- RAT operation for GSM + NR 5 MHz channel [Contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Low Channel	46.68
	Middle Channel	47.80
	Top Channel	46.53

Table 8.1-160: RF total channel power measurement results of multi- RAT operation for LTE 1.4 MHz + WCDMA 5 MHz channel [Contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Low Channel	47.66
	Middle Channel	47.85
	Top Channel	47.45

Table 8.1-161: RF total channel power measurement results of multi- RAT operation for WCDMA 5 MHz + NR 5 MHz channel [Contiguous]

Carriers	Channel	5 MHz channel
2 Carriers, QPSK	Low Channel	47.78
	Middle Channel	47.86
	Top Channel	47.64

Table 8.1-162: RF total channel power measurement results of multi- RAT operation for IoT SA 0.4 MHz + WCDMA 5 MHz channel [Contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Low Channel	47.45
	Middle Channel	47.71
	Top Channel	47.22

Table 8.1-163: RF total channel power measurement results of multi- RAT operation for NR 5 MHz + LTE 1.4 MHz channel [Contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Low Channel	47.48
	Middle Channel	47.63
	Top Channel	47.24

Table 8.1-164: RF total channel power measurement results of multi- RAT operation for IoT SA 0.4 MHz + LTE 5 MHz channel [Contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Low Channel	47.46
	Middle Channel	47.70
	Top Channel	47.24

Table 8.1-165: RF total channel power measurement results of multi- RAT operation for IoT SA 0.4 MHz + NR 5 MHz channel [Contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Low Channel	47.49
	Middle Channel	47.73
	Top Channel	47.26

Test data, continued

Table 8.1-166: RF total channel power measurement results of multi-RAT operation for GSM 0.2 MHz + LTE 5 MHz + IoT SA 0.4 MHz channel [Contiguous]

Carriers	Channel	RF total channel power, dBm
3 Carriers, QPSK	Low Channel	47.56
	Middle Channel	47.67
	Top Channel	47.25

Table 8.1-167: RF total channel power measurement results of multi- RAT operation for WCDMA 5 MHz + LTE 1.4 MHz + IoT SA 0.4 MHz channel [Contiguous]

Carriers	Channel	RF total channel power, dBm
3 Carriers, QPSK	Low Channel	47.64
	Middle Channel	47.69
	Top Channel	47.17

Table 8.1-168: RF total channel power measurement results of multi- RAT operation for NR 5 MHz + LTE 1.4 MHz + IoT SA 0.4 MHz channel [Contiguous]

Carriers	Channel	RF total channel power, dBm
3 Carriers, QPSK	Low Channel	47.62
	Middle Channel	47.68
	Top Channel	47.19

Table 8.1-169: RF total channel power measurement results of multi- RAT operation for GSM 0.2 MHz + LTE 1.4 MHz + NR 5 MHz channel [Contiguous]

Carriers	Channel	RF total channel power, dBm
3 Carriers, QPSK	Low Channel	47.49
	Middle Channel	47.68
	Top Channel	47.44

Table 8.1-170: RF total channel power measurement results of multi- RAT operation for LTE 1.4 MHz + WCDMA 5 MHz + NR 5 MHz channel [Contiguous]

Carriers	Channel	RF total channel power, dBm
3 Carriers, QPSK	Low Channel	46.64
	Middle Channel	46.77
	Top Channel	46.64

Table 8.1-171: RF total channel power measurement results of multi-RAT operation for 3 x GSM 0.2 MHz + 2 x LTE 5 MHz + IoT SA 0.4 MHz channel [Contiguous]

Carriers	Channel	RF total channel power, dBm
6 Carriers, QPSK	Low Channel	46.53
	Middle Channel	46.74
	Top Channel	46.58

Table 8.1-172: RF total channel power measurement results of multi- RAT operation for 2 x WCDMA 5 MHz + 3 x LTE 1.4 MHz + IoT SA 0.4 MHz channel [Contiguous]

Carriers	Channel	RF total channel power, dBm
6 Carriers, QPSK	Low Channel	47.47
	Middle Channel	47.45
	Top Channel	47.17

Test data, continued

Table 8.1-173: RF total channel power measurement results of multi- RAT operation for 2 x NR 5 MHz + 3 x LTE 1.4 MHz + IoT SA 0.4 MHz channel [Contiguous]

Carriers	Channel	RF total channel power, dBm
6 Carriers, QPSK	Low Channel	47.48
	Middle Channel	47.45
	Top Channel	47.19

Table 8.1-174: RF total channel power measurement results of multi- RAT operation for 2 x GSM 0.2 MHz + 2 x LTE 1.4 MHz + 2 x NR 5 MHz channel [Contiguous]

Carriers	Channel	RF total channel power, dBm
6 Carriers, QPSK	Low Channel	47.43
	Middle Channel	47.64
	Top Channel	47.57

Table 8.1-175: RF total channel power measurement results of multi- RAT operation for 2 x LTE 1.4 MHz + 2 x WCDMA 5 MHz + 2 x NR 5 MHz channel [Contiguous]

Carriers	Channel	RF total channel power, dBm
6 Carriers, QPSK	Low Channel	47.17
	Middle Channel	N/A
	Top Channel	47.19

Table 8.1-176: RF total channel power measurement results of multi-RAT operation for GSM 0.2 MHz + WCDMA 5 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Middle Channel	46.59

Table 8.1-177: RF total channel power measurement results of multi- RAT operation for GSM 0.2 MHz + LTE 5 MHz channel with IB [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Middle Channel	46.60

Table 8.1-178: RF total channel power measurement results of multi- RAT operation for GSM 0.2 MHz + NR 5 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Middle Channel	46.72

Table 8.1-179: RF total channel power measurement results of multi- RAT operation for WCDMA 5 MHz + LTE 1.4 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Middle Channel	47.54

Table 8.1-180: RF total channel power measurement results of multi- RAT operation for WCDMA 5 MHz + NR 5 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Middle Channel	47.61

Test data, continued

Table 8.1-181: RF total channel power measurement results of multi- RAT operation for IoT SA 0.4 MHz + WCDMA 5 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Middle Channel	47.39

Table 8.1-182: RF total channel power measurement results of multi- RAT operation for NR 5 MHz + LTE 1.4 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Middle Channel	46.72

Table 8.1-183: RF total channel power measurement results of multi- RAT operation for IoT SA 0.4 MHz + LTE 5 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Middle Channel	47.36

Table 8.1-184: RF total channel power measurement results of multi- RAT operation for IoT SA 0.4 MHz + NR 5 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
2 Carriers, QPSK	Middle Channel	47.35

Table 8.1-185: RF total channel power measurement results of multi-RAT operation for GSM 0.2 MHz + LTE 5 MHz + IoT SA 0.4 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
3 Carriers, QPSK	Middle Channel	47.06

Table 8.1-186: RF total channel power measurement results of multi- RAT operation for WCDMA 5 MHz + LTE 1.4 MHz + IoT SA 0.4 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
3 Carriers, QPSK	Middle Channel	46.89

Table 8.1-187: RF total channel power measurement results of multi- RAT operation for NR 5 MHz + LTE 1.4 MHz + IoT SA 0.4 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
3 Carriers, QPSK	Middle Channel	47.07

Table 8.1-188: RF total channel power measurement results of multi- RAT operation for GSM 0.2 MHz + LTE 1.4 MHz + NR 5 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
3 Carriers, QPSK	Middle Channel	46.96

Table 8.1-189: RF total channel power measurement results of multi- RAT operation for LTE 1.4 MHz + WCDMA 5 MHz + NR 5 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
3 Carriers, QPSK	Middle Channel	46.54

Table 8.1-190: RF total channel power measurement results of multi-RAT operation for 3 x GSM 0.2 MHz + 2 x LTE 5 MHz + IoT SA 0.4 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
6 Carriers, QPSK	Middle Channel	46.47

Table 8.1-191: RF total channel power measurement results of multi-RAT operation for 2 x WCDMA 5 MHz + 3 x LTE 1.4 MHz + IoT SA 0.4 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
6 Carriers, QPSK	Middle Channel	47.33

Table 8.1-192: RF total channel power measurement results of multi-RAT operation for 2 x NR 5 MHz + 3 x LTE 1.4 MHz + IoT SA 0.4 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
6 Carriers, QPSK	Middle Channel	47.22

Table 8.1-193: RF total channel power measurement results of multi-RAT operation for 2 x GSM 0.2 MHz + 2 x LTE 1.4 MHz + 2 x NR 5 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
6 Carriers, QPSK	Middle Channel	47.40

Table 8.1-194: RF total channel power measurement results of multi-RAT operation for 2 x LTE 1.4 MHz + 2 x WCDMA 5 MHz + 2 x NR 5 MHz channel [Non-contiguous]

Carriers	Channel	RF total channel power, dBm
6 Carriers, QPSK	Middle Channel	47.10

Test data, continued



Test data, continued



Figure 8.1-7: PSD of NR 15 MHz channel bandwidth, single carrier operation, sample plot (1 MHz Resolution)

Figure 8.1-8: PSD of NR 20 MHz channel bandwidth, single carrier operation, sample plot (1 MHz Resolution)



Figure 8.1-9: PSD of NR 25 MHz channel bandwidth, single carrier operation, sample plot (1 MHz Resolution)

Figure 8.1-10: PSD of WCDMA 5 MHz channel bandwidth, single carrier operation, sample plot (1 MHz Resolution)



Test data, continued



Figure 8.1-13: PSD of LTE 1.4 MHz channel bandwidth, 6-carrier operation, sample plot (1 MHz Resolution)

Figure 8.1-14: PSD of LTE 3 MHz channel bandwidth, 6-carrier operation, sample plot (1 MHz Resolution)

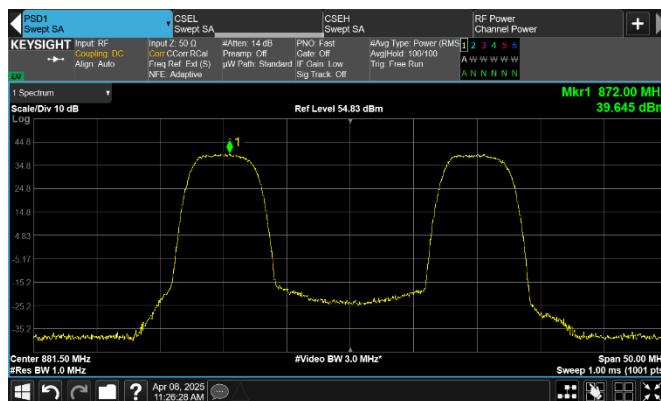
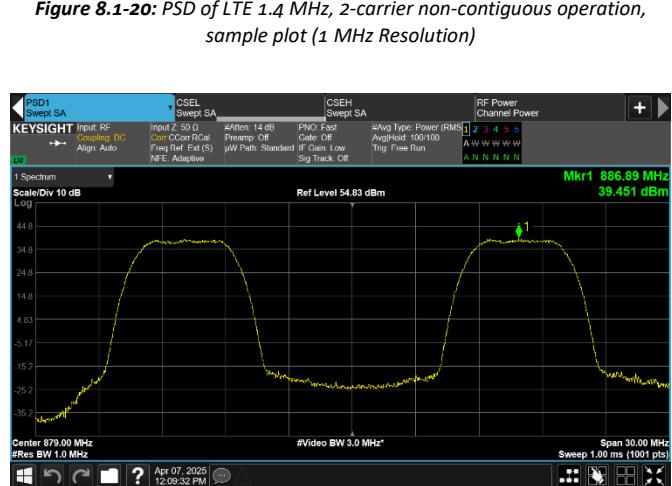
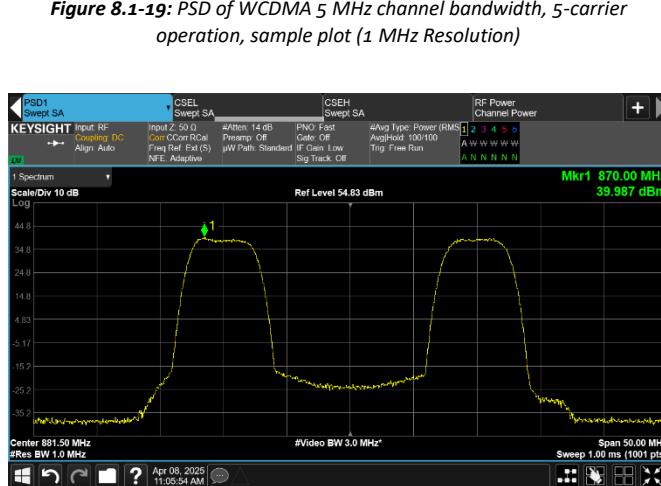
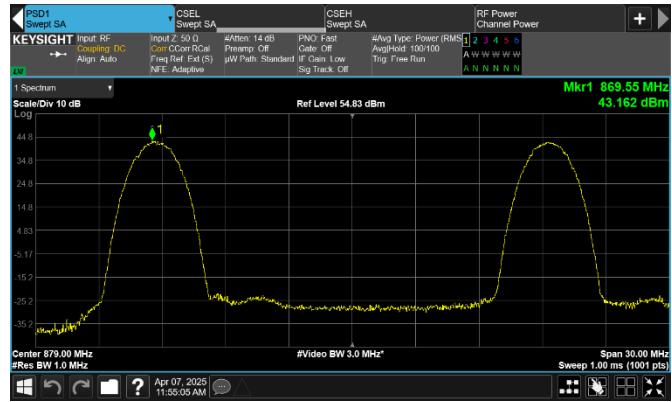


Figure 8.1-15: PSD of NR 5 MHz channel bandwidth, 2-carrier operation, sample plot (1 MHz Resolution)

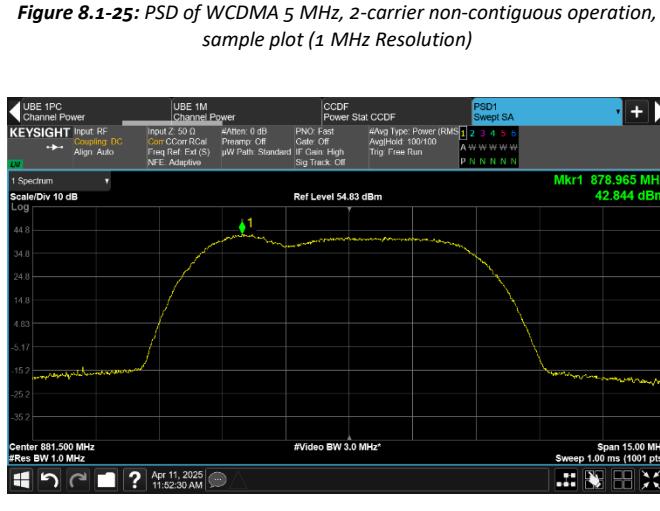
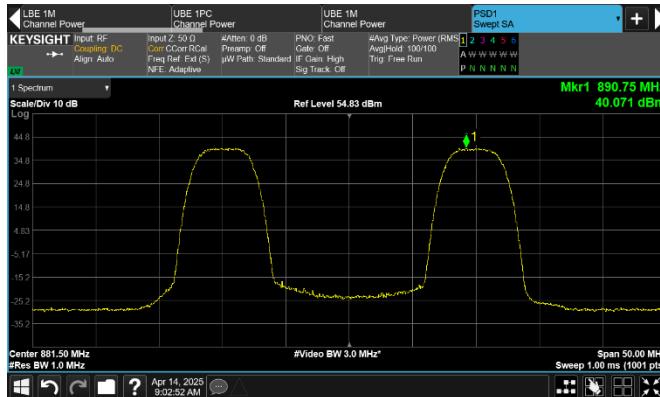
Figure 8.1-16: PSD of NR 10 MHz channel bandwidth, 2-carrier operation, sample plot (1 MHz Resolution)



Test data, continued



Test data, continued



Test data, continued



Figure 8.1-31: PSD of WCDMA 5 MHz + NR 5 MHz, 2-carrier operation, sample plot (1 MHz Resolution)



Figure 8.1-32: PSD of IoT SA 0.4 MHz + WCDMA 5 MHz, 2-carrier operation, sample plot (1 MHz Resolution)



Figure 8.1-33: PSD of NR 5 MHz + LTE 1.4 MHz, 2-carrier operation, sample plot (1 MHz Resolution)

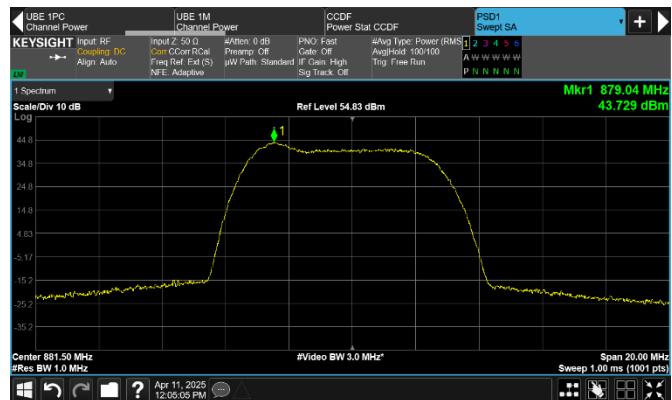


Figure 8.1-34: PSD of IoT SA 0.4 MHz + LTE 5 MHz, 2-carrier operation, sample plot (1 MHz Resolution)

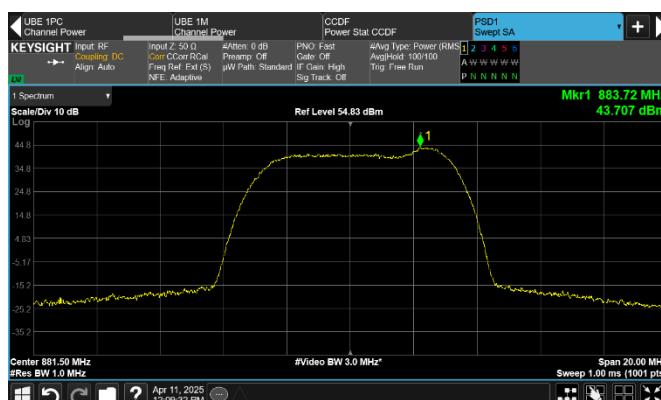


Figure 8.1-35: PSD of NR 5 MHz + IoT SA 0.4 MHz, 2-carrier operation, sample plot (1 MHz Resolution)



Figure 8.1-36: PSD of GSM 0.2 MHz + LTE 5 MHz + IoT SA 0.4 MHz, 3-carrier operation, sample plot (1 MHz Resolution)

Test data, continued

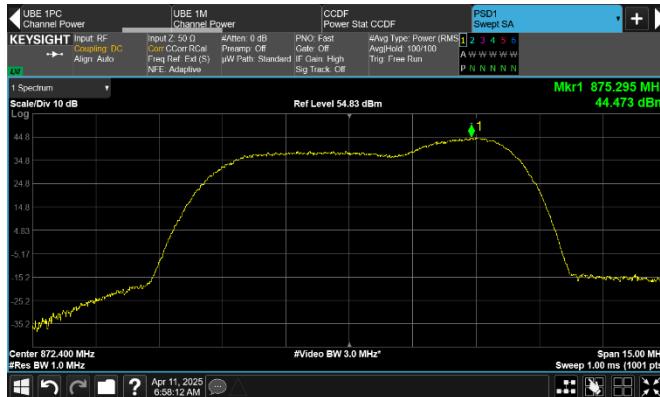


Figure 8.1-37: PSD of WCDMA 5 MHz + LTE 1.4 MHz + IoT SA 0.4 MHz, 3-carrier operation, sample plot (1 MHz Resolution)



Figure 8.1-38: PSD of NR 5 MHz + LTE 1.4 MHz + IoT SA 0.4 MHz, 3-carrier operation, sample plot (1 MHz Resolution)



Figure 8.1-39: PSD of GSM 0.2 MHz + LTE 1.4 MHz + NR 5 MHz, 3-carrier operation, sample plot (1 MHz Resolution)



Figure 8.1-40: PSD of LTE 1.4 MHz + WCDMA 5 MHz + NR 5 MHz, 3-carrier operation, sample plot (1 MHz Resolution)

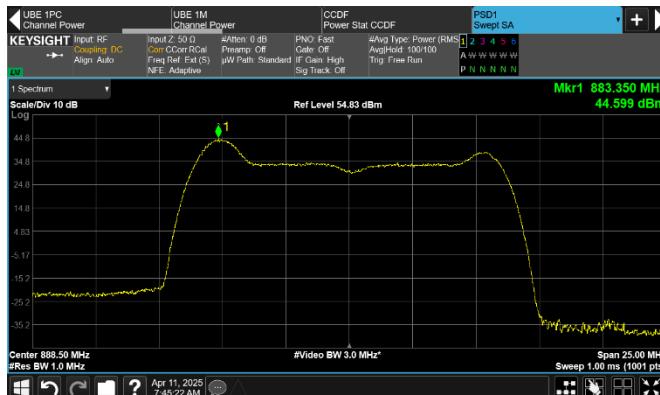


Figure 8.1-41: PSD of 3 x GSM 0.2 MHz + 2 x LTE 5 MHz + IoT SA 0.4 MHz, 6-carrier operation, sample plot (1 MHz Resolution)



Figure 8.1-42: PSD of 2 x WCDMA 5 MHz + 3 x LTE 1.4 MHz + IoT SA 0.4 MHz, 6-carrier operation, sample plot (1 MHz Resolution)

Test data, continued

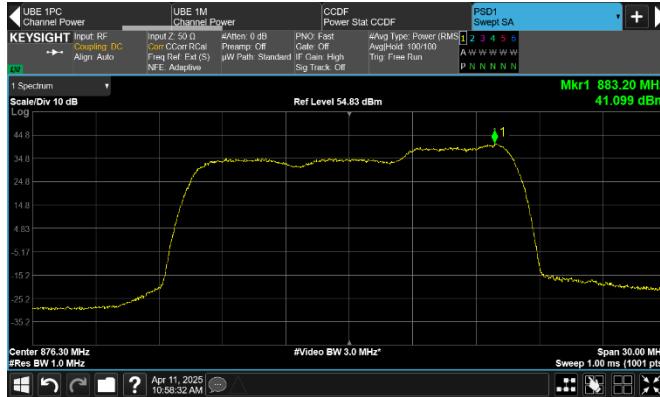


Figure 8.1-43: PSD of 2 x NR 5 MHz + 3 x LTE 1.4 MHz + IoT SA 0.4 MHz, 6-carrier operation, sample plot (1 MHz Resolution)



Figure 8.1-44: PSD of 2 x GSM 0.2 MHz + 2 x LTE 1.4 MHz + 2 x NR 5 MHz, 6-carrier operation, sample plot (1 MHz Resolution)



Figure 8.1-45: PSD of 2 x LTE 1.4 MHz + 2 x WCDMA 5 MHz + 2 x NR 5 MHz, 6-carrier operation, sample plot (1 MHz Resolution)

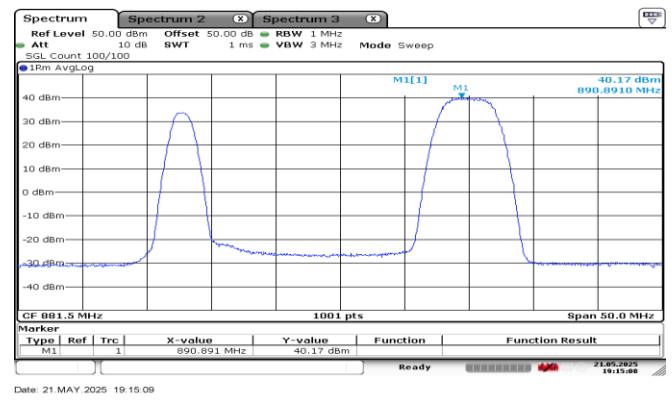


Figure 8.1-46: PSD of GSM 0.2 MHz + WCDMA 5 MHz, 2-carrier non-contiguous operation, sample plot (1 MHz Resolution)

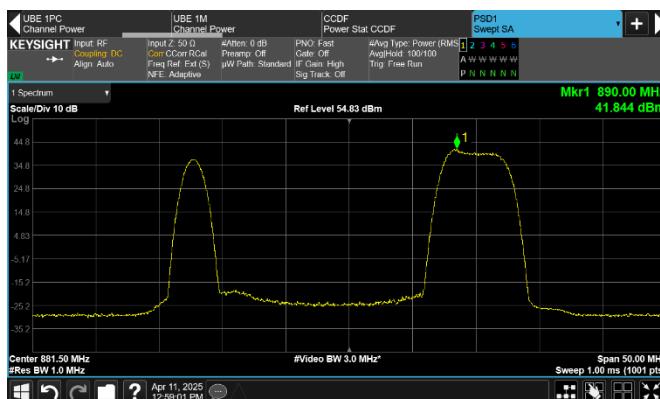


Figure 8.1-47: PSD of GSM 0.2 MHz + LTE 5 MHz with IB, 2-carrier non-contiguous operation, sample plot (1 MHz Resolution)



Figure 8.1-48: PSD of GSM 0.2 MHz + NR 5 MHz, 2-carrier non-contiguous operation, sample plot (1 MHz Resolution)

Test data, continued

