

RF EXPOSURE REPORT

CERTIFICATE OF CONFORMITY

FCC Rule Part: FCC Part 2 (Section 2.1091)

Report No.: MFBCMA-WTW-P26010290

FCC ID: UXX-FE990B40NA

Product: 5G NR Module

Brand: Ericsson

Model No.: FE990B40-NAD

Received Date: 2026/1/6

Test Date: 2026/3/23

Issued Date: 2026/4/17

Applicant: Ericsson Enterprise Wireless Solutions, Inc.

Address: 1100 W. Idaho St. Boise, ID 83702, USA

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan

FCC Registration / 788550 / TW0003

Designation Number:

Approved by:

Jeremy Lin

Date:

2026/4/17

Jeremy Lin / Project Engineer

This test report consists of 13 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The test results in the report only apply to the tested sample. The test results in this report are traceable to the national or international standards.



Prepared by : Polly Chien / Specialist

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Table of Contents

Release Control Record	3
1 Certificate.....	4
2 Applicable RF Exposure Limit	5
3 Test Results	6
4 Conclusion.....	12
5 Information of the Testing Laboratories	13

Release Control Record

Issue No.	Description	Date Issued
MFBCMA-WTW-P26010290	Original release.	2026/4/17

1 Certificate

Product: 5G NR Module

Brand: Ericsson

Test Model: FE990B40-NAD

Sample Status: Engineering sample

Applicant: Ericsson Enterprise Wireless Solutions, Inc.

Test Date: 2026/3/23

FCC Rule Part: FCC Part 2 (Section 2.1091)

Standard: KDB 447498 D04 Interim General RF Exposure Guidance v01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Applicable RF Exposure Limit

§ 1.1310 Radiofrequency radiation exposure limits.

(a) Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) of this part within the frequency range of 100 kHz to 6 GHz (inclusive).

(b) The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits.

(c) The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

(e) Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields

➤ Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	<30
1.34-30	824/f	2.19/f	(180/f ²)*	<30
30-300	27.5	0.073	0.2	<30
300-1,500	...	...	f/1500	<30
1,500-100,000	...	...	1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

➤ Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6

f = frequency in MHz. * = Plane-wave equivalent power density.

MPE-based Exemption – §1.1307(b)(3)(i)(B)

➤ For mobile devices that are not exempt per Table 1 of §1.1307(b)(1)(i)(C) and device at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power.

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

3 Test Results

Environmental Conditions:	25°C, 65% RH	Tested By:	Charles Hsiao
---------------------------	--------------	------------	---------------

Internal Ant

RF Exposure LTE

MPE-based Exemption §1.1307(b)(3)(i)(B)							
Operation Mode	Frequency Band (MHz)	Average Power (mW)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Test Result
LTE Band 2	1850-1910	185.78	4.6	326.587	20	3060	Pass
LTE Band 4	1710-1755	197.697	4.01	303.389	20	3060	Pass
LTE Band 5	824-849	213.796	1.71	193.197	20	1680.96	Pass
LTE Band 7	2500-2570	140.605	3.08	174.181	20	3060	Pass
LTE Band 12	699-716	206.538	1.59	181.552	20	1425.96	Pass
LTE Band 13	777-787	218.776	2.18	220.292	20	1585.08	Pass
LTE Band 14	788-798	195.434	2.1	193.197	20	1607.52	Pass
LTE Band 17	703-716	208.93	1.59	183.654	20	1434.12	Pass
LTE Band 25	1850-1915	185.78	4.6	326.587	20	3060	Pass
LTE Band 26	814-824	203.236	1.97	194.985	20	1660.56	Pass
LTE Band 26	824-849	206.538	1.97	198.153	20	1680.96	Pass
LTE Band 30	2305-2315	111.686	2.61	124.165	20	3060	Pass
LTE Band 38(PC2)	2570-2620	277.332	3.14	348.337	20	3060	Pass
LTE Band 41(PC2)	2500-2690	384.592	3.81	563.638	20	3060	Pass
LTE Band 42	3450-3550	115.878	5.94	277.333	20	3060	Pass
LTE Band 43	3600-3800	117.761	5.31	243.782	20	3060	Pass
LTE Band 48	3550-3700	48.417	5.68	109.143	20	3060	Pass
LTE Band 66	1710-1780	130.918	4.01	200.909	20	3060	Pass
LTE Band 71	663-698	207.97	1.65	185.353	20	1352.52	Pass

Internal NR

RF Exposure NR-SISO

MPE-based Exemption §1.1307(b)(3)(i)(B)							
Operation Mode	Frequency Band (MHz)	Average Power (mW)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Test Result
NR Band 2	1850-1910	227.51	4.36	378.443	20	3060	Pass
NR Band 5	824-849	218.776	2.41	232.274	20	1680.96	Pass
NR Band 7	2500-2570	216.272	5	416.87	20	3060	Pass
NR Band 12	699-716	213.796	1.53	185.353	20	1425.96	Pass
NR Band 13	777-787	205.116	2.12	203.704	20	1585.08	Pass
NR Band 14	788-798	218.776	2.68	247.172	20	1607.52	Pass
NR Band 25	1850-1915	232.274	4.43	392.645	20	3060	Pass
NR Band 26	824-849	233.346	2.6	258.822	20	1680.96	Pass
NR Band 26	814-824	230.144	2.6	255.27	20	1660.56	Pass
NR Band 30	2305-2315	71.285	4.9	134.276	20	3060	Pass
NR Band 38	2570-2620	222.331	4.91	419.759	20	3060	Pass
NR Band 41(PC2)	2496-2690	431.519	5	831.764	20	3060	Pass
NR Band 48	3550-3700	49.317	5.68	111.172	20	3060	Pass
NR Band 66	1710-1780	231.739	3.74	334.194	20	3060	Pass
NR Band 70	1697.5-1707.5	208.93	4.47	356.452	20	3060	Pass
NR Band 71	663-698	207.491	2.85	243.781	20	1352.52	Pass
NR Band 77(PC2)	3450-3550	209.894	5.94	502.343	20	3060	Pass
NR Band 77(PC2)	3700-3980	220.8	5.94	528.444	20	3060	Pass
NR Band 78(PC2)	3450-3550	207.014	5.94	495.45	20	3060	Pass
NR Band 78(PC2)	3900-3980	217.27	5.94	519.996	20	3060	Pass

RF Exposure NR-MIMO

MPE-based Exemption §1.1307(b)(3)(i)(B)							
Operation Mode	Frequency Band (MHz)	Average Power (mW)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Test Result
NR Band 2(PC2)	1850-1910	454.988	4.6	799.834	20	3060	Pass
NR Band 5	824-849	164.437	2.41	174.582	20	1680.96	Pass
NR Band 7	2500-2570	161.065	5	310.457	20	3060	Pass
NR Band 25(PC2)	1850-1915	379.315	4.6	666.807	20	3060	Pass
NR Band 30	2305-2315	71.285	4.9	134.276	20	3060	Pass
NR Band 38	2570-2620	163.682	4.91	309.03	20	3060	Pass
NR Band 41(PC1.5)	2496-2690	610.942	5	1177.606	20	3060	Pass
NR Band 48	3550-3700	43.451	5.68	97.949	20	3060	Pass
NR Band 66(PC2)	1710-1780	343.558	4.01	527.23	20	3060	Pass
NR Band 70	1695-1720	130.017	4.79	238.781	20	3060	Pass
NR Band 71(PC2)	663-698	445.656	2.85	523.6	20	1352.52	Pass
NR Band 77(PC1.5)	3450-3550	209.894	5.94	502.343	20	3060	Pass
NR Band 77(PC1.5)	3700-3980	220.8	5.94	528.444	20	3060	Pass
NR Band 78(PC1.5)	3450-3550	207.014	5.94	495.45	20	3060	Pass
NR Band 78(PC1.5)	3700-3800	217.27	5.94	519.996	20	3060	Pass

External LTE

RF Exposure LTE

MPE-based Exemption §1.1307(b)(3)(i)(B)							
Operation Mode	Frequency Band (MHz)	Average Power (mW)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Test Result
LTE Band 2	1850-1910	185.78	5	358.096	20	3060	Pass
LTE Band 4	1710-1755	197.697	5	381.066	20	3060	Pass
LTE Band 5	824-849	213.796	5	412.097	20	1680.96	Pass
LTE Band 7	2500-2570	140.605	5	271.02	20	3060	Pass
LTE Band 12	699-716	206.538	5	398.107	20	1425.96	Pass
LTE Band 13	777-787	218.776	5	421.696	20	1585.08	Pass
LTE Band 14	788-798	195.434	5	376.704	20	1607.52	Pass
LTE Band 17	703-716	208.93	5	402.718	20	1434.12	Pass
LTE Band 25	1850-1915	185.78	5	358.096	20	3060	Pass
LTE Band 26	814-824	203.236	5	391.742	20	1660.56	Pass
LTE Band 26	824-849	206.538	5	398.107	20	1680.96	Pass
LTE Band 30	2305-2315	76.56	5	147.571	20	3060	Pass
LTE Band 38(PC2)	2570-2620	277.332	5	534.564	20	3060	Pass
LTE Band 41(PC2)	2500-2690	384.592	5	741.311	20	3060	Pass
LTE Band 42	3450-3550	115.878	5	223.358	20	3060	Pass
LTE Band 43	3600-3800	117.761	5	226.987	20	3060	Pass
LTE Band 48	3550-3700	48.417	5	93.325	20	3060	Pass
LTE Band 66	1710-1780	130.918	5	252.348	20	3060	Pass
LTE Band 71	663-698	207.97	5	400.867	20	1352.52	Pass

External NR

RF Exposure NR-SISO

MPE-based Exemption §1.1307(b)(3)(i)(B)							
Operation Mode	Frequency Band (MHz)	Average Power (mW)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Test Result
NR Band 2	1850-1910	227.51	5	438.531	20	3060	Pass
NR Band 5	824-849	218.776	5	421.696	20	1680.96	Pass
NR Band 7	2500-2570	216.272	5	416.87	20	3060	Pass
NR Band 12	699-716	213.796	5	412.097	20	1425.96	Pass
NR Band 13	777-787	205.116	5	395.366	20	1585.08	Pass
NR Band 14	788-798	218.776	5	421.696	20	1607.52	Pass
NR Band 25	1850-1915	232.274	5	447.714	20	3060	Pass
NR Band 26	824-849	233.346	5	449.78	20	1680.96	Pass
NR Band 26	814-824	230.144	5	443.608	20	1660.56	Pass
NR Band 30	2305-2315	71.285	5	137.404	20	3060	Pass
NR Band 38	2570-2620	222.331	5	428.549	20	3060	Pass
NR Band 41(PC2)	2496-2690	431.519	5	831.764	20	3060	Pass
NR Band 48	3550-3700	49.317	5	95.06	20	3060	Pass
NR Band 66	1710-1780	231.739	5	446.683	20	3060	Pass
NR Band 70	1697.5-1707.5	208.93	5	402.718	20	3060	Pass
NR Band 71	663-698	207.491	5	399.944	20	1352.52	Pass
NR Band 77(PC2)	3450-3550	158.855	5	306.197	20	3060	Pass
NR Band 77(PC2)	3700-3980	158.489	5	305.491	20	3060	Pass
NR Band 78(PC2)	3450-3550	168.267	5	324.339	20	3060	Pass
NR Band 78(PC2)	3900-3980	164.816	5	317.687	20	3060	Pass

RF Exposure NR-MIMO

MPE-based Exemption §1.1307(b)(3)(i)(B)							
Operation Mode	Frequency Band (MHz)	Average Power (mW)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Test Result
NR Band 2(PC2)	1850-1910	454.988	5	877.001	20	3060	Pass
NR Band 5	824-849	164.437	5	316.956	20	1680.96	Pass
NR Band 7	2500-2570	161.065	5	310.457	20	3060	Pass
NR Band 25(PC2)	1850-1915	379.315	5	731.139	20	3060	Pass
NR Band 30	2305-2315	89.743	5	172.982	20	3060	Pass
NR Band 38	2570-2620	163.682	5	315.501	20	3060	Pass
NR Band 41(PC1.5)	2496-2690	610.942	5	1177.606	20	3060	Pass
NR Band 48	3550-3700	43.451	5	83.753	20	3060	Pass
NR Band 66(PC2)	1710-1780	343.558	5	662.217	20	3060	Pass
NR Band 70	1695-1720	130.017	5	250.611	20	3060	Pass
NR Band 71(PC2)	663-698	445.656	5	859.013	20	1352.52	Pass
NR Band 77(PC1.5)	3450-3550	209.894	5	404.576	20	3060	Pass
NR Band 77(PC1.5)	3700-3980	234.963	5	452.897	20	3060	Pass
NR Band 78(PC1.5)	3450-3550	244.906	5	472.062	20	3060	Pass
NR Band 78(PC1.5)	3700-3800	206.063	5	397.192	20	3060	Pass

4 Conclusion

Source-base time average power is below Exemption Criteria and/or Routine Evaluation MPE thresholds, therefore the device is compliant FCC RF exposure requirement.

5 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

--- END ---