

RF EXPOSURE REPORT

CERTIFICATE OF CONFORMITY

FCC Rule Part: FCC Part 2 (Section 2.1091)

Report No.: MFBEDW-WTW-P25030825

FCC ID: GKRRXLN3N

Product: LGA Module

Brand: COMPAL

Model No.: RXL-N3n

Received Date: 2025/3/27

Test Date: 2025/6/13 ~ 2025/7/3

Issued Date: 2025/7/23

Applicant: Compal Electronics, Inc.

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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 /

Designation Number: 788550 / TW0003

Approved by:

Jeremy Lin

Date:

2025/7/23

Jeremy Lin / Project Engineer

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Prepared by : Pettie Chen / Senior Specialist

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1 Release Control Record

Issue No.	Description	Date Issued
MFBEDW-WTW-P25030825	Original release.	2025/7/23

2 Certificate

Product: LGA Module

Brand: COMPAL

Test Model: RXL-N3n

Sample Status: Engineering sample

Applicant: Compal Electronics, Inc.

Test Date: 2025/6/13 ~ 2025/7/3

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.

3 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)(C)

- The minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. 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.
- Table applies to any RF source (i.e. single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits.

RF Source frequency (MHz)	Minimum Distance		Threshold ERP (watts)
	$\lambda_L/2\pi$	$\lambda_H/2\pi$	
0.3-1.34	159 m–35.6 m		1,920 R ² .
1.34-30	35.6 m–1.6 m		3,450 R ² /f ² .
30-300	1.6 m–159 mm		3.83 R ² .
300-1,500	159 mm–31.8 mm		0.0128 R ² f.
1,500-100,000	31.8 mm–0.5 mm		19.2 R ² .
R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters.			

4 Test Results

Environmental Conditions:	25°C, 60% RH	Tested By:	Ted Chang
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LTE 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
LTE Band 2	1850-1910	281.838	3.2	358.922	20	3060	Pass
LTE Band 4	1710-1755	281.838	3.31	368.129	20	3060	Pass
LTE Band 5	824-849	281.838	1.25	229.087	20	1682.388	Pass
LTE Band 7	2500-2570	281.838	2.88	333.426	20	3060	Pass
LTE Band 12	699-716	281.838	0.78	205.589	20	1427.388	Pass
LTE Band 13	777-787	316.228	0.91	237.684	20	1590.18	Pass
LTE Band 14	788-798	316.228	0.91	237.684	20	1612.62	Pass
LTE Band 17	703-716	281.838	0.82	207.491	20	1441.26	Pass
LTE Band 25	1850-1915	281.838	3.2	358.922	20	3060	Pass
LTE Band 26	824-849	281.838	1.25	229.087	20	1682.388	Pass
LTE Band 26	814-824	281.838	1.25	229.087	20	1661.988	Pass
LTE Band 30	2305-2315	251.189	0	153.109	20	3060	Pass
LTE Band 38	2570-2620	251.189	2.75	288.404	20	3060	Pass
LTE Band 41	2496-2690	251.189	2.75	288.404	20	3060	Pass
LTE Band 41 HPUE	2496-2690	501.187	2.75	575.44	20	3060	Pass
LTE Band 42	3400-3600	251.189	-1.5	108.393	20	3060	Pass
LTE Band 43	3600-3800	251.189	-1	121.619	20	3060	Pass
LTE Band 48	3550-3700	251.189	-1	121.619	20	3060	Pass
LTE Band 66	1710-1780	316.228	2.31	328.096	20	3060	Pass
LTE Band 71	663-698	281.838	0.53	194.088	20	1357.62	Pass

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	281.838	3.2	358.922	20	3060	Pass
NR Band 5	824-849	281.838	1.25	229.087	20	1686.06	Pass
NR Band 7	2500-2570	281.838	2.88	333.426	20	3060	Pass
NR Band 12	699-716	281.838	0.78	205.589	20	1431.06	Pass
NR Band 13	777-787	281.838	0.91	211.836	20	1590.18	Pass
NR Band 14	788-798	281.838	0.91	211.836	20	1612.62	Pass
NR Band 25	1850-1915	281.838	3.2	358.922	20	3060	Pass
NR Band 26	814-824	281.838	1.25	229.087	20	1665.66	Pass
NR Band 26	824-849	281.838	1.25	229.087	20	1686.06	Pass
NR Band 30	2305-2315	251.189	0	153.109	20	3060	Pass
NR Band 38	2570-2620	251.189	2.75	288.404	20	3060	Pass
NR Band 41	2496-2690	251.189	2.75	288.404	20	3060	Pass
NR Band 41 PC2	2496-2690	562.341	2.75	645.654	20	3060	Pass
NR Band 48	3550-3700	251.189	-1	121.619	20	3060	Pass
NR Band 66	1710-1780	281.838	2.31	292.415	20	3060	Pass
NR Band 70	1695-1710	281.838	2.31	292.415	20	3060	Pass
NR Band 71	663-698	281.838	0.53	194.088	20	1357.62	Pass
NR Band 77	3450-3550	281.838	-1	136.458	20	3060	Pass
NR Band 77	3700-3900	251.189	-1	121.619	20	3060	Pass
NR Band 77 PC2	3450-3550	562.341	-1	272.27	20	3060	Pass
NR Band 77 PC2	3700-3900	501.187	-1	242.661	20	3060	Pass
NR Band 78	3450-3550	281.838	-1	136.458	20	3060	Pass
NR Band 78 PC2	3450-3550	562.341	-1	272.27	20	3060	Pass

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	562.341	3.2	716.143	20	3060	Pass
NR Band 7 PC2	2500-2570	501.187	2.88	592.925	20	3060	Pass
NR Band 25 PC2	1850-1915	562.341	3.2	716.143	20	3060	Pass
NR Band 30	2305-2315	251.189	0	153.109	20	3060	Pass
NR Band 38	2570-2620	281.838	2.75	323.593	20	3060	Pass
NR Band 41 PC1.5	2496-2690	1122.018	2.75	1288.249	20	3060	Pass
NR Band 48	2550-3700	251.189	-1	121.619	20	3060	Pass
NR Band 66 PC2	1710-1780	562.341	2.31	583.445	20	3060	Pass
NR Band 70 PC2	1695-1710	562.341	2.31	583.445	20	3060	Pass
NR Band 77 PC2	3450-3550	1122.018	-1	543.25	20	3060	Pass
NR Band 77 PC2	3700-3900	1122.018	-1	543.25	20	3060	Pass
NR Band 78 PC2	3450-3550	1122.018	-1	543.25	20	3060	Pass

Mode		Average Power (dBm)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Co-located Ratio<1	Test Result
ENDC 5G NR n2		24.5	3.2	358.922	20	3060	-	Pass
ENDC n2	LTE Band 4	24.5	3.31	368.129	20	3060	0.237	Pass
	LTE Band 5	24.5	0.78	229.087	20	1682.388	0.253	Pass
	LTE Band 7	24.5	2.88	229.087	20	3060	0.226	Pass
	LTE Band 12	24.5	0.78	205.589	20	1424.388	0.261	Pass
	LTE Band 13	25	0.91	237.684	20	1590.18	0.266	Pass
	LTE Band 14	25	0.91	237.684	20	1612.62	0.264	Pass
	LTE Band 30	24	0	153.109	20	3060	0.167	Pass
	LTE Band 48	24	-1	121.619	20	3060	0.157	Pass
	LTE Band 66	25	2.3	194.088	20	1357.62	0.224	Pass
	LTE Band 71	24.5	0.53	358.922	20	3060	0.260	Pass
ENDC 5G NR n5		24.5	3.2	358.922	20	1686.06	-	Pass
ENDC n5	LTE Band 2	24.5	3.2	358.922	20	3060	0.330	Pass
	LTE Band 4	24.5	3.31	368.129	20	3060	0.333	Pass
	LTE Band 7	24.5	2.88	333.426	20	3060	0.322	Pass
	LTE Band 12	24.5	0.78	205.589	20	1427.388	0.357	Pass
	LTE Band 14	25	0.91	237.684	20	1612.62	0.360	Pass
	LTE Band 30	24	0	153.109	20	3060	0.263	Pass
	LTE Band 48	24	-1	121.619	20	3060	0.263	Pass
	LTE Band 66	25	2.31	328.096	20	3060	0.320	Pass
	LTE Band 71	24.5	0.53	194.088	20	1357.62	0.356	Pass
ENDC 5G NR n7		24.5	2.88	333.426	20	3060	-	Pass
ENDC n7	LTE Band 2	24.5	3.2	358.922	20	3060	0.226	Pass
	LTE Band 4	24.5	3.31	368.129	20	3060	0.229	Pass
	LTE Band 5	24.5	1.23	229.087	20	1682.388	0.245	Pass
	LTE Band 12	24.5	0.78	205.589	20	1427.388	0.253	Pass
	LTE Band 13	25	0.91	237.684	20	1590.18	0.258	Pass
	LTE Band 66	25	2.31	328.096	20	3060	0.216	Pass
	LTE Band 71	24.5	0.53	194.088	20	1357.62	0.252	Pass

Mode		Average Power (dBm)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Co-located Ratio<1	Test Result
ENDC 5G NR n12		24.5	0.78	205.589	20	1431.06	-	Pass
ENDC n12	LTE Band 2	24.5	3.2	358.922	20	3060	0.261	Pass
	LTE Band 4	24.5	3.31	368.129	20	3060	0.264	Pass
	LTE Band 5	24.5	1.25	229.087	20	1682.388	0.280	Pass
	LTE Band 12	24.5	0.78	205.589	20	1427.388	0.288	Pass
	LTE Band 48	24	-1	121.619	20	3060	0.184	Pass
	LTE Band 66	25	2.31	328.096	20	3060	0.251	Pass
	LTE Band 71	24.5	0.53	194.088	20	1357.62	0.287	Pass
ENDC 5G NR n14		24.5	0.91	211.836	20	1612.62	-	Pass
ENDC n14	LTE Band 2	24.5	3.2	358.922	20	3060	0.248	Pass
	LTE Band 30	24.5	-1	136.458	20	3060	0.176	Pass
	LTE Band 66	25	2.31	328.096	20	3060	0.238	Pass
ENDC 5G NR n25		24.5	3.2	358.922	20	3060	-	Pass
ENDC n25	LTE Band 5	24.5	1.25	229.087	20	1682.388	0.253	Pass
	LTE Band 7	24.5	2.88	333.426	20	3060	0.226	Pass
	LTE Band 12	24.5	0.78	205.589	20	1427.388	0.261	Pass
	LTE Band 13	25	0.91	237.684	20	1590.18	0.266	Pass
	LTE Band 26	24.5	1.25	229.087	20	1682.388	0.253	Pass
	LTE Band 66	25.	2.31	328.096	20	3060	0.224	Pass
	LTE Band 71	24.5	0.53	194.088	20	1357.62	0.260	Pass
ENDC 5G NR n26		24.5	1.25	229.087	20	1686.06	-	Pass
ENDC n26	LTE Band 7	24.5	2.88	333.426	20	3060	0.245	Pass
ENDC 5G NR n30		24	0	153.109	20	3060	-	Pass
ENDC n30	LTE Band 2	24.5	3.2	358.922	20	3060	0.167	Pass
	LTE Band 5	24.5	1.25	229.087	20	1682.388	0.186	Pass
	LTE Band 12	24.5	0.78	205.589	20	1427.388	0.195	Pass
	LTE Band 14	25	0.91	237.684	20	1612.62	0.197	Pass
	LTE Band 66	25	2.31	328.096	20	3060	0.157	Pass

Mode		Average Power (dBm)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Co-located Ratio<1	Test Result
ENDC 5G NR n38		24	2.75	288.404	20	3060	-	Pass
ENDC n38	LTE Band 2	24.5	3.2	358.922	20	3060	0.211	Pass
	LTE Band 4	24.5	3.31	368.129	20	3060	0.214	Pass
	LTE Band 5	24.5	1.25	229.087	20	1682.388	0.230	Pass
	LTE Band 12	24.5	0.78	205.589	20	1427.388	0.238	Pass
	LTE Band 66	25	2.31	328.096	20	3060	0.201	Pass
	LTE Band 71	24.5	0.53	194.088	20	1357.62	0.237	Pass
ENDC 5G NR n41		27.5	2.75	645.654	20	3060	-	Pass
ENDC n41	LTE Band 2	24.5	3.2	358.922	20	3060	0.328	Pass
	LTE Band 4	24.5	3.31	368.129	20	3060	0.331	Pass
	LTE Band 5	24.5	1.25	229.087	20	1682.388	0.347	Pass
	LTE Band 12	24.5	0.78	205.589	20	1427.388	0.355	Pass
	LTE Band 25	24.5	3.2	358.922	20	3060	0.328	Pass
	LTE Band 26	24.5	1.25	229.087	20	1682.388	0.347	Pass
	LTE Band 66	25	2.31	328.096	20	3060	0.318	Pass
	LTE Band 71	24.5	0.53	194.088	20	1357.62	0.354	Pass
ENDC 5G NR n48		24	-1	121.619	20	3060	-	Pass
ENDC n48	LTE Band 7	24.5	2.88	333.426	20	3060	0.149	Pass
ENDC 5G NR n66		24.5	2.31	292.415	20	3060	-	Pass
ENDC n66	LTE Band 2	24.5	3.31	368.129	20	3060	0.216	Pass
	LTE Band 5	24.5	1.25	229.087	20	1682.388	0.231	Pass
	LTE Band 7	24.5	2.88	333.426	20	3060	0.205	Pass
	LTE Band 12	24.5	0.78	205.589	20	1427.388	0.240	Pass
	LTE Band 13	25	0.91	237.684	20	1590.18	0.245	Pass
	LTE Band 14	25	0.91	237.684	20	1612.62	0.243	Pass
	LTE Band 30	24	0	153.109	20	3060	0.148	Pass
	LTE Band 48	24	-1	121.619	20	3060	0.138	Pass
	LTE Band 71	24.5	0.53	194.088	20	1357.62	0.239	Pass

Mode		Average Power (dBm)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Co-located Ratio<1	Test Result
ENDC 5G NR n71		24.5	0.53	194.088	20	1357.62	-	Pass
ENDC n71	LTE Band 2	24.5	3.31	368.129	20	3060	0.263	Pass
	LTE Band 5	24.5	1.25	229.087	20	1682.388	0.279	Pass
	LTE Band 7	24.5	2.88	333.426	20	3060	0.252	Pass
	LTE Band 12	24.5	0.78	205.589	20	1427.388	0.287	Pass
	LTE Band 13	25	0.91	237.684	20	1590.18	0.292	Pass
	LTE Band 48	24	-1	153.109	20	3060	0.193	Pass
	LTE Band 66	25	2.31	328.096	20	3060	0.250	Pass
ENDC 5G NR n77 PC2		27.1	-1	272.27	20	3060	-	Pass
ENDC n77 PC2	LTE Band 2	24.5	3.31	368.129	20	3060	0.209	Pass
	LTE Band 5	24.5	1.25	229.087	20	1682.388	0.225	Pass
	LTE Band 12	24.5	0.78	205.589	20	1427.388	0.233	Pass
	LTE Band 13	25	0.91	237.684	20	1590.18	0.238	Pass
	LTE Band 14	25	0.91	237.684	20	1612.62	0.236	Pass
	LTE Band 30	24	0	153.109	20	3060	0.139	Pass
	LTE Band 41 HPUE	27	2.75	575.44	20	3060	0.277	Pass
	LTE Band 66	25	2.31	328.096	20	3060	0.196	Pass
ENDC 5G NR n78 PC2		27.5	-1	272.27	20	3060	-	Pass
ENDC n78 PC2	LTE Band 2	24.5	3.31	368.129	20	3060	0.209	Pass
	LTE Band 5	24.5	1.25	229.087	20	1682.388	0.225	Pass
	LTE Band 7	24.5	2.88	333.426	20	3060	0.198	Pass
	LTE Band 13	25	0.91	237.684	20	1590.18	0.238	Pass
	LTE Band 66	25	2.31	328.096	20	3060	0.196	Pass
	LTE Band 71	24.5	0.53	194.088	20	1357.62	0.232	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

5 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.

6 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:

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

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