



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR230900172502

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1 Cover Page

RF MPE REPORT

Application No.: KSCR2309001725AT
FCC ID: 2BD4BK017288
Applicant: PROSE Technologies, LLC
Address of Applicant: 550 Clark Drive, Mount Olive, NJ 07828
Manufacturer: PROSE Technologies, LLC
Address of Manufacturer: 550 Clark Drive, Mount Olive, NJ 07828
Factory: 1.PROSE Technologies, LLC
2.PROSE Technologies (Suzhou) Co., Ltd.
3.PROSE Technologies India Pvt. Ltd.
1.550 Clark Drive, Mount Olive, NJ 07828
Address of Factory: 2.No. 6, Shen'an Road, Dianshanhu, Kunshan, Jiangsu, China
3.Block A, Horizon Industrial Park, Off MIDC Phase II, Chakan,Pune-410501,India
Equipment Under Test (EUT):
EUT Name: LPA Unit
Model No.: LPA2-46-N41N41-64F-10, LPA2-46-N41N41-64F-XX ♣
♣ Please refer to page 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark: PROSE
Standard(s) : FCC Rules 47 CFR §2.1091
KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt: 2023-09-25
Date of Test: 2023-12-15 to 2024-01-10
Date of Issue: 2024-04-15

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

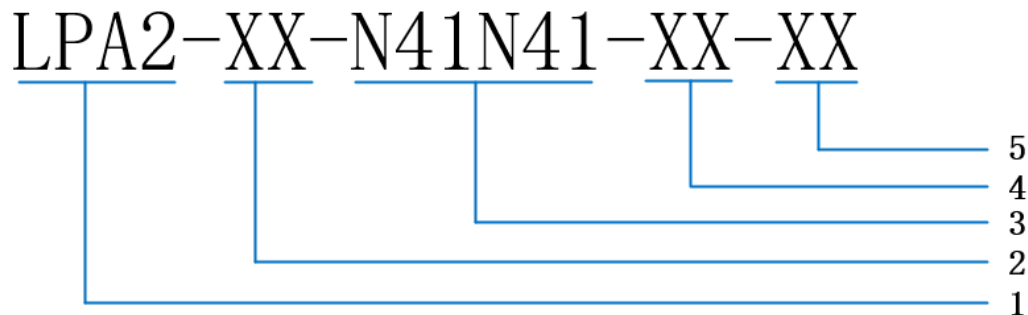
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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Member of the SGS Group (SGS SA)

Model differences:



1. LPA2: blade LPA unit, second generation.
2. XX: transmission power level, unit dBm; The value ranges from 30 to 46.
3. N41N41: represents 3GPP operating band, the LPA unit contain double N41;
4. XX: represents the ANT port connector type; example, 64F, NF, etc.
5. XX: represents customer code, example, 01HW, 10, 11NA. etc.

*Except that the power level, connector type and customer code deviation, are identical with the original product as follows: the same appearance and same EMC and safety characteristics.

Declaration of EUT Family Grouping:

There are series models mentioned in this report and they are the Identical in electrical and electronic characters. Only the model LPA2-46-N41N41-64F-10 was tested since their differences were the model number and appearance.





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Revision Record			
Version	Description	Date	Remark
00	Original	2024-04-15	/

Authorized for issue by:			
Tested By			
		Cloud Peng/Project Engineer	
Approved By			
		Terry Hou /Reviewer	



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3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 28V
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3.2 Technical Specifications

Frequency Band:	5GNR N41:2496MHz to 2690MHz
Antenna Type:	External antenna
Antenna Gain:	13.0 dBi for 2496MHz to 2690MHz (Provided by manufacturer)
Modulation Type:	5G NR: CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM LTE: QPSK, 16QAM, 64QAM, 256QAM
MIMO:	2*2 MIMO
Temperature Range:	-40°C to 55°C

Note: The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.

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3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

- **VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

According to§1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging 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
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR230900172501

5.2 MPE Calculation

According to the formula $S = P \cdot G / 4\pi R^2$, we can calculate S which is MPE.

Note:

1) P (mW)

2) R = distance to the center of radiation of antenna (in centimeter)

Test Mode	Frequency Band (MHz)	Max E.I.R.P	Turn up E.I.R.P	Operation Distance	Power Density	Limit of Power Density	Result
		(dBm)	(dBm)		(mW/cm ²)	S(mW/cm ²)	
5G NR	2496 ~ 2690	62.65	63.00	400	0.992	1	Pass

According to the KDB447498 section 7.2 determine the device is exclusion from SAR test.

--End of the Report--