



## Compliance Certification Services (Kunshan) Inc.

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

Report No.: KSCR230900172102

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### 1 Cover Page

# RF MPE REPORT

**Application No.:** KSCR2309001721AT  
**FCC ID:** 2BD4BK020067  
**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.:** LPA2-43-B121314-64F-10, LPA2-XX-B121314-XX-XX  
**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:** 2023-10-15 to 2023-12-31  
**Date of Issue:** 2024-01-02

<b>Test Result:</b>	<b>Pass*</b>
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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.

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Revision Record			
Version	Description	Date	Remark
00	Original	2024-01-02	/

Authorized for issue by:			
Tested By		<i>cloudpeng</i>	
		Cloud_Peng/Project Engineer	
Approved By		<i>Terry Hou</i>	
		Terry Hou /Reviewer	



**Compliance Certification Services (Kunshan) Inc.**

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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:	Booster: 729MHz-746MHz, 746MHz-756MHz, 758MHz-768MHz
Antenna Type:	External
Antenna Gain:	15 dBi for 729MHz to 746MHz (Provided by manufacturer) 15 dBi for 746MHz to 756MHz (Provided by manufacturer) 15 dBi for 758MHz to 768MHz (Provided by manufacturer)
Modulation Type:	LTE: QPSK, 16QAM, 64QAM, 256QAM
MIMO:	SISO
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.

## 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 <sup>2</sup> )	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 <sup>2</sup> )	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 KSCR230900172101

### 5.2 MPE Calculation

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

Note:

1) P (mW)

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

3) MPE limit = 1mW/cm<sup>2</sup>

Test Mode	Frequency Band (MHz)	Max E.I.R.P (dBm)	Operation Distance R(cm)	Power Density (mW/cm <sup>2</sup> )	Limit of Power Density (mW/cm <sup>2</sup> )	Result
LTE	729 ~ 746	59	510	0.2430	0.485	Pass
LTE	746 ~ 756	59	510	0.2430	0.497	Pass
LTE	758~ 768	39	510	0.0024	0.505	Pass

#### Simultaneous transmission For Booster:

Wireless Configure	Max E.I.R.P (dBm)	Power Density (mW/cm <sup>2</sup> )	Limit of Power Density (mW/cm <sup>2</sup> )	Rate	Limit
729 ~ 746	59	0.2430	0.485	0.994	1
746 ~ 756	59	0.2430	0.497		
758~ 768	39	0.0024	0.505		

--End of the Report--