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RF MPE REPORT

Application No.:	KSCR2309001723AT
FCC ID:	2BD4BK017803
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.
Address of Factory:	1.550 Clark Drive, Mount Olive, NJ 07828 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-B25B66-64F-10, LPA2-XX-B25B66-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 2024-03-18
Date of Issue:	2024-03-20
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

Revision Record			
Version	**Description**	**Date**	**Remark**
00	Original	2024-03-20	/

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

2 Contents

3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 28V

3.2 Technical Specifications

Frequency Band:	LTE Band 25:1930MHz to 1995MHz LTE Band 66:2110MHz to 2200MHz
Antenna Type:	External antenna
Antenna Gain:	15 dBi for 1930MHz to 1995MHz (Provided by manufacturer) 15 dBi for 2110MHz to 2200MHz (Provided by manufacturer)
Modulation Type:	LTE: QPSK, 16QAM, 64QAM, 256QAM
MIMO:	SISO
Temperature Range:	-40℃ to 55℃

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.

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^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/f2)	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 KSCR230900172301

5.2 MPE Calculation

According to the formula $S=P*G/4\pi R^2$, 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	Ratio (Power Density/Limit)	Result
		(dBm)	(dBm)	R(cm)	(mW/cm2)	S(mW/cm2)		
LTE band 25	1930-1995	58.55	59.00	356	0.4988	1	0.4988	Pass
LTE band 66	2110-2200	58.69	59.00	356	0.4988	1	0.4988	Pass

Simultaneous transmission:

Test Mode	Wireless Configure	Tune Up EIRP (dBm)	Power Density S at R = 356 cm (mW/cm2)	Limit of Power Density S(mW/cm2)	Ratio (Power Density/Limit)	Limit
LTE	1930-1995	59.00	0.4988	1	0.9976	1
LTE	2110-2200	59.00	0.4988	1		

Note：
(1) The EUT can support four band simultaneous transmitted.

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

--End of the Report--