FCC RF EXPOSURE REPORT

For

LTE MODULE

MODEL NUMBER: EG25-G

FCC ID: 2A46G-EG25-G

REPORT NUMBER: 4790792905-2-RF-3

ISSUE DATE: May 8, 2023

Prepared for

Guangzhou Xaircraft Technology CO., LTD

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	05/08/2023	Initial Issue	\

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	Guangzhou Xaircraft Technology CO., LTD
Address:	Block C, No.115, Gaopu Road, Tianhe District, GuangzhouCity, Guangdong, P.R.China

Manufacturer Information

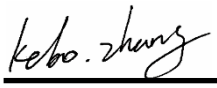
Company Name:	Guangzhou Xaircraft Technology CO., LTD
Address:	Block C, No.115, Gaopu Road, Tianhe District, GuangzhouCity, Guangdong, P.R.China

EUT Information

EUT Name:	LTE MODULE
Model:	EG25-G
Sample Received Date:	April 5, 2023
Sample Status:	Normal
Sample ID:	5938560
Date of Tested:	April 5, 2023~ May 5, 2023

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC 47CFR§2.1091	PASS
KDB-447498 D01 V06	PASS

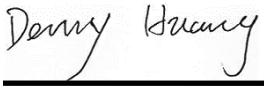
Prepared By:



Kebo Zhang

Senior Project Engineer

Checked By:



Denny Huang

Senior Project Engineer

Approved By:

Stephen Guo

Operations Manager

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 and KDB 447498 D01 General RF Exposure Guidance v06.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1187)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules **ISED (Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. **VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.

4. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (Minutes)
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

CALCULATION METHOD

$S=PG/4\pi R^2$

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

(Worst case)				
Operating Mode	Max. Tune up Power (dBm)	Max. Antenna Gain (dBi)	Power density (mW/cm^2)	Limit
GSM850	32	1.2	0.41564	0.56
GSM1900	30	2.7	0.37045	1
WCDMA B2	22	2.7	0.05871	1
WCDMA B4	23	2.8	0.07564	1

(Worst case)				
Operating Mode	Max. Tune up Power (dBm)	Max. Directional Antenna Gain (dBi)	Power density (mW/cm^2)	Limit
LTE Band 2	22.5	2.7	0.06581	1
LTE Band 4	23.2	2.8	0.07939	1
LTE Band 5	24	1.2	0.06596	0.55
LTE Band 7	23	2.7	0.07391	1
LTE Band 25	23.5	2.7	0.08293	1
LTE Band 26	24	1.2	0.06588	0.54
LTE Band 38	22	2.7	0.05871	1
LTE Band 41	23	2.7	0.07391	1

1. The calculated distance is 20 cm.
2. The worst case power/antenna gain combination was used to demonstrate compliance for each technology (GSM, WCDMA, LTE, NR, choose the applicable ones) bands.

END OF REPORT