FCC RF EXPOSURE REPORT

FCC ID: 2A25M-PRE31G

Project No.	:	2108C220
Equipment	:	Pre-install 3.1G
Brand Name	:	Clobotics
Test Model	:	Sloth pre3.1G
Series Model	:	N/A
Applicant	:	SHANGHAI CLOBOTICS TECHNOLOGY CO., LTD
Address	:	555 DongChuan Rd., Building 5, Rm 102A,Minhang Distr., Shanghai, China
Manufacturer	:	SHANGHAI CLOBOTICS TECHNOLOGY CO., LTD
Address	:	555 DongChuan Rd., Building 5, Rm 102A,Minhang Distr., Shanghai, China
Factory	:	Shenzhen Changkeshun Technology Co.,Ltd
Address	:	Fl.3-4,Bldg.k,Jinchangda Tech Park,Guanlan St.,Longhua Dist., Shenzhen,China
Date of Receipt	:	Sep. 01, 2021
Date of Test	:	Sep. 10, 2021 ~ Oct. 26, 2021
Issued Date	:	Oct. 26, 2021
Report Version	:	R01
Test Sample	:	Engineering Sample No.: DG2021090932 for WIFI, DG2021090933 for LTE.
Standard(s)	:	FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091 FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Gabriel Zhu

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Steven Lu

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ACCREDITED

TESTING CERT #5123.02

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue	Oct. 18, 2021
R01	Modified the comments of TCB.	Oct. 26, 2021

1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong, People's Republic of China.
BTL's Test Firm Registration Number for FCC: 357015
BTL's Designation Number for FCC: CN1240

2. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:
S = power density
P = power input to the 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

Table for Filed Antenna:

For 2.4G:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	FPC	N/A	4.72

Note: The antenna gain is provided by the manufacturer.

For LTE:

Brand	P/N	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	FPC	N/A	1.86	LTE Band 4
N/A	N/A	FPC	N/A	-1.29	LTE Band 5
N/A	N/A	FPC	N/A	4.94	LTE Band 7
N/A	N/A	FPC	N/A	-0.85	LTE Band 12
N/A	N/A	FPC	N/A	2.85	LTE Band 25
N/A	N/A	FPC	N/A	4.75	LTE Band 38
N/A	N/A	FPC	N/A	4.94	LTE Band 41

Note: The antenna gain is provided by the manufacturer.

3. TEST RESULTS

For 2.4G:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
4.72	2.9648	21.61	144.8772	0.0855	1	Complies

For LTE:

Band	Frequency (MHz)	Max. Output Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
Band 4	1715	21.93	1.86	1.53	239.33	0.0476	1.0000	Complies
Band 5	836.5	22.31	-1.29	0.74	126.47	0.0252	0.5577	Complies
Band 7	2567.5	22.82	4.94	3.12	597.04	0.1188	1.0000	Complies
Band 12	704	23.01	-0.85	0.82	164.44	0.0327	0.4693	Complies
Band 25	1910	22.93	2.85	1.93	378.44	0.0753	1.0000	Complies
Band 38	2595	23.44	4.75	2.99	659.17	0.1311	1.0000	Complies
Band 41	2680	23.38	4.94	3.12	679.20	0.1351	1.0000	Complies

For the max simultaneous transmission MPE:

Ratio		Total	Limit of Ratio	Test Result
2.4G	LTE			
0.0855	0.1351	0.2206	1	Complies

Note: The calculated distance is 20 cm.

End of Test Report