FCC RF Exposure Report

FCC ID: 2AY6XSF-0102

Report No.	:	BTL-FCCP-2-2201T072
Equipment	:	EGLTEC 2-Port UHF RFID Reader- Fixed
Model Name	:	SF-0102
Brand Name	:	EGLTEC
Applicant	:	EGLTEC Intelligent Technology Co., Ltd.
Address	:	No. 110, Ziyou Rd., Shanhua Dist, Tainan City, Taiwan
FCC Rule Part(s)	:	FCC CFR Title 47, Part 2 (2.1091)
		FCC Guidelines for Human Exposure IEEE C95.1
Date of Receipt	:	2022/1/19
Date of Test	:	2022/1/19 ~ 2022/3/10
Issued Date	:	2022/3/16

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

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Approved by : _Jerry Chuang_

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2201T072	R00	Original Report.	2022/3/1	Invalid
BTL-FCCP-2-2201T072	R01	Revised report to address TCB's comments.	2022/3/16	Valid

1. 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

Ant.	Brand	Model Name	Type	Connector	Gain (dBi)
1	Guangqi Technology Co., Ltd.	A1050C	PCB	SMA	3
2	Guangqi Technology Co., Ltd.	A1050C	PCB	SMA	3

Note: The antenna is the support unit for the test, which is not attached with the goods.

2. MAXIMUM RF OUTPUT POWER

Mode	Maximum Output Power (dBm)
TX _ Ant 1	25
TX _ Ant 2	25

3. TEST RESULTS

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
3.0	1.9953	25.00	316.2278	0.12559	1	Complies

Note: The calculated distance is 20 cm.

End of Test Report