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RF Exposure Evaluation Report

Report No.: CQASZ20250300711E-02
Applicant: Shenzhen PioCreat 3d Technology Co., Ltd.
Address of Applicant: 3rd Floor, Building 1, No. 156 Huawang Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: Auto Feed Unit
Test Model No.: AFU
Model No.: AFU
Brand Name: N/A
FCC ID: 2A2DOAFU
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
447498 D04 Interim General RF Exposure Guidance v01
Date of Receipt: 2025-3-31
Date of Test: 2025-3-31 to 2025-5-15
Date of Issue: 2025-5-30
Test Result: PASS*

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

Tested By:

Lewis Zhou

(Lewis Zhou)

Reviewed By:

Timo Lei

(Timo Lei)

Approved By:

Jack Ai

(Jack Ai)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250300711E-02	Rev.01	Initial report	2025-5-30

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3 General Information

3.1 Client Information

Applicant:	Shenzhen PioCreat 3d Technology Co., Ltd.
Address of Applicant:	3rd Floor, Building 1, No. 156 Huawang Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China
Manufacturer:	Shenzhen PioCreat 3d Technology Co., Ltd.
Address of Manufacturer:	3rd Floor, Building 1, No. 156 Huawang Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China
Factory:	Shenzhen PioCreat 3d Technology Co., Ltd.
Address of Factory:	3rd Floor, Building 1, No. 156 Huawang Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China

3.2 General Description of EUT

Product Name:	Auto Feed Unit
Model No.:	AFU
Test Model No	AFU
Trade Mark:	N/A
EUT Supports Radios application:	13.56MHz
Software Version:	V2.1
Hardware Version:	V2.0
Sample Type:	☒ Mobile ☐ Portable
EUT Power Supply:	DC 24V

3.3 General Description of 13.56MHz

Operation Frequency:	13.56MHz
Modulation Technique:	Non Frequency Hopping Spread Spectrum(NFHSS)
Modulation Type:	ASK
Number of Channel:	1
Test Software of EUT:	EUT Key
Antenna Type:	FPC antenna
Antenna Gain:	0dBi

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

447498 D04 Interim General RF Exposure Guidance v01

3.2. SAR Test Reduction Guidance

SAR test reduction procedures [Glossary] allow using a particular set of test data as representative of other, similar, test conditions. This may be applied for data within different test positions (e.g. body, head, extremity), wireless modes (e.g. Wi-Fi, cellular), and frequency bands. This test reduction process provides for the use of test data for one specific channel, while referencing to those data for demonstrating compliance in other required channels for each test position of an exposure condition, within the operating mode of a frequency band. This is limited specifically to when the reported 1-g or 10-g SAR for the mid-band or highest output power channel meets any of the following conditions.

4.1.2 Limits

2.1.2 1-mW Test Exemption

Per § 1.1307(b)(3)(i)(A), a single RF source is *exempt RF device* (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

4.1.3 EUT RF Exposure

Measurement Data

$$EIRP = E_{Meas} + 20\log(d_{Meas}) - 104.7$$

where

$EIRP$ is the equivalent isotropically radiated power, in dBm
 E_{Meas} is the field strength of the emission at the measurement distance, in dBμV/m
 d_{Meas} is the measurement distance, in m

Frequency	EIRP (dBm)	ERP (dBm)	Maximum tune-up Power (mW)	Exclusion threshold (mW)
13.56MHz	-73.76	-73.76	0.000199	1

Remark: The EIRP data refer to report Report No.: CQASZ20250300711E-01.

*** END OF REPORT ***