

TEST REPORT

Report No.: SHATBL2511018W03

Applicant : Fanlight Corporation, Inc.

Product Name : Remote/NFC Programmer

Brand Name : SyncMesh

Model Name : SYNC-RP01

FCC ID : 2BT4K-3603

Test Standard : FCC 47 CFR Part 2.1093

Date of Test : 2025.11.24~2026.03.04

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REVISION HISTORY

Rev.	Issue Date	Revisions	Revised by
00	2026.03.04	Initial Release	Guozheng Li

DECLARATION OF REPORT

1. The device has been tested by ATBL, and the test results show that the equipment under test (EUT) is in compliance with the requirements of 47 CFR Part 2.1093. And it is applicable only to the tested sample identified in the report.

2. This report shall not be reproduced except in full, without the written approval of ATBL, this document only be altered or revised by ATBL, personal only, and shall be noted in the revision of the document.

3. The general information of EUT in this report is provided by the customer or manufacture, ATBL is only responsible for the test data but not for the information provided by the customer or manufacture.

4. The results in this report is only apply to the sample as tested under conditions. The customer or manufacturer is responsible for ensuring that the additional production units of this model have the same electrical and mechanical components.

1. GENERAL DESCRIPTION

1.1. Applicant

Name : Fanlight Corporation, Inc.

Address : 2000 S Grove Ave Building B, Ontario, California, United States

1.2. Manufacturer

Name : Fanlight Corporation, Inc.

Address : 2000 S Grove Ave Building B, Ontario, California, United States

1.3. General Information of EUT

General Information	
Equipment Name	Remote/NFC Programmer
Brand Name	SyncMesh
Model Name	SYNC-RP01
Series Model	N/A
Model Difference	N/A
Sample No.	202511180014002
Power Input	DC 5V by 3xAA Batteries
Adapter	N/A
Battery	N/A
Hardware Version	CNCC-RC V1.0
Software Version	v1.0.0
Operating Temperature Range	0 ~ +40℃
Connecting I/O Port(s)	Refer to the remark below.

Remark:

The above information of EUT was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4. Modification of EUT

No modifications are made to the EUT during all test items.

1.5. Laboratory Information

Company Name	:	Shanghai ATBL Technology Co., Ltd.
Address	:	5-6/F., Unit 1, No 8, Free Trade One Life Science No. 160, Basheng Road, Pudong New District, Shanghai, China
Telephone	:	+86(0)21-51298625
FCC-Registration Number	:	485917
Designation Number	:	CN1306
A2LA Number	:	6184.01
CNAS Number	:	CNAS L14531
ISED Designation Number	:	27371
CAB identifier	:	CN0116

2. FCC 47CFR §2.1093 Requirement

2.1. Test Standards

According to §1.1307(b)(1), systems operating under the provisions of this 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.

According to §1.1310 and §2.1093 RF exposure is calculated.

KDB447498 D01: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

2.2. Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.²² The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.²³ "

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f \text{ (GHz)}}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$$

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation

distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

2.3. MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

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

2.4. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

Antenna Port	Type of antenna:	Gain of the antenna (Max.)	Frequency range: (MHz)
Antenna 0	coil Antenna	3 dBi	13.56
Antenna 1	PCB Antenna	4.87 dBi	2412-2462

2.5. Manufacturing Tolerance

Frequency (MHz)	ANT0	ANT1
	13.56	802.11n20_2412
Target (dBm)	-33.85	8.65
Tolerance ± (dB)	1.0	1.0

Note: dBm= dBuV-95.2=61.35dBuV-95.2=-33.85dBm

2.6. Test Result

f (MHz)	Antenna Distance (mm)	Max.RF output power (including tune-up tolerance)		SAR Test Exclusion Threshold Calculation	Threshold Criterion	SAR Test Exclusion
		dBm	mW			
13.56	5	-32.85	0.000519	Not applicable (f<100MHz); Actual power < 442 mW (critical limit)	442 mW (critical power limit for 5 mm distance)	Yes
802.11n20_2412	5	9.65	9.23	$(9.23/5) \times \sqrt{2.412} \approx 1.8 \times 1.553 \approx 2.9$	≤ 3.0 (1-g SAR threshold)	Yes

Note:

- 1.The Maximum power is less than the limit, complies with the exemption requirements.
- 2.Output power (Peak) including tune-up tolerance.
- 3.The calculated distance is 5mm.
- 4.Simultaneous emission is not supported.

5.The frequency of 13.56MHz is less than 100MHz, which is not within the applicable range of the SAR test exclusion threshold formula specified in KDB447498 D01 (100MHz ~ 6GHz). The critical power limit for SAR test exemption at 5mm distance derived from the formula is 442mW, and the actual output power of the device is far lower than this limit, meeting the exemption requirement.

Final Conclusion: The equipment under test (Model Name:SYNC-RP01, FCC ID:2BT4K-3603) complies with all the requirements of FCC 47 CFR Part 2.1093 for radio frequency exposure.

*****END OF THE REPORT*****