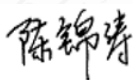


Industrial Internet Innovation Center (Shanghai) Co.,Ltd.

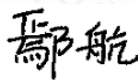
SAR TEST REPORT

PRODUCT	ELECTRONIC SHELF LABEL
BRAND	SUNMI
MODEL	BL260
APPLICANT	Shanghai Sunmi Technology Co.,Ltd.
FCC ID	2AH25BL260
ISSUE DATE	September 26, 2022
STANDARD(S)	FCC 47 CFR Part 2 §2.1091

Prepared by: Chen Jintao



Reviewed by: Yan Hang



Approved by: Liu Long

**CAUTION:**

This report shall not be reproduced except in full without the written permission of the test laboratory and shall not be quoted out of context.

CONTENTS

1	SUMMARY OF TEST REPORT	3
1.1	TEST STANDARD (S)	3
1.2	REFERENCE DOCUMENTS.....	3
1.3	DATA PROVIDED BY APPLICANT	3
2	GENERAL INFORMATION OF THE LABORATORY	4
2.1	TESTING LABORATORY.....	4
2.2	LABORATORY ENVIRONMENTAL REQUIREMENTS.....	4
2.3	PROJECT INFORMATION.....	4
3	GENERAL INFORMATION OF THE CUSTOMER	5
3.1	APPLICANT	5
3.2	MANUFACTURER	5
4	GENERAL INFORMATION OF THE PRODUCT.....	6
4.1	PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	6
4.2	DESCRIPTION FOR AUXILIARY EQUIPMENT (AE)	6
5	GENERAL DESCRIPTION	7
5.1	EVALUATION DISTANCE.....	7
5.2	EVALUATION METHOD	7
6	ASSESSMENT RESULTS	8
6.1	STANDALONE EVALUATION	8
	ANNEX B: REVISED HISTORY	10

1 Summary of Test Report

1.1 Test Standard (s)

No.	Test Standard(s)	Title	Version
1	FCC 47 CFR Part 2 §2.1091	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS. Section 2.1091 Radiofrequency radiation exposure evaluation: mobile devices	N/A

1.2 Reference Documents

No.	Reference Document(s)	Title	Version
1	KDB447498	General RF Exposure Guidance	D01 v06

1.3 Data Provided by Applicant

No.	Item(s)	Data
1	Maximum output power	BLE: 2dBm
2	Maximum antenna gain	BLE: -0.5dBi

NOTE: The data of Maximum output power and Maximum antenna gain are provided by the customer may affect the validity of the test results in this report, and the impact and consequences of this shall be undertaken by the customer.

2 General Information of The Laboratory

2.1 Testing Laboratory

Lab Name	Industrial Internet Innovation Center (Shanghai) Co.,Ltd.
Address	Building 4, No. 766, Jingang Road, Pudong, Shanghai, China
Telephone	021-68866880
FCC Registration No.	958356
FCC Designation No.	CN1177

2.2 Laboratory Environmental Requirements

Temperature	18°C~25°C
Relative Humidity	25%RH~75%RH

2.3 Project Information

Project Manager	Gao Hongning
Test Date	N/A

3 General Information of The Customer

3.1 Applicant

Company	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Telephone	18826519551

3.2 Manufacturer

Company	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China

4 General Information of The Product

4.1 Product Description for Equipment under Test (EUT)

Product	ELECTRONIC SHELF LABEL
Model	BL260
Date of Receipt	N/A
EUT ID*	N/A
SN/IMEI	N/A
Supported Radio Technology and Bands	BLE
Tx Frequency	2402-2480 MHz (BLE)
Hardware Version	/
Software Version	/
NOTE: EUT ID is the internal identification code of the laboratory.	

4.2 Description for Auxiliary Equipment (AE)

AE ID*	Description	Model	SN/Remark
N/A	N/A	N/A	N/A
NOTE: AE ID is the internal identification code of the laboratory.			

5 General Description

5.1 Evaluation Distance

Evaluation distance 20cm as a distance between the equipment and the operator or user when it is used normally. The distance used for the assessment had be specified by the manufacturer and be onsistent with the intended usage of the equipment.

5.2 Evaluation Method

For conservative evaluation consideration, only maximum power of each frequency band based on the tighter limits respectively are used to calculate the boundary power density.

Based on the KDB447498 D01 and FCC 47 CFR Part 2 § 2.1091, the DUT is evaluated as a mobile device.

$$S = \frac{P \times G}{4\pi d^2}$$

Where

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

6 Assessment Results

6.1 Standalone Evaluation

6.1.1 Limit/Criterion

Table 6.1.1-1 Limits for Occupational / Controlled Exposure

Limits for Occupational / Controlled Exposure				
Frequency (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3 – 3.0	614	1.63	(100)*	6
3.0 – 30	1824/f	4.89/f	(900/f)*	6
30 – 300	61.4	0.163	1	6
300 – 1500	--	--	F/300	6
1500 - 100000	--	--	5	6
Limits for General Population / Uncontrolled Exposure				
Frequency (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times 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)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	--	--	F/1500	30
1500 - 100000	--	--	1	30
NOTE:				
f = frequency in MHz; * Plane-wave equivalent power density.				
For the DUT, the limits for General Population / Uncontrolled Exposure are applicable.				

6.1.2 Standalone Evaluation

Table 6.1.2-1: Standalone Evaluation

Band	Frequency (MHz)	Tune Up (dBm)	Highest Output Power (dBm)	Highest Output Power (mW)	Antenna Gain(dBi)	Numeric antenna gain	Power density at 20cm (mW/cm ²)	Limit (mW/cm ²)
BLE	2402	2.00	2.00	1.58	-0.50	0.891	0.0003	1.00

Annex B: Revised History

Version	Revised Content
V00	Initial

END OF REPORT