

■Report No.: DDT-R20051512-1E5

■Issued Date: Jun. 15, 2020

RF EXPOSURE REPORT

FOR

Applicant	:	PRAISE PERFECTION LIMITED				
Address		FLAT/RM 4, 7F SHING YIP INDUSTRIAL BUILDING, 19-21 SHING YIP STREET, KWUN TONG, KL., HONG KONG.				
Equipment under Test	:	SOUND STATION PORTABLE STEREO BLUETOOTH / CD / AM-FM RADIO / CASSETTE RECORDER BOOMBOX				
DONG DI Model No.		SB2140, SB2140B, SB2140S, SB2140R, SB2140RG, SB2140XXXXX (where XXXXX denote any printable characters in the ASCII Standard Character Table to represent variances in cosmetics or buyers)				
Trade Mark		Studebaker				
FCC ID	:	2ASQA6962140				
Manufacturer :		PRAISE PERFECTION LIMITED				
Address		FLAT/RM 4, 7F SHING YIP INDUSTRIAL BUILDING, 19-21 SHING YIP STREET, KWUN TONG, KL., HONG KONG.				

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,

Dongguan City, Guangdong Province, China, 523808

Tel.: +86-0769-38826678, E-mail: ddt@dgddt.com, http://www.dgddt.com



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Test Report Declare

Applicant	:	PRAISE PERFECTION LIMITED		
Address		FLAT/RM 4, 7F SHING YIP INDUSTRIAL BUILDING, 19-21 SHING YIP STREET, KWUN TONG, KL., HONG KONG.		
Equipment under Test Model No.		SOUND STATION PORTABLE STEREO BLUETOOTH / CD / AM-FM RADIO / CASSETTE RECORDER BOOMBOX		
		SB2140, SB2140B, SB2140S, SB2140R, SB2140RG, SB2140XXXXX (where XXXXX denote any printable characters in the ASCII Standard Character Table to represent variances in cosmetics or buyers)		
Trade mark		Studebaker		
Manufacturer		PRAISE PERFECTION LIMITED		
Address		FLAT/RM 4, 7F SHING YIP INDUSTRIAL BUILDING, 19-21 SHING YIP STREET, KWUN TONG, KL., HONG KONG.		

Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No:	DDT-R20051512-1E5		
Date of Receipt:	May 15, 2020	Date of Test:	May 15, 2020 ~ Jun. 15, 2020

Prepared By:

Sam Li/Engineer

Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
	Initial issue	Jun. 15, 2020	

1. General Information

1.1. Description of equipment

	SOUND STATION PORTABLE STEREO BLUETOOTH / CD . AM-FM RADIO / CASSETTE RECORDER BOOMBOX			
	SB2140, SB2140B, SB2140S, SB2140R, SB2140RG,			
•	SB2140XXXXX (where XXXXX denote any printable characters in			
	the ASCII Standard Character Table to represent variances in			
	cosmetics or buyers)			
	All models have the same Circuit diagram and PCB Layout, only			
	difference on model name. For SB2140XXXXX, XXXXX denote any			
	printable characters in the ASCII Standard Character Table to			
	represent variances in cosmetics or buyers			
:	Please reference user manual of this device			
	DC 12V by AC adapter			
•	DC 7.4V by built-in battery			
:	Bluetooth V5.0			
	2402 MHz - 2480 MHz			
:	GFSK, π/4-DQPSK			
:	1 Mbps, 2 Mbps			
Antenna Type : Integral PCB antenna, maximum PK gain: -0.				
:	Series production			
	· · · · · · · · · · · · · · · · · · ·			

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,

Guangdong Province, China, 523808

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com

CNAS Accreditation No. L6451; A2LA Accreditation No. 3870.01

FCC Designation Number: CN1182; FCC Test Firm Registration Number: 540522

Industry Canada site registration number: 10288A-1

2. RF Exposure Evaluation

2.1. Requirement

Systems operating under the provisions of FCC 47 CFR 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.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time $ 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	
1500-100,000			1.0	30	

Note: f = frequency in MHz; *Plane-wave equivalent power density

2.2. Calculation method

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: $S(mW/cm^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

d = Separation distance between radiator and human body (m)

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \text{ or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

2.3. Estimation result

Mode	PK Output	Output	Antenna	Antenna	MPE	MPE
	power	power	Gain	Gain	Values	Limit
	(dBm)	(mW)	(dBi)	(linear)	(mW/cm ²	(mW/cm
Bluetooth Max power	-3.23	0.48	-0.68	0.86	0.000082	1

Note: The estimation distance is 20 cm

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold

END OF REPORT