

Report No.: DDT-RE23081708-2E02

■Issued Date: Sep. 12, 2023

RF EXPOSURE REPORT

FOR

Applicant		SOUNDMAX ELECTRONICL LIMITED
		17/F.,EU YAN SANG TOWER, 11-15 CHATHAM RD SOUTH, T.S.T.,KOWLOON,HONG KONG
Equipment under Test : HIDEAWAY AUDIO SOLUTION		HIDEAWAY AUDIO SOLUTION
Model No.	• •	SST-V
Trade Mark	•••	CUSTOM AUTOSOUND
FCC ID		2AB7S-SSTV2
Manufacturer	•	DONGGUAN TEAM FORCE ELECTRONIC CO.,LTD
Address	•	FULONG INDUSTRIAL ZONE, FULONG VILLAGE, SHIPAI TOWN, 523349 DONGGUAN, GUANGDONG PROVINCE, P.R. CHINA

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

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

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Test Report Declare

Applicant	:	SOUNDMAX ELECTRONICL LIMITED
Address		17/F.,EU YAN SANG TOWER, 11-15 CHATHAM RD SOUTH, T.S.T.,KOWLOON,HONG KONG
Equipment under Test		HIDEAWAY AUDIO SOLUTION
Model No.) • •	SST-V
Trade Mark	:	CUSTOM AUTOSOUND ®
Manufacturer	:	DONGGUAN TEAM FORCE ELECTRONIC CO.,LTD
Address		FULONG INDUSTRIAL ZONE, FULONG VILLAGE, SHIPAI TOWN, 523349 DONGGUAN, GUANGDONG PROVINCE, P.R. CHINA

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-RE23081708-2	E02		
Date of Receipt: Aug. 29, 2023		Date of Test:	Aug. 29, 2023 ~ Sep. 12, 2023	

Prepared By:

Approved By:

Damon Hu

Tiger Mo/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.

TRF No.: KDB447498 D01 Ver.1.0

Revision History

Rev.	Revisions	®	Issue Date	Revised By
	Initial issue		Sep. 12, 2023	ar
		DIE	DR	

TRF No.: KDB447498 D01 Ver.1.0

1. General Information

1.1. Description of equipment

EUT Name	: HIDEAWAY AUDIO SOLUTION	
Model Number	: SST-V	
EUT function description	I Place reterence light manifel of this device	
Power Supply	: DC	C12V, (DC 10.8 to 15.6V allowable)
Radio Technology	: Blu	uetooth V5.0
Operation frequency	: 24	02 MHz - 2480 MHz
Modulation	: GF	FSK, π/4-DQPSK, 8DPSK
Transmitter rate	: 1 N	Mbps, 2 Mbps, 3 Mbps
Antenna Type	: Du	ual-frequency copper tube antenna , maximum PK gain:3.08 dBi
Sample Number		23081708-02 for conductive 23081708-03 for radiation

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 Number: 3870.01

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

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

TRF No.: KDB447498 D01 Ver.1.0

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			

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

2.2. Calculation method

1500-100,000

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 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	Output power (dBm)	Output power (mW)	tune up power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm²)	MPE Limit (mW/cm²)
BT	2.02	1.592	3	3.08	2.03	0.00064	1

Note: The estimation distance is 20 cm

Conclusion: MPE evaluation required since transmitter power is below FCC threshold

END OF REPORT

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