

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800337402 Page: 1 of 6

SAR Evaluation Report

Application No.:	SZCR2408003374AT		
Applicant:	Harman International Industries, Inc.		
Address of Applicant:	8500 Balboa Boulevard, Northridge, CA 91329, United States Of America.		
Manufacturer:	Harman International Industries, Inc.		
Address of Manufacturer:	8500 Balboa Boulevard, Northridge, CA 91329, United States Of America.		
Factory:	Zhong Shan City Richsound Electronic Industrial Ltd.		
Address of Factory:	No.16, East Shagang Road, Gangkou, Zhongshan, Guangdong, China.		
Equipment Under Test (EUT):			
EUT Name:	Sactionals StealthTech Sound + Charge Remote Control		
Model No.:	EE3531		
FCC ID:	APILOVESACR		
Standards:	47 CFR Part 1.1307		
	47 CFR Part 2.1093		
	KDB447498D01 General RF Exposure Guidance v06		
Date of Receipt:	2020-09-27(for original report of SZEM200900978602)		
Date of Test:	2020-09-30 to 2020-11-05(for original report of SZEM200900978602)		
Data of loove	2020-11-07(for original report of SZEM200900978602)		
Date of Issue:	2024-09-14(for new report of SZCR240800337402)		
Test Result :	PASS*		

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

Keny. Ku

Keny Xu EMC Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-09-14		Original

Authorized for issue by:		
	Benson Wong	
	Benson Wang/Project Engineer	-
	Eric Fu	
	Eric Fu/Reviewer	-



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3 General Information

3.1 General Description of EUT

Power supply:	DC 3.0V (2*1.5V "AAA" Size Batteries)
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V4.2BLE
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	-1.44dBi

Remark:

Model No: EE3531

The model EE3531 was only tested in original report SZEM200900978602.

This report was an additional report copied from the report SZEM200900978602, just changed the information of factory and change the supplier of capacitors in match circuit of antenna. Therefore original data were kept in this report.



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3.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 No tests were sub-contracted.

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC – Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.4 Deviation from Standards

None.

3.5 Abnormalities from Standard Conditions

None.

3.6 Other Information Requested by the Customer

None.



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4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

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 Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f}(GHz)$] ≤ 3.0 for 1-g SAR and ≤ 7.5 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 calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 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 is applied to determine SAR test exclusion

4.1.3 EUT RF Exposure

The Max. power (including tune-up tolerance) is1 dBm on the lowest channel2.402GHz (*)1.00 dBm logarithmic terms convert to numeric result is nearly1.26 mW

According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f}(GHz)$]

General RF Exposure = $(1.26 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402} \text{ GHz} = 0.39$	(1)
SAR requirement:	
<i>S</i> = 3.0	(2)
(1) < (2)	
So the SAP report is not required	

So the SAR report is not required.

(*) Max. power refer to Report No.:SZEM200900978601

- End of the Report -



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