

FCC Part 15B Test Report

Application No.	:	HX2007077501
Applicant	:	Guangdong Sequre Technology Co., Ltd.
Equipment Under	[.] Tes	st (EUT)
EUT Name	:	Electric Screwdriver
Model No.	:	SQ-ES126
Serial No.	:	See Page 3
Brand Name	:	SEQURE
Receipt Date	:	2020-07-20
Test Date	:	2020-07-20 to 2020-07-24
Issue Date	:	2020-07-24
Standards	:	FCC Part 15: 2019 Subpart B
Conclusions	:	PASS
		In the configuration tested, the EUT complied with the standards specified above. The EUT technically

complies with the FCC requirements

Test/Witness Engineer

Approved & Authorized





This report details the results of the **testing** carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.



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1. General Information

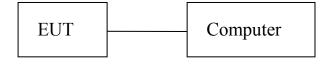
1.1 Client Information

Applicant	:	Suangdong Sequre Technology Co., Ltd.		
Address	:	Building B1, Hongxintai Industrial Park, No. 28 Yinying Road, Dalang Town, Dongguan City, Guangdong Province		
Manufacturer	:	Guangdong Sequre Technology Co., Ltd.		
Address : Building B1, Hongxintai Industrial Park, No. 28 Yinying Road, Dalang Town, Dongguan City, Guangdong Province		Building B1, Hongxintai Industrial Park, No. 28 Yinying Road, Dalang Town, Dongguan City, Guangdong Province		

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Electric Screwdriver			
Model No.	:	Q-ES126			
Serial No.	:	Q-ES126 Pro, SQ-ES126 Pro Max			
Brand Name	:	SEQURE			
Power Supply	:	DC 5.0V, 3A			
Remark: All above models are identical in schematic, structure and critical components					
except for only different appearance; therefore, EMI testing was performed with					
SQ-ES126 only.					

1.3 Block Diagram Showing The Configuration of System Tested



1.4 Test standards

The objective is to determine compliance with FCC Part 15, Subpart B, and section 15.107, 15.109 rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.



1.5 Test Facility

The testing report were performed by the Shenzhen HX Detect Certification Co., Ltd., in their facilities located at 5/F, Building B15, Zongtai Cultural and Creative Industrial Park, Yintian Creative Park, Xixiang Town, Bao 'an District, Shenzhen.

1.6 Equipment Used Test

1.6.1 Test Equipment Used to Measure Conducted Emission

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
HX-EMC001	EMI Test Receiver	Rohde & Schwarz	ESCS30	Jan.02, 2020	1 Year
HX-EMC002	AMN	Rohde & Schwarz	ENV216	Jan.02, 2020	1 Year
HX-EMC003	AMN	SCHWARZBECK	NNBL 8226-2	Jan.02, 2020	1 Year

1.6.2 Test Equipment Used to Measure Radiated Emission

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
HX-EMC004	EMI Test Receiver	Rohde & Schwarz	ESI26	Jan.02, 2020	1 Year
HX-EMC005	Bilog Antenna	SCHWARZBECK	VULB9163	Jan.02, 2020	1 Year
HX-EMC006	Positioning Controller	C&C	CC-C-1F	N/A	N/A



2. Test Summary

Test Items	Test Requirement	Test Method	Result
Conducted Emission	FCC Part 15: 2019 Subpart B	ANSI C63.4	N/A
Radiated Emission	FCC Part 15: 2019 Subpart B	ANSI C63.4	Pass
Note: N/A is an abbreviati	on for Not Applicable.		



3. Conducted Emission Test

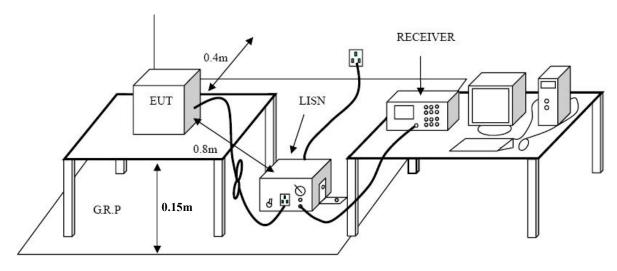
- 3.1 Test Standard and Limit
 - 3.1.1Test Standard FCC Part 15 B: 2019
 - 3.1.2 Test Limit

Conducted	Emission	Test Limit	(Class B))
Conductou				/

Ereguenov	Maximum RF Line Voltage (dBμV)		
Frequency	Quasi-peak Level	Average Level	
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

*decreasing linearly with logarithm of the frequency

3.2 Test Setup



3.3 Test Procedure

The EUT was placed 0.15 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

The cables shall be insulated (by up to 15 cm) from the horizontal ground reference plane, and shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.



LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

3.4 Test Data

This test is not applicable.



4. Radiated Emission Test

- 4.1 Test Standard and Limit
 - 4.1.1 Test Standard FCC Part 15 B: 2019
 - 4.1.2 Test Limit

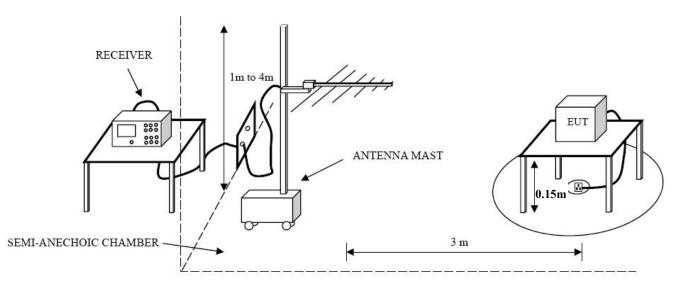
Radiated	Emission	Test Limit	(Class B)	١
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Frequency	Field Strengths Limits
MHz	dB(µV/m)
30~88	40.0
88~216	43.5
216~960	46.0
960 ~ 1000	54.0

* The lower limit shall apply at the transition frequency.

* The test distance is 3m.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed on the top of a rotating table which is 0.15 meters above the ground. EUT is set 3.0 meters away from the receiving antenna that mounted on a antenna tower. The table was rotated 360 degrees to determine the position of the highest radiation, the antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



Measurements shall be made with a quasi-peak measuring receiver in the frequency range 30MHz to 1000MHz. If the Peak Mode measured value compliance with and lower than quasi-peak mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

4.4 Test Condition

Temperature	:	25 ℃
Relative Humidity	:	48 %
Pressure	:	1010 hPa
Test Power	:	DC 5V

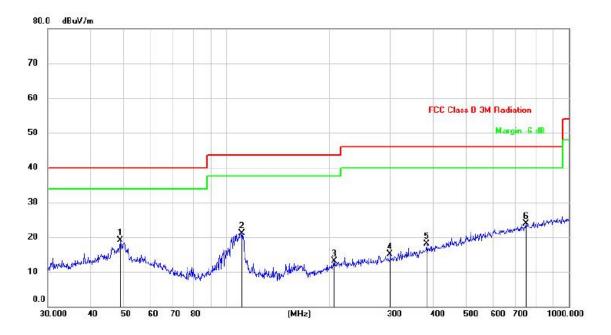
4.5 Test Data

Please refer to the following pages.



Operating Condition: Normal

Test Specification: Horizontal

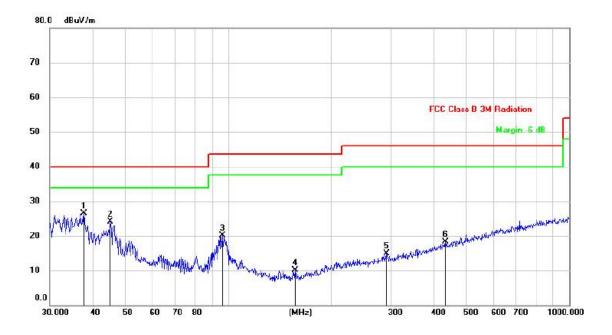


. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB	Detector
*	48.8429	30.38	-11.37	19.01	40.00	-20.99	peak
	110.5687	35.20	-14.00	21.20	43.50	-22.30	peak
	206.3976	26.81	-13.65	13.16	43.50	-30.34	peak
	300.3672	26.45	-11.43	15.02	46.00	-30.98	peak
	383.9318	27.64	-9.52	18.12	46.00	-27.88	peak
	750.1082	28.07	-4.13	23.94	46.00	-22.06	peak
		MHz * 48.8429 110.5687 206.3976 300.3672 383.9318	Mk. Freq. Level MHz dBuV * 48.8429 30.38 110.5687 35.20 206.3976 26.81 300.3672 26.45 383.9318 27.64	Mk. Freq. Level Factor MHz dBuV dBuV/m * 48.8429 30.38 -11.37 110.5687 35.20 -14.00 206.3976 26.81 -13.65 300.3672 26.45 -11.43 383.9318 27.64 -9.52	Mk. Freq. Level Factor ment MHz dBuV dBuV/m dBuV/m * 48.8429 30.38 -11.37 19.01 110.5687 35.20 -14.00 21.20 206.3976 26.81 -13.65 13.16 300.3672 26.45 -11.43 15.02 383.9318 27.64 -9.52 18.12	Mk. Freq. Level Factor ment Limit MHz dBuV dBuV/m dBuV/m dBuV/m dBuV/m * 48.8429 30.38 -11.37 19.01 40.00 110.5687 35.20 -14.00 21.20 43.50 206.3976 26.81 -13.65 13.16 43.50 300.3672 26.45 -11.43 15.02 46.00 383.9318 27.64 -9.52 18.12 46.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dBuV/m dDu1 dDu10 -20.99 -22.30 -22.30 -22.30 -30.34 300.3672 26.45 -11.43 15.02 46.00 -30.98 383.9318 27.64 -9.52<



Operating Condition: Normal

Test Specification: Vertical



Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB	Detector
*	37.8121	39.34	- <mark>12.9</mark> 2	26.42	40.00	- <mark>1</mark> 3.58	peak
	45.2165	35.39	-11.35	24.04	40.00	-15.96	peak
	96.0986	34.53	-14.41	20.12	43.50	-23.38	peak
	157.0072	27.05	-16.97	10.08	43.50	- <mark>33.4</mark> 2	peak
	292.0581	26.59	-11.61	14.98	46.00	-31.02	peak
	434.0649	26.91	-8.58	18.33	46.00	-27.67	peak
	*	MHz * 37.8121 45.2165 96.0986	Mk. Freq. Level MHz dBuV * 37.8121 39.34 45.2165 35.39 96.0986 34.53 157.0072 27.05 292.0581 26.59	Mk. Freq. Level Factor MHz dBuV dBuV/m * 37.8121 39.34 -12.92 45.2165 35.39 -11.35 96.0986 34.53 -14.41 157.0072 27.05 -16.97 292.0581 26.59 -11.61	Mk. Freq. Level Factor ment MHz dBuV dBuV/m dBuV/m * 37.8121 39.34 -12.92 26.42 45.2165 35.39 -11.35 24.04 96.0986 34.53 -14.41 20.12 157.0072 27.05 -16.97 10.08 292.0581 26.59 -11.61 14.98	Mk. Freq. Level Factor ment Limit MHz dBuV dBuV/m dBuV/m dBuV/m dBuV/m * 37.8121 39.34 -12.92 26.42 40.00 45.2165 35.39 -11.35 24.04 40.00 96.0986 34.53 -14.41 20.12 43.50 157.0072 27.05 -16.97 10.08 43.50 292.0581 26.59 -11.61 14.98 46.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dBuV/m dBu



5. Photographs - Constructional Details

Photo 1 Appearance of EUT



Photo 2 Appearance of EUT

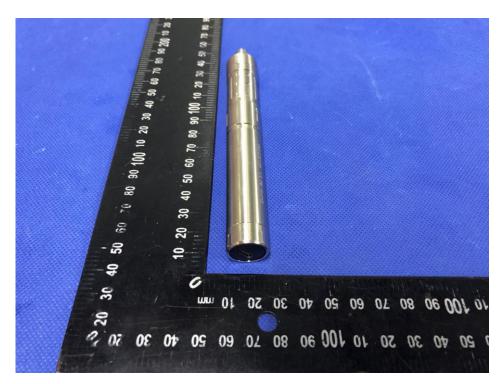
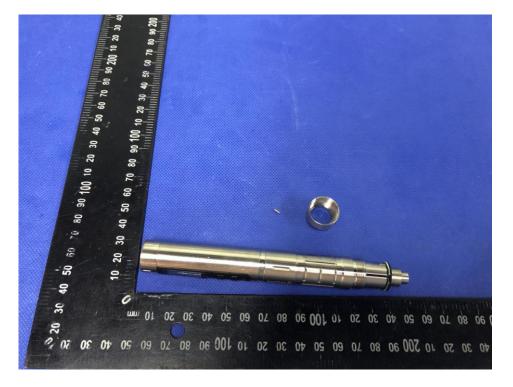




Photo 3 Appearance of EUT



END OF REPORT