



# RF Exposure Evaluation Report

Applicant's company	Tesla Motors, Inc.
Applicant Address	3500 Deer Creek Road Palo Alto, California US 94304 United States Of America
FCC ID	2AEIM-1089773
Manufacturer's company	Tesla Motors, Inc.
Manufacturer Address	3500 Deer Creek Road Palo Alto, California US 94304 United States Of America

Product Name	B-pillar Endpoint
Brand Name	Tesla
Model Name	1089773
Ref. Standard(s)	47 CFR FCC Part 2 Subpart J, section 2.1093
Received Date	Jun. 12, 2017
Final Test Date	Jun. 16, 2017
Submission Type	Original Equipment

  
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SPORTON INTERNATIONAL INC.





## Table of Contents

<b>1.</b>	<b>GENERAL DESCRIPTION .....</b>	<b>4</b>
1.1.	EUT General Information .....	4
1.2.	Testing Location Information.....	4
<b>2.</b>	<b>RF EXPOSURE EVALUATION .....</b>	<b>5</b>
2.1.	Applicable Standard .....	5
2.2.	SAR evaluation.....	5

### PHOTOGRAPHS OF EUT V01



### History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA752630	Rev. 01	Initial issue of report	Aug. 01, 2017



# 1. GENERAL DESCRIPTION

## 1.1. EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
Bluetooth	2400-2483.5	2402-2480	LE: DSSS (GFSK)

## 1.2. Testing Location Information

Testing Location		
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456      FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.		
<input type="checkbox"/>	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.) TEL : 886-3-656-9065      FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.		



## 2. RF EXPOSURE EVALUATION

### 2.1. Applicable Standard

In accordance with FCC 47 CFR part 2 (2.1093) this device has been defined as a portable device which is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Portable devices must be evaluated using the specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

### 2.2. SAR evaluation

- Per FCC KDB 447498 D01 v06, 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:  
$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f_{\text{(GHz)}}} \leq 3.0$$
 for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR
  - $f_{\text{(GHz)}}$  is the RF channel transmit frequency in GHz
  - Power and distance are rounded to the nearest mW and mm before calculation
  - The result is rounded to one decimal place for comparison

Tune-up Average Power		Test Distance (mm)	Frequency (GHz)	Exclusion Thresholds
(dBm)	(mW)			
5.00	3.16	5	2.402	1.0

- Per FCC KDB 447498 D01 v06 exclusion thresholds is  $1.0 < 3$ , RF exposure evaluation is not required.