Testing Laboratory
1190

RF Exposure Evaluation Report

FCC ID	:	2AEIM-1509518D
Equipment	:	B-pillar Endpoint
Brand Name	:	Tesla
Model Name	:	1509518D
Applicant/ Manufacturer	:	Tesla Motors, Inc. 3500 Deer Creek Road Palo Alto, California US 94304 United States Of America
Standard	:	47 CFR FCC Part 2 Subpart J, section 2.1093

The product was received on Oct. 28, 2019, and testing was started from Oct. 29, 2019 and completed on Nov. 18, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in KDB447498 D01 General RF Exposure Guidance v06 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Phoenix Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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HISTORY OF THIS TEST REPORT

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA9O2512-01	01	Initial issue of report	Jan. 22, 2020

Note : From Sporton Project No.:FA9O2512

Reviewed by: Sam Tsai

Report Producer: Kate Lo

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			
☒	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.			
☐	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

1. 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* ≤ 50 mm are determined by:
   [(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)]•
   [$\sqrt{f}_{(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
   - $f_{(GHz)}$ 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

Max. Power	Tolerance	Tune-up Max. Power		Test Distance	Frequency	Exclusion
(dBm)	(dB)	(dBm)	(mW)	(mm)	(GHz)	Thresholds
4.27	0.5	4.77	3	5	2.402	0.93

Per FCC KDB 447498 D01 v06 exclusion thresholds is 0.93 < 3, RF exposure evaluation is not required.

————THE END————