

RF Exposure Evaluation Report

Product : CF001
Trade mark : N/A
Model/Type reference : CARFIT PULS
Serial Number : N/A
Report Number : EED32L00037302
FCC ID : 2AJRY-CF001
Date of Issue : Jun. 04, 2019
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB 447498D01v06
Test result : PASS

Prepared for:

CARFIT CORP.

530 Lytton Avenue, 2nd Floor, Palo Alto, CA94301 - USA

Prepared by:

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Jun. 04, 2019

Check No.:3336830492



2 Version

Version No.	Date	Description
00	Jun. 04, 2019	Original

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4 General Information

4.1 Client Information

Applicant:	CARFIT CORP.
Address of Applicant:	530 Lytton Avenue, 2nd Floor, Palo Alto, CA94301 - USA
Manufacturer:	CARFIT CORP.
Address of Manufacturer:	530 Lytton Avenue, 2nd Floor, Palo Alto, CA94301 - USA
Factory:	CARFIT CORP.
Address of Factory:	530 Lytton Avenue, 2nd Floor, Palo Alto, CA94301 - USA

4.2 General Description of EUT

Product Name:	CF001
Model No.(EUT):	CARFIT PULS
Trade mark:	N/A
EUT Supports Radios application:	BT4.2 Single Mode; 2402-2480MHz
Power Supply:	Button battery(CR2032)=3V
Hardware Version:	0403_00_000_000(manufacturer declare)
Software Version:	00_00_0012(manufacturer declare)

4.3 Product Specification subjective to this standard

Frequency Range:	2402-2480MHz
Modulation Type:	GFSK
Number of Channel:	40
Test Power Grade:	N/A
Test Software of EUT:	nRFgo Studio V1.20.0.2(manufacturer declare)
Antenna Type:	Chip Antenna
Antenna Gain:	2dBi
Max Conducted Peak Output Power:	-7.604dBm The Max Conducted Peak Output Power data refer to the report EED32L00037301
Sample Received Date:	Feb. 28, 2019
Sample tested Date:	Apr. 17, 2019 to Apr. 29, 2019
Remark: The tested sample(s) and the sample information are provided by the client.	

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4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

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.

5.1.2 Limits

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:

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

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where $f(\text{GHz})$ 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 ≤ 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

5.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is -7.604dBm in highest channel(2.440GHz);

The best case gain of the antenna is 2dBi.

EIRP= -7.604dBm + 2dBi = -5.604dBm

-5.604dBm logarithmic terms convert to numeric result is nearly 0.275mW

According to the formula. calculate the EIRP test result:

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

$[\sqrt{f(\text{GHz})}]$

General RF Exposure = $(0.275\text{mW} / 5 \text{ mm}) \times \sqrt{2.440\text{GHz}} = 0.086$ ①

SAR requirement:

S= 3.0

② ;

① < ②.

So the SAR report is not required.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00037301 for EUT external and internal photos.

*** End of Report ***

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