

# RF Exposure Report

## For

**Applicant Name:**

Shenzhen WEIYIKE Technology Co.,Ltd

**Address:**

Room503, NO.4, Maojinghua SOHO Yi Luan Building, Xixiang, Rood, NO.230, Baoan, District, ShenZhen, P.R.China.

**EUT Name:**

Automobile Data Recorder

**Brand Name:**

N/A

**Model Number:**

V7

**Series Model Number:**

V7PRO, V7PULS, V7MATE

## Issued By

**Company Name:****BTF Testing Lab (Shenzhen) Co., Ltd.****Address:**

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

**Report Number:**

BTF230725-001

**Test Standards:**

47 CFR Part 2 Subpart J Section 2.1091

**FCC ID:**

2BCEY-V7

**Test Conclusion:**

Pass

**Test Date:**

2023-02-22 to 2023-07-21

**Date of Issue:**

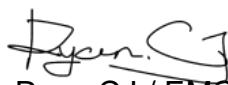
2023-07-21

**Prepared By:**

Elma.Kang

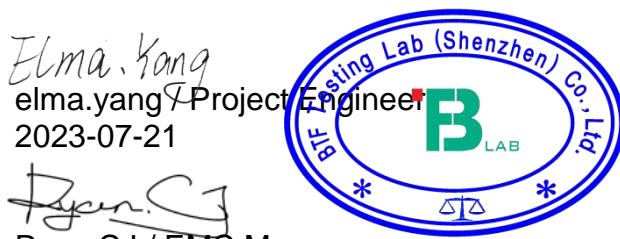
elma.yang / Project Engineer

2023-07-21



Ryan.CJ / EMC Manager

2023-07-21



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Test Report Number: BTF230725-001

Revision History		
Version	Issue Date	Revisions Content
R_V0	2023-07-21	Original
<i>Note:</i>	<i>Once the revision has been made, then previous versions reports are invalid.</i>	

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## 1. Introduction

### 1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

### 1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Description:	All measurement facilities used to collect the measurement data are located at F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
FCC Registration Number:	518915
Designation Number:	CN1330

### 1.3 Laboratory Condition

Ambient Temperature:	20°C to 25°C
Ambient Relative Humidity:	45% to 55%
Ambient Pressure:	100 kPa to 102 kPa

### 1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

## 2. Product Information

### 2.1 Application Information

Company Name:	Shenzhen WEIYIKE Technology Co.,Ltd
Address:	Room503, NO.4, Maojinghua SOHO Yi Luan Building, Xixiang, Rood, NO.230, Baoan, District, ShenZhen, P.R.China.

### 2.2 Manufacturer Information

Company Name:	Shenzhen WEIYIKE Technology Co.,Ltd
Address:	Room503, NO.4, Maojinghua SOHO Yi Luan Building, Xixiang, Rood, NO.230, Baoan, District, ShenZhen, P.R.China.

### 2.3 Factory Information

Company Name:	Shenzhen WEIYIKE Technology Co.,Ltd
Address:	Room503, NO.4, Maojinghua SOHO Yi Luan Building, Xixiang, Rood, NO.230, Baoan, District, ShenZhen, P.R.China.

### 2.4 General Description of Equipment under Test (EUT)

EUT Name	Automobile Data Recorder
Under Test Model Name	V7
Series Model Name	V7PRO, V7PULS, V7MATE
Description of Model name differentiation	Only the names are different
Hardware Version	V1.0
Software and Firmware Version	V1.0

### 3. Test Requirement

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b), Limits for Maximum Permissible Exposure (MPE),

Frequency range (MHz)	Electric field strength(V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f2)	6
30–300	61.4	0.163	1.0	6
300–1500	-	-	f/300	6
1500–100,000	-	-	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f2)	30
30–300	27.5	0.073	0.2	30
300–1500	-	-	f/1500	30
1500–100,000	-	-	1.0	30

Note: f = frequency in MHz

#### EVALUATION METHOD

Transmission formula:  $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm<sup>2</sup>, Pout = output power to antenna in mW, G = gain of antenna in linear scale;  
Pi = 3.1416, R = distance between observation point and center of the radiator in cm

### 3.1 Assessment Result

Passed

Not Applicable

Frequency (MHz)	Type	Conducted Power (dBm)	Tune-up (dBm)	Max Tune-up (dBm)	Power Density (mW/cm2)	Limit (mW/cm2)	Result
2412	802.11b	9.84	10±1	11	0.0025	1.0000	Pass

Note: The exposure evaluation safety distance is 20cm.



Test Report Number: BTF230725-001



BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street,  
Bao'an District, Shenzhen, China

[www.btf-lab.com](http://www.btf-lab.com)

**--END OF REPORT--**