



# RF EXPOSURE REPORT

**REPORT NO.:** SA130912C02A

**MODEL NO.:** AK1

**FCC ID:** YA7-ATVT1240

**RECEIVED:** Oct. 07, 2013

**ISSUED:** Oct. 09, 2013

**APPLICANT:** ATrack Technology Inc.

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**ISSUED BY:** Bureau Veritas Consumer Products Services  
(H.K.) Ltd., Taoyuan Branch

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA130912C02A	Original release	Oct. 09, 2013



# 1. CERTIFICATION

**PRODUCT:** Vehicle telematics  
**MODEL:** AK1  
**BRAND:** ATrack  
**APPLICANT:** ATrack Technology Inc.  
**TEST SAMPLE:** Identical Prototype  
**STANDARDS:** FCC Part 2 (Section 2.1091)  
**FCC OET Bulletin 65, Supplement C (01-01)**  
**IEEE C95.1**

The above equipment (Model: AK1) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

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Gina Liu / Specialist

**APPROVED BY** : Gordon Lin , **DATE** : Oct. 09, 2013  
Gordon Lin / Assistant Manager

## 2. RF EXPOSURE

### 2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

### 2.3 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

## 2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

Frequency Band (MHz)	Operating Mode	Maximum Conducted (dBm)		Antenna Gain (dBi)	E.I.R.P. (mW)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
		Burst Avg. Power	Time Avg. Power				
GSM850	GPRS8	35	26	0	398.11	0.079	0.55
GSM1900	GPRS8	32	23	0	199.53	0.040	1