

## RF EXPOSURE REPORT

**REPORT NO.:** SA120522C25 R1

MODEL NO.: U1 Lite

FCC ID: RLS-STAVL1213

**RECEIVED:** May 22, 2012

**TESTED:** Jul. 27 ~ Jul. 30, 2012

**ISSUED:** Aug. 21, 2012

APPLICANT: SYSTEMS & TECHNOLOGY CORP.

ADDRESS: 18-5F, No. 79, Hsin Tai Wu Road, Sec. 1,

Hsichih District, New Taipei City, Taiwan, R.O.C.

**ISSUED BY:** Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,

New Taipei City, Taiwan (R.O.C)

**TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei

Shan Hsiang, Taoyuan Hsien 333, Taiwan,

R.O.C.

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.

Report No.: SA120522C25 R1 1 of 6 Report Format Version 5.0.0



# **TABLE OF CONTENTS**

<b>RELE</b>	ASE CONTROL RECORD	3
	CERTIFICATION	
2.	RF EXPOSURE	5
2.1	LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)	5
	MPE CALCULATION FORMULA	
2.3	CLASSIFICATION	5
2.4	CALCULATION RESULT OF MAXIMUM CONDUCTED POWER	6



## **RELEASE CONTROL RECORD**

ISSUE NO. REASON FOR CHANGE		DATE ISSUED	
SA120522C25	Original release	Aug. 09, 2012	
SA120522C25 R1	Changed model	Aug. 21, 2012	

Report No.: SA120522C25 R1 3 of 6 Report Format Version 5.0.0



### 1. CERTIFICATION

**PRODUCT:** GPS Vehicle Tracking Device

MODEL NO.: U1 Lite

**BRAND:** CAREU

**APPLICANT: SYSTEMS & TECHNOLOGY CORP.** 

**TEST SAMPLE:** ENGINEERING SAMPLE

**TESTED:** Jul. 27 ~ Jul. 30, 2012

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

**IEEE C95.1** 

The above equipment (Model: U1 Lite) 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.

PREPARED BY : , DATE : Aug. 21, 2012

Pettie Chen / Senior Specialist

APPROVED BY : , DATE : Aug. 21, 2012

Gary Chang / Technical 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/cm²)	AVERAGE TIME (minutes)			
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE							
300-1500			F/1500	30			
1500-100,000			1.0	30			

F = Frequency in MHz

### 2.2 MPE CALCULATION 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

#### 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**.

Report No.: SA120522C25 R1 5 of 6 Report Format Version 5.0.0



## 2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	ERP (dBm)	EIRP (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
<b>GSM</b> : 824.2MHz ~ 848.8MHz	25.21	27.36	20	0.108	0.549
<b>GPRS:</b> 824.2MHz ~ 848.8MHz	24.85	27.00	20	0.100	0.549

FREQUENCY BAND (MHz)	EIRP (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
<b>GSM</b> : 1850.2MHz ~ 1909.8MHz	23.34	20	0.043	1
<b>GPRS:</b> 1850.2MHz ~ 1909.8MHz	23.00	20	0.040	1

Report No.: SA120522C25 R1 6 of 6 Report Format Version 5.0.0