# RF Exposure Report

**Report No.:** SA150121C18A

**FCC ID:** Q3N-3GC-8001

**Test Model:** 3GC-8001

**Received Date:** Jan. 01, 2015

**Test Date:** Jan. 21 ~ Jun. 24, 2015

**Issued Date:** Jul. 01, 2015

**Applicant:** CIPHERLAB CO., LTD

**Address:** 12F, 333 Dunhua S. Rd., Sec. 2 Taipei, Taiwan 106

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

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## Release Control Record

| Issue No. | Description | Date Issued |
|---|---|---|
| SA150121C18A | Original release | Jul. 01, 2015 |

## 1 Certificate of Conformity

| | |
|---|---|
| **Product:** | CRADLE |
| **Brand:** | CIPHERLAB |
| **Test Model:** | 3GC-8001 |
| **Sample Status:** | Engineering sample |
| **Applicant:** | CIPHERLAB CO., LTD |
| **Test Date:** | Jan. 21 ~ Jun. 24, 2015 |
| **Standards:** | FCC Part 2 (Section 2.1091)<br>KDB 447498 D03<br>IEEE C95.1 |

The above equipment 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 :** Celine Chou , **Date:** Jul. 01, 2015

Celine Chou / Specialist

**Approved by :** Bruce Chen , **Date:** Jul. 01, 2015

Bruce Chen / Project Engineer

## 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 ($mW/cm^2$) | 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 $mW/cm^2$

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**.

## 3 Calculation Result Of Maximum Conducted Power

| Frequency Band (MHz) | ERP (dBm) | EIRP (dBm) | Distance (cm) | Power Density (mW/cm2) | Limit (mW/cm2) |
|---|---|---|---|---|---|
| GPRS: 824.2MHz ~ 848.8MHz | 27.30 | 29.45 | 20 | 0.175 | 0.550 |
| WCDMA: 826.4MHz ~ 846.6MHz | 19.52 | 21.67 | 20 | 0.029 | 0.551 |

Note: EIRP = ERP + 2.15

| Frequency Band (MHz) | EIRP (dBm) | Distance (cm) | Power Density (mW/cm2) | Limit (mW/cm2) |
|---|---|---|---|---|
| GPRS: 1850.2MHz ~ 1909.8MHz | 30.84 | 20 | 0.241 | 1 |
| WCDMA: 1852.4MHz ~ 1907.6MHz | 24.05 | 20 | 0.051 | 1 |

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