# RF Exposure Report

**Report No.:** SA130923D14B

**FCC ID:** 2AA69002

**Test Model:** DC-NU2-UMPC

**Received Date:** Jan. 05, 2015

**Test Date:** Jan. 10 ~ Feb. 04, 2015

**Issued Date:** Feb. 09, 2015

**Applicant:** Capsule Technologie SAS

**Address:** 9 villa Pierre Ginier 75018 Paris, France

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

**Lab Address:** No. 47-2, 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.

## Table of Contents

## Release Control Record

| Issue No. | Description | Date Issued |
|---|---|---|
| SA130923D14B | Original release | Feb. 09, 2015 |

## 1 Certificate of Conformity

| | |
|---|---|
| **Product:** | SmartLinx Neuron 2 |
| **Brand:** | Capsule |
| **Test Model:** | DC-NU2-UMPC |
| **Sample Status:** | MASS-PRODUCTION |
| **Applicant:** | Capsule Technologie SAS |
| **Test Date:** | Dec. 27, 2014 ~ Jan. 19, 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 :** _____ , **Date:** Feb. 09, 2015

Pettie Chen / Senior Specialist

**Approved by :** _____ , **Date:** Feb. 09, 2015

Ken Liu / Senior 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 ($mW/cm^2$) | 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) | Modulation Mode | Max Power (dBm) | Antenna Gain (dBi) | Distance (cm) | Power Density ($mW/cm^2$) | Limit ($mW/cm^2$) |
|---|---|---|---|---|---|---|
| 2412-2462 | 802.11b | 17.43 | 2 | 20 | 0.017 | 1 |
| | 802.11g | 22.26 | 2 | 20 | 0.053 | 1 |
| | 802.11n (20MHz) | 22.10 | 5.01 | 20 | 0.102 | 1 |
| | 802.11n (40MHz) | 22.73 | 5.01 | 20 | 0.118 | 1 |
| 5180-5240 | 802.11a | 15.34 | 2 | 20 | 0.011 | 1 |
| | 802.11n (20MHz) | 13.13 | 5.01 | 20 | 0.013 | 1 |
| | 802.11n (40MHz) | 13.18 | 5.01 | 20 | 0.013 | 1 |
| 5260-5320 | 802.11a | 15.49 | 2 | 20 | 0.011 | 1 |
| | 802.11n (20MHz) | 13.36 | 5.01 | 20 | 0.014 | 1 |
| | 802.11n (40MHz) | 13.45 | 5.01 | 20 | 0.014 | 1 |
| 5500-5700 | 802.11a | 15.27 | 2 | 20 | 0.011 | 1 |
| | 802.11n (20MHz) | 13.86 | 5.01 | 20 | 0.015 | 1 |
| | 802.11n (40MHz) | 13.37 | 5.01 | 20 | 0.014 | 1 |
| 5745-5825 | 802.11a | 15.30 | 2 | 20 | 0.011 | 1 |
| | 802.11n (20MHz) | 13.97 | 5.01 | 20 | 0.016 | 1 |
| | 802.11n (40MHz) | 13.36 | 5.01 | 20 | 0.014 | 1 |

NOTE:
802.11n(20MHz)/ 802.11n(40MHz): Directional gain = 2dBi + 10log(2) = 5.01dBi

**--- END ---**