

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

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

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Table of Contents

Release Control Record	3
1 Certificate of Conformity	4
2 RF Exposure	5
2.1 Limits For Maximum Permissible Exposure (MPE).....	5
2.2 MPE Calculation Formula	5
2.3 Classification	5
3 Calculation Result Of Maximum Conducted Power	6



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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)

KDB 447498 D03

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

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

where

Pd = power density in mW/cm²

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

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