



# RF EXPOSURE REPORT

**REPORT NO.:** SA130510C19A R1

**MODEL NO.:** CO3L

**FCC ID:** RM4-CO3L

**RECEIVED:** Aug. 13, 2013

**ISSUED:** Sep. 24, 2013

**APPLICANT:** Corin LLC

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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
SA130510C19A	Original release	Aug. 15, 2013
SA130510C19A R1	Revise section 2.4	Sep. 24, 2013

## 1. CERTIFICATION

**PRODUCT:** LTE Data Module

**MODEL:** CO3L

**BRAND:** Corin LLC

**APPLICANT:** Corin LLC

**TEST SAMPLE:** ENGINEERING SAMPLE

**STANDARDS:** FCC Part 2 (Section 2.1091)

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

**IEEE C95.1**

The above equipment (Model: CO3L) 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.

**APPROVED BY** :  , **DATE** : Sep. 24, 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)
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

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

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	GPRS10	33.0	27.0	2	794.33	0.158	0.55

Frequency Band (MHz)	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	E.I.R.P. (mW)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
WCDMA Band V	24.0	2	398.11	0.079	0.55
LTE Band 7	24.5	2	446.68	0.089	1.00