

## RF Exposure Report

**Report No.:** SA180301C45A

**FCC ID:** 2AAGMVZM20Q

**Test Model:** VZM20Q

**Received Date:** Apr. 10, 2018

**Date of Evaluation:** Apr. 11, 2018

**Issued Date:** Apr. 12, 2018

**Applicant:** SEQUANS Communications SA

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

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R.O.C.

**Test Location:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City  
33383, Taiwan (R.O.C)

**FCC Registration /  
Designation Number:** 788550 / TW0003



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### Release Control Record

Issue No.	Description	Date Issued
SA180301C45A	Original Release	Apr. 12, 2018

## 1 Certificate of Conformity

**Product:** VZM20Q EZlinkLTE modules

**Brand:** SEQUANS

**Test Model:** VZM20Q

**Sample Status:** MP

**Applicant:** SEQUANS Communications SA

**Date of Evaluation:** Apr. 11, 2018

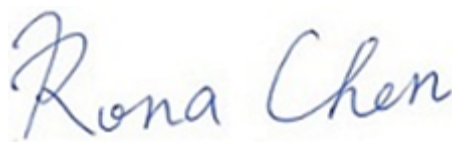
**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

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:**

Apr. 12, 2018

Rona Chen / Specialist

**Approved by :**



**Date:**

Apr. 12, 2018

Dylan Chiou / 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 <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

f = Frequency in MHz ; \*Plane-wave equivalent power density

### 2.2 MPE Calculation Formula

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

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 Antenna Gain

Antenna Type	Manufacturer	Parts Number	Antenna Gain (dBi)	
			LTE Band 4	LTE Band 13
Dipole	Taoglas	TG.30.8113	3	3

## 2.5 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
LTE Band 4 (1712.5 ~ 1752.5 MHz)	24.0	251.189	3	20	0.100	1.0
LTE Band 13 (779.5 ~ 784.5 MHz)	24.0	251.189	3	20	0.100	0.520

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