

RF Exposure Report

Report No.: SA180521C04C

FCC ID: 2AAGMGM01QA

Test Model: GM01Q

Received Date: Mar. 08, 2019

Date of Evaluation: May 21, 2019

Issued Date: Jun. 03, 2019

Applicant: Sequans Communications

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

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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
SA180521C04C	Original Release	Jun. 03, 2019

1 Certificate of Conformity

Product: GM01Q-STMOD Cellular Expansion Board

Brand: SEQUANS COMMUNICATIONS

Test Model: GM01Q

Sample Status: Mass Production

Applicant: Sequans Communications

Date of Evaluation: May 21, 2019

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 RF characteristics under the conditions specified in this report.

Prepared by :



Date:

Jun. 03, 2019

Ivonne Wu / Supervisor

Approved by :



Date:

Jun. 03, 2019

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 ²)	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 ²)*	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/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
LTE 2	1850-1910	23.15	2.65	20	0.076	1.00
LTE 4	1710-1755	23.07	2.95	20	0.080	1.00
LTE 12	699-716	23.97	1.33	20	0.067	0.47
LTE 13	777-787	23.44	-1.11	20	0.034	0.52

Note:

1. This report is issued as a supplementary report to BV CPS report no.: SA180521C04B. The differences compared with original report are changing model name, antenna traces and antenna gain.

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