

RF Exposure Report

Report No.: SA190805C27

FCC ID: 2ATM8EG25G

Test Model: EG25-G

Received Date: Aug. 05, 2019

Test Date: Aug. 24 ~ Sep. 15, 2019

Issued Date: Sep. 18, 2019

Applicant: HAWKEYE TECH CO LTD

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

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Test Location: B2F., No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan

FCC Registration / 427177 / TW0011

Designation Number:



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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

Release Control Record

Issue No.	Description	Date Issued
SA190805C27	Original release.	Sep. 18, 2019

1 Certificate of Conformity

Product: LTE Module

Brand: Quectel

Test Model: EG25-G

Sample Status: Engineering sample

Applicant: HAWKEYE TECH CO LTD

Test Date: Aug. 24 ~ Sep. 15, 2019

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.3 -2002

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 : Polly Chien , **Date:** Sep. 18, 2019
Polly Chien / Specialist

Approved by : Bruce Chen , **Date:** Sep. 18, 2019
Bruce Chen / Senior 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.

3 Calculation Result of Maximum Conducted Power

WWAN module (Model: EG25-G, FCC ID: 2ATM8EG25G)

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
GSM850	30.72	2	20	0.372	0.55
GSM1900	27.54	3	20	0.225	1
WCDMA Bnad 2	22.14	3	20	0.065	1
WCDMA Bnad 4	19.70	3	20	0.037	0.55
WCDMA Bnad 5	20.25	2	20	0.033	1
LTE Band 2	22.23	3	20	0.066	1
LTE Band 4	20.61	3	20	0.046	1
LTE Band 5	20.78	2	20	0.038	0.55
LTE Band 7	22.46	1.5	20	0.050	1
LTE Band 12	20.14	2	20	0.034	0.47
LTE Band 13	19.13	2	20	0.026	0.52
LTE Band 25	22.11	3	20	0.065	1
LTE Band 26	20.79	2	20	0.038	0.54
LTE Band 38	22.22	1.5	20	0.047	1
LTE Band 41	23.02	1.5	20	0.056	1

Note:

1. The above Max Power is Tune-up Power which client declared.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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