

RF Exposure Report

Report No.: SA180518C15

FCC ID: I4L-BM25SD

Test Model: BM25

Received Date: May 18, 2018

Date of Evaluation: Jul. 16, 2018

Issued Date: Jul. 20, 2018

Applicant: Micro-Star INT'L CO., LTD.

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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
SA180518C15	Original Release	Jul. 20, 2018

1 Certificate of Conformity

Product: 802.11a/b/g/n/ac + BT 4.2 Module

Brand: MSI

Test Model: BM25

Sample Status: Identical Prototype

Applicant: Micro-Star INT'L CO., LTD.

Date of Evaluation: Jul. 16, 2018

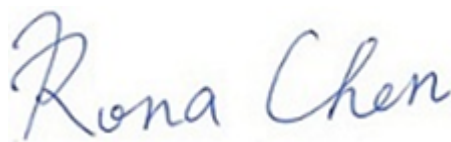
Standards: FCC Part 2 (Section 2.1091)

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 RF characteristics under the conditions specified in this report.

Prepared by :



Date:

Jul. 20, 2018

Rona Chen / Specialist

Approved by :



Date:

Jul. 20, 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 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

$$Pd = (Pout \cdot G) / (4 \cdot \pi \cdot r^2)$$

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**.

2.4 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN 2412-2462	23.44	4.96	20	0.138	1.0
WLAN 5180-5240	17.80	3.20	20	0.025	1.0
WLAN 5260-5320	17.92	3.40	20	0.027	1.0
WLAN 5500-5700	17.83	3.51	20	0.027	1.0
WLAN 5745-5825	17.98	3.03	20	0.025	1.0
Bluetooth EDR 2402-2480	5.86	4.96	20	0.002	1.0
Bluetooth LE 2402-2480	4.78	4.96	20	0.002	1.0

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