

RF Exposure Report

Report No.: SA200325E02A

FCC ID: MAD-G06RRH-46-01B

Test Model: G06RRH-46-01B

Received Date: Mar. 25, 2020

Test Date: July 02, 2020

Issued Date: July 10, 2020

Applicant: Microelectronics Technology Inc.

Address: No. 1, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan,
R.O.C.

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

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
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Release Control Record

Issue No.	Description	Date Issued
SA200325E02A	Original release.	July 10, 2020

1 Certificate of Conformity

Product: 2x40W B71 RRH

Brand: MTI

Test Model: G06RRH-46-01B

Sample Status: ENGINEERING SAMPLE

Applicant: Microelectronics Technology Inc.

Test Date: July 02, 2020

Standards: FCC Part 2 (Section 2.1091)
IEEE C95.3 -2002

References Test Guidance: KDB 447498 D01 General RF Exposure Guidance v06

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 : Joyce Kuo , **Date:** July 10, 2020
Joyce Kuo / Specialist

Approved by : Clark Lin , **Date:** July 10, 2020
Clark Lin / Technical 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 ²)	Average Time (minutes)
(A)Limits For Occupational / Control Exposures				
300-1500	F/300	6
1500-100,000	5	6
(B)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

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

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 1050cm away from the body of the user. So, this device is classified as fixed station and installations by professional service personnel device.

3 Antenna Gain

The antennas provided to the EUT, please refer to the following table:

Antenna Gain (dBi)	Frequency range(MHz)	Antenna Type	Connector Type
18	617-698	Sector	4x4.3-10 Female

4 Calculation Result

For LTE Band 71 data was copied from the original test report (Report No.: SA200325E02)

For LTE Band 71

Frequency Band (MHz)	Conducted Average Power - Per Chain (dBm)		Max Conducted Average Power - Total (dBm)	Antenna Gain (dBi)	Max EIRP Power (dBm)	Max EIRP Power (mW)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
	CHAIN 0	CHAIN 1							
619.5~649.5	46.30	46.19	49.26	18	67.26	5321082.593	1050	0.38407	0.428

EIRP Power = Conducted Power+ Antenna gain

For 5G NR Band n71

Frequency Band (MHz)	Conducted Average Power - Per Chain (dBm)		Max Conducted Average Power - Total (dBm)	Antenna Gain (dBi)	Max EIRP Power (dBm)	Max EIRP Power (mW)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
	CHAIN 0	CHAIN 1							
619.5~649.5	46.23	46.03	49.14	18	67.14	5176068.319	1050	0.37360	0.413

EIRP Power = Conducted Power+ Antenna gain

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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