

# **RF Exposure Report**

Report No.: SA200811C07

FCC ID: BYG-GRM02

Test Model: GRM02

Received Date: Aug. 11, 2020

Test Date: Aug. 25 to 27, 2020

Issued Date: Sep. 1, 2020

Applicant: Sangean Electronics Inc.

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Taiwan

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

Lin Kou Laboratories

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FCC Registration /

Designation Number: 198487 / TW2021





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## **Release Control Record**

Issue No.	Description	Date Issued
SA200811C07	Original release.	Sep. 1, 2020



#### 1 Certificate of Conformity

Product: Job Site Radio

Brand: Makita

Test Model: GRM02

Sample Status: Engineering sample

Applicant: Sangean Electronics Inc.

**Test Date:** Aug. 25 to 27, 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 RF characteristics under the conditions specified in this report.

Prepared by: Vestica Charg , Date: Sep. 1, 2020

Jessica Cheng / Senior Specialist

Approved by: , Date: Sep. 1, 2020

Rex Lai / Associate 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/cm²)	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

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

where

 $Pd = power density in mW/cm^2$ 

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**.

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## 2.4 Calculation Result Of Maximum Conducted Power

Function	Frequency Band (MHz)	Max AV Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
BT EDR	2402-2480	1.56	1.927	20	0.0004	1

#### Note:

- 1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

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