

# **RF Exposure Report**

Report No.: SA181018E12A

FCC ID: BKMFBM359A

Test Model: M359A

Received Date: Apr. 02, 2019

Test Date: June 06, 2019

Issued Date: June 19, 2019

Applicant: Seiko Epson Corporation

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

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Taiwan R.O.C.

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

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FCC Registration / Designation Number:

723255 / TW2022

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# **Release Control Record**

Issue No.	Description	Date Issued
SA181018E12A	Original release.	June 19, 2019

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Report No.: SA181018E12A Reference No.: 190611E03



#### **Certificate of Conformity** 1

Product: OT-WL06

Brand: Epson

Test Model: M359A

Sample Status: ENGINEERING SAMPLE

Applicant: Seiko Epson Corporation

**Test Date:** June 06, 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 EMC characteristics under the conditions specified in this report.

Approved by: June 19, 2019 Date:

May Chen / 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 <sup>2</sup> )	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<sup>2</sup>

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 Antenna Gain

Antenna No.	Antenna Type	Antenna Net. Gain(dBi)	Frequency range (GHz)	Connector Type
		3.26	2.4~2.4835	
	PCB Printed antenna	3.12	5.15~5.25	
1		3.28	5.25~5.35	NA
		3.11	5.47~5.725	
		2.95	5.725~5.85	

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# 2.5 Calculation Result of Maximum Conducted Power

Operation Mode	Evaluation Frequency (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
WLAN 2.4GHz	2437	452.898	3.26	20	0.19087	1
WLAN U-NII-1	5200	129.122	3.12	20	0.05269	1
WLAN U-NII-2A	5270	137.721	3.28	20	0.05831	1
WLAN U-NII-2C	5550	130.918	3.11	20	0.05330	1
WLAN U-NII-3	5755	100.231	2.95	20	0.03933	1

# NOTE:

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

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