	RF Exposure Report
Report No.:	SA190429C10
FCC ID:	M82-WISE2210
Test Model:	WISE-2210
Series Model:	WISE-2211
Received Date:	Apr. 30, 2019
Test Date:	Jun. 07 ~ Jun. 26, 2019
Issued Date:	Jun. 28, 2019
Applicant:	ADVANTECH CO., LTD
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FCC Registration / Designation Number:	788550 / TW0003
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	Testing Laboratory 2021
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Instreports to your exclusive use. Any copying or representation of this report to or tot any other person of entity, or use of our name or indefinite, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or ornission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specification, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification. The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.



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Release Control Record

Issue No.	Description	Date Issued
SA190429C10	Original release	Jun. 28, 2019



1 **Certificate of Conformity**

Product: IoT Wireless Sensor Node

Brand: Advantech

Test Model: WISE-2210

Series Model: WISE-2211

Applicant: ADVANTECH CO., LTD

Test Date: Jun. 07 ~ Jun. 26, 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 / Specialist

Approved by :

Jun. 28, 2019 Date:

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					
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 at

 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

Electric field	Electric field	EIRP Power	Power Density	Limit
(dBuV/m) @3m	(dBuV/m) @0.2m	(dBm)	(mW/cm ²)	(mW/cm ²)
93.8	117.32	-1.431	0.00014	0.601

Note: 93.8+20log(3/0.2) = 117.32dBuV/m

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