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unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that y provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provid 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 ti shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specimention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification. The rep	only with our prior written permission. The report are not indicative or representative unless specifically and expressly noted. provided to us. You have 60 days from however, that such notice shall be in writt shall constitute your unqualified acceptar	his report sets forth our findings solely with respect to the test samples identified herein. The results se re of the quality or characteristics of the lot from which a test sample was taken or any similar or iden Our report includes all of the tests requested by you and the results thereof based upon the informa date of issuance of this report to notify us of any material error or omission caused by our negligence ing and shall specifically address the issue you wish to raise. A failure to raise such issue within the pre- nce of the completeness of this report, the tests conducted and the correctness of the report contents. Ur	et forth in this ntical product ation that you ce, provided, escribed time nless specific



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Release Control Record						
Issue No.	Description				Date Issued	
SA200206E02	Original release.				June 24, 2020	



Certificate of Conformity 1

Product:	Dual-band wireless accessory radio
Brand:	Microsoft
Test Model:	1885
Sample Status:	ENGINEERING SAMPLE
Applicant:	Microsoft Corporation
Test Date:	May 29, 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 :

Claire Kuan / Specialist

______, Date: ______ June 24, 2020

Approved by :

Date: June 24, 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)				
	Limits For General Population / Uncontrolled Exposure							
0.3-1.34	614	1.63	(100)*	30				
1.34-30	824/f	2.19/f	(180/f²)*	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 20 cm away from the body of the user. So, this device is classified as **Mobile Device**.



2.4 Antenna Gain

Antenna No.	Transmitter Circuit	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type	Cable Length
		3.85	2.4 ~ 2.4835GHz	PCB	NA	NA
		5.7	5.15~5.25GHz (5G B1)	PCB	NA	NA
MAIN	0	5.77	5.25~5.35GHz (5G B2)	PCB	NA	NA
		5.52	5.47~5.725GHz (5G B3)	PCB	NA	NA
		5.79	5.725~5.85GHz (5G B4)	PCB	NA	NA
			2.4 ~ 2.4835GHz	PCB	NA	NA
DIV		4.95	5.15~5.25GHz (5G B1)	PCB	NA	NA
	1	5.02	5.25~5.35GHz (5G B2)	PCB	NA	NA
		5.24	5.47~5.725GHz (5G B3)	PCB	NA	NA
		5.39	5.725~5.85GHz (5G B4)	PCB	NA	NA



Operation	Evaluation	Max Power Average		Antenna Gain	Distance	Power	Limit
Mode	Frequency (MHz)	(mW)	dBm	(dBi)	(cm)	Density (mW/cm ²)	(mW/cm ²)
WLAN (2.4GHz)	2412~2462	10.715	10.30	3.85	20	0.00517	1
WLAN (U-NII-1)	5180~5240	10.328	10.14	5.7	20	0.00763	1
WLAN (U-NII-3)	5745~5825	10.495	10.21	5.79	20	0.00792	1

2.5 Calculation Result of Maximum Conducted Power

Note:

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

2. This max average power could cover tune-up power tolerance.

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