		BUREAU VERITAS
	RF Exposure Report	
Report No.:	SA190723E02	
FCC ID:	JNZS00182	
Test Model:	S00182	
Received Date:	July 23, 2019	
Test Date:	Aug. 05, 2019	
Issued Date:	Aug. 20, 2019	
Applicant:	LOGITECH FAR EAST LTD.	
Address:	#2 Creation Rd. 4, Science-Based Ind. Park Hsinchu Taiwan, R.O.C.	
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branc Hsin Chu Laboratory	h
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.	
Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.	
FCC Registration / Designation Number:	723255 / TW2022	
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	Release Control Record					
Issue No.	Description				Date Issued	
SA190723E02	Original release.				Aug. 20, 2019	



1 Certificate of Conformity

Product:	Bluetooth Speaker
Brand:	logitech
Test Model:	S00182
Sample Status:	ENGINEERING SAMPLE
Applicant:	LOGITECH FAR EAST LTD.
Test Date:	Aug. 05, 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.

Prepared by :	Wondy Mu	, Date:	Aug. 20, 2019	
	Wendy Wu / Specialist			
Approved by :	May Chen / Manager	_, Date:	Aug. 20, 2019	



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 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Antenna Gain (dBi)	Antenna Gain (dBi) Frequency range(GHz)		Connector Type	
2.62	2.4~2.4835GHz	printed antenna	NA	



2.5 Calculation Result of Maximum Conducted Power

Operation Mode	Evaluation Frequency (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
Bluetooth (BT-EDR)	2402	2.667	2.62	20	0.00097	1

NOTE:

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

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