



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, 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 unless 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 omission 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 specific mention, 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.



Table of Contents

Relea	Release Control Record			
1	Certificate of Conformity	4		
2	RF Exposure	5		
2.2 2.3	Limits for Maximum Permissible Exposure (MPE) MPE Calculation Formula Classification	5 5		
2.4 2.5	Antenna Gain Calculation Result of Maximum Conducted Power	-		



				VERITAS				
Release Control Record								
Issue No.	Description			Date Issued				
SA190606C07A	Original Release			Apr. 08, 2020				
Report No.: SA190606C0)7A P	age No. 3 / 6	Reno	rt Format Version: 6.1.1				



1 Certificate of Conformity

Product:	Interactive media streaming device			
Test Model:	H2C			
Sample Status:	Production Unit			
Applicant:	Google LLC			
Date of Evaluation:	Apr. 05, 2020			
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.

Lena

Prepared by :

Lena Wang / Specialist

Approved by :

Dylan Chiou / Senior Project Engineer

Apr. 08, 2020

Apr. 08, 2020

Date:

Date:



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)				
Ant. No.	Model	Туре	Connector	2.4~2.4835	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.85
				GHz	GHz	GHz	GHz	GHz
1	N/A	PIFA	N/A	0.79	4.06	3.10	5.15	5.23
2	N/A	PIFA	N/A	1.39	3.00	2.69	5.35	5.29



2.5 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
	2412-2462	18.50	1.39	20	0.019	1.00
	5180-5240	22.00	4.06	20	0.080	1.00
WLAN	5260-5320	23.00	3.10	20	0.081	1.00
	5500-5700	21.50	5.35	20	0.096	1.00
	5745-5825	22.50	5.29	20	0.120	1.00
BT	2402-2480	3.5	1.39	20	0.0006	1.00

Conclusion:

The formula of calculated the MPE is: CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1 CPD = Calculation power density LPD = Limit of power density

WLAN + BT = 0.120 / 1 + 0.0006 / 1 = 0.1206

Therefore the maximum calculations of above situations are less than the "1" limit.

--- END ----