

Report No.: TESA2207000244ES Page: 1 of 6

# **RF EXPOSURE REPORT**



**FCC Applicant:** Wacom Co., Ltd. 2-510-1 Toyonodai, Kazo-shi, Saitama, 349-1148, Japan **Product Name:** Active Pen HP Brand Name: Model No.: G2022P **Report Number:** TESA2207000244ES FCC ID HV4-G2022P Issue Date: Sep. 26, 2022

Approved By

lohn Yeh

### We hereby certify that:

The above equipment was evaluate by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1093.

The results of this report relate only to the sample identified in this report.

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Revision History									
Report Number	Revision	Description	Issue Date	Revised By	Remark				
TESA2207000244ES	00	Original	Sep. 26, 2022	Kimmy Chiou					

Note:

1 . The remark "\*" indicates modification of the report upon requests from certification body.

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# **Table of Contents**

1	DES	CRIPTION OF EQUIPMENT UNDER TEST (EUT)	4
-		Product Description	
		Reference Test Report	
		Antenna Information:	
2	rf EX	<b>KPOSURE EVALUATION FOR PORTABLE CONDITIONS</b>	5
	2.1	SAR-based Exemption	5
		Measurement Result:	

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台灣檢驗溝橡酸科芽聚分布限公布限公(B86-2/8293)3279

f (886-2) 2298-0488 f (886-2) 2298-0488

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#### **DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)** 1

#### 1.1 **Product Description**

Product Name:	Active Pen
Brand Name:	HP
Model No.:	G2022P
Power Supply:	2Vdc

#### 1.2 **Reference Test Report**

Test Lab:	SGS Taiwan Ltd. Central RF Lab				
Report Number:	TERF2207001254ER				

#### 1.3 Antenna Information:

#### 1.3.1 BLE

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	
Chip	Unictron	H2U34C1H1B0100	2.4GHz	2.10	

**Note:** Antenna information is provided by the applicant.

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# 2 RF EXPOSURE EVALUATION FOR PORTABLE CONDITIONS

## 2.1 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater. The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

$$P_{\rm th} (\rm mW) = ERP_{20 \,\rm cm} (\rm mW) = \begin{cases} 2040f & 0.3 \,\rm GHz \le f < 1.5 \,\rm GHz \\ 3060 & 1.5 \,\rm GHz \le f \le 6 \,\rm GHz \end{cases}$$
(B. 1)  
$$P_{\rm th} (\rm mW) = \begin{cases} ERP_{20 \,\rm cm} (d/20 \,\rm cm)^x & d \le 20 \,\rm cm \\ ERP_{20 \,\rm cm} & 20 \,\rm cm < d \le 40 \,\rm cm \end{cases}$$
(B. 2)

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20}\,\mathrm{cm}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

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#### 2.2 **Measurement Result:**

Mode	Frequency (MHz)	Distance (cm)	Max. tune-up power (dBm)	Max. tune-up power (mW)	Peak gain (dBi)	ERP (dBm)	ERP (mW)	x	ERP <sub>20cm</sub> (mW)	Pth (mW)	P or ERP /Pth
BLE	2480	0.5	1	1.259	2.1	0.95	1.245	1.905	3060.00	2.72	0.463

### ~ End of Report ~

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