RF EXPOSURE EVALUATION REPORT

FCC ID	: B94SNPRC2450
Equipment	: 802.11 a/b/g/n/ac/ax WLAN + BLE Radio Module
Brand Name	: HP
Model Name	: SNPRC-2450
Applicant	: HP Singapore (Private) Limited 1 Depot Close, Singapore 109841
Manufacturer	: HP Singapore (Private) Limited 1 Depot Close, Singapore 109841
Standard	: 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.

Approved by: Cona Huang / Deputy Manager

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Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FA491243	Rev. 01	Initial issue of report	Dec. 24, 2024

1. Description of Equipment Under Test (EUT)

Product Feature & Specification	
Equipment	802.11 a/b/g/n/ac/ax WLAN + BLE Radio Module
Brand Name	HP
Model Name	SNPRC-2450
FCC ID	B94SNPRC2450
Wireless Technology and Frequency Range	WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz
Mode	WLAN: 802.11a/b/g/n/ac/ax HT20/VHT20/HE20 Bluetooth LE(125 kbps, 500 kbps, 1Mbps, 2Mbps)

Reviewed by: Jason Wang
Report Producer: Paula Chen

2. Maximum RF average output power among production units

Mode	Maximum Average Power (dBm)
2.4GHz WLAN	18.13
5GHz WLAN	16.59
Bluetooth LE	6.89

3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f2)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) 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

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:
S = Power Density
P = Output Power at Antenna Terminals
G = Gain of Transmit Antenna (linear gain)
R = Distance from Transmitting Antenna

4. Radio Frequency Radiation Exposure Evaluation

Band	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum PG (mW)	Power Density at 20cm (mW/cm^2)	Limit (mW/cm^2)
WLAN2.4GHz Band	3.00	18.13	129.72	0.026	1.000
WLAN5GHz Band	3.80	16.59	109.40	0.022	1.000
Bluetooth LE	3.00	6.89	9.75	0.002	1.000

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.