

RF Exposure Evaluation Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd.

EQUIPMENT: Pencil

BRAND NAME : ONEPLUS

MODEL NAME : OPN2405

FCC ID : 2ABZ2-OPN2405

STANDARD : 47 CFR PART 2.1093

FCC KDB 447498 D01 v06

The product evaluation date was started from Sep. 29, 2024 and completed on Sep. 29, 2024. We, Sporton International Inc. (Shenzhen),, would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1093 and FCC KDB 447498 D01 v06, and pass the limit. Without written approval of Sporton International Inc. (Shenzhen),, the test report shall not be reproduced except in full.

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Approved by: Si Zhang

IAC-MRA

ACCREDICATE

Cert #51

Report No. : FA480202

Sporton International Inc. (Shenzhen)

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People's Republic of China

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Report Version : Rev. 01

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA480202	Rev. 01	Initial issue of report	Oct. 29, 2024

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1. Administration Data

1.1. <u>Testing Laboratory</u>

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

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Testing Laboratory			
Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling People's Republic of Chin TEL: +86-755-86379589 FAX: +86-755-86379595		Xili, Nanshan, Shenzhen, 518055
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR01-SZ	CN1256	421272

Applicant		
Company Name	OnePlus Technology (Shenzhen) Co., Ltd.	
Address	18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China	

Manufacturer		
Company Name	OnePlus Technology (Shenzhen) Co., Ltd.	
	18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China	

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2. Description of Equipment Under Test (EUT)

Product Feature & Specification			
EUT Type	Pencil		
Brand Name	ONEPLUS		
Model Name	OPN2405		
FCC ID	2ABZ2-OPN2405		
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz Specific RF technology: 111 KHz~489 KHz		
Mode	Bluetooth LE Specific RF technology: BPSK		
Antenna Type	Bluetooth : ceramic Antenna		
Antenna Gain	Bluetooth: gain 1.72 dBi		
HW Version	V4.0.9		
SW Version	V0.2		
EUT Stage	Production Unit		

Remark:

- The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. Specific RF technology will be tested and reported separately.

Comments and Explanations:

- The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.
- 2. The maximum RF output tune up power, antenna gain also the safe distance used for evaluate RF exposure were declared by manufacturer.

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3. Maximum RF Tune Up power among production units

<Bluetooth>

Mode	Maximum Average Power (dBm)	
Bluetooth LE	-1.0	

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4. RF Exposure Evaluation

Mode	Maximum Average Power (dBm)
Bluetooth LE	-1.0

Note:

1. Per KDB 447498 D01v06 the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Bluetooth Max Power (dBm)	Separation Distance (mm)	Frequency (GHz)	exclusion thresholds
-1.0	< 5	2.48	0.2

Conclusion:

Per KDB 447498 D01v06, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.2 which is ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, 1-g SAR and extremity SAR testing is not required, and complied with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for 1g SAR and 4.0 W/kg for extremity SAR) specified in FCC 47 CFR part 2 (2.1093).

----THE END-----

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