

RF Exposure Evaluation Report

Product : SUUNTO RUN
Trade mark : SUUNTO
Model/Type reference : OW234
Serial Number : N/A
Report Number : EED32Q80224403
FCC ID : 2BBLIOW234
Date of Issue : Jul. 26, 2024
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091(mobile devices)
47 CFR Part 2.1093(portable devices)
KDB 447498 D01 General RF Exposure Guidance v06
Test result : PASS

Prepared for:

Suunto Sports Technology(Dongguan)Co., Ltd.
Room 108, No. 5, Longxi Road, Nancheng Street, Dongguan City,
Guangdong Province, China

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Zone, Bao'an 70 District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385

Compiled by:

Frazer Li

Frazer Li

Reviewed by:

Tom Chen

Tom Chen

Approved by:

Aaron Ma

Aaron Ma

Date:

Jul. 26, 2024



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2 General Information

2.1 Client Information

Applicant:	Suunto Sports Technology(Dongguan)Co., Ltd.
Address of Applicant:	Room 108, No. 5, Longxi Road, Nancheng Street, Dongguan City, Guangdong Province, China
Manufacturer:	Suunto Sports Technology(Dongguan)Co., Ltd.
Address of Manufacturer:	Room 108, No. 5, Longxi Road, Nancheng Street, Dongguan City, Guangdong Province, China
Factory:	Suunto Sports Technology(Dongguan)Co., Ltd.
Address of Factory:	Room 108, No. 5, Longxi Road, Nancheng Street, Dongguan City, Guangdong Province, China

2.2 General Description of EUT

Product Name:	SUUNTO RUN
Model No.(EUT):	OW234
Trade Mark:	SUUNTO

2.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	
Test Power Grade:	Default (manufacturer declare)	
Test Software of EUT:	BQB.exe (manufacturer declare)	
Antenna Type:	PCB antenna	
Antenna Gain:	-4.74dBi	
Power Supply:	Battery:	DC 3.87V
Test Voltage:	DC 3.87V	
Sample Received Date:	Apr. 26, 2024	
Sample tested Date:	Apr. 26, 2024 to Jul. 26, 2024	
Remark: Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.		

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Standard Requirement

According to KDB 447498 D01 General RF Exposure Guidance v06
Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

3.1.2 Limits

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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \cdot \sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

3.1.3 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.4 EUT RF Exposure Evaluation

Mode	Channel (MHz)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Maximum tune-up power		Calculated value	Exclusion threshold
					(dBm)	(mW)		
BLE 2M	2480	5.47	-4.74	0.73	5.80	3.802	1.1975	3.0
BT DH5	2480	5.76	-4.74	1.02	5.80	3.802	1.1975	3.0
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.								

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 0.5cm;
- ⑥ The test data please refer to the report of EED32Q80224401 and EED32Q80224402, and only the worst case data was recorded in the report.
- ⑦ The maximum tune-up power is 5.80dBm, claimed by client.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***