

FCC Part 1 Subpart I **FCC Part 2 Subpart J INDUSTRY CANADA RSS-102 ISSUE 5**

RF EXPOSURE REPORT

FOR

BLE Wearable Platform

MODEL NUMBER: Currie CRB

FCC ID: 2AB8ZND17 IC: 1000X-ND17

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Revision History

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: INTEL CORPORATION

2200 MISSION COLLEGE BOULEVARD

SANTA CLARA, CA 95052, U.S.A.

EUT DESCRIPTION: BLE Wearable Platform

MODEL: Currie CRB

APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC PART 1 SUBPART I & PART 2 SUBPART J Pass
INDUSTRY CANADA RSS-102 ISSUE 5 Pass

UL Verification Services Inc. calculated the RF Exposure of the above equipment in accordance with the requirements set forth in the above standards, using test results reported in the test report documents referenced below and/or documentation furnished by the applicant. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc., based on interpretations of these calculations. The results show that the equipment is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For UL Verification Services Inc. By:

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UL Verification Services Inc.

2. TEST METHODOLOGY

All calculations were made in accordance with FCC KDB 447498 D01 v06 and IC RSS-102 issue 5.

3. REFERENCES

Output power, Duty cycle and Antenna gain data is excerpted from the applicable test reports or client declarations.

4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0.

5. Device under test

The EUT is a BLE Wearable Platform. As the user to antenna separation distance is unspecified the distance was assumed to be 0mm.

6. STANDALONE SAR TEST EXCLUSION CONSIDERATIONS

6.1. FCC

SAR test exclusion in accordance with KDB 447498.

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)]·[$\sqrt{f(GHz)}$] \leq 3.0, for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

- 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

This test exclusion is applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

SAR Exclusion Calculation Table for Portable Devices (separation distance < 50mm)

Tx	Frequency	Avg Output power		Separation	Calculated
IX	(MHz)	dBm	mW	distances (mm)	Threshold
BLE	2480	3.00	2	0	0.6

Conclusion:

The computed values are < 3; therefore, the device qualifies for Standalone SAR test exclusion.

6.2. INDUSTRY CANADA

The SAR exclusion table from RSS-102 issue 5 is reproduced below:

Table 1: SAR evaluation - exemption limits for routine evaluation based on frequency and separation distance.

	Exemption Limits (mW)					
Frequency MHz	At separation distance of ≤5mm	At separation distance of 10mm	At separation distance of 15mm	At separation distance of 20mm	At separation distance of 25mm	
≤300	71 mW	101 mW	132 mW	162 mW	193 mW	
450	52 mW	70 mW	88 mW	106 mW	123 mW	
835	17 mW	30 mW	42 mW	55 mW	67 mW	
1900	7 mW	10 mW	18 mW	34 mW	60 mW	
2450	4 mW	7 mW	15 mW	30 mW	52 mW	
3500	2 mW	6 mW	16 mW	32 mW	55 mW	
5800	1 mW	6 mW	15 mW	27 mW	41 mW	

	Exemption Limits (mW)					
Frequency MHz	At separation distance of 30mm	At separation distance of 35mm	At separation distance of 40mm	At separation distance of 45mm	At separation distance of ≥50mm	
≤300	223 mW	254 mW	284 mW	315 mW	345 mW	
450	141 mW	159 mW	177 mW	195 mW	213 mW	
835	80 mW	92 mW	105 mW	117 mW	130 mW	
1900	99 mW	153 mW	225 mW	316 mW	431 mW	
2450	83 mW	123 mW	173 mW	235 mW	309 mW	
3500	86 mW	124 mW	170 mW	225 mW	290 mW	
5800	56 mW	71 mW	85 mW	97 mW	106 mW	

Tx	Frequency (MHz)	Maximum Avg Power	Antenna Gain	1.7 dBi
		waxiiiluiii Avg Fowei	(dBm)	(mW)
BLE	2480	Conducted	3	2.00
BLE	2400	E.I.R.P	4.7	2.95

The minimum antenna to user distance that will be encountered in normal use is 0mm. This results in an exemption limit of 4mW at 2450 MHz.

As the maximum output power is 2.0mW conducted and 2.95mW EIRP the DUT qualifies for SAR test exclusion.

END OF REPORT