

Applicant:	4iiii INNOVATIONS INC.
Address:	141 2ND AVE EAST COCHRANE ALBERTA, Zip T4C2B9, Canada
Product name :	PRECISION POWER METER
FCC-ID	ZZNPM101
Model No.:	PML100, 82031, 82032
RF report #	60.790.15.027.02

Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v06 section 4.3.1, For frequencies between 100 MHz to 6GHz and test separation distances ≤ 50 mm, the Numeric threshold is determined as:

Step a)

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

>> The fundamental frequency of the EUT is 2402-2480MHz,
the test separation distance is ≤ 50 mm.
(Manufacturer specified the separation distance is: 20mm)

Step a)

>> Numeric threshold (2402MHz), $\text{mW} / 20\text{mm} \cdot \sqrt{2.402\text{GHz}} \leq 3.0$
Numeric threshold (2402MHz) $\leq 38.713\text{mW}$

>> Numeric threshold (2440MHz), $\text{mW} / 20\text{mm} \cdot \sqrt{2.440\text{GHz}} \leq 3.0$
Numeric threshold (2440MHz) $\leq 38.411\text{mW}$

>> Numeric threshold (2480MHz), $\text{mW} / 20\text{mm} \cdot \sqrt{2.480\text{GHz}} \leq 3.0$
Numeric threshold (2480MHz) $\leq 38.100\text{mW}$

BLE:


>> The power of EUT measured (2402MHz) is: $-0.05\text{dBm} = 0.989\text{mW}$
The power of EUT measured (2440MHz) is: $-0.17\text{dBm} = 0.962\text{mW}$
The power of EUT measured (2480MHz) is: $0.34\text{dBm} = 1.081\text{mW}$
Which is smaller than the Numeric threshold.

ANT+:

>> The power of EUT measured (2457MHz) is: $90.56 \text{ dBuV/m} @ 3\text{m} = -4.67\text{dBm} = 0.341\text{mW}$

Therefore, the device is exempt from stand-alone SAR test requirements.

Reviewed by:



(Applicant's authorized signature and company Chop)

Name: Kipling (Kip) Fyre

Job Title: CEO 4iiii Innovations Inc.

Date: 2017-09-09

Prepared By:



Name : CHAN Kwan Ho Alex

Job Title: EMC Project Engineer

Date: 2017-09-09