



Compliance Engineering Ireland Ltd

Clonross Lane, Derrockstown, Dunshaughlin, Co. Meath

Tel: +353 1 8256722 Fax: +353 1 8256733

Project Number: 13E4897-2b

Prepared for:

**Galvanic Ltd.**

By

Compliance Engineering Ireland Ltd

Clonross Lane

Derrockstown

Dunshaughlin

Co. Meath

**FCC Site Registration: 92592**

**Industry Canada Assigned Site Code: 8517A-2**

FCC ID: 2ABRHPIIP

IC: 11686A-PIP

**Date**

14<sup>th</sup> April 2014

FCC EQUIPMENT AUTHORISATION

Test Report

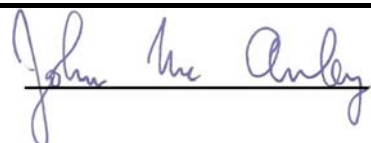
**EUT Description**

Biosensor

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**Authorised :**

**John McAuley**

A handwritten signature in blue ink, reading 'John McAuley', written over a horizontal line.

## **RF Exposure Exhibit– Technical Report**

### **Applicant Name and Address**

The system covered under this authorisation report was designed, manufactured and assembled by Galvanic Ltd . The company's full name and mailing address is given below:

Galvanic Ltd.  
One Gateway,  
East Wall Road  
Dublin 3, Ireland

### **Model Name**

The model number for the EUT covered under this application report is:

PIP

## 2.0 SAR Evaluation

### Excerpt from 447498 KDB

#### Section 4.3.1 Standalone SAR Test exclusion considerations

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances*  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR,<sup>24</sup>

The test exclusions are 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  $< 5$  mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

#### Calculation = $[P/D] \cdot [\sqrt{f(\text{GHz})}]$

where:

- $f_{\text{(GHz)}}$  is the RF channel transmit frequency in GHz
- P = max power of channel including tuneup tolerance mW
- D = min separation distance mm
- Power and distance are rounded to the nearest mW and mm before calculation<sup>25</sup>
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

#### Based on a Conducted measurement with max antenna gain of 0.5 dBi

Prediction frequency:	f	2.48	GHz
Maximum power of channel :	P	7.0	mW
Minimum separation distance:	D	5	mm
Calculation		2.1	
Numeric Threshold for 10g SAR		7.5	
SAR Test not required			
Estimated SAR Value	$[2.1/7.5] \cdot 0.4$	0.111	W/Kg