RF Exposure Report

Project Number: 4104971

Report Number: 4104971EMC02 **Revision Level:** 0

Client: Tier One, Inc.

Equipment Under Test: GEN4 Glock Sensor

Model Number: BA10232

Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498
FCC OET Bulletin 65 Supplement

Report issued on: 10 March 2017

Test Result: Compliant

Remarks:
This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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1 General Information

1.1 *Client Information*

Name:	Tier One, Inc.
Address:	1111 Alderman Drive
City, State, Zip, Country:	Alpharetta, GA 30005, USA

1.2 *Test Laboratory*

Name:	SGS North America, Inc.
Address:	620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country:	Suwanee, GA 30024, USA
Accrediting Body:	A2LA
Type of lab:	Testing Laboratory
Certificate Number:	3212.01

1.3 *General Information of EUT*

Type of Product:	GEN4 Glock Sensor
Model Number:	BA10232
Serial Number:	Not labeled
Frequency Range:	2402-2480MHz
Data Modes:	Bluetooth Low Energy
Antenna:	PCB Trace Antenna (~-8dB)
Rated Voltage:	3Vdc Internal Battery
Test Voltage:	3Vdc Internal Battery
Sample Received Date:	15 February 2017
Dates of testing:	24 February – 02 March 2017

1.4 *Operating Modes and Conditions*

For this assessment, the EUT's maximum measured power was considered.

2 RF Exposure

2.1 *Test Result*

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

2.2 *Test Method*

Using the maximum conducted power, the power density was calculated. The antenna gain was derived from the conducted power measurements and radiated EIRP measurements. Based on EIRP measurements, the antenna gain was less than 0dBi. For the calculations, this value was used as worst-case.

2.3 *Single transmission RF Exposure Levels*

Band of Operation		Conducted Power w/tolerance	Antenna Gain	Cable Loss	Average EIRP		Distance (R)	Power Density $EIRP_{Avg}/(4\pi R^2)$	FCC	% of Limit	Verdict
Type	MHz	dBm			dBm	mW	cm	mW	mW/cm^2		
Bluetooth	2400-2483.5	-1.7	0.0	0.0	-1.7	1	1	0.054	1.00	5%	Pass

1cm was chosen as a worst-case separation distance. This device is not intended for body-worn applications.

3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	10 March 2017