TIMCO ENGINEERING, Inc.
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RF Exposure Evaluation Report

APPLICANT	NEW POTATO TECHNOLOGIES INC.
	5508 BUSINESS DR WILMINGTON NC 28405 USA
FCC ID	UIVMZA01
MODEL NUMBER	MZA01
PRODUCT DESCRIPTION	AUDIO AMPLIFIER W/BT LE CONTROL
STANDARD APPLIED	CFR 47 Part 2.1091
PREPARED BY	Tim Royer

We, TIMCO ENGINEERING, INC. would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and meets the requirements.

GENERAL REMARKS

Attestations

This equipment has been evaluated in accordance with the standards identified in this report. To the best of my knowledge and belief, these evaluations were performed using the procedures described in this report.

I attest that the necessary evaluations were made, under my supervision, at:

Timco Engineering Inc.
849 NW State Road 45
Newberry, FL 32669

Authorized Signatory Name:

Tim Royer, Engineer

Date: 11/6/2017

RF Exposure Requirements

General information

Device type: AUDIO AMPLIFIER W/BT LE CONTROL

Antenna

Configuration	Antenna p/n	Type	Max. Gain (dBi)
Fixed mounted	Any	omni	0
Integral	Any		-10dBi

MPE Calculation:

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power density: } P_d(mW/cm^2) = \frac{E^2}{3770}$$

The limit for general uncontrolled exposure environment is shown in FCC rule Part 1.11310, Table 1.

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Minimum Separation Distance for Mobile or Fixed Devices
General Population/Uncontrolled Exposure

Insert values in yellow highlighted boxes to determine Minimum Separation Distance

Max Power	0.00009	W	*equals*	Max Power	0.09	mW
Duty Cycle	100	%	*equals*	Duty Factor	1	numeric
Antenna Gain	10	dBi	*equals*	Gain numeric	10	numeric
Coax Loss	0	dB		Gain - Coax Los	10	numeric
Power Density	1	mW/cm^2				

Enter power Density from the chart to the right

Frequency 2462 MHz

Rule Part 1.1310, Table 1 (B)

Frequency rang	Power den	Enter this value
MHz	**mW/cm^2**	**mW/cm^2**
0.3-1.34	100	**100**
1.34-30	$180/f^2$	**0.0**
30-300	0.2	**0.2**
300-1,500	f/1500	**1.6**
1,500-100,000	1	**1**

f = frequency in MHz

Minimum Separation Distance	**0 cm**	**0.00 m**

Minimum Seperation in Inches 0.105281 Inches

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Report: 1619AUT17 RF Exp MPE Rp.DOCX