



# Test Report - RF Exposure Evaluation Report for SAR Exclusion

Prepared For: TIDI Products, LLC.

Approved for Release By:

Signature: Bruno Clavier

Name & Title: Bruno Clavier, General Manager

Date of Signature

(YYYY-MM-DD): 2021-08-05

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Timco Engineering, Inc., an IIA Company  
849 NW State Road 45, Newberry, Florida 32669  
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## 1. Customer Information

**Applicant:** TIDI Products, LLC.  
**Address:** 570 Enterprise Drive,  
Neenah, Wisconsin, 54956, US

## 2. Location of Testing

### 2.1 Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at Timco's permanent laboratory located at 849 NW State Road 45, Newberry, Florida 32669

FCC test firm # 578780  
FCC Designation # US1070  
FCC site registration is under A2LA certificate # 0955.01  
ISED Canada test site registration # 2056A  
EU Notified Body # 1177  
For all designations see A2LA scope # 0955.01



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## 2.2 Testing was performed, reviewed by

Dates of Testing: March 25, 2021 – April 14, 2021

Signature:

A handwritten signature of "Terri Allen" in black ink.

Name & Title: Terri Allen, Technical Assistant

Date of Signature

(YYYY-MM-DD): 2021-08-05



Signature:

A handwritten signature of "Tim Royer" in black ink.

Name & Title: Tim Royer, EMC Engineer

Date of Signature

(YYYY-MM-DD): 2021-08-05



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### 3. Test Sample(s) (EUT/DUT)

The test sample was received: March 25, 2021

#### 3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

#### Identification

FCC ID:	2AZB4-8282WL
Brief Description	NCA (SKU 8282WL)
Type of Modular	N/A
Model(s) #	8282WL
Trade name	N/A
Firmware version	N/A
Software version	N/A
Serial Number	N/A

#### Technical Characteristics

Technology	Digital Transmission System
Frequency Range	2400-2483.5 MHz
RF O/P Power (Max.)	0.35 dBm
Modulation	GFSK
Bandwidth & Emission Class	1.06 MHz
Number of Channels	3
Duty Cycle	14%
Antenna Type	Integrated Trace antenna
Antenna Gain (for each ant.)	0 dBi
Antenna Connector	None
Voltage Rating (AC or Batt.)	Battery

#### Antenna Characteristics

Frequency Range	Mode / BW	Ant Gain 1	Ant Gain 2
2400 – 2483.5 MHz	N/A	0 dBi	N/A

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#### 4. SAR EXCLUSION CALCULATION:

#### **SAR EXCLUSION CALCULATION:**

SAR							
Frequency Band	Separation Distance (mm)	Max Power + Tolerance (dBm)	Max Power + Tolerance (mW)	SAR Exclusion Value	Limit for 1-g SAR	Limit for 10-g SAR (Extremeties)	SAR Exclusion
2400-2483.5 MHz	5	0.35	1.08	0.34	3.0	7.5	SAR EXEMPT

**Conclusion: SAR testing is not required.**



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## 5. History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_1405-21_RF Exp SAR Exclusion Rpt	1	Initial release	Aug. 05, 2021



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END OF TEST REPORT

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