F2 Labs
16740 Peters Road
Middlefield, Ohio 44062
United States of America
www.f2labs.com

MPE TEST REPORT

Manufacturer:	**LSI Industries, Inc.** **10000 Alliance Road** **Cincinnati, Ohio 45242 USA**
Applicant:	**Same as Above**
Product Name:	**Stand-alone Bluetooth 5 Low Energy Module**
Model:	**BMD-341**
FCC ID:	**2AWNNBMD341**
Testing Commenced:	2022-03-15
Testing Ended:	2023-01-27
Test Results:	**In Compliance, with Modifications** The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.

Standards:

- **KDB447498**

Evaluation Conducted by:

Julius Chiller, Senior Wireless Project Engineer

Report Reviewed by:

Ken Littell, Vice President of Operations

F2 Labs
26501 Ridge Road
Damascus, MD 20872
Ph 301.253.4500

F2 Labs
16740 Peters Road
Middlefield, OH 44062
Ph 440.632.5541

F2 Labs
8583 Zionsville Road
Indianapolis, IN 46268
Ph 317.610.0611

TABLE OF CONTENTS

1 ADMINISTRATIVE INFORMATION

1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD**.**

1.2 Measurement Procedure:

All measurements were performed according to KDB558074.

1.4 Document History

Document Number	Description	Issue Date	Approved By
F2P26688A-02E	First Issue	2023-03-06	K. Littell

2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device >20cm from Human	KDB447498	Complies

Modifications Made to the Equipment
Power setting reduced to "0" due to 2nd Harmonic Level.

3 ENGINEERING STATEMENT

This report has been prepared on behalf of LSI Industries, Inc., to provide documentation for the testing described herein. This equipment has been tested and found to comply with KDB447498. The test results found in this test report relate only to the item(s) tested.

4 EUT INFORMATION AND DATA

4.1 Equipment Under Test:

Product: **Stand-alone Bluetooth 5 Low Energy**
Model: BMD-341
Serial No.: 408730
FCC ID: **2AWNNBMD341**1

4.2 Trade Name:

LSI Industries, Inc.

4.3 Power Supply:

USB

4.4 Applicable Rules:

KDB447498

4.5 Equipment Category:

Radio Module-DTS

4.6 Antenna:

Monopole, -2.5 dBi Gain

4.7 Accessories:

Device	Manufacturer	Model Number	Serial Number
Antenna	IPEX	Custom	None

5. RF EXPOSURE FOR DEVICE >20cm FROM HUMAN

5.1 Requirements: **Distance used is 20cm**

Limit: $1mW/cm^2$

Formula used for result:

$$\frac{E.I.R.P.}{4 \pi R^2}$$

Results: E.I.R.P. = 1.91 mW

1.91 mW at the 2440 MHz Mid Channel,
which is the highest.

$$\frac{1.91\ mW}{4 \pi R^2} = \frac{1.91\ mW}{5026.55} = 0.00038\ mW/cm2$$