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SAR EXCLUSION REPORT

Manufacturer: Prentke Romich Company dba PRC-Salttillo
1022 Heyl Road
Wooster, Ohio 44691 USA

Applicant: Same as Above

Product Name: Bluetooth Low Energy Wireless Radio Module

Product Description: Transceiver Module

Model(s): BGM220P22A

FCC ID: 2AD9P-GM220P

Testing Commenced: 2022-10-05

Testing Ended: 2022-10-05

Test Results: In Compliance

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:

- **KDB 447498 D04 v00 Interim guidance**
- **FCC Rule Part 1.1307(b)(3)(i)(a)**



Order Number: F2P28508B

Applicant: Prentke Romich Company dba PRC-Salttillo
Model: BGM220P22A

Evaluation Conducted by:

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Report Reviewed by:

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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 FCC rules and KDB558074.

1.4 Document History

Document Number	Description	Issue Date	Approved By
F2P28508B-01E	First Issue	2022-10-12	K. Littell



2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device <20cm from Human	KDB 447498 D04 v00 Interim guidance FCC Rule Part 1.1307(b)(3)(i)(a)	Complies

Modifications Made to the Equipment
None



3 ENGINEERING STATEMENT

This report has been prepared on behalf of Prentke Romich Company dba PRC-Salttillo, to provide documentation for the testing described herein. This equipment has been tested and found to comply with the SAR Exclusion levels listed in FCC Rule Part 1.1307(b)(3)(i)(a) and KDB 447498 D04 v00 Interim guidance.



4 EUT INFORMATION AND DATA

4.1 Equipment Under Test:

Product: Bluetooth Low Energy Wireless Radio Module

Model: BGM220P22A

Serial No.: 100

Firmware: 1.10.2

Hardware: 020-200011

2224A02FZT

FCC ID: 2AD9P-GM220P

4.2 Trade Name:

Prentke Romich Company dba PRC-Salttillo

4.3 Power Supply:

GlobTek - Model GTM96605-G2A1-R2 and Serial Number - 111557139/20

4.4 Applicable Rules:

KDB 447498 D04 v00 Interim guidance

FCC Rule Part 1.1307(b)(3)(i)(a)

4.5 Antenna:

Category	Type	Gain	Manufacturer	Model Number
Bluetooth	Integral	1.86	AMOTECH Co., Ltd.	AMAN301512ST01

4.6 Accessories:

Device	Manufacturer	Model Number	Serial Number
Laptop	Dell	None Specified	None Specified
UART Interface	None Specified	None Specified	None Specified



5 RF EXPOSURE FOR DEVICE <20cm FROM HUMAN

5.1 Requirements:

Distance Used: 5mm

Limit: 4.3mW

Formula Used for Results: Results taken from the reduced power, and new power measurements recorded with power settings reduced.

The minimum distance from the antenna used with the BGM220P22A is 5mm. The maximum Output Power of the transmitter was 3.72dBm Conducted, and the antenna gain was 1.86 dBi. The max EIRP is 5.58dBm, which is 3.61mW on the high channel 2480 MHz and is below the exemption limit of 4.3mW.