

TEST REPORT

Applicant Name: mui Lab, Inc.
Address: 295-1 Tawaraya-Cho, Nakagyo-Ku, Kyoto, 604-0966, Japan
Report Number: 2504X19092E-EM-00
FCC ID: 2BM25-M2A1

Test Standard (s)

47 CFR §2.1091

Sample Description

Product Name: mui Board
Model No.: M2A1
Trade Mark: mui Lab Inc
Received Date: 2025-11-12
Report Date: 2026-09-09

Test Result:	The EUT complied with the standards above.
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Prepared and Checked By:

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504X19092E-EM-00	Original Report	2026-09-09

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	mui Board
Tested Model	M2A1
Voltage Range [#]	DC 12V from adapter
Adapter Information [#]	Model: CGSW48C-120-3000II Input: 100-240V~ 50/60Hz 1.3A Output: 12.0V ---3.0A 36.0W
Note: The EUT comes with an extension cable (1.9m) and an adapter which with DC cable (1.2m) and AC cable (1.8m).	

Frequency Range	BT/BLE: 2402-2480MHz 2.4G Wi-Fi: 2412-2462MHz 5G Wi-Fi: 5180-5825MHz
Maximum Conducted Output Power	BT: 6.5dBm BLE: 4.7dBm 2.4G Wi-Fi: 15.4dBm 5G Wi-Fi: 18.2dBm (Note: The power from the FCC ID: 2ABCB-RPIRM0 [#] .)
Antenna Specification [#]	2.4G Antenna, Gain: -1.11 dBi 5G Antenna, Gain: -0.72 dBi (Note: The gain is provided by applicant)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 2-Subpart J, Radiofrequency Radiation Exposure of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with 47 CFR §2.1091 rules.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen, Guangming) to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

MPE Calculated Formulary:

- Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Calculated Result

Worst case

Radio	Frequency (MHz)	Maximum Conducted Output Power ^{note 1} (dBm)	Antenna Gain [#] (dBi)	EIRP		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
				(dBm)	(mW)			
BT	2402-2480	6.5	-1.11	5.39	3.50	20	0.0006	1.0
BLE	2402-2480	4.7	-1.11	3.59	2.29	20	0.0004	1.0
2.4G wifi	2412-2462	15.4	-1.11	14.29	26.85	20	0.005	1.0
5G wifi	5180-5825	18.2	-0.72	17.48	55.98	20	0.011	1.0

Note 1: The maximum conducted output power is from the FCC ID: 2ABCB-RPIRM0[#].

Note 2: The antenna gain is provided by applicant

Note 3: EIRP= maximum conducted output power + antenna gain

Note 4: The Bluetooth and WIFI can't transmission simultaneously.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2504X19092E-EM EUT External Photos and Attachment No.2 2504X19092E-EM EUT Internal Photos.

******* END OF REPORT *******