

RF EXPOSURE EXEMPT REPORT

APPLICANT	: M-Edge Internaonal
PRODUCT NAME	: onn. Item Locator
MODEL NAME	: Locator
BRAND NAME	onn.
FCC ID	: 2A4CMMEDGE01
STANDARD(S)	: FCC 47CFR Part 2(2.1093)
RECEIPT DATE	: 2022-01-14
TEST DATE	: 2022-01-17 to 2022-01-22
ISSUE DATE	: 2022-01-25

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Change History		
Version	Date	Reason for change
1.0	2022-01-25	First edition

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1. Technical Information

Note: Provide by applicant.

1.1 Applicant and Manufacturer Information

Applicant:	M-Edge Internaonal	
Applicant Address:	1334 Ashton Rd Ste Hanover Baltimore, MD 21076, USA	
Manufacturer:	anufacturer: Shenzhen Xinnengda Technology Co., Ltd.	
Manufacturer Address:	No. 19, Tianyang 1st Road, Dongfang Community, Songgang	
Manufacturer Address.	Street, Baoan District, Shenzhen, Guangdong, China	

1.2 Equipment Under Test (EUT) Description

Product Name:	onn. Item Locator
Sample No.:	1#
Hardware Version:	2.0
Software Version:	1.6.6
Equipment Type:	Bluetooth LE
Bluetooth Version:	5.2
Operating Frequency Range:	2402MHz-2480MHz
Modulation Type:	GFSK(1Mbps)
Antenna Type:	PCB Antenna
Antenna Gain:	-3.0dBi



1.3 Applied Reference Documents

Leading reference documents for testing:

		Method	
Identity	Document Title	Determination	
		/Remark	
ECC 47CEB Dort 2(2,1002)	Radio Frequency Radiation Exposure	No deviation	
FCC 47CFR Part 2(2.1093)	Assessment: Portable devices		
KDB 447498 D01v06	General RF Exposure Guidance No deviation		
Note 1: Additions to, deviation, or exclusions from the method shall be judged in the "method			
determination" column of add, deviate or exclude from the specific method shall be explained in			
the "Remark" of the above table.			
Note 2: When the test result is a critical value, we will use the measurement uncertainty give			

the judgment result based on the 95% confidence intervals.





2. Device Category and RF Exposure Limit

Per user manual, this device is a onn. Item Locator. Based on 47CFR 2.1093, this device belongs to portable device category with General Population/Uncontrolled exposure.

Portable Devices:

47CFR 2.1093(b)

For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

General Population/Uncontrolled Exposure:

47CFR 2.1093(d) (2)

Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.





<Bluetooth Output Power>

Mode Channel	Channel	Frequency	Average Power (dBm)
	Channel	(MHz)	GFSK
Blueteeth	CH 00	2402	5.40
Bluetooth LE	CH 19	2440	5.54
	CH 39	2480	5.01
	Tune-up Limit		6.00

Note 1: According to KDB 447498 Section 4.3, SAR test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Note 2: The output power refers to report (Report No.: SZ22010165W01).





4. RF Exposure Evaluation

> Standalone Transmission SAR Evaluation:

- According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation Distances≤ 50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)] ≤ 3.0.
 - f(GHz) is the RF channel transmit frequency in GHz
 - · Power and distance are rounded to the nearest mW and mm before calculation
 - \cdot The result is rounded to one decimal place for comparison
- 2. When the device is used, 5mm as the most conservative minimum test separation distance was used for evaluating.

Cha	nnel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test Distance (mm)	Result	Exclusion Thresholds for 1-g SAR
CH	19	2.440	6.00	3.98	5	1.24	3.0

Note: The conduction power was rounded in mW.

3. When standalone SAR is not required to be measured, per FCC KDB 447498 D01v06 4.3.2), the following equation must be used to estimate the standalone 1g SAR.

Estimated SAR =
$$\frac{\sqrt{f(GHz)}}{7.5} \cdot \frac{\text{Max. power of channel, mW}}{\text{Min. Separation Distance, mm}}$$

Mode	Max. Tune-up	Exposure Position	Head/Body
Mode	Power (dBm)	Test Distance (mm)	5
Bluetooth	6.00	Estimated SAR (W/kg)	0.166

> Simultaneous SAR Evaluation:

This device only incorporates one Bluetooth transmitter, therefore simultaneous SAR evaluation is not required.





Annex A Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.	
	FL.3, Building A, FeiYang Science Park, No.8 LongChang	
Laboratory Address:	Road, Block 67, BaoAn District, ShenZhen, GuangDong	
	Province, P. R. China	
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Facsimile:	+86 755 36698525	

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.	
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Address:	Road, Block 67, BaoAn District, ShenZhen, GuangDong	
	Province, P. R. China	

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.

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