

TEST REPORT

Applicant: MonoLets, Inc.

Address: 701W Evelyn Ave, Suite B, Mountain View, CA

94041 USA

Equipment Type: Bluetooth Shipping Label

Model Name: Shipping Label v5.0

Brand Name: MonoLets

FCC ID: 2BLATMLSHPLBL052503

Test Standard: 47 CFR Part 2.1091 KDB 447498 D04 v01

Test Date: Feb. 13, 2025 - Feb. 28, 2025

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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Xiong Lining Checked by: Xu Rui Approved by: Tolan Tu

(Testing Director)

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Revisions Content

Rev. 01 May. 07, 2025

Initial Issue

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.			
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road			
Address	Nanshan District, Shenzhen, Guangdong Province, P. R. China			
Phone Number	+86 755 6685 0100			

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
	□ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi
	Road, Nanshan District, Shenzhen, Guangdong Province, P. R.
Location	China
Location	☑ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park,
	No. 1008, Songbai Road, Yangguang Community, Xili Sub-district,
	Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation	The laboratory is a testing organization accredited by FCC as a
Certificate	accredited testing laboratory. The designation number is CN1196.



2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	MonoLets, Inc.
Address	701W Evelyn Ave, Suite B, Mountain View, CA 94041 USA

2.2 Manufacturer Information

Manufacturer	MonoLets, Inc.			
Address	701W Evelyn Ave, Suite B, Mountain View, CA 94041 USA			

2.3 Factory Information

Factory	MonoLets, Inc.			
Address	701W Evelyn Ave, Suite B, Mountain View, CA 94041 USA			

2.4 General Description for Equipment under Test (EUT)

EUT Name	Bluetooth Shipping Label				
Model Name Under Test	Shipping Label v5.0				
Series Model Name	N/A				
Description of Model	N/A				
name differentiation	IVA				
Hardware Version	5.0				
Software Version	Test software				
Dimensions (Approx.)	N/A				
Weight (Approx.)	N/A				

2.5 Technical Information

Network and Wireless	Bluetooth (BLE 1M&2M)
connectivity	Bidetootii (BEE Tiviazivi)

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	Bluetooth			
Frequency Range	Bluetooth	2402 ~ 2480 MHz		
Antenna Type	Bluetooth Dipole Antenna			
Exposure Category	General Population/Uncontrolled Exposure			
Product Type	Mobile Device			

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3 SUMMARY OF TEST RESULT

3.1 Test Standards

No. Identity		Document Title				
1 47 CFR Part 2.1091 Radio		Radiofrequency radiation exposure evaluation: mobile devices				
2	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01				



4 DEVICE CATEGORY AND LEVELS LIMITS

Mobile Devices:

CFR Title 47 §2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

FCC KDB 447498 D04 General RF Exposure Guidance v01 Limit

Evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP20cm in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{\text{th }}(\text{mW}) = ERP_{20 \text{ cm }}(\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B.1)

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i. e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula (B.2).



$$P_{\text{th}} (\text{mW}) = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^{x} & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(B.2)

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

					Dis	stance	(mm)				
		5	10	15	20	25	30	35	40	45	50
(Z)	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
Frequency	1900	3	12	26	44	66	92	122	157	195	236
edn	2450	3	10	22	38	59	83	111	143	179	219
Fr	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

According with FCC KDB 447498 D04, Appendix A, Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

When maximum available power each individual transmitting antenna within the same time averaging period is ≤ 1 mW, and the nearest parts of the antenna structures of the simultaneously operating transmitters are separated by at least 2 cm.

When the aggregate maximum available power of all transmitting antennas is ≤ 1 mW in the same time-averaging period.

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5 ASSESSMENT RESULT

5.1 Output Power

Bluetooth						
Mode	BLE 1M	BLE 2M				
Conducted Power (dBm)	2.32	2.27				
Antenna Gain (dBi)	0.50	0.50				
EIRP (dBm)	2.82	2.77				

Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-SH2520088-601 for more details.

5.2 Tune-up power

Mode	Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)	
Bluetooth	[1.00,3.00]	【1.50,3.50】	[-0.65,1.35]	

Note1: ERP= EIRP -2.15dB.

Note2: According KDB 447498 D04, used the greater of maximum conducted power and ERP to compare with the threshold value Pth.

5.3 RF Exposure Evaluation Result

Evolution mode f(M	f(MHz)	Distance	Maximum	Maximum	Threshold Power (mW)	Verdict
	1(1VII 1Z)	(cm)	power (dBm)	power (mw)	Tilleshold Fower (IIIVV)	
Bluetooth	2402	20	3.00	2.00	3060.00	Pass

5.4 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.



Statement

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