

Test Report No:
24B0982R-RFUSV17S-A

RF EXPOSURE EVALUATION DECLARATION

Product Name	bike rear light	
Brand Name	LEZYNE	
Model No.	RADAR DRIVE REAR	
FCC ID	2AD4S-1LED43R	
Applicant's Name / Address	Lezyne USA, Inc. No.162, Shigu Lane, Guozhong Road, Dali District, Taichung City 412, Taiwan (R.O.C.)	
Manufacturer's Name / Address	Lezyne USA, Inc. No.162, Shigu Lane, Guozhong Road, Dali District, Taichung City 412, Taiwan (R.O.C.)	
Test Method Requested, Standard	KDB 447498 D01 v06 ☐ Minimum test separation distance ≥ 20 cm ☒ For low power devices	
Verdict Summary	IN COMPLIANCE	
Documented by	 Jennie She	
Approved By	 Rueyyan Lin	
Date of Receipt	Nov. 28, 2024	
Date of Issue	May 20, 2026	
Report Version	V1.0	

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	May. 7, 2025

1. General Information

1.1. EUT Description

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
Bluetooth LE	2400 ~ 2483.5	2402 ~ 2480	GFSK
Ant+	2400 ~ 2483.5	2457	GFSK
Radar	24000~24250	24205	FMCW

Note: The above EUT information is declared by the manufacturer.

1.2. Testing Location Information

Testing Location Information		
Test Laboratory : DEKRA Testing and Certification Co., Ltd.		
1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC.	
2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC.	
Test site number for address 1 includes HC-SR02 and HC-CB10. Test site number for address 2 includes HC-CB02, HC-CB04, HC-SR10 and HC-SR12.		

2. RF Exposure Evaluation

2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to 1.1307(b)(3)(i)(A): Available maximum time-averaged power is < 1 mW for 24GHz Radar

2.2. Test Result of RF Exposure Evaluation

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 (Power(mW)/separation (mm)*sqrt(f(GHz)≤3.0), SAR is required as shown in the table below where calculated values are greater than 3.0:

1.) Operation frequency = 2450MHz and antenna separation distance = 25mm, SAR Test Exclusion Threshold = 48mW

Evaluation Mode	Output power		SAR Test Exclusion Threshold (mW)	Calculated Threshold Value (≤3.0 SAR is not required)
	E.I.R.P (dBm)	E.I.R.P (mW)		
Bluetooth LE	7.09	5.117	48	0.317
Ant+	-5.63	0.274	48	0.017

Evaluation Mode	Output power		MPE Exemption (mW)
	E.I.R.P (dBm)	E.I.R.P (mW)	
Radar	-12.88	0.052	1

Co-location
Conclusion: The formula of calculated the Exposure is: CPD1 / LPD1 + CPD2 / LPD2 + ...etc. < 1 CPD = Calculation power density LPD = Limit of power density BLE + 24G Radar=0.107+0.052=0.159 ANT+ + 24G Radar=0.006+0.052=0.058 therefore the maximum calculations of above situations are less than the "1" limit.

Note:

1. No RF Exposure evaluation required since maximum Transmitter Pout (both conducted and EIRP) is below exclusion threshold.
2. The SAR/MPE measurement is not necessary.
3. The results are based on the maximum power.