

SAR Exemption Evaluation Report

Applicant Zhongshan Polono Electronic Technology Co., Ltd.
FCC ID 2BQIW-P24
Product Label Printer
Model P24
Report No. EFTA26040362-IE-03-S1
Issue Date June 9, 2026

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **KDB 447498 D01 General RF Exposure Guidance v06**. The test results show that the equipment tested can demonstrate compliance with the requirements as documented in this report.

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1 Test Laboratory

1.1 Notes of the Test Report

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1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25°C
Relative humidity	Min. = 20%, Max. = 80%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

2 Description of Equipment Under Test

Client Information

Applicant	Zhongshan Polono Electronic Technology Co., Ltd.
Applicant address	No. 132, Tanlong North Road, Tanzhou Town, Zhongshan City, 4th and 5th floors. Building 2, 4th and 5th floors, Building 3, Zhongshan China
Manufacturer	Zhongshan Polono Electronic Technology Co., Ltd.
Manufacturer address	No. 132, Tanlong North Road, Tanzhou Town, Zhongshan City, 4th and 5th floors. Building 2, 4th and 5th floors, Building 3, Zhongshan China

General Technologies

Application Purpose	Original Grant
EUT Stage	Identical Prototype
Model	P24
Lab internal SN	260428-17-001
Hardware Version	V5.0
Software Version	1.0.5
Antenna Type	Internal Antenna
Date of Testing	April 30, 2026 ~ May 7, 2026
Date of Sample Received	April 30, 2026
Note: The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.	

Wireless Technology and Frequency Range

Wireless Technology		Modulation	Operating Mode	Tx (MHz)
Bluetooth	2.4G	Bluetooth V5.1 + BR + EDR + BLE		2402 ~2480

3 Evaluation Standard

KDB 447498 D01 General RF Exposure Guidance v06

4 Maximum Tune up Tolerance and Output Power

BT	Conducted Power(dBm) Channel / Frequency (MHz)			Tune-up (dBm)
	Ch 0/2402 MHz	Ch 39/2441 MHz	Ch 78/2480 MHz	
GFSK	-4.85	-4.02	-3.46	1.00
$\pi/4$ DQPSK	-4.20	-3.33	-2.75	1.00
8DPSK	-3.86	-2.89	-2.43	1.00

Packet Type/ Band	Frequency (MHz)/CH	Average Output Power (dBm)	Maximum Tune Up Tolerance (dBm)
Bluetooth -LE (1Mbps)	2402/CH0	-4.52	1.00
	2440/CH19	-3.64	1.00
	2480/CH39	-3.06	1.00
Bluetooth -LE (2Mbps)	2402/CH0	-4.39	1.00
	2440/CH19	-3.54	1.00
	2480/CH39	-2.96	1.00

5 Standalone SAR Test Exclusion Considerations

Per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Band	Configuration	Frequency (MHz)	Distance (mm)	MAX Tune Up (dBm)	Calculation Value	SAR test exclusion thresholds	Routine Evaluation
Bluetooth	Body SAR	2480	15	1.00	0.40	3.00	No
	Extremity SAR	2480	0	1.00	0.40	7.50	No

Note:

1. As described above, according to KDB 447498 D01, if the calculated result is less than or equal to 3.0 for 1-g SAR and less than or equal to 7.5 for 10-g extremity SAR, the device is exempt from SAR testing.
2. Calculation Value= $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$
3. Based on SAR test exclusion, all values meet the SAR test exclusion thresholds and are exempt from routine evaluation.

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

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