

EMC-TRF-03 Rev 1.1 Report No.: GZCR240700078904

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# RF EXPOSURE EVALUATION REPORT

**Application No.:** GZCR2407000789AT

Applicant: Milwaukee Electric Tool Corporation

**Address of Applicant:** 13135 West Lisbon Road Brookfield Wisconsin 53005 United States

Milwaukee Electric Tool Corporation Manufacturer:

Address of Manufacturer: 13135 West Lisbon Road Brookfield Wisconsin 53005 United States

Shenzhen Dehuida Intelligent Technology Co., Ltd. Factory:

Address of Factory: No. 121, Qiankeng Road, Qiankeng Community, Fucheng Street, Longhua

District, Shenzhen, Guangdong, China

**Product Name:** Bluetooth Jobsite Speaker

Model No.: 2955-20 Milwauke Trade Mark:

KDB447498D01 General RF Exposure Guidance v06 Standard(s):

2024-07-11 **Date of Receipt:** 2024-07-26 **Date of Evaluation:** 2024-07-26 Date of Issue:

Pass\* **Evaluation Result:** 

Jery Chen Jerry Chan Manager



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<sup>\*</sup> In the configuration evaluated, the EUT complied with the standards specified above.



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Revision Record							
Version	Report No.	Date Remark					
01	GZCR240700078904	2024-07-26	Original				

Authorized for issue by:			
	Michael Huang		
	Michael Huang/Project Engineer	-	
	vius cui		
	Vico Cui/Reviewer	-	



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# **Evaluation Summary**

Item	Standard	Method	Requirement	Result
RF Exposure	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 General RF Exposure Guidance v06	Pass

#### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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## **General Information**

#### 4.1 Details of E.U.T.

Power supply: Battery Operation(B/O): DC 12V battery pack Cable(s): Type C output port (DC 5V, 3A for discharging only)

RF Characterize: Please refer to test report GZCR240700078902 for BLE details

Please refer to test report GZCR240700078903 for BLE details

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

## 4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.



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## 4.3 Facility

The facility is recognized, certified, or accredited by the following organizations:

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

## SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

## FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

#### ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

## VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

#### • CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

#### 4.4 Deviation from Standards

None

### 4.5 Abnormalities from Standard Conditions

None



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#### **Technical Requirements Specification** 5

## 5.1 RF Exposure Evaluation

#### 5.1.1 Limit & Test Method

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:

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

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

#### 5.1.2 Conclusion

The BLE and BT function cannot be transmitted simultaneously, so

The Maximum Conducted Peak Output Power is 2.36 dBm in channel 2.402 GHz;

2.36 dBm logarithmic terms convert to numeric result is nearly 1.72 mW

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] General RF Exposure =  $(1.72 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 0.534 \ (1)$ ;

SAR requirement: S = 3.0 (2);

: (1) < (2)

: the SAR report is not required.

Note: Refer to report No. GZCR240700078903 for EUT test Max Conducted Peak Output Power value.



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#### **EUT Constructional Details (EUT Photos)** 6

Refer to External and Internal Photos for GZCR2407000789AT

- End of the Report -



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