

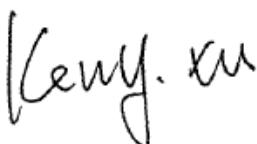
Report No.: SZEM200400289803
Page: 1 of 6

SAR Evaluation Report

Application No.:	SZEM2004002898CR
Applicant:	Kohler Co.
Address of Applicant:	444 Highland Dr. Kohler, WI. 53044, United States
Manufacturer:	Kohler Co.
Address of Manufacturer:	444 Highland Dr. Kohler, WI. 53044, United States
Factory:	<ol style="list-style-type: none">1. Shenzhen 3Nod Digital Technology Co., Ltd.2. Guangxi 3nod Digital Technology Co., Ltd.
Address of Factory:	<ol style="list-style-type: none">1. 4/F., and Section A, 1/F., Workshop 15, Zhongfu Road, Tangxiayong Community, Songang Neighbourhood, Bao'an, Shenzhen, Guangdong, China2. B02 Plant Building, 3Nod Smart Industrial Park, Bei Hai Industrial Park, East Jilin Road, North of Longtoujiang Reservoir, Beihai, Guangxi, China
Equipment Under Test (EUT):	
EUT Name:	Moxie
Model No.:	K-28235-NKE
Trade mark:	KOHLER
FCC ID:	N82-KOHLER043
Standards:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2020-04-22
Date of Test:	2020-04-23 to 2020-05-09
Date of Issue:	2020-06-02

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu
EMC Laboratory Manager



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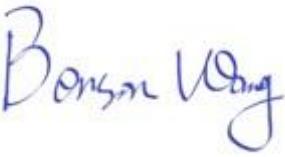
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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Report No.: SZEM200400289803
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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-06-02		Original

Authorized for issue by:			
			
		Benson Wang /Project Engineer	
			
		Eric Fu /Reviewer	

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4 General Information

4.1 General Description of EUT

Power Supply:	Charging base Powered by DC 5V 2A Lithium Ion Battery of Speaker: 3.7V 3800mAh (Charged by charging base)
Cable:	USB cable: 109cm unshielded
For BT:	
Bluetooth Version:	V5.0 Dual mode
Operation Frequency:	2402MHz to 2480MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Antenna Type:	Integral Antenna
Antenna Gain:	1.71dBi
For BLE:	
Bluetooth Version:	V5.0 Dual mode
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	1.71dBi

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4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.3 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.

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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

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:

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

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

5.1.3 EUT RF Exposure

For BT/BLE:

The Max. power (including tune-up tolerance) is 9 dBm on the highest channel 2.48 GHz (*)

9.00 dBm logarithmic terms convert to numeric result is nearly 7.94 mW

According to the formula, calculate the test exclusion thresholds:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$$

$$\text{General RF Exposure} = (7.94 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.48 \text{ GHz}} = 2.50 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

$$(1) < (2)$$

So the SAR report is not required.

- End of the Report -

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