

Quip NYC, Inc. RF Exposure Exhibit

SCOPE OF WORK

EMC TESTING - Toothbrush, Part Numbers: 900-00127, 900-00128 and 900-00129

REPORT NUMBER 104243565MPK-013B

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RF Exposure Exhibit (Portable devices)

Report Number: 104243565MPK-013B Project Number: G104243565

Report Issue Date: June 02, 2020

Product Designation: Toothbrush Part Numbers Tested: 900-00127, 900-00128 and 900-00129

FCC ID: 2AT6D-85000070RA

to

47CFR 2.1093 RSS-102 Issue 5

for

Quip NYC, Inc.

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Report No. 104243565MPK-013B			
Equipment Under Test:	Toothbrush		
Trade Name:	Quip		
Part Numbers:	900-00127 900-00128 900-00129		
Applicant:	Quip NYC, Inc.		
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Applicable Regulation:	47CFR 2.1093 RSS-102 Issue 5		
Date of Test:	May 11 to May 26, 2020		



Issued: June 02, 2020

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1.0 RF Exposure Summary

Test	Reference FCC	Reference Industry Canada	Result
Radio frequency Radiation Exposure Evaluation	47 CFR§2.1093	RSS-102 Issue 5	Complies

2.0 RF Exposure Limits

2.1 FCC Limits

According to FCC KDB 447498 D01 v06 Appendix A, at frequency 2450 MHz and separation distance of \leq 5 mm SAR Exemption limit is \leq 10 mW.

2.2 Industry Canada Limits

According to RSS-102 sec. 2.5.1, at frequency 2450 MHz and separation distance of \leq 5 mm SAR Exemption limit is \leq 4 mW.

3.0 Test Results (Portable Configuration)

3.1 Classification

For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

3.2 EIRP calculations

900-00127, 900-00128 and 900-00129 have identical BLE circuitry. All models consist of Bluetooth Low Energy radio.

3.3 Maximum RF Power

Frequency Range (MHz)	RF Output (dBm)	Antenna Gain ¹ (dBi)	Note
2402-2480	-1.65	0.3	Conducted power measurements were taken from Report # 104243565MPK-013

¹As declared by the manufacturer.

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3.4 **RF Exposure Calculation**

3.4.1 RF Exposure calculation for FCC KDB 447498 D01 v06

According to FCC KDB 447498 D01 v06 Appendix A, at frequency 2450 MHz and separation distance of \leq 5 mm SAR Exemption limit is \leq 10 mW.

Max Peak Conducted Power measured = -1.65 dBm or 0.684 mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is -1.65 dBm (RF Conducted Power) + 0 dBi (Antenna Gain) = -1.65 dBm or 0.684 mW.

Results: SAR evaluation is not required since the higher of the maximum conducted or equivalent isotopically radiated power (EIRP) source-based, time averaged output power is below the exemption limit.

Note: Antenna gains below 0 are considered as 0dBi.

3.4.2 RF Exposure calculation for RSS-102 Issue 5

According to RSS-102 sec. 2.5.1, at frequency 2450 MHz and separation distance of \leq 5 mm SAR Exemption limit is \leq 4 mW.

Max Peak Conducted Power measured = -1.65 dBm or 0.684 mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is -1.65 dBm (RF Conducted Power) + 0 dBi (Antenna Gain) = -1.65 dBm or 0.684 mW

Results: SAR evaluation is not required since the higher of the maximum conducted or equivalent isotopically radiated power (EIRP) source-based, time averaged output power is below the exemption limit.

Note: Antenna gains below 0 are considered as 0dBi.

4.0 Document History

Revision/ Job Number	Writer Initials	Reviewers Initials	Date	Change
1.0/ G104243565	AK	KV	June 02, 2020	Original document