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RF Exposure Evaluation Report

Report No. : CQASZ20200600486E-02
Applicant: SRP COMPANIES
Address of Applicant: 85 RIO GRANDE DRIVE, SECOND FLOOR, CASTLE ROCK, CO 80104, United States
Equipment Under Test (EUT):
EUT Name: WIRELESS SOUND-PODS
Test Model No.: M-67722
Additional Model No.: N/A
Brand Name: N/A
FCC ID: 2ATF51604781
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2020-06-01
Date of Test: 2020-06-01 to 2020-06-04
Date of Issue: 2020-06-04
Test Result : **PASS***

* In the configuration tested, the EUT complied with the standards specified above

Tested By: 

Reviewed By: 

Approved By: 

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20200600486E-02	Rev.01	Initial report	2020-06-04

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3 General Information

3.1 Client Information

Applicant:	SRP COMPANIES
Address of Applicant:	85 RIO GRANDE DRIVE, SECOND FLOOR, CASTLE ROCK, CO 80104, United States
Manufacturer:	SRP COMPANIES
Address of Manufacturer:	85 RIO GRANDE DRIVE, SECOND FLOOR, CASTLE ROCK, CO 80104, United States

3.2 General Description of EUT

Product Name:	WIRELESS SOUND-PODS
Test Model No.:	M-67722
Additional Model No.:	N/A
Trade Mark:	N/A
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	5.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK
Transfer Rate:	1Mbps/2Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Test Software of EUT:	FCC Assist 1.0.1.2 (manufacturer declare)
Antenna Type:	Chip antenna
Antenna Gain:	1.75dBi
Power Supply:	lithium battery:DC3.7V, Charge by DC5.0V

4 SAR Evaluation

4.1 FCC RF Exposure Compliance Requirement

4.1.1 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.

4.1.2 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:

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

- f(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

4.1.3 EUT RF Exposure

Measurement Data

For BT classic:

Test mode : GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-3.22	-3.0	-3.0	0.501	0.155	3.0
Middle (2440MHz)	-2.64	-2.5	-2.5	0.562	0.176	
Highest (2480MHz)	-2.82	-2.5	-2.5	0.562	0.177	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

Test mode : $\pi/4$ DQPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-2.44	-2.0	-2.0	0.631	0.196	3.0
Middle (2440MHz)	-1.95	-1.5	-1.5	0.708	0.221	
Highest (2480MHz)	-2.00	-2.0	-2.0	0.631	0.199	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20200600486E-01