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# RF Exposure Evaluation Report

**Report No.:** CQASZ20211001748E -02  
**Applicant:** MOSWS INTERNATIONAL LIMITED  
**Address of Applicant:** FLAT/RM 07 BLKB 5/F KING YIP FACTORY BUILDING 59 KING YIP STREET KWUN TONG KL

**Equipment Under Test (EUT)**  
**EUT Name:** Wireless bluetooth headset  
**Test Model No.:** EW9  
**Model No.:** EW9  
**Brand Name:** N/A  
**FCC ID:** 2AZ43-EW9  
**Standards:** 47 CFR Part 1.1307  
47 CFR Part 2.1093  
KDB447498D01 General RF Exposure Guidance v06

**Date of Receipt:** 2021-10-12  
**Date of Test:** 2021-10-12 to 2021-10-28  
**Date of Issue:** 2021-11-17  
**Test Result:** **PASS\***

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

**Tested By:** Lewis Zhou

( Lewis Zhou )

**Reviewed By:** Rock Huang

( Rock Huang )

**Approved By:** Jack ai

( Jack ai )



## 1 Version

### Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20211001748E -02	Rev.01	Initial report	2021-11-17

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### 3 General Information

#### 3.1 Client Information

Applicant:	MOSWS INTERNATIONAL LIMITED
Address of Applicant:	FLAT/RM 07 BLKB 5/F KING YIP FACTORY BUILDING 59 KING YIP STREET KWUN TONG KL
Manufacturer:	MOSWS INTERNATIONAL LIMITED
Address of Manufacturer:	FLAT/RM 07 BLKB 5/F KING YIP FACTORY BUILDING 59 KING YIP STREET KWUN TONG KL
Factory:	SHENZHEN CITY ENKOR ELECTRONICS LTD
Address of Factory:	the 2nd&3rd floor, Building P and building Q, Shengguang Ind.park, 152#Donghuan Road, Huangpu Xinqiao street, Bao'an District, Shenzhen, China

#### 3.2 General Description of EUT

Product Name:	Wireless bluetooth headset
Model No.:	EW9
Test Model No	EW9
Trade Mark:	N/A
EUT Supports Radios application:	Bluetooth mode 2402-2480MHz
Hardware Version:	V1.0
Software Version:	V1.0
Sample Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
EUT Power Supply:	Li-ion battery: DC 3.7V, 300mAh 1.11Wh, Charge by DC 5.0V

#### 3.3 General Description of BT

Operation Frequency:	2402MHz~2480MHz	
Bluetooth Version:	V5.1	
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)	
Modulation Type:	GFSK, $\pi/4$ DQPSK	
Number of Channel:	79	
Transfer Rate:	1Mbps/2Mbps	
Hopping Channel Type:	Adaptive Frequency Hopping systems	
Test Software of EUT:	FCC Assist 1.0.2.2	
Antenna Type:	chip antenna	
Antenna Gain:	BT	2.25dBi

## 4 SAR Evaluation

### 4.1 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  $\leq 50$  mm are determined by:

$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm}) \cdot \sqrt{f(\text{GHz})}} \right] \leq 3.0$$
 for 1-g SAR and  $\leq 7.5$  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 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  $\leq 50$  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

#### 1) For BT

#### Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-1.960	-2.0±1	-1.0	0.794
Middle(2441MHz)	-1.170	-1.0±1	0	1.000
Highest(2480MHz)	-0.150	0±1	1.0	1.259
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-1.370	-1.0±1	0	1.000
Middle(2441MHz)	-0.560	-0.5±1	0.5	1.122
Highest(2480MHz)	0.440	0.5±1	1.5	1.413

Worst case: 8DPSK mode						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-1.370	-1.0±1	0	1.000	0.310	3.0
Middle (2441MHz)	-0.560	-0.5±1	0.5	1.122	0.351	
Highest (2480MHz)	0.440	0.5±1	1.5	1.413	0.445	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20211001748E-01