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RF Exposure Evaluation Report

Report No.:	CQASZ20200901116E-02
Applicant:	J&C ELEVEN, LLC
Address of Applicant:	3394 Morelyn Crest Circle, Orlando.
Equipment Under Test (EUT):	
EUT Name:	Bluetooth headset
Model No.:	SKYPLUS S11
Brand Name:	N/A
FCC ID:	2AWZ9-SKYPLUSS11
Standards:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2020-09-25
Date of Test:	2020-09-26 to 2020-10-19
Date of Issue:	2020-10-19
Test Result:	**PASS***

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

Tested By: Tiny You

(Tiny You)

Reviewed By: Sheek Luo

(Sheek Luo)

Approved By:

(Jack Ai)

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20200901116E-02	Rev.01	Initial report	2020-10-19

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3 General Information

3.1 Client Information

Applicant:	J&C ELEVEN, LLC
Address of Applicant:	3394 Morelyn Crest Circle, Orlando.
Manufacturer:	Shenzhen Quality Life Technology Co., Ltd.
Address of Manufacturer:	5/F, Building E, Huachangda Science park, Shuhangcheng Avenue, Baoan District, Shenzhen
Factory:	Shenzhen Quality Life Technology Co., Ltd.
Address of Factory:	5/F, Building E, Huachangda Science park, Shuhangcheng Avenue, Baoan District, Shenzhen

3.2 General Description of EUT

Product Name:	Bluetooth headset
Model No.:	SKYPLUS S11
Trade Mark:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Test Software of EUT:	Blue test (manufacturer declare)
Antenna Type:	Ceramic antenna
Antenna Gain:	0.94dBi
Power Supply:	lithium battery:DC3.7V, Charge by DC5.0V

Note:

Since the RF parameters of the left and right earplugs are the same, only the right ear was tested in this report.

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 ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 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[17]
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

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)	0.490	0.5±1	1.5	1.413
Middle(2441MHz)	1.930	2.0±1	3.0	1.995
Highest(2480MHz)	2.560	2.0±1	3.0	1.995
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	1.190	1.0±1	2.0	1.585
Middle(2441MHz)	2.360	2.5±1	3.5	2.239
Highest(2480MHz)	2.980	2.5±1	3.5	2.239
8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	1.300	1.0±1	2.0	1.585
Middle(2441MHz)	2.460	2.5±1	3.5	2.239
Highest(2480MHz)	3.100	2.5±1	3.5	2.239

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	1.300	1.0±1	2.0	1.585	0.491	3.0
Middle (2441MHz)	2.460	2.5±1	3.5	2.239	0.700	
Highest (2480MHz)	3.100	2.5±1	3.5	2.239	0.705	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20200901116E-02