

ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No. : OT-18O-RWD-006

AGR No. : A188A-354

Applicant : BLUECOM Co., Ltd.

Address : 116, Venture-ro, Yeonsu-gu, Incheon, Korea

Manufacturer : BLUECOM Co., Ltd.

Address : 116, Venture-ro, Yeonsu-gu, Incheon, Korea

Type of Equipment : Bluetooth Headset

FCC ID. : U3WBCSA1

Model Name : BCS-A1

Serial number : N/A

Total page of Report : 7 pages (including this page)

Date of Incoming : August 28, 2018

Date of issue : October 03, 2018

SUMMARY

The equipment complies with the regulation; FCC PART 15 SUBPART C Section 15.247

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

Reviewed by:

Jae-Ho Lee / Chief Engineer ONETECH Corp. Approved by:

Keun-Young, Choi / Vice President

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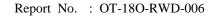
ONETECH Corp.





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Revision History

Rev. No.	Issue Report No.	ue Report No.		Section Affected
0	OT-18O-RWD-006	October 03, 2018	Initial Issue	All

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1. VERIFICATION OF COMPLIANCE

Applicant : BLUECOM Co., Ltd.

Address : 116, Venture-ro, Yeonsu-gu, Incheon, Korea

Contact Person: Ki-eok Park / Principal Engineer

Telephone No. : 82-32-8100-582 FCC ID : U3WBCSA1

Model Name : BCS-A1

Brand Name : Serial Number : N/A

Date : October 03, 2018

EQUIPMENT CLASS	DSS – PART 15 SPREAD SPECTRUM TRANSMITTER
E.U.T. DESCRIPTION	Bluetooth Headset
KIND OD EQUIPMENT	Modular Transmitter
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT	
AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED	EGG DADE 15 GARDADE G.G 15 045
UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247
Modifications on the Equipment to Achieve	New
Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

^{-.} The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

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2. GENERAL INFORMATION

2.1 Product Description

The BLUECOM Co., Ltd., Model BCS-A1 (referred to as the EUT in this report) is a Bluetooth Headset. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	Bluetooth Headset		
Operating Frequency	2 402 MHz ~ 2 480 MHz		
RF Output Power	1 Mbps 3.43 dBm		
	2 Mbps 5.84 dBm		
	3 Mbps 6.40 dBm		
Number of Channel	79 Channels		
Modulation Type	GFSK for 1 Mbps, π/4-DQPSK for 2 Mbps, 8-DPSK for 3Mbps		
Antenna Type	FPCB Antenna		
Antenna Gain	5.07 dBi		
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	40 MHz		
Rated Supply Voltage	DC 3.6 V		

2.2 Alternative type(s)/model(s); also covered by this test report.

-. None

3. EUT MODIFICATIONS

-. None

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4. MAXIMUM PERMISSIBLE EXPOSURE

4.1 EUT Description

Kind of EUT	Bluetooth Headset		
	 □ Wireless Microphone: 494.000 MHz ~ 501.000 MHz and 498.200 MHz ~ 505.200 MHz □ WLAN: 2 412 MHz ~ 2 462 MHz 		
Operating Frequency Band	 □ WLAN: 5 180 MHz ~ 5 240 MHz □ WLAN: 5 745 MHz ~ 5 825 MHz ■ Bluetooth: 2 402 MHz ~ 2 480 MHz □ Bluetooth BLE: 2 402 MHz ~ 2 480 MHz 		
MAX. RF OUTPUT POWER	1 Mbps 3.43 dBm 2 Mbps 5.84 dBm 3 Mbps 6.40 dBm		
Antenna Gain	5.07 dBi		
Exposure Evaluation Applied	 □ MPE □ SAR ■ N/A 		



4.3 Calculated MPE Safe Distance

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is [(Max. Power of channel, including tune-up tolerance, mW)/(Mim. test separation distance, mm)] X [$\sqrt{f(GHz)}$] < 3 = (4.37/5) X $\sqrt{2.402}$ = 1.35

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and are excluded from SAR Test.

	Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
1 Mbps	2 402	2.93 ± 0.5	3.43	2.20	5	0.68
2 Mbps	2 402	5.34 ± 0.5	5.84	3.84	5	1.19
3 Mbps	2 402	5.90 ± 0.5	6.40	4.37	5	1.35

Tested by: Ju Yun Park / Assistant Manager