



RF EVALUATION TEST REPORT

Applicant.....: :Summit Electronics LLC

Manufacturer.....: Summit Electronics LLC

Address...... :1 Rewe Street, Brooklyn, New York, 11211 United States

Factory....: Summit Electronics LLC

Address...... :1 Rewe Street, Brooklyn, New York, 11211 United States

Product Name..... Portable Alarm Clock Wireless Speaker

FCC ID.....2AMSOSTW003

Brand Name.....: :COBY

Model No.: :CCR101

(For addition model and model difference refer to section 2)

Measurement Standard.....: :47 CFR PART 2, Section 2.1091& 2.1093

Receipt Date of Samples.... : November 01, 2022

Date of Tested...... November 01, 2022 to November 05, 2022

Date of Report...... November 10, 2022

This report shows that above equipment is technically compliant with the requirements of the standards above. All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan Nore Testing Center Co., Ltd, this report shall not be reproduced except in full.

Prepared by

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Revision History

Report Number	Description	Issued Date
NTC2211009F01	Initial Issue	2022-11-10





1. General Description of EUT

Product Information						
Product name:	Portable Alarm Clock Wireless Speaker					
Toddot Hame.	Tottable Allami Glock Wireless Opeaker					
Main Model Name:	CCR101					
Additional Model Name:	CCR500, CCR501, CCR502, CCR503, CCR504, CCR505, CCR506, CCR507,					
	CCR508					
Model Difference:	These models have the same circuitry, electrical mechanical, PCB Layout and					
	physical construction. The differences are model number and the shell color due					
	to marketing purpose.					
S/N:	2211-5743					
Brand Name:	COBY					
Hardware version:	DY-Q38-CLK-V2.1					
Software version:	DY-Q38S-CLK-V3.0					
Rating:	DC 5V /500mA from Micro USB port or DC 3.7V from one 18650 Lithium-ion					
	battery					
Typical Arrangement:	Tabletop / Portable					
I/O Port:	Refer to the User's Manual					
Accessories Information						
Adapter:	N/A					
Cable:	USB line: 0.5m unshielded, detachable					
Other:	N/A					
Additional information						
Note:	According to the model differences, all the tests performed on model CCR101.					
Remark:	All the information above are provided by the manufacturer. More detailed feature					
	of the EUT please refers to the user manual.					





Technical Specification	
Bluetooth Version:	V5.0
Frequency Range:	2402-2480MHz
Modulation Type:	GFSK, Π4/-DQPSK
Number of Channel:	79 (refer to following channel list for details)
Channel Space:	1MHz
Antenna Type:	PCB Antenna
Antenna Gain:	-0.58 dBi (Declared by the manufacturer)
Note: The EUT does no	 of support 8DPSK and Bluetooth Low Energy feature in accordance with the declaration

Note: The EUT does not support 8DPSK and Bluetooth Low Energy feature in accordance with the declaration of the manufacturer.





2. Test Facility and Location

Test Site	:	Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)					
Accreditations and	:	The Laboratory has been assessed and proved to be in compliance with					
Authorizations		CNAS/CL01					
		Listed by CNAS, August 13, 2018					
		The Certificate Registration Number is L5795.					
		The Certificate is valid until August 13, 2024					
		The Laboratory has been assessed and proved to be in compliance with					
		SO17025					
		isted by A2LA, November 01, 2017					
		The Certificate Registration Number is 4429.01					
		Listed by FCC, November 06, 2017					
		Test Firm Registration Number: 907417					
		restrimi Negistiation Number. 307417					
		Listed by Industry Canada, June 08, 2017					
		The Certificate Registration Number. Is 46405-9743A					
Test Site Location	:	Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng					
	District, Dongguan City, Guangdong Province, China						





3. Applicable Standards and References

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Test Standards:

47 CFR Part 1, 1.1307 47 CFR Part 2, 2.1091 & 2.1093 KDB 447498 D04 v01



4. Maximum Permissible Exposure Limit

According to 47 CFR Part 1, 1.1307, for single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if: 47 CFR Part 1, 1.1307

- (A) The available maximum time- averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time- averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \; (\text{mW}) = \begin{cases} ERP_{20 \; cm} (d/20 \; \text{cm})^x & d \leq 20 \; \text{cm} \\ \\ ERP_{20 \; cm} & 20 \; \text{cm} < d \leq 40 \; \text{cm} \end{cases}$$

Where.

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$$
 and f is in GHz;

And,

$$\mathit{ERP}_{20\;cm}\;(\mathrm{mW}) = \begin{cases} 2040f & 0.3\;\mathrm{GHz} \leq f < 1.5\;\mathrm{GHz} \\ \\ 3060 & 1.5\;\mathrm{GHz} \leq f \leq 6\;\mathrm{GHz} \end{cases}$$

d = the minimum separation distance (cm) in any direction from any part of the device antenna(s) or radiating structure(s) to the body of the device user.

For multiple RF sources: Multiple RF sources are exempt if:



- (A) The available maximum time- averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters be-tween any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).
- (B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

Where,

a = number of fixed, mobile, or portable RF sources claiming exemption using para-graph (b)(3)(i)(B) of this section for P_{th}, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using para-graph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or port-able RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

 $P_{=}$ the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

 $P_{th,F}$ the exemption threshold power (Pth) ac-cording to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERP= the ERP of fixed, mobile, or portable RF source j.

 $ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph (b)(3)(i)(C) of this section.



 $Evaluated_k$ = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limit_k= either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from §1.1310 of this chapter.





5. RF Exposure Evaluation Results

Single RF Source								
Mode	Frequency (MHz)	Max. Conducted Power (dBm)	Antenna Gain (dBi)	Max. EIRP (dBm)	Max. ERP (dBm)	Max. ERP (mW)	Separation Distance (cm)	Part 1.1307 Option (B) Pth (mW)
	2402	1.678	-0.58	1.098	-1.052	0.78	0.5	2.79
GFSK	2441	0.933	-0.58	0.353	-1.797	0.66	0.5	2.75
	2480	1.563	-0.58	0.983	-1.167	0.76	0.5	2.72
П4/-DQPSK	2402	2.579	-0.58	1.999	-0.151	0.97	0.5	2.79
	2441	1.603	-0.58	1.023	-1.127	0.77	0.5	2.75
	2480	2.193	-0.58	1.613	-0.537	0.88	0.5	2.72

Conclusion:

According to 47 CFR §1.1307 (b)(3)(i)(B), the RF exposure analysis concludes that the product is compliant with the FCC RF exposure requirements in portable exposure condition.