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RF Exposure Evaluation Report

Report No.: CQASZ20230801457E-02
Applicant: Shenzhen Baseus Technology Co., Ltd.
Address of Applicant: 2nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen, China.
Equipment Under Test (EUT):
EUT Name: Digital GaN Intelligent Desktop Fast Charger
Model No.: CCGAN240CS
Test Model No.: CCGAN240CS
Brand Name: baseus
FCC ID: 2A482-CCGAN240CS
Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
447498 D04 Interim General RF Exposure Guidance v01
Date of Receipt: 2023-08-10
Date of Test: 2023-08-10 to 2023-08-25
Date of Issue: 2023-11-09
Test Result: **PASS***

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

Tested By: Lewis Zhou
(Lewis Zhou)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Jack Ai
(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20230801457E-02	Rev.01	Initial report	2023-11-09

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3 General Information

3.1 Client Information

Applicant:	Shenzhen Baseus Technology Co., Ltd.
Address of Applicant:	2 nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen, China.
Manufacturer:	DONGGUAN BAOLAIPO COMMUNICATION TECHNOLOGY CO., LTD
Address of Manufacturer:	No. 11, Vader Road, Hengli Village, HengLi Town, DONGGUAN CITY
Factory:	DONGGUAN BAOLAIPO COMMUNICATION TECHNOLOGY CO., LTD
Address of Factory:	No. 11, Vader Road, Hengli Village, HengLi Town, DONGGUAN CITY

3.2 General Description of EUT

Product Name:	Digital GaN Intelligent Desktop Fast Charger
Model No.:	CCGAN240CS
Test Model No.:	CCGAN240CS
Trade Mark:	baseus
Software Version:	V1.0
Hardware Version:	V1.0
EUT Power Supply:	Power supply AC 120V

3.3 General Description of BLE

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth Spec 5.3
Modulation Type:	GFSK
Number of Channel:	40
Transfer Rate:	1Mbps/2Mbps
Sample Type:	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable
Antenna Type:	PCB antenna
Antenna Gain:	-0.58dBi
Cable loss:	1.0 dB

Note:

The above parameters will directly affect the test results. The information is provided by the applicant.

4 MPE Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator. For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave Dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.1.3 EUT RF Exposure

1) For BLE

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

GFSK mode(1Mbps)					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2402MHz)	-1.04	-3.19	-3.5±1	-2.5	0.56
Middle(2441MHz)	0.55	-1.6	-1.5±1	-0.5	0.89
Highest(2480MHz)	0	-2.15	-2.5±1	-1.5	0.71
GFSK mode(2Mbps)					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2402MHz)	-1.03	-3.18	-3.0±1	-2.0	0.63
Middle(2441MHz)	0.53	-1.62	-1.5±1	-0.5	0.89
Highest(2480MHz)	0.05	-2.1	-2.0±1	-1.0	0.79

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20230801457E-01 for EUT test Max Conducted Peak Output Power value.

2) EUT's module is more than 20cm away from the human body.

*** END OF REPORT ***