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RF Exposure Evaluation Report

Report No.:	CQASZ20260701489E-03
Applicant:	Foshan Borui Yuanda Technology Co., Ltd.
Address of Applicant:	No. 6-4, Xinghe Road, Lianhe Industrial Zone, Luocun, Shishan Town, Nanhai District, Foshan, Guangdong 528200, China
Equipment Under Test (EUT):	
EUT Name:	DAC
Model No.:	SNY-30C
Test Model No.:	SNY-30C
Brand Name:	N/A
FCC ID:	2BW9W-SNY30C
Standards:	47 CFR Part 1.1307 47 CFR Part 1.1310 KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt:	2026-07-07
Date of Test:	2026-07-07 to 2026-08-31
Date of Issue:	2026-9-23
Test Result:	**PASS***

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

Tested By: Azir Wang

(Azir Wang)

Reviewed By: Timo Lei

(Timo Lei)

Approved By:

(Jack Ai)

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20260701489E-03	Rev.01	Initial report	2026-9-23

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3 General Information

3.1 Client Information

Applicant:	Foshan Borui Yuanda Technology Co., Ltd.
Address of Applicant:	No. 6-4, Xinghe Road, Lianhe Industrial Zone, Luocun, Shishan Town, Nanhai District, Foshan, Guangdong 528200, China
Manufacturer:	Foshan Borui Yuanda Technology Co., Ltd.
Address of Manufacturer:	No. 6-4, Xinghe Road, Lianhe Industrial Zone, Luocun, Shishan Town, Nanhai District, Foshan, Guangdong 528200, China
Factory:	Foshan Borui Yuanda Technology Co., Ltd.
Address of Factory:	No. 6-4, Xinghe Road, Lianhe Industrial Zone, Luocun, Shishan Town, Nanhai District, Foshan, Guangdong 528200, China

3.2 General Description of EUT

Product Name:	DAC
Model No.:	SNY-30C
Test Model No.:	SNY-30C
Trade Mark:	N/A
Software Version:	V1.0
Hardware Version:	V1.0
EUT Power Supply:	Power supply AC 120V

3.3 General Description of BT Classic

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth Spec 6.2
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK
Number of Channel:	79
Transfer Rate:	1Mbps
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	☒ Mobile ☐ Portable
Antenna Type:	Rod-shaped Antenna
Antenna Gain:	2dBi

3.4 General Description of BLE

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth Spec 6.2
Modulation Technique:	Non-Frequency Hopping Spread Spectrum(NFHSS)
Modulation Type:	GFSK
Number of Channel:	40
Transfer Rate:	1Mbps/2Mbps
Sample Type:	☒ Mobile ☐ Portable
Antenna Type:	Rod-shaped Antenna
Antenna Gain:	2dBi

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

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f^2)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f^2)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R^2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2 . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

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

Antenna Gain: 2.00dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.58 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	2.32	2.5±1	3.5	2.24
Middle(2440MHz)	2.21	2.5±1	3.5	2.24
Highest(2480MHz)	2.76	3.0±1	4.0	2.51

The worst case:

Maximum tune-up Power (mW)	**Antenna Gain (dBi)**	**Power Density at R = 20 cm (mW/cm^2)**	**Limit**	**Result**
2.51	2.00	0.0007914124	1.0	PASS

Note: 1) Refer to report No. CQASZ20260701489E-01 for EUT test Max Conducted Peak Output Power value.

2) Pd = (Pout*G)/(4* Pi * R2)=(2.51*1.58)/(4*3.1416*20^2)=0.0007914124

2) For BT

Antenna Gain: 2.00dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.58 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	2.24	2.5±1	3.5	2.24
Middle(2440MHz)	2.12	2.5±1	3.5	2.24
Highest(2480MHz)	2.64	3.0±1	4.0	2.51

The worst case:

Maximum tune-up Power (mW)	**Antenna Gain (dBi)**	**Power Density at R = 20 cm (mW/cm^2)**	**Limit**	**Result**
2.51	2.00	0.0007914124	1.0	PASS

Note: 1) Refer to report No. CQASZ20260701489E-02 for EUT test Max Conducted Peak Output Power value.

2) Pd = (Pout*G)/(4* Pi * R2)=(2.51*1.58)/(4*3.1416*20^2)=0.0007914124

*** END OF REPORT ***