

FCC RF Exposure Exemption report

for

Duplex Gym Console

Model No.: ZM12G

FCC ID: QSWZM12

of

Applicant: Zentan Technology Co., Ltd.

**Address: 10F-3, No.260, Sec. 2 New Taipei Blvd., Sanchong Dist.,
New Taipei City 24158, Taiwan (R.O.C.)**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1477, TW1072

Industry Canada filed test laboratory Reg. No.: 20037, 5107A



Report No.: W6M22607-25273-EE

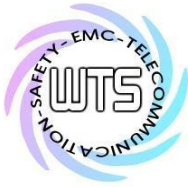
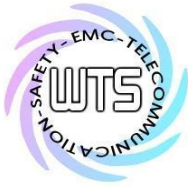


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Worldwide Testing Services(Taiwan) Co., Ltd.

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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

Laboratory disclaimer-

1. The test results of this test report relate exclusively to the item tested as specified in 1.5.
2. The test report may only be reproduced or published in full.
3. Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.
4. Antenna gain is provided by applicant and laboratory issue relevant data and results.

Tester:

August 26, 2026

Sora Kuo

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

August 26, 2026

Kevin Wang

Date

WTS

Name

Signature



Worldwide Testing Services(Taiwan) Co., Ltd.

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1.2 Testing laboratory

1.2.1 Location

10m OATS

No.5-1, Lishui, Shuang Sing Village, Wanli Dist.,
New Taipei City 207, Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No. 99, Sec. 1, Balian Rd., Xizhi Dist.,
New Taipei City 221032, Taiwan (R.O.C.)

Worldwide Testing Services (Taiwan) Co., Ltd.

6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,

Taipei City 114, Taiwan (R.O.C.)

Tel: 886-2-6606-8877

1.2.2 Details of accreditation status

Accredited testing laboratory

FCC filed test laboratory Reg. No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634

Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :

Name: ./.

Accredited no.: ./.

Street: ./.

Town: ./.

Country: ./.

1.3 Application details

Approval holder

Name: Zentan Technology Co., Ltd.

Street: 10F-3, No.260, Sec. 2 New Taipei Blvd., Sanchong Dist.,

Town: New Taipei City 24158,

Country: Taiwan (R.O.C.)

Manufacturer: (if applicable)

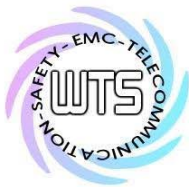
Name: Zentan Technology Co., Ltd.

Street: No. 130-1, Liu'an, Jiali Dist.,

Town: Tainan City 722001,

Country: Taiwan (R.O.C.)

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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22607-25273-EE

FCC ID: QSWZM12

Date of receipt of test item: August 17, 2026

Date of test: from August 18, 2026 to August 24, 2026

1.4 General information of Test item

Type of test item: Duplex Gym Console

Model no.: ZM12G

Multi-listing model no.: ZM12P, ZM12C, ZM12S

Brand name: Zentan

Power supply: Battery 4.5Vd.c. (AAA*3)

Technical data:

Mode	Channel	Conducted Power (dBm)
BLE	Ch 0 : 2402 MHz	1.56
	Ch 19 : 2440 MHz	1.48
	Ch 39 : 2480 MHz	1.17

Type of antenna: Chip Antenna

Antenna gain: 1.75 dBi

Operation modes: Duplex

Modulation type: GFSK

Sample no.: #02

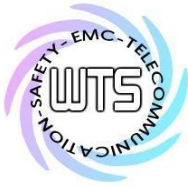
Classification:

Fixed Device	☐
Mobile Device (Human Body distance > 20cm)	☐
Portable Device (Human Body distance < 20cm)	☒
Modular Radio Device	☐

1.5 Duty cycle and factor

The duty factor is computed as $[10 \log (1 / D)]$, where D is the duty cycle.

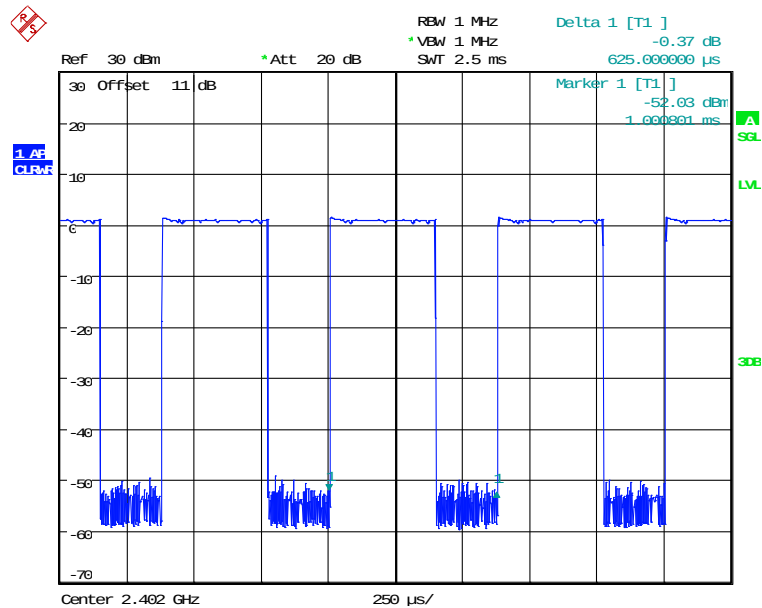
Mode	T _{on} (ms)	T _{on} +T _{off} (ms)	Duty cycle (%)	1/T - VBW (kHz)
BLE	0.405	0.625	64.80	2.47



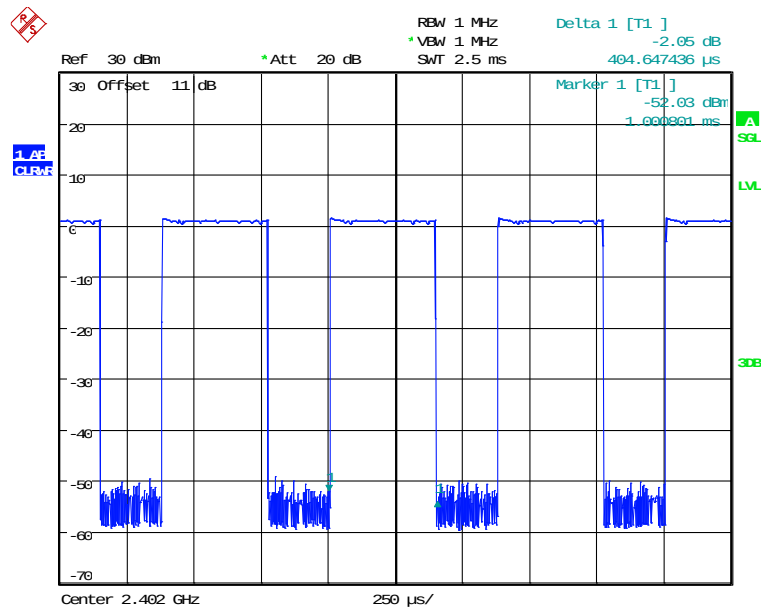
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Duty cycle plot



DUTY BLE 1M
Date: 21.AUG.2026 07:45:59



DUTY BLE 1M
Date: 21.AUG.2026 07:46:07

1.6 Test standards

47 CFR FCC Part 2 Subpart J, section 2.1093

FCC KDB Publication

447498 D01 General RF Exposure Guidance v06



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2 Test configuration

2.1 Test environment

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Extreme conditions parameters: ./.

2.2 Measurement uncertainty

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Output Power Measurement (Peak Output Power (transmitter))	Expanded Uncertainty : 1.49 dB

The decision rule is: Measurement uncertainty is not included in the calculation of test results.

2.3 Test Equipment List

Max Output Power

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2026/2/13	2027/2/12
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2026/3/12	2027/3/11
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2026/2/13	2027/2/12
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2026/2/13	2027/2/12



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3 Equivalent Isotropic Radiated Power (EIRP)

3.1 Exemption Limits for Routine Evaluation according to FCC KDB Publication

RESULT:

Test standard : FCC KDB Publication
447498 D01 General RF Exposure Guidance v06

3.1.1 Exemption Limits for Routine Evaluation – SAR Evaluation

SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table .

Table: SAR evaluation — Exemption limits for routine evaluation based on frequency and separation distance

MHz	5	10	15	20	25	mm
2402	10.09	19.26	29.35	38.52	48.52	SAR Test Exclusion Threshold (mW)

MHz	30	35	40	45	50	mm
2402	57.70	67.79	77.87	87.05	97.13	SAR Test Exclusion Threshold (mW)

Band	Frequency (MHz)	Max output power (dBm)	Antenna Gain (dBi)	EIRP dBm/mW	Limit (mW)
BLE 1M	Ch 0 : 2402	1.56	1.75	3.31/2.14	10.09

Output power level shall be the higher of the maximum conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power.

Established separation distance is 5 mm.