FCC RF Exposure Exemption report

for

UWB Tag - Watch Type

Model No.: GT-320

FCC ID: 2A6S5-GT320

of

Applicant: GIPS Technology Co., Ltd (Su, Li-Tse)
Address: Rm. 2, 6 F., No. 395, Sec. 1, Linsen Rd., East Dist.,
Tainan City 701024, Taiwan (R.O.C.)

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1072, TW1140, TW1146, TW1477, TW0037

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

Report No.: W6M22405-23455-EE

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: wts@wts-lab.com

Registration number: W6M22405-23455-EE
FCC ID: 2A6S5-GT320

TABLE OF CONTENTS

Registration number: W6M22405-23455-EE
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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 is 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:

Date	WTS-Lab.	Name	Signature
October 29, 2024		Ken Kang	Ken kang

Technical responsibility for area of testing:

Date	WTS	Name	Signature
October 29, 2024		Kevin Wang	Kevin Wang

Registration number: W6M22405-23455-EE
FCC ID: 2A6S5-GT320

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.)

Xizhi Lab
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:	GIPS Technology Co., Ltd (Su, Li-Tse)
Street:	Rm. 2, 6 F., No. 395, Sec. 1, Linsen Rd., East Dist.,
Town:	Tainan City 701024,
Country:	Taiwan (R.O.C.)

Registration number: W6M22405-23455-EE
FCC ID: 2A6S5-GT320

Manufacturer: (if applicable)

Name:	./.
Street:	./.
Town:	./.
Country:	./.

Test date

Date of receipt of test item:	July 23, 2024
Date of test:	from July 24, 2024 to August 22, 2024

1.4 General information of Test item

Type of test item:	UWB Tag - Watch Type
Model no.:	GT-320
Multi-listing model no.:	./.
Brand name:	GIPS
Power supply:	USB 5Vd.c. Battery 3.8Vd.c. 440mAh 1.672Wh
Type of antenna:	Ceramic Chip antenna
Antenna gain:	3.77 dBi

Technical data:

Mode	Channel	Conducted Power (dBm)
BLE	Ch 0 : 2402 MHz	-5.21
	Ch 19 : 2440 MHz	-5.14
	Ch 39 : 2480 MHz	-5.58

Operation modes:	Duplex
Modulation type:	GFSK
Sample no.:	#01

Classification:

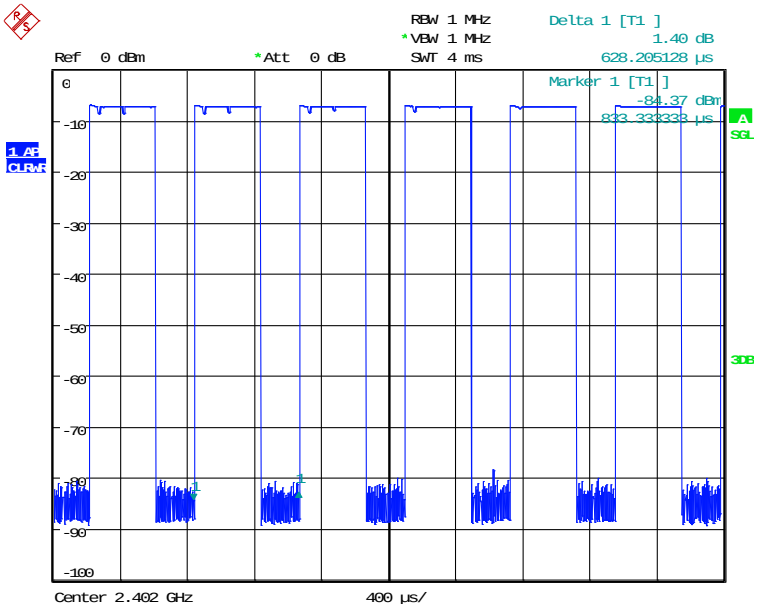
Fixed Device	☐
Mobile Device (Human Body distance ＞ 20cm)	☐
Portable Device (Human Body distance ＜ 20cm)	☒
Modular Radio Device	☐

1.5 Duty cycle and factor

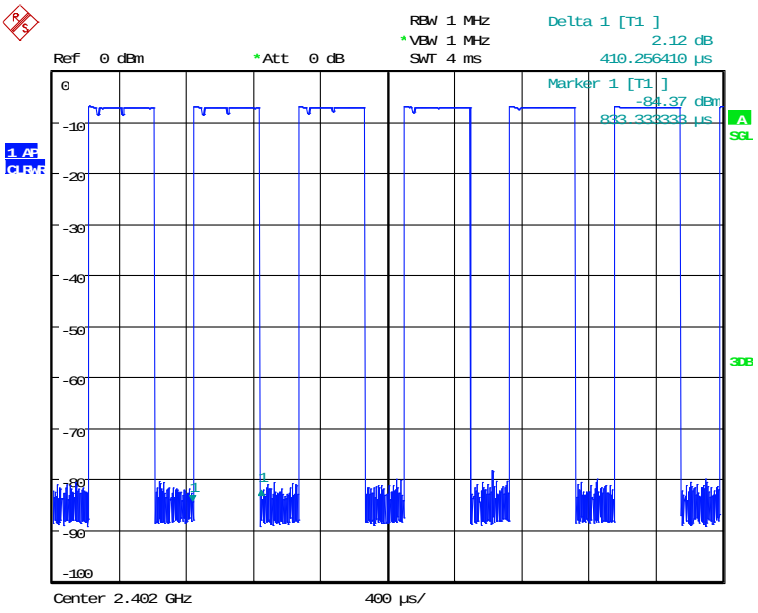
The duty factor is computed as [10 log (1 / D)], where D is the duty cycle.

Mode	T_{on} (ms)	$T_{on}+T_{off}$ (ms)	Duty cycle (%)	1/T – VBW (kHz)
BLE 1M	0.41026	0.62821	65.31%	2.44

Duty cycle plot



Registration number: W6M22405-23455-EE
FCC ID: 2A6S5-GT320



Duty Ton
Date: 13.AUG.2024 12:50:24

1.6 Test standards

47 CFR FCC Part 2.1093
447498 D04 Interim General RF Exposure Guidance v06

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：1.64 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	2024/2/16	2025/2/15
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2024/3/7	2025/3/6
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2024/2/16	2025/2/15
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 （S_Cable 9）	279067	HUBER+SUHNER	2024/2/16	2025/2/15

3 Equivalent Isotropic Radiated Power (EIRP)

1-mW Test Exemption

The maximum power is -5.14 dBm (0.3062mW)

0.3062mW ≤ 1mW

The device is qualify for simultaneous transmission SAR exemption.

4 Simultaneous Transmission Exemption

The BLE, UWB of module cannot launch simultaneously.