

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047903 Page: 1 of 12

RF EXPOSURE EVALUATION REPORT

Application No.:	FYCR2211000479HS
Applicant:	Yadea technology group Co., Ltd.
Address of Applicant:	Dongsheng Road Dacheng Industrial Zone Anzhen Xishan District Wuxi Jiangsu, China 214100
Manufacturer:	Yadea technology group Co., Ltd.
Address of Manufacturer:	Dongsheng Road Dacheng Industrial Zone Anzhen Xishan District Wuxi Jiangsu, China 214100
Factory:	Yadea technology group Co., Ltd.
Address of Factory:	No.515 Xishan Road, Anzhen Xishan District, Wuxi Jiangsu Province, P.R.China
Equipment Under Test (EUT):
EUT Name:	Yadea Electric Scooter X1
Model Name:	YDX1
Trade Mark:	VADEA
FCC ID:	2AYR9YDX1
Standard(s) :	47 CFR PART 1, Subpart I, Section 1.1310
	47 CFR PART 2, Subpart J, Section 2.1093
	KDB 447498 D04 interim General RF Exposure Guidance v01
Date of Receipt:	2022-11-25
Date of Evaluation:	2022-12-07 to 2023-01-06
Date of Issue:	2023-01-11
Evaluation Result:	Pass*

* In the configuration evaluated, the EUT complied with the standards specified above.

WinkeyWang

Winkey Wang EMC Technical Manager



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole reponsibility is to the Client the document, does not extend the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) here and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (66-755) 83071443, or email: CN.Doccheck@sgs.com

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdishint, Badan, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgsgroup.com.cn 中国・深圳・宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com



SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047903 Page: 2 of 12

	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2023-01-11		Original				

Authorized for issue by:			
	Gree Zhan		
	Tree Zhan/Project Engineer	-	
	WinkeyWang		
	Winkey Wang/Reviewer	-	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: (b) Doccheck@as.com

Fuyorg lab. Xiniong TechnoPark, Fenglang Road, Fuyong Subdistict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgsgroup.com.cn 中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com



SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047903 Page: 3 of 12

2 Contents

			Page
2	Cor	ntents	3
3	Ger	neral Information	4
	3.1	General Description of E.U.T.	4
	3.2	Details of E.U.T.	4
	3.3	Separation Distance	
	3.4	Test Location	
	3.5	Test Facility	6
4	FCC	C Radiofrequency radiation exposure limits	7
	4.1	Blanket 1 mW Blanket Exemption	7
	4.2	MPE-based Exemption	7
	4.3	SAR-based Exemption	8
5	Меа	asurement and Calculation	
	5.1	Maximum transmit power	11
	5.2	RF Exposure Calculation	11
6	EUT	Г Constructional Details (EUT Photos)	12



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is davised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company have nave used to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or avail.

Fuyong lab. Xiniong TechnoPark, Fengtang Read, Fuyong Subdistict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgsgroup.com.cn 中国・深圳・宝安区福永街道昆塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com



SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047903 Page: 4 of 12

3 General Information

3.1 General Description of E.U.T.

	⊠ Portable device
Product Type:	Mobile device
	Fixed device

3.2 Details of E.U.T.

0.2		•••				
	Power supply: Input 54.6Vdc, 2A via adapter; rechargeable battery 48Vdc, 13Ah, b Model: DHL4813-01					
		adapter model No.:C407-5420-01				
		Input 100-240V~, 50-60Hz, 1.6Amax; Output 54.6Vdc, 2A, 109.2W				
	Cable(s):	Adapter AC Input cable:1.1m, unshielded;				
		DC output cable: 1.1m, unshielded				
	Operation Frequency:	2402MHz to 2480MHz				
	Bluetooth Version:	V5.0 LE				
	Modulation Type:	GFSK				
	Number of Channels:	40				
	Channel Spacing:	2MHz				
	Antenna Type:	Integral Antenna				
	Antenna Gain:	1.76dBi				

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or same!

Fuyong lab. Xiniong TechnoPark, Fenglang Read, Fuyong Subdistict, Bao'an, Shenzhen, China 518103 tt (86-755) 88663988 ft (86-755) 26710594 www.sgsgroup.com.cn 中国 ·深圳 ·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 tt (86-755) 88663988 ft (86-755) 26710594 sgs.china@sgs.com



SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047903 Page: 5 of 12

3.3 Separation Distance

Minimum test separation distance: 5mm

Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Choccheck/Bas.com

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdishid, Baolan, Shenzhen, China 518103 tt (86–755) 88663988 ft (86–755) 26710594 www.sgsgroup.com.cn 中国・深圳・宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 tt (86–755) 88663988 ft (86–755) 26710594 sgs.china@sgs.com



SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047903 Page: 6 of 12

3.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC – Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions, for electronic Documents, attribution is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein, Any holder of this document is advised that information contained herein refeats the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unawitui and offenders may be prosecuted to the fullest extend of the lack sont. A struction of the content is unawitui and offenders may be prosecuted to the fullest extend for 30 days only. Attention: Osteck the authenticity of testing finangection report & certificate, please contact us at telephone: (86-755) 8307 1443,

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdishid, Bao'an, Shenzhen, China 518103 t (86–755) 88663988 f (86–755) 26710594 www.sgsgroup.com.cn 中国・深圳・宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86–755) 88663988 f (86–755) 26710594 sgs.china@sgs.com



SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047903 Page: 7 of 12

4 FCC Radiofrequency radiation exposure limits

Test exemptions apply for devices used in general population/uncontrolled exposure environments, according to the SAR-based, or MPE-based exemption thresholds.

4.1 Blanket 1 mW Blanket Exemption

The 1 mW Blanket Exemption of §1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

The 1-mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph §1.1307(b)(3)(ii)(A).

The 1-mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

4.2 MPE-based Exemption

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

RF Source Frequency			Minim	Threshold ERP		
<i>f</i> ∟ MHz		<i>f</i> ⊢ MHz	λ _L / 2π		λ _Η / 2π	W
0.3	_	1.34	159 m	_	35.6 m	1,920 R ²
1.34	_	30	35.6 m	_	1.6 m	3,450 R²/f ²
30	_	300	1.6 m	_	159 mm	3.83 R ²
300	_	1,500	159 mm	_	31.8 mm	0.0128 R ² f
1,500	_	100,000	31.8 mm	-	0.5 mm	19.2R ²
Subscripts L and H are low and high; λ is wavelength.						
From §1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.						

Table B.1—Thresholds For Single RF Sources Subject to	Routine Environmental Evaluation
-------------------------------------------------------	----------------------------------

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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document as advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document. This document parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fulles textent of the faw. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: Ch.Doccheck@sgs.com

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgsgroup.com.cn 中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com



SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047903 Page: 8 of 12

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); also in \$1.1307(b)(1)(i)(B)].

$$P_{\rm th} (\rm mW) = ERP_{20 \,\rm cm} (\rm mW) = \begin{cases} 2040f & 0.3 \,\rm GHz \le f < 1.5 \,\rm GHz \\ 3060 & 1.5 \,\rm GHz \le f \le 6 \,\rm GHz \end{cases}$$
(B.1)

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.

Limit calculation						
Frequency range	Frequency(MHz)	R(λ/2π)(m)	Threshold ERP(W)			
300~1500MHz	915	0.0522	0.032			
1500~100000MHz	2480	0.0193	0.007			

4.3 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of $\lambda/4$.

As for devices with antennas of length greater than $\lambda/4$ where the gain is not well defined, but always less than that of a half-wave dipole (length $\lambda/2$), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

The SAR-based exemption formula of \$1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forger or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fulleet axtent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CM.Doccheck@sgs.com

Fuyong lab. Xiniong TechnoPark, Fengtang Road, Fuyong Subdistrid, Badan, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgsgroup.com.cn 中国・深圳・宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com



SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047903 Page: 9 of 12

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

$$P_{\rm th} \,({\rm mW}) = \begin{cases} ERP_{20\,\,{\rm cm}} (d/20\,\,{\rm cm})^x & d \le 20\,\,{\rm cm} \\ \\ ERP_{20\,\,{\rm cm}} & 20\,\,{\rm cm} < d \le 40\,\,{\rm cm} \end{cases}$$
(B.2)

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20}\operatorname{cm}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1).



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein, Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extend for 30 days only. Attention: To check the authenticity of testing finspection report & certificate, please contact us at telephone: (86-75) 8307 1443, Attention: To other the authenticity of testing finspection report & certificate, please contact us at telephone: (86-75) 8307 1443,

Fuyang lab. Xinlong TechnoPark, Fengtang Road, Fuyang Subdistind, Bao'an, Shenzhen, China 518103 tt (86–755) 88663988 ft (86–755) 26710594 www.sgsgroup.com.cn 中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 tt (86–755) 88663988 ft (86–755) 26710594 sgs.china@sgs.com



SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047903 Page: 10 of 12

Example values shown in Table B.2 are for illustration only.

	Table B.2—Example Power Thresholds (IIIW)									
Frequency					Distan	ce(mm)				
(MHz)	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

Table B 2—Example Power Thresholds (mW)

Limit calculation						
Frequency range(GHz)	Frequency(GHz)	Х	Distance(cm)	Pth (mW)		
0.3~1.5	0.915	1.474	0.5	8.133		
1.5~6	2.48	1.905	0.5	2.717		



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is davan to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forger or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgsgroup.com.cn 中国・深圳・宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com



SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047903 Page: 11 of 12

5 Measurement and Calculation

5.1 Maximum transmit power

Test Mode	Test Channel	Conducted power (dBm)	Max ANT Gain (dBi)	EIRP (mW)
2.4GHz	2440	-3.13	1.76	0.73

The Power Data is based on the RF Test report FYCR221100047902

5.2 RF Exposure Calculation

The Max. conducted power is 0.49mW. The best case gain of the antenna is 1.76dBi.

Remark: we used the maximum power between the conducted power and ERP/EIRP to perform RF exposure exemption evaluation.

	Evaluation method	Exempt Limit(mW)	Verdict
\boxtimes	Blanket 1 mW Blanket Exemption	1mW	Yes
	MPE-based Exemption(ERP)	7mW(ERP)	N/A
	SAR-based Exemption(P_{th})	2.77mW	N/A

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, results 10 Docebee/forge scame.

 Fuyong lab. Xiniong TechnoPark, Fenglang Road, Fuyong Subdistid, Bao'an, Shenzhen, China
 518103
 t
 (86–755)
 88663988
 f
 (86–755)
 26710594
 www.sgsgroup.com.cn

 中国<</td>
 深圳・宝安区福永街道凤塘大道鑫龙科技園福永实验室
 邮编: 518103
 t
 (86–755)
 88663988
 f
 (86–755)
 26710594
 sgs.china@sgs.com



SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047903 Page: 12 of 12

6 EUT Constructional Details (EUT Photos)

Refer to appendix - external and internal photos for FYCR2211000479HS

- End of the Report -



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Comments, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein, Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawilui and offenders may be prosecuted to the fullest extend for 30 days only. Attention: Deteck the authenricity of testing fingercia control content us at their of the sample(s) attention. To Breeck the ethorems (186-755) 83071443, Attention: Deteck the authenricity of testing fingercian propertia certificate, please contact us at telephore: (86-755) 83071443,

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdishid, Baolan, Shenzhen, China 518103 tt (86–755) 88663988 ft (86–755) 26710594 www.sgsgroup.com.cn 中国・深圳・宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 tt (86–755) 88663988 ft (86–755) 26710594 sgs.china@sgs.com