

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR220800029105 Page: 1 of 12

# **RF Exposure Report**

Application No.:	FYCR2208000291AT
Applicant:	Guangdong creative Double Star Technology Co. Ltd
Address of Applicant:	Yangdongpian Industrial area, Dongwan, Lianxia, Chenghai, Shantou, China
Manufacturer:	Guangdong creative Double Star Technology Co. Ltd
Address of Manufacturer:	Yangdongpian Industrial area, Dongwan, Lianxia, Chenghai, Shantou, China
Equipment Under Test (EU	Т):
EUT Name:	RC DRONE
Model No.:	SX19HF, SX01(F), SX02(F), SX03(F), SX04(F), SX05(F), SX06(F), SX07(F), SX08(F), SX09(F), SX10(F), SX11(F), SX12(F), SX13(F), SX14(F), SX15(F), SX16(F), SX17(F), SX18(F), SX20(F), SX21(F), SX22(F), SX23(F), SX24(F), SX25(F), SX26(F), SX27(F), SX28(F), SX29(F), SX30(F), SX31(F), SX32(F), SX33(F), SX34(F), SX35(F), SX36(F), SX37(F), SX38(F), SX39(F), SX40(F), SX41(F), SX42(F), SX43(F), SX44(F), SX45(F), SX46(F), SX47(F), SX48(F), SX49(F), SX50(F), SX52(F), SX53(F), SX54(F), SX55(F), SX56(F), SX57(F), SX58(F), SX59(F), SX60(F), SX61(F), SX62(F), SX63(F), SX64(F), SX65(F), SX66(F), SX67(F), SX68(F), SX69(F), SX70(F), SX71(F), SX72(F), SX73(F), SX74(F), SX75(F), SX76(F), SX77(F), SX78(F), SX79(F), SX80(F) ◆
•	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
FCC ID:	2AMOY24SX19HF
Standard(s) :	FCC Rules 47 CFR §2.1093 KDB 447498 D04 interim General RF Exposure Guidance v01
Date of Receipt:	2022-08-02
Date of Test:	2022-08-03 to 2022-08-30
Date of Issue:	2022-09-02
Test Result:	Pass*

\* In the configuration tested, 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, for electronic format documents, 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 their defined therein, Any holder of this document is transaction from exercising all their rights and obligations under the transaction document. This document is underwise stated the results shown in this test report refer only to the sample(s) fested and such sample(s) are retained for 30 days only. Attention to check the <u>authenticite</u>, please contact us at telephone: (86-755) 8307 1443,

Fujong lab. Xiniong TechnaPark, Fengtang Road, Fujong Subdistrict, Baolan, 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



Report No.: FYCR220800029105 Page: 2 of 12

Revision Record								
Version Chapter Date Modifier Remark								
01		2022-09-02		Original				

Authorized for issue by:			
	Tree 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, indermification 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: CN Doccheck@ses.com

Fuyong lab. Xiniong TechnoPark, Fenglang Read, Fuyong Subdistrid, 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



Report No.: FYCR220800029105 Page: 3 of 12

# 1 Contents

		Pa	age
1	С	ONTENTS	.3
2	G	ENERAL INFORMATION	.4
	2.1	GENERAL DESCRIPTION OF E.U.T.	.4
	2.2	DETAILS OF E.U.T.	.4
	2.3	SEPARATION DISTANCE	.6
	2.4	TEST LOCATION	.7
	2.5	TEST FACILITY	.7
3	F	CC RADIOFREQUENCY RADIATION EXPOSURE LIMITS	.8
	3.1	BLANKET 1 MW BLANKET EXEMPTION	.8
	3.2	MPE-BASED EXEMPTION	.8
	3.3	SAR-BASED EXEMPTION	.9
4	Ν	EASUREMENT AND CALCULATION	12
	4.1	MAXIMUM TRANSMIT POWER	12
	4.2	RF Exposure Calculation	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/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indermification 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: CN Doccheck@ses.com

Fuyong lab. Xiniong TechnoPark, Fengtang Read, Fuyong Subdistrid, 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



Report No.: FYCR220800029105 Page: 4 of 12

## 2 General Information

## 2.1 General Description of E.U.T.

	Portable device
Product Type:	Mobile device
	Fixed device

### 2.2 Details of E.U.T.

Power supply:	4.5V DC(1.5V x 3 "AAA" Size Batteries) for remote
Operating Frequency:	2420.6MHz to 2465.6MHz
Channel number:	26
Modulation Type:	GFSK
Antenna Type:	Integral

Remark: The information in this section is provided by the applicant or manufacturer, SGS 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-en-Cournent.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 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 unlawfull 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: Check the authenticity of testing / Inspection report & certificate, please contact us at telephone: (86-75) 8307 1443,

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



Report No.: FYCR220800029105 Page: 5 of 12

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2420.6	11	2449	21	2459
2	2440	12	2450	22	2461
3	2441	13	2451	23	2462
4	2442.6	14	2452	24	2463
5	2443	15	2453	25	2464
6	2444	16	2454	26	2465.6
7	2445	17	2455		
8	2446	18	2456		
9	2447	19	2457		
10	2448	20	2458		

#### Channel List:

#### **Declaration of EUT Family Grouping:**

Model No.: SX19HF, SX01(F), SX02(F), SX03(F), SX04(F), SX05(F), SX06(F), SX07(F), SX08(F), SX09(F), SX10(F), SX11(F), SX12(F), SX13(F), SX14(F), SX15(F), SX16(F), SX17(F), SX18(F), SX20(F), SX21(F), SX22(F), SX23(F), SX24(F), SX25(F), SX26(F), SX27(F), SX28(F), SX29(F), SX30(F), SX31(F), SX32(F), SX33(F), SX34(F), SX35(F), SX36(F), SX37(F), SX38(F), SX39(F), SX40(F), SX41(F), SX42(F), SX43(F), SX44(F), SX45(F), SX46(F), SX47(F), SX48(F), SX49(F), SX50(F), SX52(F), SX53(F), SX54(F), SX55(F), SX56(F), SX57(F), SX58(F), SX59(F), SX60(F), SX61(F), SX62(F), SX63(F), SX74(F), SX75(F), SX76(F), SX78(F), SX79(F), SX80(F)

Only the model SX19HF was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference being of color, appearance, packaging and model No..



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-Cournent.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 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 unlawfull 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: Check the authenticity of testing / Imspection report & certificate, please contact us at telephone: (86-755) 8307 1443,** 

Fuyong lab. Xiniong TechnoPark, Fengtang Road, Fuyong Subdishid, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgs.group.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



Report No.:FYCR220800029105Page:6 of 12

#### **2.3** Separation Distance

Minimum test separation distance: 5	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.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, indermification 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, 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 accentificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch.Doccheck@sgs.com

Fuyong lab. Xiniong TechnoPark, Fengtang Road, Fuyong Subdishid, Bavlan, Sherzhen, 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



Report No.: FYCR220800029105 Page: 7 of 12

#### 2.4 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.

#### 2.5 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.Terms-en-Cournent.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 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 unlawfull 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: Check the authenticity of testing (inspection report & certificate, please contact us at telehome: (86-755) 8307 1443,

Flyong lab. Xinlong TechnoPark, Fengtang Road, Flyong Subdistrid, 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



Report No.: FYCR220800029105 Page: 8 of 12

# 3 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.

3.1 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.

## **3.2** 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 So	equency	Minim	Threshold ERP						
<i>f</i> ∟ MHz	f <sub>н</sub> MHz		λ <sub>L</sub> / 2π	2π λ <sub>H</sub>		W			
0.3	—	1.34	159 m	-	35.6 m	1,920 R <sup>2</sup>			
1.34	—	30	35.6 m	-	1.6 m	3,450 R²/f ²			
30	—	300	1.6 m	-	159 mm	3.83 R <sup>2</sup>			
300	—	1,500	159 mm	-	31.8 mm	0.0128 R <sup>2</sup> f			
1,500	1,500 – 100,000 31.8 mm – 0.5 mm 19.2R <sup>2</sup>								
Subscripts L and H are low and high; λ is wavelength.									
From §1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.									

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



Fuyong lab. Xiniong TechnoPark, Fengtang Road, Fuyong Subdishid, Baolan, Sherzhen, 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



Report No.: FYCR220800029105 Page: 9 of 12

based on the general population MPE limits with a single perfect reflection, outside of the reactive nearfield, 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*<sub>20cm</sub> 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) $R(\lambda 2\pi)(m)$ Threshold ERP(W)								
300~1500MHz	915	0.0522	0.032					
1500~100000MHz	2480	0.0193	0.007					

#### **3.3** 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.



nless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed verleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, bject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-end-Conditions/Ter

Fujong lab. Xiniong TechnoPark, Fengtang Road, Fujong Subdistrict, Bao'an, Sherzhen, 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



Report No.: FYCR220800029105 Page: 10 of 12

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). 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

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

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/Terms-en-Cournent.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 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 unlawfull 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: Check the authenticity of testing / Imspection report a certificate, please contact us at telephone: (86-755) 8307 1443,

Fuyong lab. Xiniong TechnoPark, Fengtang Road, Fuyong Subdistict, Bao'an, Shenzhen, China 518103 tt (86–755) 88663988 ft (86–755) 26710594 www.sgsgroup.com.cn 中国・深圳・宝安区福永街道凤墉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



Report No.: FYCR220800029105 Page: 11 of 12

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

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 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 tested 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: CN\_Doccheck@ss.com

Fujong lab. Xiniong TechnoPark, Fengtang Road, Fujong Subdishid, Bao'an, Shenzhen, China 518103 tt (86–755) 88663988 ft (86–755) 26710594 www.sgsgroup.com.cn 中国 • 深圳 • 宝安区福永街道凤墉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



Report No.: FYCR220800029105 Page: 12 of 12

## 4 Measurement and Calculation

4.1 Maximum transmit power

Test Mode	Test Channel	Maximum Field Strength (dBuv/m)	E.I.R.P (dBm)	E.I.R.P (mW)
GFSK	2465.6MHz	88.01*	-7.15	0.19

(\*) Note:

The Maximum Field Strength is based on the RF Test Report FYCR220800029102.

E=EIRP-20logD+104.7 E=88.01dBuv/m(Refer to test report FYCR220800029102) D=3m EIRP=88.01- (-20log(3)+104.7) EIRP=-7.15dBm(0.19mW)

4.2 RF Exposure Calculation

The Max E.I.R.P is 0.19mW.

**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
Blanket 1 mW Blanket Exemption	1mW	N/A
MPE-based Exemption(ERP)	7mW(ERP)	N/A
SAR-based Exemption( <i>P</i> th)	2.7mW	Yes

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

--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.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 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 unlawful and offenders may be prosecuted to the fullest extend for 30 days only. Altention: Check the authenticity of testing /inspection report a certificate, please contact us at telephone: (86-75) 8307 1443, Altention: Check the authenticity of testing /inspection report a certificate, please contact us at telephone: (86-75) 8307 1443,

Fuyong lab. Xiniong TechnoPark, Fengtang Road, Fuyong Subdishid, Bavian, 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