

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300101203 Page: 1 of 10

RF Exposure Evaluation Report

| Application No.: | SZCR2403001012ET (SGS HK NO.: T32420270051EM) |
|---------------------------|---|
| Applicant: | Revell GmbH |
| Address of Applicant: | Henschelstr.20-30 32257 Buende, Germany |
| Manufacturer/ Supplier: | Huangbo Toys Factory |
| Buyer: | Carrera Revell Europe GmbH |
| Equipment Under Test (EUT |): |
| EUT Name: | RC Engineering Vehicle 4in1 |
| Item No.: | 21304 |
| P.O. No.: | Hxxxx |
| Country of Origin: | China |
| Country of Destination: | US |
| Labeled Age Grading: | 8+ |
| FCC ID: | 2A7EW213045010 |
| Standard(s) : | FCC Rules 47 CFR §2.1093 |
| | KDB 447498 D04 interim General RF Exposure Guidance v01 |
| Date of Receipt: | 2024-03-25 |
| Date of Evaluation: | 2024-03-29 to 2024-04-15 |
| Date of Issue: | 2024-05-15 |
| Evaluation Result: | Pass* |

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

Ceny. XM

Keny Xu **EMC Laboratory 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 https://www.sgs.com/en/Terms-and-Conditions. 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 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 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. 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,

No.1 Workshop, N-10, Middle Section, Science & Technology Part, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300101203 Page: 2 of 10

| | Revision Record | | | | | | |
|---------|-----------------|------------|----------|----------|--|--|--|
| Version | Chapter | Date | Modifier | Remark | | | |
| 01 | | 2024-05-15 | | Original | | | |
| | | | | | | | |
| | | | | | | | |

| Authorized for issue by: | | |
|--------------------------|------------------------------|--|
| | Martin Tang | |
| | Martin Tang/Project Engineer | |
| | Eric Fu | |
| | Eric Fu/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 https://www.sgs.com/en/Terms-and-Conditions. 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 form 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 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: CAL Doccheck@ags.com

No.1 Workshop, N-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300101203 Page: 3 of 10

Dago

2 Contents

| | | | Je |
|---|--|--|----------------------|
| 1 | Cov | er Page | . 1 |
| 2 | Con | tents | . 3 |
| 3 | Gen | eral Information | . 4 |
| 4 | 3.1 3.2 3.3 3.4 3.5 3.6 3.7 FCC | General Description of E.U.T. Details of E.U.T. Separation Distance. Test Location . Test Facility. Deviation from Standards. Abnormalities from Standard Conditions. Radiofrequency radiation exposure limits . | .4 .5 .5 .5 |
| _ | 4.1 4.2 4.3 | Blanket 1 mW Blanket Exemption MPE-based Exemption SAR-based Exemption | . 6 . 6 . 7 |
| 5 | Mea | surement and Calculation | 10 |
| | 5.1 5.2 | Maximum transmit power RF Exposure Calculation | |
| 6 | EUT | Constructional Details (EUT Photos) | 10 |



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 https://www.sgs.com/en/Terms-and-Conditions. 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 form 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 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@egs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Part, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区MI-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300101203 Page: 4 of 10

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.

| 3V DC(1.5V x 2 "AAA" Size Batteries) for remote controller |
|--|
| 2410MHz-2473MHz |
| GFSK |
| 6 |
| PCB Antenna |
| 0.21dBi |
| |

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.

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 boo | dy 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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of ilability, 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 form 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 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@egs.com

No.1 Workshop, N-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300101203 Page: 5 of 10

3.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 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. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Conditions None



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of ilability, 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 form 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 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@egs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区MI-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300101203 Page: 6 of 10

FCC Radiofrequency radiation exposure limits 4

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 Sou | urce Fre | equency | Minim | ium Dis | Threshold ERP | | |
|--|---|----------------|---------|---------|---------------------|-------------------------|--|
| <i>f</i> ∟ MHz | | <i>f</i> ⊢ MHz | λ∟ / 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 | 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



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of ilability, 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 form 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 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@egs.com

No.1 Workshop, N-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300101203 Page: 7 of 10

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.

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)].

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

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 | | | | |

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.



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 https://www.sgs.com/en/Terms-and-Conditions. 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, forgery or faisification of the content or appearance of this document is unawful 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: CM_Doccheck@gs.com. (In: Without, Mill Mide Schwiger AkinaanDishit, Sharban, Guangbang, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn (he I write), Mill Mide Schwiger AkinaanDishit, Sharban, Guangbang, China 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300101203 Page: 8 of 10

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). Pth 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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of ilability, 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 form 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 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@egs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300101203 Page: 9 of 10

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

| Distance(mm) | | | | | | | | | |
|--------------|-------------------------|---|--|--|---|--|---|--|--|
| 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| 39 | 65 | 88 | 110 | 129 | 148 | 166 | 184 | 201 | 217 |
| 22 | 44 | 67 | 89 | 112 | 135 | 158 | 180 | 203 | 226 |
| 9 | 25 | 44 | 66 | 90 | 116 | 145 | 175 | 207 | 240 |
| 3 | 12 | 26 | 44 | 66 | 92 | 122 | 157 | 195 | 236 |
| 3 | 10 | 22 | 38 | 59 | 83 | 111 | 143 | 179 | 219 |
| 2 | 8 | 18 | 32 | 49 | 71 | 96 | 125 | 158 | 195 |
| 1 | 6 | 14 | 25 | 40 | 58 | 80 | 106 | 136 | 169 |
| | 39 22 9 3 3 | 5 10 39 65 22 44 9 25 3 12 3 10 2 8 | 5 10 15 39 65 88 22 44 67 9 25 44 3 12 26 3 10 22 2 8 18 | 5 10 15 20 39 65 88 110 22 44 67 89 9 25 44 66 3 12 26 44 3 10 22 38 2 8 18 32 | 5 10 15 20 25 39 65 88 110 129 22 44 67 89 112 9 25 44 66 90 3 12 26 44 66 3 10 22 38 59 2 8 18 32 49 | Distance(mm) 5 10 15 20 25 30 39 65 88 110 129 148 22 44 67 89 112 135 9 25 44 66 90 116 3 12 26 44 66 92 3 10 22 38 59 83 2 8 18 32 49 71 | 5 10 15 20 25 30 35 39 65 88 110 129 148 166 22 44 67 89 112 135 158 9 25 44 66 90 116 145 3 12 26 44 66 92 122 3 10 22 38 59 83 111 2 8 18 32 49 71 96 | 5 10 15 20 25 30 35 40 39 65 88 110 129 148 166 184 22 44 67 89 112 135 158 180 9 25 44 66 90 116 145 175 3 12 26 44 66 92 122 157 3 10 22 38 59 83 111 143 2 8 18 32 49 71 96 125 | Distance(mm) 5 10 15 20 25 30 35 40 45 39 65 88 110 129 148 166 184 201 22 44 67 89 112 135 158 180 203 9 25 44 66 90 116 145 175 207 3 12 26 44 66 92 122 157 195 3 10 22 38 59 83 111 143 179 2 8 18 32 49 71 96 125 158 |

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 2.717 0.5



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of ilability, 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 form 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 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@egs.com

No.1 Workshop, N-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300101203 Page: 10 of 10

Measurement and Calculation 5

Maximum transmit power 5.1

The Power Data is based on the RF Test Report SZCR240300101202 The Max. power (including tune-up tolerance) is 3.66dBm on the channel 2.473GHz(*) 4.66dBm logarithmic terms convert to numeric result is nearly 2.32mW

Note: EIRP = $pt \times gt = (E \times d)^2/30$ (According to ANSI C63.10 Annex G.2). where pt is the transmitter output power in watts gt is the numeric gain of the transmitting antenna (dimensionless) E is the electric field strength in V/m d is the measurement distance in meters (m) V/m =10^(((dBuV/m) -120) / 20)

5.2 RF Exposure Calculation

The Max. power (including tune-up tolerance) is 3.66dBm on the channel 2.473GHz(*) 4.66dBm logarithmic terms convert to numeric result is nearly 2.32mW

Remark: we used the maximum 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 |
| \boxtimes | SAR-based Exemption(<i>P</i> th) | 2.7mW | Yes |

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

EUT Constructional Details (EUT Photos) 6

Refer to Appendix - External and Internal Photos for SZCR2403001012ET.

--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 https://www.ggs.com/en/Terms-and-Conditions. 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 form 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 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@ggs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057