

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

Report No.: FYCR221100046805 Page: 1 of 7

RF EXPOSURE EVALUATION REPORT

Application No.:	FYCR2211000468AT		
Applicant:	Voxx Accessories Corp.		
Address of Applicant:	3502 Woodview Trace Suite 220, Indianapolis, Indiana 46268 United States		
Manufacturer:	Voxx Accessories Corp.		
Address of Manufacturer:	3502 Woodview Trace Suite 220, Indianapolis, Indiana 46268 United States		
Factory:	Smart Glory Electronics (ShenZhen) Co., Ltd		
Address of Factory:	Building Four, No.63, Zhangqi Road, Qiping Village, Daping Community, Guanlan Street, Longhua New District, Shenzhen		
Equipment Under Test (EUT):			
EUT Name:	Duo Wireless Speaker I Earbuds All-in-One		
Model No.:	ARTWS35		
Trade Mark:	AR (Acoustic Research)		
FCC ID:	VIXARTWS35EB		
Standard(s) :	47 CFR PART 1, Subpart I, Section 1.1310		
	47 CFR PART 2, Subpart J, Section 2.1093		
	KDB447498D01 General RF Exposure Guidance v06		
Date of Receipt:	2022-11-18		
Date of Evaluation:	2022-11-23 to 2022-12-02		
Date of Issue:	2022-12-09		
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 primeoverleaf, 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-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 Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a except in fulli, without prior written approval of the Company. Any unauthorized alteration, foreiry or failsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fulleat extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) is 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: Ch.Doccheck@sgs.com

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, 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.: FYCR221100046805 Page: 2 of 7

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-12-09		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, 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 West and B).

Fuyong lab. Xinlong TechnoPark, Fenglang Read, Fuyong Subdistict, 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.: FYCR221100046805 Page: 3 of 7

2 Contents

			Page	
1	Cov	ver Page	1	
2	Eval	Evaluation SummaryError! Bookmark not defined.		
3	Con	ntents	3	
4	Gen	neral Information	4	
	4.1	Details of E.U.T.		
	4.2	Test Location		
	4.3	Test Facility	5	
	4.4	Deviation from Standards	5	
	4.5	Abnormalities from Standard Conditions	5	
5	Tech	hnical Requirements Specification	6	
	5.1	RF Exposure Evaluation	6	
	5.1.1	1 Limit & Test Method	6	
	5.1.2	2 Conclusion	6	
6	EUT	T Constructional Details (EUT Photos)	7	



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: Ch Doccheck the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch Doccheck the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch Doccheck the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch Doccheck the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch Doccheck the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch Doccheck the authenticity of testing /inspection

Fuyong lab. Xiniong 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.: FYCR221100046805 Page: 4 of 7

3 General Information

3.1 Details of E.U.T.

Power Supply:	Left earbuds: Li-Ion Polymer Battery 3.7V 25mAh (Charge by speaker) Right earbuds: Li-Ion Polymer Battery 3.7V 25mAh (Charge by speaker)
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.3 Classic
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	Chip Antenna
Antenna Gain:	5.12dBi

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.

Only the left earbuds was tested, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for left earbuds and right earbuds.



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, Fengtang 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.: FYCR221100046805 Page: 5 of 7

3.2 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.

3.3 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.

3.4 Deviation from Standards

None

3.5 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 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-Courdina, for electronic 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 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 extent of the law. Unless otherwise 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 brock the authenticity of testing inspection report & certificate, please contact us at telephone: (86-75) 8307 1443,

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・宝安区福永街道艮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.: FYCR221100046805 Page: 6 of 7

4 **Technical Requirements Specification**

4.1 RF Exposure Evaluation

4.1.1 Limit & Test Method

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f}(GHz)$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

4.1.2 Conclusion

The Max. power (including tune-up tolerance) is 6.31 dBm on the highest channel 2.48 GHz (*) 6.31 dBm logarithmic terms convert to numeric result is nearly 4.28 mW According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [Vf(GHz)]

General RF Exposure = $(4.28 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.48 \text{ GHz}} = 1.35$ (1) SAR requirement: S = 3.0 (2) (1) < (2)

So the SAR report is not required.

(*) Max. power refer to Report No.:FYCR221100046803



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-end-Conditions/Terms-and-Conditions/Terms-and-Conditions for Electronic Document as the fully intermeted to the second conditions of the second documents and the second conditions are the second conditions of the second conditions of the second conditions of the second conditions are second to the second conditions of 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 excende to the content or the accession of the content or the content or the period of the Company. Any unauthorized alleration, forgery or faisification of the content or results shown in this least report refer only to the sample(a) here the second of the 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-75) 8307 1443, or email: Choccheck the Sesses.com

Fuyong lab. Xiniong TechnoPark, Fengtang Road, Fuyong Subdishid, Bardan, 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.: FYCR221100046805 Page: 7 of 7

5 EUT Constructional Details (EUT Photos)

Refer to appendix - external and internal photos for FYCR2211000468AT.

- 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 fingercial candidate, please contact us at telephore: (86-75) 83071443, Attention: Deteck the authenricity of testing fingercial candidate, please contact us at telephore:

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdishid, Badan, 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