



Report No.: SZEM190401275301 Page: 1 of 9

SAR Evaluation Report

Application No.:	SZEM1908016994CR
Applicant:	Shenzhen Breo Technology Co., Ltd
Address of Applicant:	19/F Hisense Southen Buiding, 1777ChuangYe Road, NanShan District, SZ, China
Manufacturer:	Shenzhen Breo Technology Co., Ltd
Address of Manufacturer:	19/F Hisense Southen Buiding, 1777ChuangYe Road, NanShan District, SZ, China
Factory:	Shenzhen Breo Technology Co., Ltd
Address of Factory:	19/F Hisense Southen Buiding, 1777ChuangYe Road, NanShan District, SZ, China
Equipment Under Test (EUT):
EUT Name:	Neck Massager
Model No.:	iNeck 3Pro, iNeck 3Pro-a, iNeck 3Pro-b, iNeck 3Pro-c, iNeck 3Pro-d, neck 4a
"	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
FCC ID:	PXUINECK3PRO
Standards:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2019-08-01
Date of Test:	2019-08-02 to 2019-08-15
Date of Issue:	2019-09-10
Test Result :	PASS*

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

Keny. KN

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 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-enDocument.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 does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. 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) test neg 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 Docchee/Ress com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 中国·深圳•科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594

Member of the SGS Group (SGS SA)

www.sgsgroup.com.cn



Report No.: SZEM190401275301 Page: 2 of 9

2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-09-10		Original

Authorized for issue by:		
	Bin chen	
	Bill Chen /Project Engineer	-
	Evic 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 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-e-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 exoenate 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 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@ags.com



Report No.: SZEM190401275301 Page: 3 of 9

3 Contents

Page

1 CC	COVER PAGE		
2 VE	ERSION	2	
3 C(
4 GI	ENERAL INFORMATION	4	
4.1	GENERAL DESCRIPTION OF EUT	4	
4.2	TEST LOCATION		
4.3	TEST FACILITY		
4.4	DEVIATION FROM STANDARDS	7	
4.5	ABNORMALITIES FROM STANDARD CONDITIONS	7	
4.6	OTHER INFORMATION REQUESTED BY THE CUSTOMER	7	
5 SA	AR EVALUATION	-	
5.1	RF EXPOSURE COMPLIANCE REQUIREMENT	8	
5.	.1.1 Standard Requirement		
5.	.1.2 Limits		
5.	.1.3 EUT RF Exposure	8-9	



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/Terms-end-Conditions/Terms-end

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 中国 · 深圳 · 科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.com



> Report No.: SZEM190401275301 Page: 4 of 9

General Information 4

4.1 General Description of EUT

Power supply:	Adaptar Powar		
Power supply:	Adapter Power:		
	Model: A18A-050100U-US2		
	Input: AC100-240V 50/60Hz 0.2A		
	Output: DC 5V 1.0A		
	Rechargeable battery: DC 3.7V 4.26Wh(Charge by USB)		
	Rechargeable battery: DC 3.7V 2300mAh 8.51Wh(Charge by USB)		
Cable:	USB cable: 77cm unshielded		
For BT			
Operation Frequency:	2402MHz to 2480MHz		
Bluetooth Version:	V4.2 Dual mode(This test report is for classic mode.)		
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, π/4DQPSK, 8DPSK		
Sample Type:	Portable production		
Number of Channels:	79		
Channel Spacing:	1MHz		
Antenna Type:	Chip Antenna		
Antenna Gain:	0dBi		
For BLE			
Operation Frequency:	2402MHz to 2480MHz		
Bluetooth Version:	V4.2 Dual mode(This test report is for BLE mode.)		
Modulation Type:	GFSK		
Sample Type:	Portable production		
Number of Channels:	40		
Channel Spacing:	2MHz		
Antenna Type:	Chip Antenna		
Antenna Gain:	0dBi		



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-e-Document.aspx. Attention is drawn to the limitation or 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 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) test entation, forgery or faisification only. Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: (NDoccheck@egss.com)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国 · 深圳 · 科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594



Report No.: SZEM190401275301 Page: 5 of 9

Remark:

Model No.: iNeck 3Pro, iNeck 3Pro-a, iNeck 3Pro-b, iNeck 3Pro-c, iNeck 3Pro-d, neck 4a Only the model iNeck 3Pro was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on appearance colour and model name.



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-Document.aspx. 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 exconer the aptroval of the Company. Any unauthorized alteration, forgery or falsification of the company. Any unauthorized alteration, forgery or falsification of the company. Any unauthorized alteration, forgery or falsification 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) tere retained for 30 days on). Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)83071443, or email: (N.Doccheck@gss.com)

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・深圳・科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594



> Report No.: SZEM190401275301 Page: 6 of 9

4.2 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.

4.3 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

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

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. 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: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

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.



	Unless otherwise agreed in writing, this document is issued by overleaf, available on request or accessible at <u>http://www.sgs.com</u> subject to Terms and Conditions for Electronic Documents at <u>h</u> Attention is drawn to the limitation of liability, indemnification ar advised that information contained hereon reflects the Company Client's instructions, if any. The Company's sole responsibility transaction from exercising all their rights and obligations unde except in full, without prior written approval of the Company. A appearance of this document is unlawful and offenders may be p results shown in this test report refer only to the sample(s) tested Attention: To check the authenticity of testing /inspection rep or email: CN.Doccheck@sgs.com	m/en/Term ttp://www.s nd jurisdict y's findings ' is to its C er the tran Any unauth prosecuted and such s	s-and-Conditions.a sgs.com/en/Terms- tion issues definet s at the time of its Client and this do isaction document horized alteration, to the fullest extee ample(s) are retain	aspx and, for electroni and-Conditions/Termi d therein. Any holder intervention only and cument does not exc s. This document ca forgery or falsification tho of the law. Unless c ed for 30 days only.	c format documents, s-e-Document aspx. of this document is d within the limits of onerate parties to a noto be reproduced on of the content or otherwise stated the
td.	No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 5	18057 t	(86-755) 26012053	f (86-755) 26710594	www.sgsgroup.com.cn
	中国・深圳・科技园中区M-10栋一号厂房 邮编:5	18057 t	(86-755) 26012053	f (86-755) 26710594	sgs.china@sgs.com



Report No.: SZEM190401275301 Page: 7 of 9

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

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-Document.aspx. 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 exconer the aptroval of the Company. Any unauthorized alteration, forgery or falsification of the company. Any unauthorized alteration, forgery or falsification of the company. Any unauthorized alteration, forgery or falsification 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) tere retained for 30 days on). Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)83071443, or email: (N.Doccheck@gss.com)

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・深圳・科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594



Report No.: SZEM190401275301 Page: 8 of 9

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

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

5.1.3 EUT RF Exposure

For BT:

The Max. power (including tune-up tolerance) is 1.27 dBm on the lowest channel 2.402 GHz (*) 1.27 dBm logarithmic terms convert to numeric result is nearly 1.34 mW According to the formula. calculate the test exclusion thresholds:

General RF Exposure = $\frac{(Max. Power of channel, including tune - up tolerance, mW) * \sqrt{f(GHz)}$	
(min.test separation distance,mm)	
General RF Exposure = (1.34 mW / 5 mm) x $\sqrt{2.402}$ GHz = 0.42 SAR requirement:	(1)
S = 3.0 (1) < (2)	(2)
So the SAB report is not required	

So the SAR report is not required.

(*) Max. power refer to Report No.:SZEM190801699402



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 <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx</u>. 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 documents. This document is 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@sgs.com

中国・深圳・科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594



Report No.: SZEM190401275301 Page: 9 of 9

For BLE:

The Max. power (including tune-up tolerance) is 2.10 dBm on the lowest channel 2.402 GHz (*) 2.10 dBm logarithmic terms convert to numeric result is nearly 1.62 mW According to the formula. calculate the test exclusion thresholds:

General RF Exposure = $\frac{(Max. Power of channel, including tune - up tolerance, mW) * \sqrt{f(GHZ)}}{(GHZ)}$

General RF Exposure = $(1.62 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz} = 0.50}$ (1) SAR requirement: S = 3.0 (2) (1) < (2) So the SAR report is not required.

(*) Max. power refer to Report No.:SZEM190801699403

- 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-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 documents. This document is 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 relatined 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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com. 中国 • 深圳 • 科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com