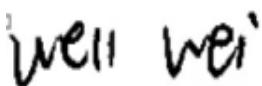


FCC SAR TEST REPORT

Application No.: SEWM2308000314RG
Applicant: Shenzhen Tinno Mobile Technology Corp.
Manufacturer: Shenzhen Tinno Mobile Technology Corp.
Product Name: Smart Phone
Model No.(EUT): Celero3 5G
FCC ID: XD6U653DS
Standards: FCC 47CFR §2.1093
Date of Receipt: 2023/08/23
Date of Test: 2023/09/25 to 2023/09/28
Date of Issue: 2023/10/16
Test conclusion: **PASS ***

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Well Wei

Wireless Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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-Documents.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 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@sgs.com

South No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 刊编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

REVISION HISTORY

Report Number	Revision	Description	Issue Date
SEWM2308000314RG10	01	Original	2023/10/16

Reviewed by



Nick Hu

Prepared by



Leon Xu

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 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.

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



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
WI-FI 6E	0.72	0.98	0.36	0.97
NFC	-	-	-	<0.10
SAR Limited(W/kg)	1.6			4.0
Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR
Sum SAR	0.72	0.98	0.36	0.97
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1

Note

Above information is provided and confirmed by the applicant. This report is only for WiFi6e/NFC testing.



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 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

CONTENTS

1 GENERAL INFORMATION	6
1.1 DETAILS OF CLIENT.....	6
1.2 TEST LOCATION	6
1.3 TEST FACILITY.....	7
1.4 GENERAL DESCRIPTION OF EUT.....	8
1.4.1 DUT Antenna Locations (Back View).....	9
1.4.2 LTE CA additional specification	<i>Error! Bookmark not defined.</i>
1.4.3 Power reduction specification.....	10
1.5 TEST SPECIFICATION	11
1.6 RF EXPOSURE LIMITS.....	12
2 LABORATORY ENVIRONMENT	13
3 SAR MEASUREMENTS SYSTEM CONFIGURATION	14
3.1 THE SAR MEASUREMENT SYSTEM.....	14
3.2 ISOTROPIC E-FIELD PROBE EX3DV4	15
3.3 DATA ACQUISITION ELECTRONICS (DAE)	16
3.4 SAM TWIN PHANTOM	16
3.5 ELI PHANTOM	17
3.6 DEVICE HOLDER FOR TRANSMITTERS.....	18
3.7 MEASUREMENT PROCEDURE	19
3.7.1 Scanning procedure.....	19
3.7.2 Data Storage.....	21
3.7.3 Data Evaluation by SEMCAD.....	21
4 SAR MEASUREMENT VARIABILITY AND UNCERTAINTY	23
4.1 SAR MEASUREMENT VARIABILITY	23
4.2 SAR MEASUREMENT UNCERTAINTY	<i>ERROR! BOOKMARK NOT DEFINED.</i>
5 DESCRIPTION OF TEST POSITION	24
5.1 HEAD EXPOSURE CONDITION	25
5.1.1 SAM Phantom Shape	25
5.1.2 EUT constructions.....	26
5.1.3 Definition of the "cheek" position.....	26
5.1.4 Definition of the "tilted" position.....	27
5.2 BODY EXPOSURE CONDITION	28
5.2.1 Body-worn accessory exposure conditions.....	28
5.2.2 Wireless Router exposure conditions.....	29
5.3 EXTREMITY EXPOSURE CONDITIONS	29
6 SAR SYSTEM VERIFICATION PROCEDURE	30
6.1 TISSUE SIMULATE LIQUID	30
6.1.1 Recipes for Tissue Simulate Liquid	30
6.1.2 Measurement for Tissue Simulate Liquid	31
6.2 SAR SYSTEM CHECK	32
6.2.1 Justification for Extended SAR Dipole Calibrations	33
6.2.2 Summary System Check Result(s).....	34
6.2.3 Detailed System Check Results.....	34



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 herein 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.

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

South No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

7 TEST CONFIGURATION	35
7.1 3G SAR TEST REDUCTION PROCEDURE	ERROR! BOOKMARK NOT DEFINED.
7.2 OPERATION CONFIGURATIONS	35
7.2.1 GSM Test Configuration	35
7.2.2 WCDMA Test Configuration	ERROR! Bookmark not defined.
7.2.3 WiFi Test Configuration	ERROR! Bookmark not defined.
7.2.4 LTE Test Configuration	ERROR! Bookmark not defined.
7.2.5 NR Band Test Configuration	ERROR! Bookmark not defined.
8 TEST RESULT	39
8.1 MEASUREMENT OF RF CONDUCTED POWER	39
8.2 MEASUREMENT OF SAR DATA	40
8.2.1 SAR Result of WIFI 6E	41
8.3 MULTIPLE TRANSMITTER EVALUATION	45
8.3.1 Simultaneous SAR SAR test evaluation	45
8.3.2 Simultaneous Transmission SAR Summation Scenario	46
9 EQUIPMENT LIST	59
10 CALIBRATION CERTIFICATE	60
11 PHOTOGRAPHS	60
APPENDIX A: DETAILED SYSTEM CHECK RESULTS	60
APPENDIX B: DETAILED TEST RESULTS	60
APPENDIX C: CALIBRATION CERTIFICATE	60
APPENDIX D: PHOTOGRAPHS	60
APPENDIX E: CONDUCTED RF OUTPUT POWER	60
APPENDIX F: ANTENNA LOCATIONS	ERROR! BOOKMARK NOT DEFINED.



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 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 副编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

1 General Information

1.1 Details of Client

Applicant:	Shenzhen Tinno Mobile Technology Corp.
Address:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC
Manufacturer:	Shenzhen Tinno Mobile Technology Corp.
Address:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC

1.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test Engineer:	Alan Zhang

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 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.

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



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区胜浦路1号的6号厂房南部

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

1.3 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 Branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **Innovation, Science and Economic Development Canada**

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

CAB identifier: CN0006.

IC#: 4620C.

• **FCC –Designation Number: CN1336**

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

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



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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 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.

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980 sgs.china@sgs.com

1.4 General Description of EUT

Device Type :	portable device				
Exposure Category:	uncontrolled environment / general population				
Product Name:	Mobile Phone				
Model No.(EUT):	Celero3 5G				
FCC ID:	XD6U653DS				
Product Phase:	Identical Prototype				
IMEI:	860284060018164, 860284060014858				
Hardware Version:	V1.0				
Software Version:	/				
Antenna Type:	Fixed Internal Antenna, PIFA Antenna				
Device Operating Configurations :					
Modulation Mode:	WIFI: DSSS, OFDM, OFDMA NFC: ASK				
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)		
	Wi-Fi 6E	5925-6425	5925-6425		
		6425-6525	6425-6525		
		6525-6875	6525-6875		
		6875-7125	6875-7125		
	NFC	13.56	13.56		
RF Cable:	<input checked="" type="checkbox"/> Provided by the applicant <input type="checkbox"/> Provided by the laboratory				
Battery Information:	Model:	486786			
	Normal Voltage:	+3.85V			
	Rated capacity:	4900mAh			
	Manufacturer:	Guangdong Fenghua New Energy Co.,Ltd.			
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.					
Remark: As above information is provided and confirmed by the applicant. 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/General-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 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.

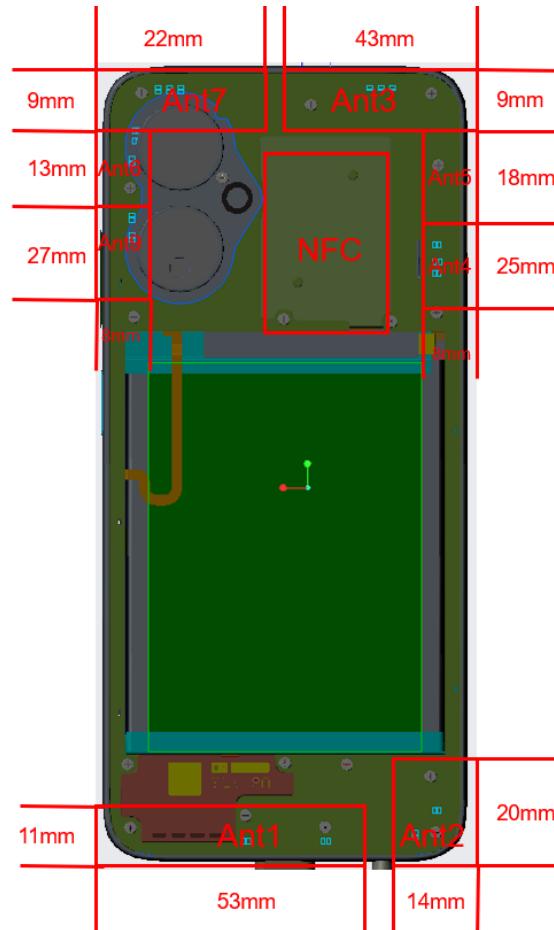
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-512) 62992980, or email: CN_Doccheck@sgs.com

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

1.4.1 DUT Antenna Locations (Back View)



Antenna	TX Bands
Ant 1	GSM:850, WCDMA:B5 LTE:B5/B12/B14/B17/B26/B29/B71 SA:N5/26/29/41/71
Ant 2	GSM:1900, WCDMA:B2/4 LTE:B2/4/66 SA:N2/25/66/70/77
Ant 3	LTE:B2/4/30/66/70 SA:N2/25/30/41/66/70
Ant 4	SA:N41/77
Ant 5	LTE:B48 SA:N48/77
Ant 6	SA:N41/77
Ant 7	WiFi2.4G/5G/6E BT
Ant 8	NFC
Ant 9	WiFi2.4G/5G/6E



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 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

1.4.2 Power reduction specification

This device uses a single fixed level of power reduction through static table look-up for SAR compliance and it is triggered by a single event or operation

- 1) A fixed level power reduction is applied for some frequency bands when hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.
- 2) A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions.
- 3) This device uses the receiver to indicate whether the user is making a voice call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. A fixed level power reduction is applied for some frequency bands when the audio receiver is on.

The detailed power reduction information can be referred to Appendix E (Conducted RF Output Power).



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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-Documents.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 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@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
IEC/IEEE 62209-1528:2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802.11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D04	General RF Exposure Guidance v01
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02



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 herein 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

1.6 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

Notes:

* The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

** The Spatial Average value of the SAR averaged over the whole body.

*** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.)



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 herein 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

Table 1: The Ambient Conditions



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 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 制编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

3 SAR Measurements System Configuration

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

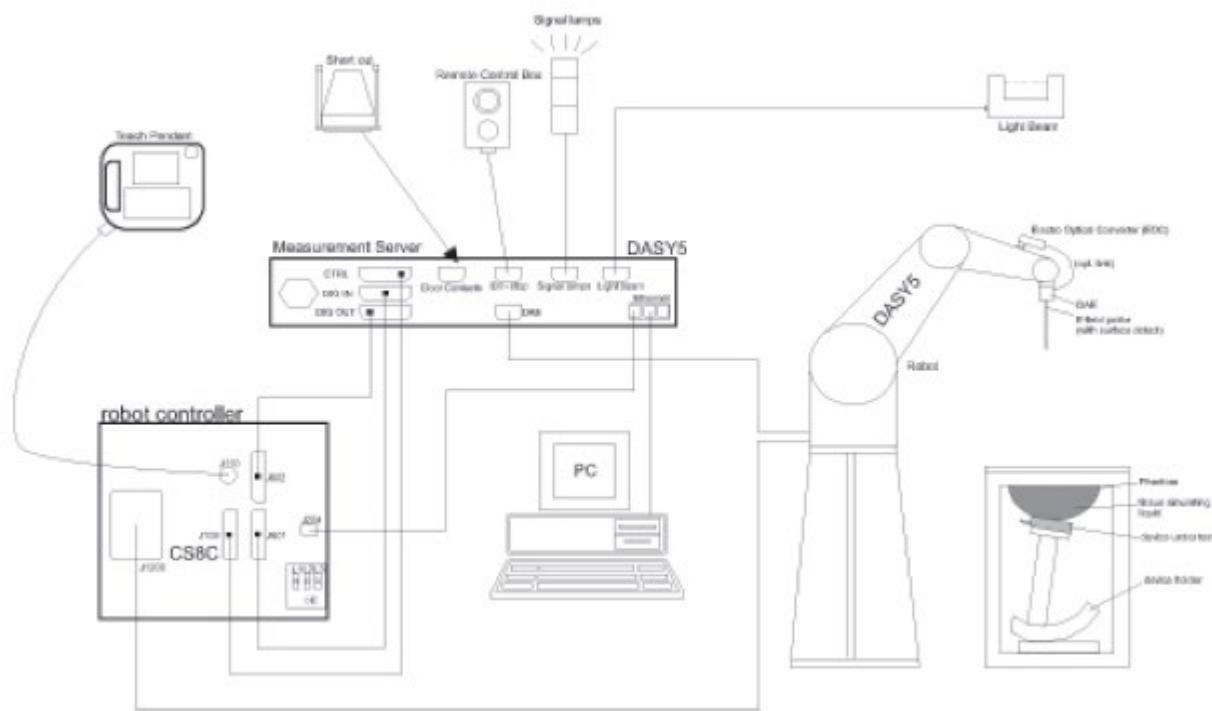
The DASY5 system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stable RX family) with controller, teach pendant and software .An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration

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 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.

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

Attention: To check the authentic or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd
Wireless Laboratory

Attention: To check the authenticity of testing / inspection report & certificate or email: CN.Doccheck@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

Please contact us at telephone: (86-755) 8307 1443,
e-mail: t_86-512_62992980@sgs.com or www.sgsgroup.com.cn

- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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-Documents.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 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@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980 sgs.china@sgs.com

3.3 Data Acquisition Electronics (DAE)

Model	DAE	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV, 400mV)	
Input Offset Voltage	< 5µV (with auto zero)	
Input Bias Current	< 50 fA	
Dimensions	60 x 60 x 68 mm	

3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	approx. 25 liters	
Wooden Support	SPEAG standard phantom table	

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

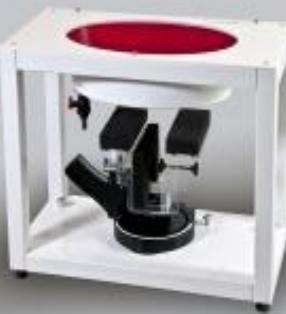
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/General-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2.0 ± 0.2 mm (bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	approx. 30 liters	
Wooden Support	SPEAG standard phantom table	
<p>Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 10 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.</p> <p>ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.</p>		



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-Documents.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 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@sgs.com

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 制编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon=3$ and loss tangent $\delta=0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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 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.

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm. Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 32mm*32mm*30mm (f≤2GHz), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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/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 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.

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

		≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
		≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}		≤ 2 GHz: ≤ 8 mm $2 - 3$ GHz: ≤ 5 mm*	$3 - 4$ GHz: ≤ 5 mm* $4 - 6$ GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$	≤ 5 mm	$3 - 4$ GHz: ≤ 4 mm $4 - 5$ GHz: ≤ 3 mm $5 - 6$ GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$
Minimum zoom scan volume	x, y, z	≥ 30 mm	$3 - 4$ GHz: ≥ 28 mm $4 - 5$ GHz: ≥ 25 mm $5 - 6$ GHz: ≥ 22 mm

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. $\pm 5\%$



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 <http://www.sgs.com/en/General-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/e-Documents.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 herein 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
- Conversion factor	ConvFi	
- Diode compression point	Dcp <i>i</i>	
Device parameters:	- Frequency	f
- Crest factor	cf	
Media parameters:	- Conductivity	ε
- Density	ρ	

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf / dcp_i$$

With V_i = compensated signal of channel i ($i = x, y, z$)

U_i = input signal of channel i ($i = x, y, z$)

cf = crest factor of exciting field (DASY parameter)

dcp_i = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes:

$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$



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/General-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/e-Documents.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 herein 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.

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

South No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$$

With V_i = compensated signal of channel i $(i = x, y, z)$

Norm i = sensor sensitivity of channel i $(i = x, y, z)$

[mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

a ij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

E i = electric field strength of channel i in V/m

H i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (E_{tot}^2 \cdot \sigma) / (\epsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m

σ = conductivity in [mho/m] or [Siemens/m]

ϵ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 / 3770 \quad \text{or} \quad P_{pwe} = H_{tot}^2 \cdot 37.7$$

with P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m



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 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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 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.

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980 sgs.china@sgs.com

4.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

Measurements and results are all in compliance with the standards listed. All measurements and results are recorded and maintained at the laboratory performing the tests and measurement uncertainties are taken into account when comparing measurements to pass/ fail criteria. The expanded uncertainty (95% CONFIDENCE INTERVAL) is **23.01%**.

a	b	c	d = f(d,k)	F	i = C*g/e	K
Uncertainty Component	Tol (%)	Prob.Dist.	Div.	Ci (1g)	1g ui (%)	Vi(Veff)
Probe calibration	6.65	N	1	1	6.65	∞
Axial isotropy	0.5	R	$\sqrt{3}$	1	0.29	∞
hemispherical isotropy	2.6	R	$\sqrt{3}$	1	1.50	∞
Linearity	0.6	R	$\sqrt{3}$	1	0.35	∞
Probe modulation response	0	R	$\sqrt{3}$	1	0.00	∞
Detection limits	0.25	R	$\sqrt{3}$	1	0.14	∞
Boundary effect	1.0	R	$\sqrt{3}$	1	0.58	∞
Readout electronics	0.3	N	1	1	0.30	∞
Response time	0	R	$\sqrt{3}$	1	0.00	∞
Integration time	2.6	R	$\sqrt{3}$	1	1.50	∞
RF ambient conditions – noise	3	R	$\sqrt{3}$	1	1.73	∞
RF ambient conditions – reflections	3	R	$\sqrt{3}$	1	1.73	∞
Probe positioner mech. restrictions	1.5	R	$\sqrt{3}$	1	0.87	∞
Probe positioning with respect to phantom shell	2.9	R	$\sqrt{3}$	1	1.67	∞
Post-processing	1	R	$\sqrt{3}$	1	0.58	∞
Device holder uncertainty	3.6	N	1	1	3.60	∞
Test sample positioning	3.7	N	1	1	3.70	9
Power scaling	5.0	R	$\sqrt{3}$	1	2.89	∞
Drift of output power (measured SAR drift)	5	R	$\sqrt{3}$	1	2.89	∞
Phantom uncertainty (shape and thickness tolerances)	4	R	$\sqrt{3}$	1	2.31	∞
Algorithm for correcting SAR for deviations in permittivity and conductivity	1.9	N	1	1	1.90	∞
Liquid conductivity (meas.)	5.78	N	1	0.78	4.51	4
Liquid permittivity (meas.)	0.62	N	1	0.23	0.14	5
Liquid permittivity –temperature uncertainty	0.2	R	$\sqrt{3}$	0.78	0.09	∞
Liquid conductivity –temperature uncertainty	5.37	R	$\sqrt{3}$	0.23	071	∞
Combined standard uncertainty RSS					11.51	417
Expanded uncertainty (95% CONFIDENCE INTERVAL)	k=2				23.01	

Table 1: Measurement Uncertainty.



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 herein 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.

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

South No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

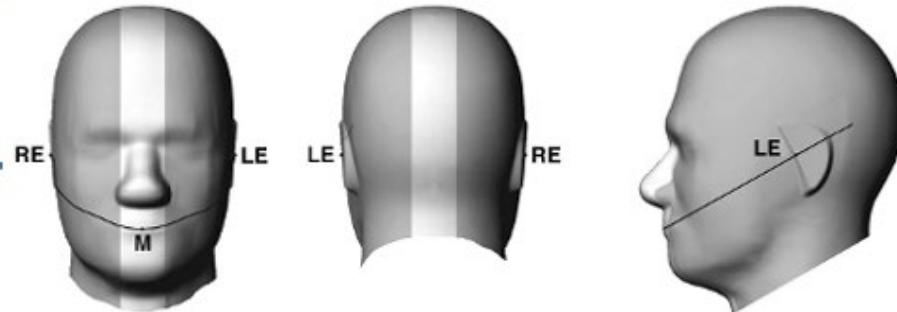
t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980 sgs.china@sgs.com

5 Description of Test Position

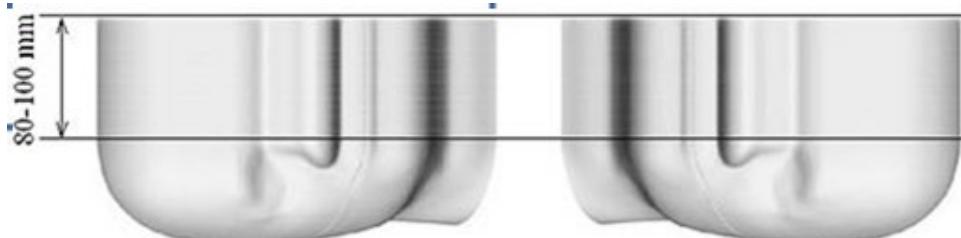
5.1 Head Exposure Condition

5.1.1 SAM Phantom Shape

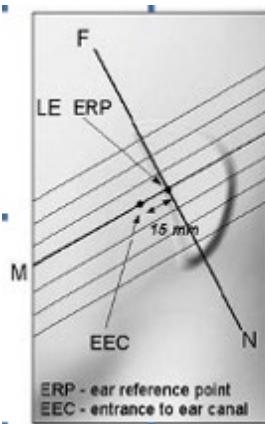


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

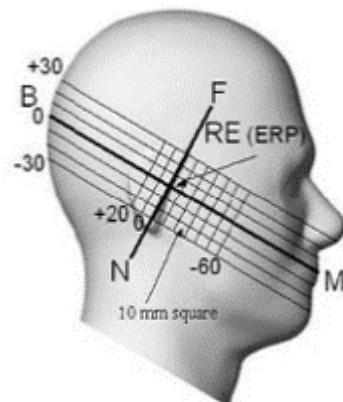
Note: The centre strip including the nose region has a different thickness tolerance.



F-4. Sagittally bisected phantom with extended perimeter (shown placed on its side as used for SAR measurements)



F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations



F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations



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/e-Documents.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 herein 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.

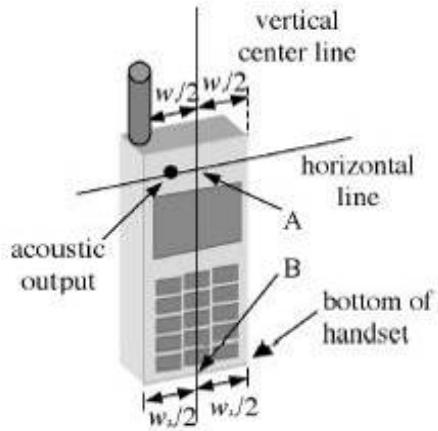
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

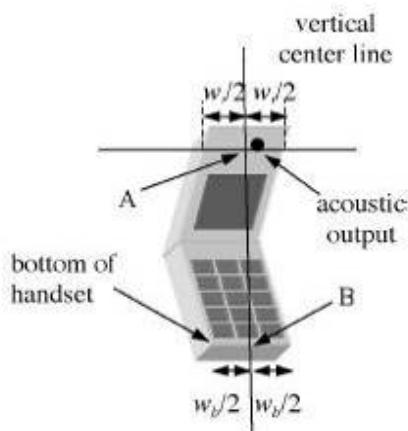
South No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区胜浦路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

5.1.2 EUT constructions



F-7. Handset vertical and horizontal reference lines-“fixed case”



F-8. Handset vertical and horizontal reference lines-“clam-shell case”

5.1.3 Definition of the “cheek” position

- Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom ("initial position"). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.
- Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



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 herein 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.

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

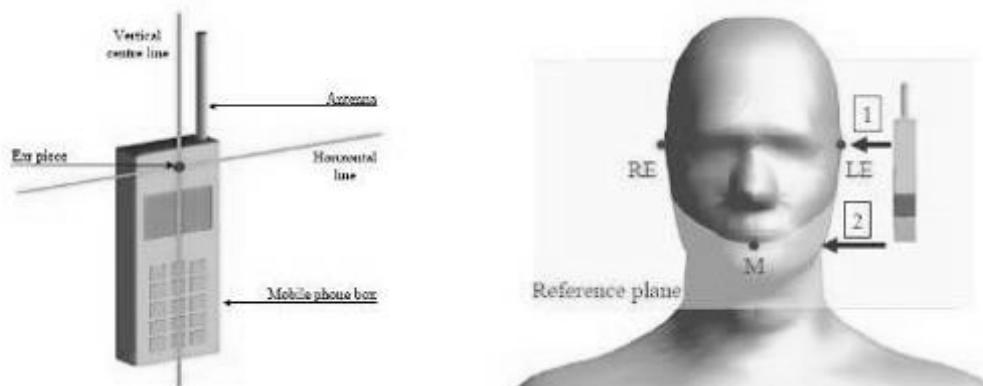
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

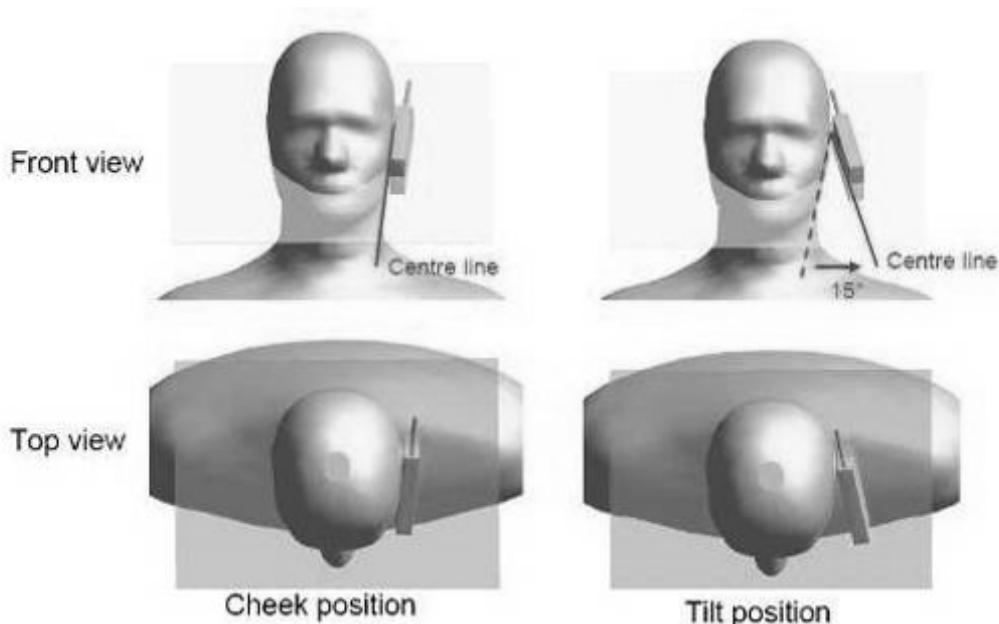
t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

5.1.4 Definition of the “tilted” position

- Position the device in the “cheek” position described above.
- While maintaining the device in the reference plane described above and pivoting against the ear, move it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.



F-9. Definition of the reference lines and points, on the phone and on the phantom and initial position



F-10. “Cheek” and “tilt” positions of the mobile phone on the left side



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 herein 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

5.2 Body Exposure Condition

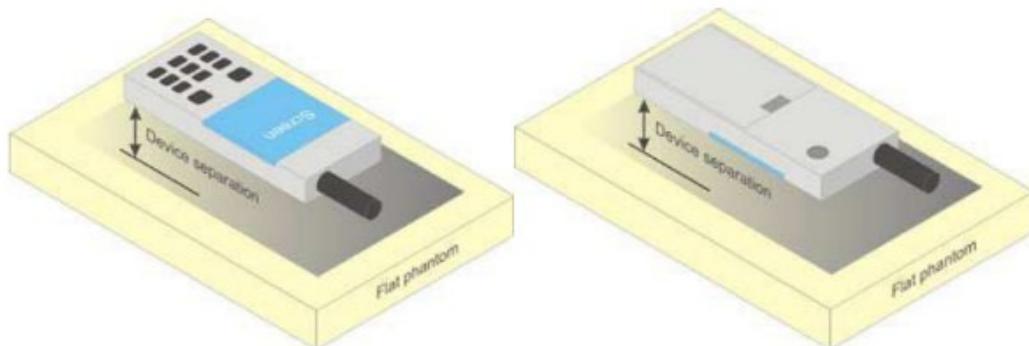
5.2.1 Body-worn accessory exposure conditions

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per FCC KDB Publication 648474 D04, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.



F-11. Test positions for body-worn devices



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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/e-Documents.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 herein 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.

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

5.2.2 Wireless Router exposure conditions

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WiFi simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed-use conditions for this type of devices. For devices with form factors smaller than 9 cm x 5 cm, a test separation distance of 5 mm is required.

5.3 Extremity exposure conditions

Per FCC KDB 648474D04, for smart phones with a display diagonal dimension $> 15.0 \text{ cm}$ or an overall diagonal dimension $> 16.0 \text{ cm}$ that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as "Phablet".

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at $\leq 25 \text{ mm}$ from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR $> 1.2 \text{ W/kg}$; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Due to the SAR result, only the following frequency bands need to test with 0mm for the Product Specific 10-g SAR, the others are not required.

WIFI 6E (Ant9):

Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 10mm)											
Front side	802.11ax 80M	119/6545	100.00%	1.000	0.017	0.02	8.30	14.50	4.169	0.071	Yes
Back side	802.11ax 80M	119/6545	100.00%	1.000	0.245	0.09	8.30	14.50	4.169	1.021	Yes
Right side	802.11ax 80M	119/6545	100.00%	1.000	0.090	0.11	8.30	14.50	4.169	0.375	Yes
Top side	802.11ax 80M	119/6545	100.00%	1.000	0.044	0.02	8.30	14.50	4.169	0.183	Yes
Back side	802.11ax 80M	7/5985	100.00%	1.000	0.116	-0.05	8.10	14.50	4.365	0.506	Yes
Back side	802.11ax 80M	87/6385	100.00%	1.000	0.298	0.04	8.21	14.50	4.256	1.268	No
Back side	802.11ax 80M	167/6785	100.00%	1.000	0.271	0.05	7.97	14.50	4.498	1.219	No
Back side	802.11ax 80M	215/7025	100.00%	1.000	0.178	0.01	7.90	14.50	4.571	0.814	Yes

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/General-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-Documents.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 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@sgs.com



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

HSL13MHz is composed of the following ingredients:

Water: 50-90%

Non-ionic detergents: 5-50%

NaCl: 0-2%

Preservative: 0.03-0.1%

HSL600Mhz-10GHz is composed of the following ingredients: (Manufactured by SPEAG)

Water: 50-65%

Mineral oil: 10-30%

Emulsifiers: 8-25%

Sodium salt: 0-1.5%

Table 2: Recipe of Tissue Simulate Liquid



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 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 制编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ϵ_r) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22\pm2^\circ\text{C}$.

Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue ($\pm 5\%$)		Deviation (Within $\pm 5\%$)		Liquid Temp. (°C)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
13 Head	13	55.00	0.75	54.100	0.736	-1.64%	-1.87%	22.5	2023/9/25
6500 Head	6500	34.500	6.060	34.50	6.07	0.00%	-0.16%	22.6	2023/9/25
6500 Head	6500	33.900	6.150	34.50	6.07	-1.74%	1.32%	22.6	2023/9/28

Table 3: Measurement result of Tissue electric parameters



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/General-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/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 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@sgs.com

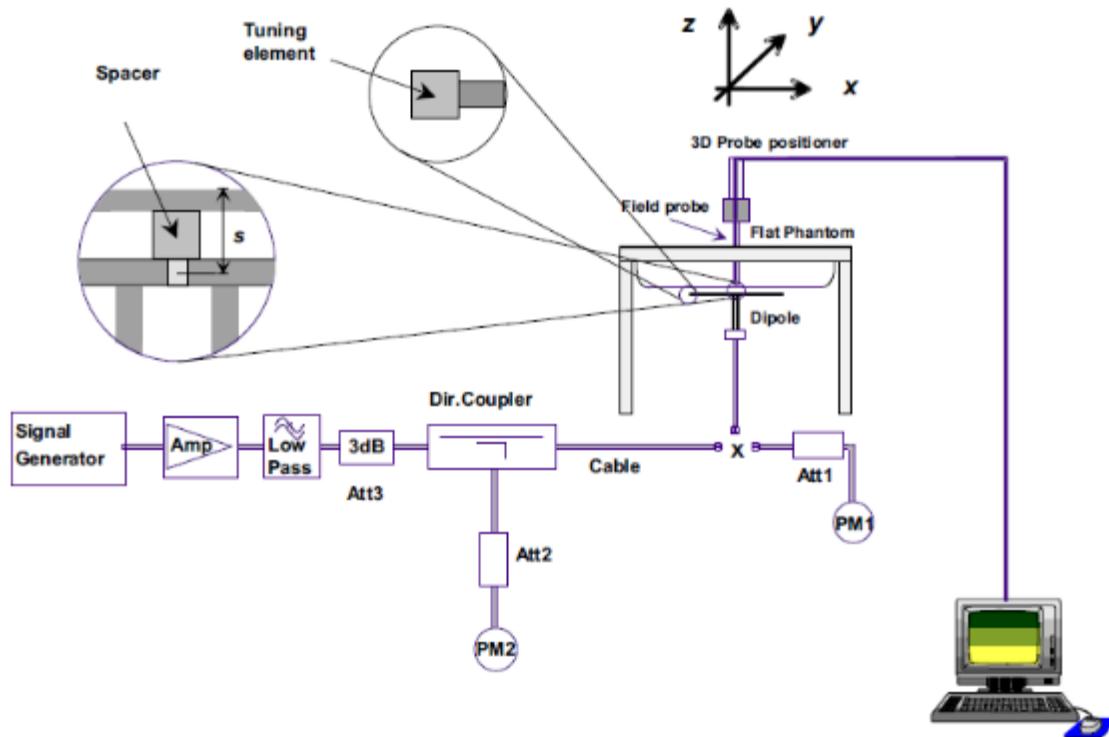
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range $22\pm2^{\circ}\text{C}$, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15 ± 0.5 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12. the microwave circuit arrangement used for SAR system check



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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 herein 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.

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980 sgs.china@sgs.com

6.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
 - a) There is no physical damage on the dipole;
 - b) System check with specific dipole is within 10% of calibrated value;
 - c) Return-loss is within 10% of calibrated measurement;
 - d) Impedance is within 5Ω from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.

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/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 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@sgs.com



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

6.2.2 Summary System Check Result(s)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
CLA-13	Head	0.11	0.07	0.46	0.29	0.42	0.27	8.31%	8.27%	22.5	2023/9/25
D6500V2	Head(6.5GHz)	26.50	4.85	265.00	48.50	290.00	52.60	-8.62%	-7.79%	22.6	2023/9/25
	Head(6.5GHz)	27.00	4.93	270.00	49.30	290.00	52.60	-6.90%	-6.27%	22.6	2023/9/28

Table 4: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A

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>, for electronic format documents, subject to the Company's Terms and Conditions at <http://www.sgs.com/en/Terms-and-Conditions-Terms-Documents.aspx>. Attention is drawn to the limitations of liability, indemnification terms and other terms defined therein. Any finding of the Company 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.

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

7 Test Configuration

7.1 Operation Configurations

7.1.1 WIFI Test Configuration

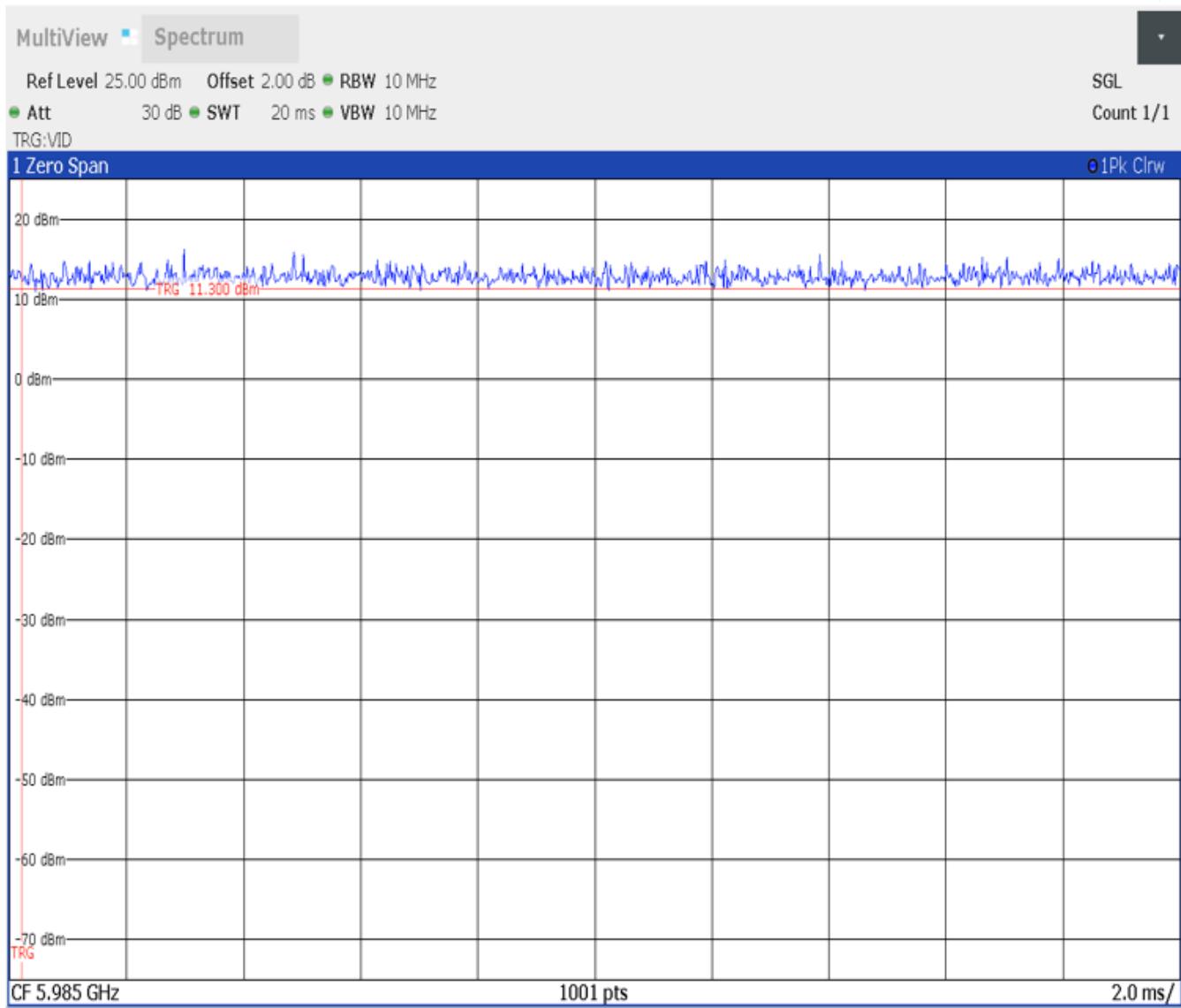
A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.1.1.1

Duty cycle

1) Wi-Fi 6E 802.11AX80MIMO:

Duty cycle=100%



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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/e-Documents.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 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@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

7.1.1.2

Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

- 1) . When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- 2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) . For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

7.1.1.3

Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration.

For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the *reported* SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until *reported* SAR is ≤ 1.2 W/kg or all required channels are tested.

7.1.1.4

Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

- 1) . When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- 2) . When the highest *reported* SAR for the initial test configuration (when applicable, include subsequent



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/General-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-Documents.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 herein 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.

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

South No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 制编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

- 3) The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - a) SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
 - b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the *reported* SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
 - a) replace “subsequent test configuration” with “next subsequent test configuration” (i.e., subsequent next highest specified maximum output power configuration)
 - b) replace “initial test configuration” with “all tested higher output power configurations”



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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/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 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.

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

• OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- 1) The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- 2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- 4) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n.

After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.

- a) The channel closest to mid-band frequency is selected for SAR measurement.
- b) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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 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.

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

8 Test Result

8.1 Measurement of RF conducted Power

The detailed conducted power can be referred to Appendix E.

Note:

- 1) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
- 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
- 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.



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 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

8.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8 \text{ W/kg}$ for 1-g or 2.0 W/kg for 10-g respectively, when the transmission band is $\leq 100 \text{ MHz}$.
 - $\leq 0.6 \text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz .
 - $\leq 0.4 \text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200 \text{ MHz}$.

NFC:

- 1) NFC SAR is measured for all edges and surfaces of the device.
- 2) NFC 13.56MHz antenna por is not available on the device to support conducted power measurement, therefore the measured results are referred to as reported SAR.
- 3) NFC SAR test tissue-simulating liquid parameter refer to IEC/IEEE 62209-1528 2020.



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 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

8.2.1 SAR Result of WIFI 6E

Test Record ANT7											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data											
Left cheek	802.11ax 80M	119/6545	100.00%	1.000	0.114	-0.01	14.41	14.50	1.021	0.116	22.6
Left tilted	802.11ax 80M	119/6545	100.00%	1.000	0.109	0.07	14.41	14.50	1.021	0.111	22.6
Right cheek	802.11ax 80M	119/6545	100.00%	1.000	0.086	0.02	14.41	14.50	1.021	0.088	22.6
Right tilted	802.11ax 80M	119/6545	100.00%	1.000	0.109	0.04	14.41	14.50	1.021	0.111	22.6
Left cheek	802.11ax 80M	7/5985	100.00%	1.000	0.669	-0.05	14.17	14.50	1.079	0.722	22.6
Left cheek	802.11ax 80M	87/6385	100.00%	1.000	0.280	0.04	14.38	14.50	1.028	0.288	22.6
Left cheek	802.11ax 80M	167/6785	100.00%	1.000	0.160	0.02	13.97	14.50	1.130	0.181	22.6
Left cheek	802.11ax 80M	215/7025	100.00%	1.000	0.596	0.02	13.97	14.50	1.130	0.673	22.6
Head Test data with Simultaneous Transmission											
Left cheek	802.11ax 80M	119/6545	100.00%	1.000	0.114	-0.01	14.41	11.50	0.512	0.058	22.6
Left tilted	802.11ax 80M	119/6545	100.00%	1.000	0.109	0.07	14.41	11.50	0.512	0.056	22.6
Right cheek	802.11ax 80M	119/6545	100.00%	1.000	0.086	0.02	14.41	11.50	0.512	0.044	22.6
Right tilted	802.11ax 80M	119/6545	100.00%	1.000	0.109	0.04	14.41	11.50	0.512	0.056	22.6
Left cheek	802.11ax 80M	7/5985	100.00%	1.000	0.669	-0.05	14.17	11.50	0.541	0.362	22.6
Left cheek	802.11ax 80M	87/6385	100.00%	1.000	0.280	0.04	14.38	11.50	0.515	0.144	22.6
Left cheek	802.11ax 80M	167/6785	100.00%	1.000	0.160	0.02	13.97	11.50	0.566	0.091	22.6
Left cheek	802.11ax 80M	215/7025	100.00%	1.000	0.596	0.02	13.97	11.50	0.566	0.337	22.6
Body worn Test data(Separate 15mm)											
Front side	802.11ax 80M	119/6545	100.00%	1.000	0.024	0.12	14.41	14.50	1.021	0.025	22.6
Back side	802.11ax 80M	119/6545	100.00%	1.000	0.045	-0.02	14.41	14.50	1.021	0.046	22.6
Back side	802.11ax 80M	7/5985	100.00%	1.000	0.443	0.03	14.17	14.50	1.079	0.478	22.6
Back side	802.11ax 80M	87/6385	100.00%	1.000	0.162	-0.02	14.38	14.50	1.028	0.167	22.6
Back side	802.11ax 80M	167/6785	100.00%	1.000	0.044	0.05	13.97	14.50	1.130	0.050	22.6
Back side	802.11ax 80M	215/7025	100.00%	1.000	0.121	0.09	13.97	14.50	1.130	0.137	22.6
Hotspot Test data(Separate 10mm)											
Front side	802.11ax 80M	119/6545	100.00%	1.000	0.008	0.10	8.48	9.00	1.127	0.009	22.6
Back side	802.11ax 80M	119/6545	100.00%	1.000	0.019	0.04	8.48	9.00	1.127	0.021	22.6
Right side	802.11ax 80M	119/6545	100.00%	1.000	0.008	-0.03	8.48	9.00	1.127	0.009	22.6
Top side	802.11ax 80M	119/6545	100.00%	1.000	0.012	0.09	8.48	9.00	1.127	0.014	22.6
Back side	802.11ax 80M	7/5985	100.00%	1.000	0.190	0.02	8.14	9.00	1.219	0.232	22.6
Back side	802.11ax 80M	87/6385	100.00%	1.000	0.048	0.09	8.47	9.00	1.130	0.054	22.6
Back side	802.11ax 80M	167/6785	100.00%	1.000	0.020	0.02	7.99	9.00	1.262	0.025	22.6
Back side	802.11ax 80M	215/7025	100.00%	1.000	0.041	0.07	7.96	9.00	1.271	0.052	22.6
Test Record ANT9											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data											
Left cheek	802.11ax 80M	119/6545	100.00%	1.000	0.104	0.03	14.38	14.50	1.028	0.107	22.6
Left tilted	802.11ax 80M	119/6545	100.00%	1.000	0.092	0.06	14.38	14.50	1.028	0.095	22.6
Right cheek	802.11ax 80M	119/6545	100.00%	1.000	0.057	-0.03	14.38	14.50	1.028	0.059	22.6
Right tilted	802.11ax 80M	119/6545	100.00%	1.000	0.029	0.02	14.38	14.50	1.028	0.030	22.6
Left cheek	802.11ax 80M	7/5985	100.00%	1.000	0.058	0.11	14.07	14.50	1.104	0.064	22.6
Left cheek	802.11ax 80M	87/6385	100.00%	1.000	0.115	0.06	14.36	14.50	1.033	0.119	22.6

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-Documents.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 herein 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.

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

SGS-CSTC Standards Technical Services (Shenzhen) Co., Ltd.
Wireless Laboratory

South No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Left cheek	802.11ax 80M	167/6785	100.00%	1.000	0.101	0.04	13.96	14.50	1.132	0.114	22.6
Left cheek	802.11ax 80M	215/7025	100.00%	1.000	0.097	0.10	13.86	14.50	1.159	0.112	22.6
Body worn Test data(Separate 15mm)											
Front side	802.11ax 80M	119/6545	100.00%	1.000	0.033	0.11	14.38	14.50	1.028	0.034	22.6
Back side	802.11ax 80M	119/6545	100.00%	1.000	0.782	0.04	14.38	14.50	1.028	0.804	22.6
Back side	802.11ax 80M	7/5985	100.00%	1.000	0.393	0.09	14.07	14.50	1.104	0.434	22.6
Back side	802.11ax 80M	87/6385	100.00%	1.000	0.952	0.13	14.36	14.50	1.033	0.983	22.6
Back side-Repeat SAR	802.11ax 80M	87/6385	100.00%	1.000	0.947	0.02	14.36	14.50	1.033	0.978	22.6
Back side	802.11ax 80M	167/6785	100.00%	1.000	0.797	0.02	13.96	14.50	1.132	0.903	22.6
Back side	802.11ax 80M	215/7025	100.00%	1.000	0.568	-0.04	13.86	14.50	1.159	0.658	22.6
Body worn Test data(Separate 15mm) with Simultaneous Transmission											
Front side	802.11ax 80M	119/6545	100.00%	1.000	0.033	0.11	14.38	12.00	0.578	0.019	22.6
Back side	802.11ax 80M	119/6545	100.00%	1.000	0.782	0.04	14.38	12.00	0.578	0.452	22.6
Back side	802.11ax 80M	7/5985	100.00%	1.000	0.393	0.09	14.07	12.00	0.621	0.244	22.6
Back side	802.11ax 80M	87/6385	100.00%	1.000	0.952	0.13	14.36	12.00	0.581	0.553	22.6
Back side-Repeat SAR	802.11ax 80M	87/6385	100.00%	1.000	0.947	0.02	14.36	12.00	0.581	0.550	22.6
Back side	802.11ax 80M	167/6785	100.00%	1.000	0.797	0.02	13.96	12.00	0.637	0.508	22.6
Back side	802.11ax 80M	215/7025	100.00%	1.000	0.568	-0.04	13.86	12.00	0.652	0.370	22.6
Hotspot Test data(Separate 10mm)											
Front side	802.11ax 80M	119/6545	100.00%	1.000	0.017	0.02	8.30	9.00	1.175	0.020	22.6
Back side	802.11ax 80M	119/6545	100.00%	1.000	0.245	0.09	8.30	9.00	1.175	0.288	22.6
Right side	802.11ax 80M	119/6545	100.00%	1.000	0.090	0.11	8.30	9.00	1.175	0.106	22.6
Top side	802.11ax 80M	119/6545	100.00%	1.000	0.044	0.02	8.30	9.00	1.175	0.052	22.6
Back side	802.11ax 80M	7/5985	100.00%	1.000	0.116	-0.05	8.10	9.00	1.230	0.143	22.6
Back side	802.11ax 80M	87/6385	100.00%	1.000	0.298	0.04	8.21	9.00	1.199	0.357	22.6
Back side	802.11ax 80M	167/6785	100.00%	1.000	0.271	0.05	7.97	9.00	1.268	0.344	22.6
Back side	802.11ax 80M	215/7025	100.00%	1.000	0.178	0.01	7.90	9.00	1.288	0.229	22.6
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data(Separate 0mm)											
Back side	802.11ax 80M	119/6545	100.00%	1.000	0.756	0.01	14.38	14.50	1.028	0.777	22.6
Back side	802.11ax 80M	7/5985	100.00%	1.000	0.475	0.08	14.07	14.50	1.104	0.524	22.6
Back side	802.11ax 80M	87/6385	100.00%	1.000	0.942	0.03	14.36	14.50	1.033	0.973	22.6
Back side	802.11ax 80M	167/6785	100.00%	1.000	0.828	-0.16	13.96	14.50	1.132	0.938	22.6
Back side	802.11ax 80M	215/7025	100.00%	1.000	0.594	0.05	13.86	14.50	1.159	0.688	22.6
Product specific 10gSAR Test data(Separate 0mm) with Simultaneous Transmission											
Back side	802.11ax 80M	119/6545	100.00%	1.000	0.756	0.01	14.38	12.00	0.578	0.437	22.6
Back side	802.11ax 80M	7/5985	100.00%	1.000	0.475	0.08	14.07	12.00	0.621	0.295	22.6
Back side	802.11ax 80M	87/6385	100.00%	1.000	0.942	0.03	14.36	12.00	0.581	0.547	22.6
Back side	802.11ax 80M	167/6785	100.00%	1.000	0.828	-0.16	13.96	12.00	0.637	0.527	22.6
Back side	802.11ax 80M	215/7025	100.00%	1.000	0.594	0.05	13.86	12.00	0.652	0.387	22.6
Test Record MIMO											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data											
Left cheek	802.11ax 80M	119/6545	100.00%	1.000	0.162	0.06	17.41	17.50	1.021	0.165	22.6
Left tilted	802.11ax 80M	119/6545	100.00%	1.000	0.149	0.03	17.41	17.50	1.021	0.152	22.6
Right cheek	802.11ax 80M	119/6545	100.00%	1.000	0.088	0.09	17.41	17.50	1.021	0.090	22.6

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/General-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 herein 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.

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



South No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

Right tilted	802.11ax 80M	119/6545	100.00%	1.000	0.114	-0.02	17.41	17.50	1.021	0.116	22.6
Left cheek	802.11ax 80M	7/5985	100.00%	1.000	0.121	0.02	17.13	17.50	1.089	0.132	22.6
Left cheek	802.11ax 80M	87/6385	100.00%	1.000	0.243	0.10	17.38	17.50	1.028	0.250	22.6
Left cheek	802.11ax 80M	167/6785	100.00%	1.000	0.194	0.01	16.98	17.50	1.127	0.219	22.6
Left cheek	802.11ax 80M	215/7025	100.00%	1.000	0.156	0.04	16.93	17.50	1.140	0.178	22.6
Body worn Test data(Separate 15mm)											
Front side	802.11ax 80M	119/6545	100.00%	1.000	0.035	0.09	17.41	17.50	1.021	0.036	22.6
Back side	802.11ax 80M	119/6545	100.00%	1.000	0.651	-0.02	17.41	17.50	1.021	0.665	22.6
Back side	802.11ax 80M	7/5985	100.00%	1.000	0.368	-0.02	17.13	17.50	1.089	0.401	22.6
Back side	802.11ax 80M	87/6385	100.00%	1.000	0.711	0.05	17.38	17.50	1.028	0.731	22.6
Back side	802.11ax 80M	167/6785	100.00%	1.000	0.581	0.06	16.98	17.50	1.127	0.655	22.6
Back side	802.11ax 80M	215/7025	100.00%	1.000	0.409	0.11	16.93	17.50	1.140	0.466	22.6
Body worn Test data(Separate 15mm) with Simultaneous Transmission											
Front side	802.11ax 80M	119/6545	100.00%	1.000	0.035	0.09	17.41	17.00	0.910	0.032	22.6
Back side	802.11ax 80M	119/6545	100.00%	1.000	0.651	-0.02	17.41	17.00	0.910	0.592	22.6
Back side	802.11ax 80M	7/5985	100.00%	1.000	0.368	-0.02	17.13	17.00	0.971	0.357	22.6
Back side	802.11ax 80M	87/6385	100.00%	1.000	0.711	0.05	17.38	17.00	0.916	0.651	22.6
Back side	802.11ax 80M	167/6785	100.00%	1.000	0.581	0.06	16.98	17.00	1.005	0.584	22.6
Back side	802.11ax 80M	215/7025	100.00%	1.000	0.409	0.11	16.93	17.00	1.016	0.416	22.6
Hotspot Test data(Separate 10mm)											
Front side	802.11ax 80M	119/6545	100.00%	1.000	0.010	0.02	11.40	12.00	1.148	0.011	22.6
Back side	802.11ax 80M	119/6545	100.00%	1.000	0.150	0.01	11.40	12.00	1.148	0.172	22.6
Right side	802.11ax 80M	119/6545	100.00%	1.000	0.077	0.10	11.40	12.00	1.148	0.088	22.6
Top side	802.11ax 80M	119/6545	100.00%	1.000	0.026	0.07	11.40	12.00	1.148	0.030	22.6
Back side	802.11ax 80M	7/5985	100.00%	1.000	0.112	0.07	11.13	12.00	1.222	0.137	22.6
Back side	802.11ax 80M	87/6385	100.00%	1.000	0.254	-0.03	11.35	12.00	1.161	0.295	22.6
Back side	802.11ax 80M	167/6785	100.00%	1.000	0.213	0.02	10.99	12.00	1.262	0.269	22.6
Back side	802.11ax 80M	215/7025	100.00%	1.000	0.137	0.05	10.94	12.00	1.276	0.175	22.6

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated		Ratio	2 nd Repeated		3 rd Repeated	
			SAR (1g)			SAR (1g)		SAR (1g)	
Back side	87/6385	0.952	0.947	1.005		N/A		N/A	

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

Table 5: SAR of WIFI 6E for Head and Body and Product specific 10g SAR.



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/General-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/e-Documents.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 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@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

8.2.2 SAR Result of NFC

Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
NFC Test data (Separate 0mm)									
Front side	NFC	13.56MHz	100.00%	1.000	0.001	0.01	1.000	0.001	22.5
Back side	NFC	13.56MHz	100.00%	1.000	0.047	-0.05	1.000	0.047	22.5
Left side	NFC	13.56MHz	100.00%	1.000	0.001	-0.11	1.000	0.001	22.5
Right side	NFC	13.56MHz	100.00%	1.000	0.001	-0.04	1.000	0.001	22.5
Top side	NFC	13.56MHz	100.00%	1.000	0.001	0.02	1.000	0.001	22.5
Bottom side	NFC	13.56MHz	100.00%	1.000	0.001	0.12	1.000	0.001	22.5

Table 6: SAR of NFC Product specific 10g SAR.



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 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR SAR test evaluation

- Simultaneous Transmission Possibilities

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WLAN 2.4GHz (Ant 7)	Yes	Yes	Yes	No
2	WWAN + WLAN 2.4GHz MIMO	Yes	Yes	Yes	No
3	WWAN + WLAN 6E (Ant 7)	Yes	Yes	Yes	No
4	WWAN + WLAN 6E MIMO	Yes	Yes	Yes	No
5	WWAN + WLAN 2.4GHz (Ant 9) + BT	Yes	Yes	Yes	No
6	WWAN + WLAN 5GHz (Ant 7) + BT	Yes	Yes	Yes	No
7	WWAN + WLAN 5GHz (Ant 9) + BT	Yes	Yes	Yes	No
8	WWAN + WLAN 5GHz MIMO + BT	Yes	Yes	Yes	No
9	WWAN + WLAN 6E (Ant 9) + BT	Yes	Yes	Yes	No
10	WWAN + WLAN 5GHz (Ant 7)	No	No	No	Yes
11	WWAN + WLAN 5GHz (Ant 9)	No	No	No	Yes
12	WWAN + WLAN 5GHz MIMO	No	No	No	Yes
13	WWAN + WLAN 6E (Ant 9)	No	No	No	Yes

Note:

- 1) The device does not support DTM function.
- 2) NFC is different from the working scenario of WWAN/WIFI(Head/Body-worn/Hotspot) and does not participate in the simultaneous transmission.
- 3) WWAN/WLAN2.4G/5G/BTSAR Value Reference Report No: ZEWM2308001142RG01



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 herein 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

8.3.2 Simultaneous Transmission SAR Summation Scenario

Head:

Test position		SARmax (W/kg)											Summed SAR									
		Main Ant1	WiFi 2.4G	WiFi 2.4G	WiFi 2.4G	WiFi 5G	WiFi 5G	WiFi 5G	WiFi 6E	WiFi 6E	WiFi 6E	BT										
		1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
GSM850	Left cheek	0.280	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.622	0.631	0.642	0.530	0.624	0.654	0.647	0.657	0.512	
	Left tilted	0.140	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.418	0.435	0.196	0.292	0.330	0.611	0.440	0.612	0.331	
	Right cheek	0.346	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.506	0.512	0.390	0.436	0.484	0.549	0.510	0.549	0.461	
	Right tilted	0.202	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.357	0.353	0.258	0.318	0.307	0.440	0.356	0.448	0.285	
WCDMA B5	Left cheek	0.373	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.715	0.724	0.735	0.623	0.717	0.747	0.740	0.750	0.605	
	Left tilted	0.207	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.485	0.502	0.263	0.359	0.397	0.678	0.507	0.679	0.398	
	Right cheek	0.466	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.626	0.632	0.510	0.556	0.604	0.669	0.630	0.669	0.581	
	Right tilted	0.237	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.392	0.388	0.293	0.353	0.342	0.475	0.391	0.483	0.320	
LTE B12	Left cheek	0.249	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.591	0.600	0.611	0.499	0.593	0.623	0.616	0.626	0.481	
	Left tilted	0.131	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.409	0.426	0.187	0.283	0.321	0.602	0.431	0.603	0.322	
	Right cheek	0.299	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.459	0.465	0.343	0.389	0.437	0.502	0.463	0.502	0.414	
	Right tilted	0.144	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.299	0.295	0.200	0.260	0.249	0.382	0.298	0.390	0.227	
LTE B14	Left cheek	0.283	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.625	0.634	0.645	0.533	0.627	0.657	0.650	0.660	0.515	
	Left tilted	0.139	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.417	0.434	0.195	0.291	0.329	0.610	0.439	0.611	0.330	
	Right cheek	0.338	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.498	0.504	0.382	0.428	0.476	0.541	0.502	0.541	0.453	
	Right tilted	0.148	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.303	0.299	0.204	0.264	0.253	0.386	0.302	0.394	0.231	
LTE B26	Left cheek	0.308	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.650	0.659	0.670	0.558	0.652	0.682	0.675	0.685	0.540	
	Left tilted	0.160	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.438	0.455	0.216	0.312	0.350	0.631	0.460	0.632	0.351	
	Right cheek	0.360	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.520	0.526	0.404	0.450	0.498	0.563	0.524	0.563	0.475	
	Right tilted	0.196	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.351	0.347	0.252	0.312	0.301	0.434	0.350	0.442	0.279	
LTE B71	Left cheek	0.231	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.573	0.582	0.593	0.481	0.575	0.605	0.598	0.608	0.463	
	Left tilted	0.111	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.389	0.406	0.167	0.263	0.301	0.582	0.411	0.583	0.302	
	Right cheek	0.291	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.451	0.457	0.335	0.381	0.429	0.494	0.455	0.494	0.406	
	Right tilted	0.128	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.283	0.279	0.184	0.244	0.233	0.366	0.282	0.374	0.211	
N5	Left cheek	0.362	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.704	0.713	0.724	0.612	0.706	0.736	0.729	0.739	0.594	
	Left tilted	0.181	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.459	0.476	0.237	0.333	0.371	0.652	0.481	0.653	0.372	
	Right cheek	0.415	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.575	0.581	0.459	0.505	0.553	0.618	0.579	0.618	0.530	
	Right tilted	0.226	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.381	0.377	0.282	0.342	0.331	0.464	0.380	0.472	0.309	
N26	Left cheek	0.361	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.703	0.712	0.723	0.611	0.705	0.735	0.728	0.738	0.593	
	Left tilted	0.177	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.455	0.472	0.233	0.329	0.367	0.648	0.477	0.649	0.368	
	Right cheek	0.387	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.547	0.553	0.431	0.477	0.525	0.590	0.551	0.590	0.502	
	Right tilted	0.209	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.364	0.360	0.265	0.325	0.314	0.447	0.363	0.455	0.292	
N41	Left cheek	0.054	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.396	0.405	0.416	0.304	0.398	0.428	0.421	0.431	0.286	
	Left tilted	0.038	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.316	0.333	0.094	0.190	0.228	0.509	0.338	0.510	0.229	
	Right cheek	0.001	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.161	0.167	0.045	0.091	0.139	0.204	0.165	0.204	0.116	
	Right tilted	0.009	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.164	0.160	0.065	0.125	0.114	0.247	0.163	0.255	0.092	
N71	Left cheek	0.226	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.568	0.577	0.588	0.476	0.570	0.600	0.593	0.603	0.458	
	Left tilted	0.106	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.384	0.401	0.162	0.258	0.296	0.577	0.406	0.578	0.297	
	Right cheek	0.292	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.452	0.458	0.336	0.382	0.430	0.495	0.456	0.495	0.407	
	Right tilted	0.117	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.272	0.268	0.173	0.233	0.222	0.355	0.271	0.363	0.200	
LTE B30	Left cheek	0.003	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.345	0.354	0.365	0.253	0.347	0.377	0.370	0.380	0.235	
	Left tilted	0.001	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.279	0.296	0.057	0.153	0.191	0.472	0.301	0.473	0.192	
	Right cheek	0.004	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.164	0.170	0.048	0.094	0.142	0.207	0.168	0.207	0.119	
	Right tilted	0.001	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.156	0.152	0.057	0.117	0.106	0.239	0.155	0.247	0.084	



Test position	SARmax (W/kg)											Summed SAR									
	Main Ant2	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT										
	1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
GSM1900	Left cheek	0.249	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.591	0.600	0.611	0.499	0.593	0.623	0.616	0.626	0.481
	Left tilted	0.174	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.452	0.469	0.230	0.326	0.364	0.645	0.474	0.646	0.365
	Right cheek	0.143	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.303	0.309	0.187	0.233	0.281	0.346	0.307	0.346	0.258
	Right tilted	0.115	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.270	0.266	0.171	0.231	0.220	0.353	0.269	0.361	0.198
WCDMA B2	Left cheek	0.365	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.707	0.716	0.727	0.615	0.709	0.739	0.732	0.742	0.597
	Left tilted	0.215	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.493	0.510	0.271	0.367	0.405	0.686	0.515	0.687	0.406
	Right cheek	0.211	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.371	0.377	0.255	0.301	0.349	0.414	0.375	0.414	0.326
	Right tilted	0.177	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.332	0.328	0.233	0.293	0.282	0.415	0.331	0.423	0.260
WCDMA B4	Left cheek	0.336	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.678	0.687	0.698	0.586	0.680	0.710	0.703	0.713	0.568
	Left tilted	0.253	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.531	0.548	0.309	0.405	0.443	0.724	0.553	0.725	0.444
	Right cheek	0.232	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.392	0.398	0.276	0.322	0.370	0.435	0.396	0.435	0.347
	Right tilted	0.279	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.434	0.430	0.335	0.395	0.384	0.517	0.433	0.525	0.362
LTE B2	Left cheek	0.424	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.766	0.775	0.786	0.674	0.768	0.798	0.791	0.801	0.656
	Left tilted	0.271	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.549	0.566	0.327	0.423	0.461	0.742	0.571	0.743	0.462
	Right cheek	0.239	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.399	0.405	0.283	0.329	0.377	0.442	0.403	0.442	0.354
	Right tilted	0.183	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.338	0.334	0.239	0.299	0.288	0.421	0.337	0.429	0.266
LTE B66	Left cheek	0.312	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.654	0.663	0.674	0.562	0.656	0.686	0.679	0.689	0.544
	Left tilted	0.231	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.509	0.526	0.287	0.383	0.421	0.702	0.531	0.703	0.422
	Right cheek	0.199	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.359	0.365	0.243	0.289	0.337	0.402	0.363	0.402	0.314
	Right tilted	0.267	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.422	0.418	0.323	0.383	0.372	0.505	0.421	0.513	0.350
N2	Left cheek	0.387	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.729	0.738	0.749	0.637	0.731	0.761	0.754	0.764	0.619
	Left tilted	0.209	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.487	0.504	0.265	0.361	0.399	0.680	0.509	0.681	0.400
	Right cheek	0.237	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.397	0.403	0.281	0.327	0.375	0.440	0.401	0.440	0.352
	Right tilted	0.183	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.338	0.334	0.239	0.299	0.288	0.421	0.337	0.429	0.266
N25	Left cheek	0.381	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.723	0.732	0.743	0.631	0.725	0.755	0.748	0.758	0.613
	Left tilted	0.235	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.513	0.530	0.291	0.387	0.425	0.706	0.535	0.707	0.426
	Right cheek	0.253	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.413	0.419	0.297	0.343	0.391	0.456	0.417	0.456	0.368
	Right tilted	0.173	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.328	0.324	0.229	0.289	0.278	0.411	0.327	0.419	0.256
N66	Left cheek	0.315	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.657	0.666	0.677	0.565	0.659	0.689	0.682	0.692	0.547
	Left tilted	0.260	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.538	0.555	0.316	0.412	0.450	0.731	0.560	0.732	0.451
	Right cheek	0.252	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.412	0.418	0.296	0.342	0.390	0.455	0.416	0.455	0.367
	Right tilted	0.273	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.428	0.424	0.329	0.389	0.378	0.511	0.427	0.519	0.356
N70	Left cheek	0.311	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.653	0.662	0.673	0.561	0.655	0.685	0.678	0.688	0.543
	Left tilted	0.244	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.522	0.539	0.300	0.396	0.434	0.715	0.544	0.716	0.435
	Right cheek	0.246	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.406	0.412	0.290	0.336	0.384	0.449	0.410	0.449	0.361
	Right tilted	0.275	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.430	0.426	0.331	0.391	0.380	0.513	0.429	0.521	0.358
N77	Left cheek	0.095	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.437	0.446	0.457	0.345	0.439	0.469	0.462	0.472	0.327
	Left tilted	0.073	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.351	0.368	0.129	0.225	0.263	0.544	0.373	0.545	0.264
	Right cheek	0.061	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.221	0.227	0.105	0.151	0.199	0.264	0.225	0.264	0.176
	Right tilted	0.065	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.220	0.216	0.121	0.181	0.170	0.303	0.219	0.311	0.148

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/e-Documents.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 herein 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.

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

SGS-CSTC Standards Technical Services (Shenzhen) Co., Ltd.
Wireless Laboratory
South No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部
邮编: 215000
电话: (86-512) 62992980
传真: (86-512) 62992980
电子邮件: sgs.china@sgs.com

Test position		SARmax (W/kg)										Summed SAR									
		Main Ant3	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	BT										
		1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11
LTE B2	Left cheek	0.564	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.906	0.915	0.926	0.814	0.908	0.938	0.931	0.941	0.796
	Left tilted	0.633	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.911	0.928	0.689	0.785	0.823	1.104	0.933	1.105	0.824
	Right cheek	0.841	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.001	1.007	0.885	0.931	0.979	1.044	1.005	1.044	0.956
	Right tilted	1.009	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.164	1.160	1.065	1.125	1.114	1.247	1.163	1.255	1.092
LTE B30	Left cheek	0.432	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.774	0.783	0.794	0.682	0.776	0.806	0.799	0.809	0.664
	Left tilted	0.593	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.871	0.888	0.649	0.745	0.783	1.064	0.893	1.065	0.784
	Right cheek	0.790	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.950	0.956	0.834	0.880	0.928	0.993	0.954	0.993	0.905
	Right tilted	0.907	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.062	1.058	0.963	1.023	1.012	1.145	1.061	1.153	0.990
LTE B66	Left cheek	0.385	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.727	0.736	0.747	0.635	0.729	0.759	0.752	0.762	0.617
	Left tilted	0.412	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.690	0.707	0.468	0.564	0.602	0.883	0.712	0.884	0.603
	Right cheek	0.519	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.679	0.685	0.563	0.609	0.657	0.722	0.683	0.722	0.634
	Right tilted	0.610	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.765	0.761	0.666	0.726	0.715	0.848	0.764	0.856	0.693
N2	Left cheek	0.689	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	1.031	1.040	1.051	0.939	1.033	1.063	1.056	1.066	0.921
	Left tilted	0.778	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	1.056	1.073	0.834	0.930	0.968	1.249	1.078	1.250	0.969
	Right cheek	0.964	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.124	1.130	1.008	1.054	1.102	1.167	1.128	1.167	1.079
	Right tilted	1.182	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.337	1.333	1.238	1.298	1.287	1.420	1.336	1.428	1.265
N25	Left cheek	0.713	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	1.055	1.064	1.075	0.963	1.057	1.087	1.080	1.090	0.945
	Left tilted	0.796	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	1.074	1.091	0.852	0.948	0.986	1.267	1.096	1.268	0.987
	Right cheek	1.212	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.372	1.378	1.256	1.302	1.350	1.415	1.376	1.415	1.327
	Right tilted	1.234	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.389	1.385	1.290	1.350	1.339	1.472	1.388	1.480	1.317
N30	Left cheek	0.521	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.863	0.872	0.883	0.771	0.865	0.895	0.888	0.898	0.753
	Left tilted	0.663	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.941	0.958	0.719	0.815	0.853	1.134	0.963	1.135	0.854
	Right cheek	0.981	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.141	1.147	1.025	1.071	1.119	1.184	1.145	1.184	1.096
	Right tilted	1.052	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.207	1.203	1.108	1.168	1.157	1.290	1.206	1.298	1.135
N41	Left cheek	0.314	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.656	0.665	0.676	0.564	0.658	0.688	0.681	0.691	0.546
	Left tilted	0.445	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.723	0.740	0.501	0.597	0.635	0.916	0.745	0.917	0.636
	Right cheek	0.901	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.061	1.067	0.945	0.991	1.039	1.104	1.065	1.104	1.016
	Right tilted	1.003	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.158	1.154	1.059	1.119	1.108	1.241	1.157	1.249	1.086
N66	Left cheek	0.675	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	1.017	1.026	1.037	0.925	1.019	1.049	1.042	1.052	0.907
	Left tilted	0.726	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	1.004	1.021	0.782	0.878	0.916	1.197	1.026	1.198	0.917
	Right cheek	0.960	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.120	1.126	1.004	1.050	1.098	1.163	1.124	1.163	1.075
	Right tilted	1.189	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.344	1.340	1.245	1.305	1.294	1.427	1.343	1.435	1.272
N70	Left cheek	0.894	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	1.236	1.245	1.256	1.144	1.238	1.268	1.261	1.271	1.126
	Left tilted	0.905	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	1.183	1.200	0.961	1.057	1.095	1.376	1.205	1.377	1.096
	Right cheek	1.054	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.214	1.220	1.098	1.144	1.192	1.257	1.218	1.257	1.169
	Right tilted	1.197	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.352	1.348	1.253	1.313	1.302	1.435	1.351	1.443	1.280
ENDC LTE B2	Left cheek	0.560	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.902	0.911	0.922	0.810	0.904	0.934	0.927	0.937	0.792
	Left tilted	0.636	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.914	0.931	0.692	0.788	0.826	1.107	0.936	1.108	0.827
	Right cheek	0.799	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.959	0.965	0.843	0.889	0.937	1.002	0.963	1.002	0.914
	Right tilted	1.069	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.224	1.220	1.125	1.185	1.174	1.307	1.223	1.315	1.152
ENDC LTE B5	Left cheek	0.324	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.666	0.675	0.686	0.574	0.668	0.698	0.691	0.701	0.556
	Left tilted	0.341	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.619	0.636	0.397	0.493	0.531	0.812	0.641	0.813	0.532
	Right cheek	0.543	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.703	0.709	0.587	0.633	0.681	0.746	0.707	0.746	0.658
	Right tilted	0.392	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.547	0.543	0.448	0.508	0.497	0.630	0.546	0.638	0.475
ENDC LTE B66	Left cheek	0.529	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.1									

Test position	SARmax (W/kg)											Summed SAR									
	Main Ant4	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT										
	1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
N41	Left cheek	0.406	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.748	0.757	0.768	0.656	0.750	0.780	0.773	0.783	0.638
	Left tilted	0.151	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.429	0.446	0.207	0.303	0.341	0.622	0.451	0.623	0.342
	Right cheek	0.672	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.832	0.838	0.716	0.762	0.810	0.875	0.836	0.875	0.787
	Right tilted	0.202	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.357	0.353	0.258	0.318	0.307	0.440	0.356	0.448	0.285
N77	Left cheek	0.073	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.415	0.424	0.435	0.323	0.417	0.447	0.440	0.450	0.305
	Left tilted	0.075	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.353	0.370	0.131	0.227	0.265	0.546	0.375	0.547	0.266
	Right cheek	0.122	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.282	0.288	0.166	0.212	0.260	0.325	0.286	0.325	0.237
	Right tilted	0.034	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.189	0.185	0.090	0.150	0.139	0.272	0.188	0.280	0.117

Test position	SARmax (W/kg)											Summed SAR									
	Main Ant5	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT										
	1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
LTE B48	Left cheek	0.166	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.508	0.517	0.528	0.416	0.510	0.540	0.533	0.543	0.398
	Left tilted	0.132	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.410	0.427	0.188	0.284	0.322	0.603	0.432	0.604	0.323
	Right cheek	0.681	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.841	0.847	0.725	0.771	0.819	0.884	0.845	0.884	0.796
	Right tilted	0.316	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.471	0.467	0.372	0.432	0.421	0.554	0.470	0.562	0.399
N48	Left cheek	0.243	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.585	0.594	0.605	0.493	0.587	0.617	0.610	0.620	0.475
	Left tilted	0.143	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.421	0.438	0.199	0.295	0.333	0.614	0.443	0.615	0.334
	Right cheek	0.847	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.007	1.013	0.891	0.937	0.985	1.050	1.011	1.050	0.962
	Right tilted	0.363	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.518	0.514	0.419	0.479	0.468	0.601	0.517	0.609	0.446
N77	Left cheek	0.277	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.619	0.628	0.639	0.527	0.621	0.651	0.644	0.654	0.509
	Left tilted	0.203	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.481	0.498	0.259	0.355	0.393	0.674	0.503	0.675	0.394
	Right cheek	1.135	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.295	1.301	1.179	1.225	1.273	1.338	1.299	1.338	1.250
	Right tilted	0.615	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.770	0.766	0.671	0.731	0.720	0.853	0.769	0.861	0.698

Test position	SARmax (W/kg)											Summed SAR									
	Main Ant6	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT										
	1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
N41	Left cheek	0.187	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.529	0.538	0.549	0.437	0.531	0.561	0.554	0.564	0.419
	Left tilted	0.087	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.365	0.382	0.143	0.239	0.277	0.558	0.387	0.559	0.278
	Right cheek	0.049	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.209	0.215	0.093	0.139	0.187	0.252	0.213	0.252	0.164
	Right tilted	0.001	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.156	0.152	0.057	0.117	0.106	0.239	0.155	0.247	0.084
N77	Left cheek	1.113	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	1.455	1.464	1.475	1.363	1.457	1.487	1.480	1.490	1.345
	Left tilted	0.872	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	1.150	1.167	0.928	1.024	1.062	1.343	1.172	1.344	1.063
	Right cheek	0.438	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.598	0.604	0.482	0.528	0.576	0.641	0.602	0.641	0.553
	Right tilted	0.461	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.616	0.612	0.517	0.577	0.566	0.699	0.615	0.707	0.544



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/General-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-Documents.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 herein 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

Body-worn:

Test position	SARmax (W/kg)											Summed SAR																			
	Main Ant1	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT	1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11
	1	2	3	4	5	6	7	8	9	10	BT	1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11
GSM850	Front side	0.255	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.453	0.398	0.280	0.287	0.340	0.550	0.382	0.455	0.289										
	Back side	0.292	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.490	0.515	0.770	0.943	0.461	0.983	0.903	0.965	0.863										
WCDMA B5	Front side	0.367	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.565	0.510	0.392	0.399	0.452	0.662	0.494	0.567	0.401										
	Back side	0.390	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.588	0.613	0.868	1.041	0.559	1.081	1.001	1.063	0.961										
LTE B12	Front side	0.376	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.574	0.519	0.401	0.408	0.461	0.671	0.503	0.576	0.410										
	Back side	0.419	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.617	0.642	0.897	1.070	0.588	1.110	1.030	1.092	0.990										
LTE B14	Front side	0.386	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.584	0.529	0.411	0.418	0.471	0.681	0.513	0.586	0.420										
	Back side	0.359	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.557	0.582	0.837	1.010	0.528	1.050	0.970	1.032	0.930										
LTE B26	Front side	0.302	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.500	0.445	0.327	0.334	0.387	0.597	0.429	0.502	0.336										
	Back side	0.272	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.470	0.495	0.750	0.923	0.441	0.963	0.883	0.945	0.843										
LTE B71	Front side	0.324	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.522	0.467	0.349	0.356	0.409	0.619	0.451	0.524	0.358										
	Back side	0.355	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.553	0.578	0.833	1.006	0.524	1.046	0.966	1.028	0.926										
N5	Front side	0.341	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.539	0.484	0.366	0.373	0.426	0.636	0.468	0.541	0.375										
	Back side	0.352	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.550	0.575	0.830	1.003	0.521	1.043	0.963	1.025	0.923										
N26	Front side	0.367	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.565	0.510	0.392	0.399	0.452	0.662	0.494	0.567	0.401										
	Back side	0.358	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.556	0.581	0.836	1.009	0.527	1.049	0.969	1.031	0.929										
N41	Front side	0.394	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.592	0.537	0.419	0.426	0.479	0.689	0.521	0.594	0.428										
	Back side	0.480	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.678	0.703	0.958	1.131	0.649	1.171	1.091	1.153	1.051										
N71	Front side	0.302	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.500	0.445	0.327	0.334	0.387	0.597	0.429	0.502	0.336										
	Back side	0.374	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.572	0.597	0.852	1.025	0.543	1.065	0.985	1.047	0.945										
ENDC	Front side	0.249	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.447	0.392	0.274	0.281	0.334	0.544	0.376	0.449	0.283										
	Back side	0.535	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.733	0.758	1.013	1.186	0.704	1.226	1.146	1.208	1.106										

Test position	SARmax (W/kg)											Summed SAR																			
	Main Ant2	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT	1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11
	1	2	3	4	5	6	7	8	9	10	BT	1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11
GSM1900	Front side	0.279	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.477	0.422	0.304	0.311	0.364	0.574	0.406	0.479	0.313										
	Back side	0.345	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.543	0.568	0.823	0.996	0.514	1.036	0.956	1.018	0.916										
WCDMA B2	Front side	0.354	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.552	0.497	0.379	0.386	0.439	0.649	0.481	0.554	0.388										
	Back side	0.538	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.736	0.761	1.016	1.189	0.707	1.229	1.149	1.211	1.109										
WCDMA B4	Front side	0.354	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.552	0.497	0.379	0.386	0.439	0.649	0.481	0.554	0.388										
	Back side	0.331	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.529	0.554	0.809	0.982	0.500	1.022	0.942	1.004	0.902										
LTE B2	Front side	0.426	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.624	0.569	0.451	0.458	0.511	0.721	0.553	0.626	0.460										
	Back side	0.503	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.701	0.726	0.981	1.154	0.672	1.194	1.114	1.176	1.074										
LTE B66	Front side	0.348	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.546																		



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SEWM2308000314RG10
Page : 51 of 60

Test position	SARmax (W/kg)											Summed SAR											
	Main Ant3	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT												
	1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11			
LTE B2	Front side	0.310	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.508	0.453	0.335	0.342	0.395	0.605	0.437	0.510	0.344		
	Back side	0.451	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.649	0.674	0.929	1.102	0.620	1.142	1.062	1.124	1.022		
LTE B30	Front side	0.414	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.612	0.557	0.439	0.446	0.499	0.709	0.541	0.614	0.448		
	Back side	0.788	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.986	1.011	1.266	1.439	0.957	1.479	1.399	1.461	1.359		
LTE B66	Front side	0.190	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.388	0.333	0.215	0.222	0.275	0.485	0.317	0.390	0.224		
	Back side	0.255	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.453	0.478	0.733	0.906	0.424	0.946	0.866	0.928	0.826		
N2	Front side	0.322	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.520	0.465	0.347	0.354	0.407	0.617	0.449	0.522	0.356		
	Back side	0.502	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.700	0.725	0.980	1.153	0.671	1.193	1.113	1.175	1.073		
N25	Front side	0.296	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.494	0.439	0.321	0.328	0.381	0.591	0.423	0.496	0.330		
	Back side	0.408	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.606	0.631	0.886	1.059	0.577	1.099	1.019	1.081	0.979		
N30	Front side	0.420	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.618	0.563	0.445	0.452	0.505	0.715	0.547	0.620	0.454		
	Back side	0.771	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.969	0.994	1.249	1.422	0.940	1.462	1.382	1.444	1.342		
N41	Front side	0.289	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.487	0.432	0.314	0.321	0.374	0.584	0.416	0.489	0.323		
	Back side	0.740	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.938	0.963	1.218	1.391	0.909	1.431	1.351	1.413	1.311		
N66	Front side	0.263	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.461	0.406	0.288	0.295	0.348	0.558	0.390	0.463	0.297		
	Back side	0.293	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.491	0.516	0.771	0.944	0.462	0.984	0.904	0.966	0.864		
N70	Front side	0.235	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.433	0.378	0.260	0.267	0.320	0.530	0.362	0.435	0.269		
	Back side	0.315	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.513	0.538	0.793	0.966	0.484	1.006	0.926	0.988	0.886		
ENDC LTE B2	Front side	0.382	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.580	0.525	0.407	0.414	0.467	0.677	0.509	0.582	0.416		
	Back side	0.544	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.742	0.767	1.022	1.195	0.713	1.235	1.155	1.217	1.115		
ENDC LTE B5	Front side	0.026	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.224	0.169	0.051	0.058	0.111	0.321	0.153	0.226	0.060		
	Back side	0.138	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.336	0.361	0.616	0.789	0.307	0.829	0.749	0.811	0.709		
ENDC LTE B66	Front side	0.295	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.493	0.438	0.320	0.327	0.380	0.590	0.422	0.495	0.329		
	Back side	0.391	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.589	0.614	0.869	1.042	0.560	1.082	1.002	1.064	0.962		

Test position	SARmax (W/kg)											Summed SAR											
	Main Ant4	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT												
	1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11			
N41	Front side	0.118	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.316	0.261	0.143	0.150	0.203	0.413	0.245	0.318	0.152		
	Back side	0.349	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.547	0.572	0.827	1.000	0.518	1.040	0.960	1.022	0.920		
N77	Front side	0.062	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.260	0.205	0.087	0.094	0.147	0.357	0.189	0.262	0.096		
	Back side	0.220	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.418	0.443	0.698	0.871	0.389	0.911	0.831	0.893	0.791		

Test position	SARmax (W/kg)											Summed SAR											
	Main Ant5	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT												
	1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11			
LTE B48	Front side	0.371	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.569	0.514	0.396	0.403	0.456	0.666	0.498	0.571	0.405		
	Back side	0.330	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.528	0.553	0.808	0.981	0.499	1.021	0.941	1.003	0.901		
N48	Front side	0.273	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.471	0.416	0.298	0.305	0.358	0.568	0.400	0.473	0.307		
	Back side	0.301	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.499	0.524	0.779	0.952	0.470	0.992	0.912	0.974	0.872		
N77	Front side																						

Test position	SARmax (W/kg)											Summed SAR										
	Main Ant6	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT											
	1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11		
N41	Front side	0.001	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.199	0.144	0.026	0.033	0.086	0.296	0.128	0.201	0.035	
	Back side	0.037	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.235	0.260	0.515	0.688	0.206	0.728	0.648	0.710	0.608	
N77	Front side	0.237	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.435	0.380	0.262	0.269	0.322	0.532	0.364	0.437	0.271	
	Back side	0.344	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.542	0.567	0.822	0.995	0.513	1.035	0.955	1.017	0.915	

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/General-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/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 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@sgs.com



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

Hotspot:

Test position		SARmax (W/kg)										Summed SAR									
		Main Ant1	WiFi 2.4G	WiFi 2.4G	WiFi 2.4G	WiFi 5G	WiFi 5G	WiFi 5G	WiFi 6E	WiFi 6E	BT										
		1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11
GSM850	Front side	0.558	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.904	0.783	0.567	0.569	0.720	0.718	0.707	0.716	0.600
	Back side	0.641	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.048	0.973	0.873	0.936	0.970	1.049	1.033	1.060	1.021
	Left side	0.228	/	/	/	/	/	/	/	/	/	/	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228
	Right side	0.409	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.821	0.737	0.418	0.497	0.636	0.724	0.712	0.735	0.536
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.428	/	/	/	/	/	/	/	/	/	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428
WCDMA B5	Front side	0.451	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.797	0.676	0.460	0.462	0.613	0.611	0.600	0.609	0.493
	Back side	0.710	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.117	1.042	0.942	1.005	1.039	1.118	1.102	1.129	1.090
	Left side	0.351	/	/	/	/	/	/	/	/	/	0.351	0.351	0.351	0.351	0.351	0.351	0.351	0.351	0.351	0.351
	Right side	0.567	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.979	0.895	0.576	0.655	0.794	0.882	0.870	0.893	0.694
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.486	/	/	/	/	/	/	/	/	/	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486
LTE B12	Front side	0.361	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.707	0.586	0.370	0.372	0.523	0.521	0.510	0.519	0.403
	Back side	0.428	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.835	0.760	0.660	0.723	0.757	0.836	0.820	0.847	0.808
	Left side	0.361	/	/	/	/	/	/	/	/	/	0.361	0.361	0.361	0.361	0.361	0.361	0.361	0.361	0.361	0.361
	Right side	0.495	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.907	0.823	0.504	0.583	0.722	0.810	0.798	0.821	0.622
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.271	/	/	/	/	/	/	/	/	/	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271
LTE B14	Front side	0.350	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.696	0.575	0.359	0.361	0.512	0.510	0.499	0.508	0.392
	Back side	0.466	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.873	0.798	0.698	0.761	0.795	0.874	0.858	0.885	0.846
	Left side	0.262	/	/	/	/	/	/	/	/	/	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262
	Right side	0.464	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.876	0.792	0.473	0.552	0.691	0.779	0.767	0.790	0.591
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.421	/	/	/	/	/	/	/	/	/	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421
LTE B26	Front side	0.407	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.753	0.632	0.416	0.418	0.569	0.567	0.556	0.565	0.449
	Back side	0.556	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.963	0.888	0.788	0.851	0.885	0.964	0.948	0.975	0.936
	Left side	0.251	/	/	/	/	/	/	/	/	/	0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251
	Right side	0.419	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.831	0.747	0.428	0.507	0.646	0.734	0.722	0.745	0.546
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.480	/	/	/	/	/	/	/	/	/	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
LTE B71	Front side	0.315	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.661	0.540	0.324	0.326	0.477	0.475	0.464	0.473	0.357
	Back side	0.377	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.784	0.709	0.609	0.672	0.706	0.785	0.769	0.796	0.757
	Left side	0.332	/	/	/	/	/	/	/	/	/	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332
	Right side	0.567	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.979	0.895	0.576	0.655	0.794	0.882	0.870	0.893	0.694
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.217	/	/	/	/	/	/	/	/	/	0.217	0.217	0.217	0.217	0.217	0.217	0.217	0.217	0.217	0.217
N5	Front side	0.423	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.769	0.648	0.432	0.434	0.585	0.583	0.572	0.581	0.465
	Back side	0.660	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.067	0.992	0.892	0.955	0.989	1.068	1.052	1.079	1.040
	Left side	0.310	/	/	/	/	/	/	/	/	/	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310
	Right side	0.521	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.933	0.849	0.530	0.609	0.748	0.836	0.824	0.847	0.648
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.518	/	/	/	/	/	/	/	/	/	0.518	0.518	0.518	0.518	0.518	0.518	0.518	0.518	0.518	0.518
N26	Front side	0.422	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.768	0.647	0.431	0.433	0.584	0.582	0.571	0.580	0.464
	Back side	0.703	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.110	1.035	0.935	0.998	1.032	1.111	1.095	1.122	1.083
	Left side	0.325	/	/	/	/	/	/	/	/	/	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325
	Right side	0.523	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.935	0.851	0.532	0.611	0.750	0.838	0.826	0.849	0.650
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019



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/General-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-Doc](http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx)

	Bottom side	0.504	/	/	/	/	/	/	/	/	/	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	
N41	Front side	0.727	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	1.073	0.952	0.736	0.738	0.889	0.887	0.876	0.885	0.769
	Back side	1.015	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.422	1.347	1.247	1.310	1.344	1.423	1.407	1.434	1.395
	Left side	0.105	/	/	/	/	/	/	/	/	/	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105
	Right side	0.276	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.688	0.604	0.285	0.364	0.503	0.591	0.579	0.602	0.403
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	1.224	/	/	/	/	/	/	/	/	/	1.224	1.224	1.224	1.224	1.224	1.224	1.224	1.224	1.224	1.224
N71	Front side	0.309	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.655	0.534	0.318	0.320	0.471	0.469	0.458	0.467	0.351
	Back side	0.333	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.740	0.665	0.565	0.628	0.662	0.741	0.725	0.752	0.713
	Left side	0.312	/	/	/	/	/	/	/	/	/	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312
	Right side	0.536	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.948	0.864	0.545	0.624	0.763	0.851	0.839	0.862	0.663
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.229	/	/	/	/	/	/	/	/	/	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229
ENDC LTE B30	Front side	0.363	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.709	0.588	0.372	0.374	0.525	0.523	0.512	0.521	0.405
	Back side	0.778	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.185	1.110	1.010	1.073	1.107	1.186	1.170	1.197	1.158
	Left side	0.222	/	/	/	/	/	/	/	/	/	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222
	Right side	0.146	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.558	0.474	0.155	0.234	0.373	0.461	0.449	0.472	0.273
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.835	/	/	/	/	/	/	/	/	/	0.835	0.835	0.835	0.835	0.835	0.835	0.835	0.835	0.835	0.835

Test position	SARmax (W/kg)												Summed SAR									
	Main Ant2	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT											
	1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11		
GSM1900	Front side	0.488	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.834	0.713	0.497	0.499	0.650	0.648	0.637	0.646	0.530	
	Back side	0.586	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.993	0.918	0.818	0.881	0.915	0.994	0.978	1.005	0.966	
	Left side	0.395	/	/	/	/	/	/	/	/	/	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127	
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019	
	Bottom side	0.315	/	/	/	/	/	/	/	/	/	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	
WCDMA B2	Front side	0.682	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	1.028	0.907	0.691	0.693	0.844	0.842	0.831	0.840	0.724	
	Back side	0.990	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.397	1.322	1.222	1.285	1.319	1.398	1.382	1.409	1.370	
	Left side	0.773	/	/	/	/	/	/	/	/	/	0.773	0.773	0.773	0.773	0.773	0.773	0.773	0.773	0.773	0.773	
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127	
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019	
	Bottom side	0.494	/	/	/	/	/	/	/	/	/	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	
WCDMA B4	Front side	0.592	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.938	0.817	0.601	0.603	0.754	0.752	0.741	0.750	0.634	
	Back side	0.699	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.106	1.031	0.931	0.994	1.028	1.107	1.091	1.118	1.079	
	Left side	0.547	/	/	/	/	/	/	/	/	/	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127	
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019	
	Bottom side	0.434	/	/	/	/	/	/	/	/	/	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	
LTE B2	Front side	0.774	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	1.120	0.999	0.783	0.785	0.936	0.934	0.923	0.932	0.816	
	Back side	1.073	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.405	1.305	1.368	1.402	1.481	1.465	1.492	1.453		
	Left side	0.912	/	/	/	/	/	/	/	/	/	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127	
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019	
	Bottom side	0.535	/	/	/	/	/	/	/	/	/	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	
LTE B66	Front side	0.589	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.935	0.814	0.598	0.600	0.751	0.749	0.738	0.747	0.631	
	Back side	0.707	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.114	1.039	0.939	1.002	1.036	1.115	1.099	1.126	1.087	
	Left side	0.646	/	/	/	/	/	/	/	/	/	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088											



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SEWM2308000314RG10
Page : 55 of 60

	Bottom side	0.440	/	/	/	/	/	/	/	/	/	/	0.440	0.440	0.440	0.440	0.440	0.440	0.440	
N2	Front side	0.768	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	1.114	0.993	0.777	0.779	0.930	0.928	0.917	0.926
	Back side	0.959	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.366	1.291	1.191	1.254	1.288	1.367	1.351	1.378
	Left side	0.791	/	/	/	/	/	/	/	/	/	/	0.791	0.791	0.791	0.791	0.791	0.791	0.791	
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380
	Bottom side	0.535	/	/	/	/	/	/	/	/	/	/	0.535	0.535	0.535	0.535	0.535	0.535	0.535	
N25	Front side	0.727	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	1.073	0.952	0.736	0.738	0.889	0.887	0.876	0.885
	Back side	0.948	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.355	1.280	1.180	1.243	1.277	1.356	1.340	1.367
	Left side	0.645	/	/	/	/	/	/	/	/	/	/	0.645	0.645	0.645	0.645	0.645	0.645	0.645	
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380
	Bottom side	0.468	/	/	/	/	/	/	/	/	/	/	0.468	0.468	0.468	0.468	0.468	0.468	0.468	
N66	Front side	0.652	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.998	0.877	0.661	0.663	0.814	0.812	0.801	0.810
	Back side	0.761	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.168	1.093	0.993	1.056	1.090	1.169	1.153	1.180
	Left side	0.745	/	/	/	/	/	/	/	/	/	/	0.745	0.745	0.745	0.745	0.745	0.745	0.745	
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380
	Bottom side	0.430	/	/	/	/	/	/	/	/	/	/	0.430	0.430	0.430	0.430	0.430	0.430	0.430	
N70	Front side	0.644	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.990	0.869	0.653	0.655	0.806	0.804	0.793	0.802
	Back side	0.683	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.090	1.015	0.915	0.978	1.012	1.091	1.075	1.102
	Left side	0.681	/	/	/	/	/	/	/	/	/	/	0.681	0.681	0.681	0.681	0.681	0.681	0.681	
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380
	Bottom side	0.456	/	/	/	/	/	/	/	/	/	/	0.456	0.456	0.456	0.456	0.456	0.456	0.456	
N77	Front side	0.355	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.701	0.580	0.364	0.366	0.517	0.515	0.504	0.513
	Back side	0.405	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.090	1.015	0.915	0.978	1.012	1.091	1.075	1.102
	Left side	0.395	/	/	/	/	/	/	/	/	/	/	0.395	0.395	0.395	0.395	0.395	0.395	0.395	
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380
	Bottom side	0.472	/	/	/	/	/	/	/	/	/	/	0.472	0.472	0.472	0.472	0.472	0.472	0.472	

Test position	SARmax (W/kg)												Summed SAR											
	Main Ant3		WiFi 2.4G		WiFi 2.4G		WiFi 2.4G MIMO		WiFi 5G		WiFi 5G		WiFi 5G MIMO		WiFi 6E		WiFi 6E		WiFi 6E MIMO		BT			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
LTE B2	Front side	0.513	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.859	0.738	0.522	0.524	0.675	0.673	0.662	0.671	0.555			
	Back side	0.793	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.200	1.125	1.025	1.088	1.122	1.201	1.185	1.212	1.173			
	Left side	0.222	/	/	/	/	/	/	/	/	/	/	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222
	Right side	0.091	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.503	0.419	0.100	0.179	0.318	0.406	0.394	0.417	0.218			
	Top side	0.917	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	1.268	1.068	0.931	0.947	1.002	1.296	1.104	1.297	0.936			
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B30	Front side	0.389	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.735	0.614	0.398	0.400	0.551	0.549	0.538	0.547	0.431			
	Back side	0.761	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.168	1.093	0.993	1.056	1.090	1.169	1.153	1.180	1.141			
	Left side	0.062	/	/	/	/	/	/	/	/	/	/	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
	Right side	0.019	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.431	0.347	0.028	0.107	0.246	0.334	0.322	0.345	0.146			
	Top side	0.872	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	1.223	1.023	0.886	0.902	0.957	1.251	1.059	1.252	0.891			
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B66	Front side	0.362	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.708	0.587	0.371	0.373	0.524	0.522	0.511	0.520	0.404			
	Back side	0.484	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.816	0.716	0.779	0.813	0.892	0.876	0.903	0.864				
	Left side	0.134	/	/	/	/	/	/	/	/	/	/	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134
	Right side	0.117	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.529	0.445	0.126	0.205	0.344	0.432	0.420	0.443	0.244			

Back side	0.899	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.306	1.231	1.131	1.194	1.228	1.307	1.291	1.318	1.279	
Left side	0.273	/	/	/	/	/	/	/	/	/	/	0.273	0.273	0.273	0.273	0.273	0.273	0.273	0.273	0.273	
Right side	0.131	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.543	0.459	0.140	0.219	0.358	0.446	0.434	0.457	0.258	
Top side	0.862	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	1.213	1.013	0.876	0.892	0.947	1.241	1.049	1.242	0.881	
Bottom side	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
N25	Front side	0.540	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.886	0.765	0.549	0.551	0.702	0.700	0.689	0.698	0.582
	Back side	0.769	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.176	1.101	1.001	1.064	1.098	1.177	1.161	1.188	1.149
	Left side	0.243	/	/	/	/	/	/	/	/	/	0.243	0.243	0.243	0.243	0.243	0.243	0.243	0.243	0.243	0.243
	Right side	0.094	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.506	0.422	0.103	0.182	0.321	0.409	0.397	0.420	0.221
	Top side	0.892	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	1.243	1.043	0.906	0.922	0.977	1.271	1.079	1.272	0.911
	Bottom side	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N30	Front side	0.377	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.723	0.602	0.386	0.388	0.539	0.537	0.526	0.535	0.419
	Back side	0.868	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.275	1.200	1.100	1.163	1.197	1.276	1.260	1.287	1.248
	Left side	0.056	/	/	/	/	/	/	/	/	/	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
	Right side	0.017	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.429	0.345	0.026	0.105	0.244	0.332	0.320	0.343	0.144
	Top side	0.921	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	1.272	1.072	0.935	0.951	1.006	1.300	1.108	1.301	0.940
	Bottom side	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N41	Front side	0.321	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.667	0.546	0.330	0.332	0.483	0.481	0.470	0.479	0.363
	Back side	0.829	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.236	1.161	1.061	1.124	1.158	1.237	1.221	1.248	1.209
	Left side	0.142	/	/	/	/	/	/	/	/	/	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.142
	Right side	0.001	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.413	0.329	0.010	0.089	0.228	0.316	0.304	0.327	0.128
	Top side	1.114	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	1.465	1.265	1.128	1.144	1.199	1.493	1.301	1.494	1.133
	Bottom side	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N66	Front side	0.506	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.852	0.731	0.515	0.517	0.668	0.666	0.655	0.664	0.548
	Back side	0.608	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.015	0.940	0.840	0.903	0.937	1.016	1.000	1.027	0.988
	Left side	0.162	/	/	/	/	/	/	/	/	/	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
	Right side	0.130	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.542	0.458	0.139	0.218	0.357	0.445	0.433	0.456	0.257
	Top side	0.522	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.873	0.673	0.536	0.552	0.607	0.901	0.709	0.902	0.541
	Bottom side	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N70	Front side	0.447	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.793	0.672	0.456	0.458	0.609	0.607	0.596	0.605	0.489
	Back side	0.610	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.017	0.942	0.842	0.905	0.939	1.018	1.002	1.029	0.990
	Left side	0.211	/	/	/	/	/	/	/	/	/	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211
	Right side	0.104	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.516	0.432	0.113	0.192	0.331	0.419	0.407	0.430	0.231
	Top side	0.557	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.908	0.708	0.571	0.587	0.642	0.936	0.744	0.937	0.576
	Bottom side	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENDC LTE B2	Front side	0.606	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.952	0.831	0.615	0.617	0.768	0.766	0.755	0.764	0.648
	Back side	0.985	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.392	1.317	1.217	1.280	1.314	1.393	1.377	1.404	1.365
	Left side	0.277	/	/	/	/	/	/	/	/	/	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277
	Right side	0.090	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.502	0.418	0.099	0.178	0.317	0.405	0.393	0.416	0.217
	Top side	1.077	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	1.428	1.228	1.091	1.107	1.162	1.456	1.264	1.457	1.096
	Bottom side	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENDC LTE B5	Front side	0.052	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.398	0.277	0.061	0.063	0.214	0.212	0.201	0.210	0.094
	Back side	0.230	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.637	0.562	0.462	0.525	0.559	0.638	0.622	0.649	0.610
	Left side	0.133	/	/	/	/	/	/	/	/	/	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133
	Right side	0.101	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.513	0.429	0.110	0.189	0.328	0.416	0.404	0.427	0.228
	Top side	0.171	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.522	0.322	0.185	0.201	0.256	0.550	0.358	0.551	0.190
	Bottom side	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENDC LTE B66	Front side	0.554	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.900	0.779	0.563	0.565	0.716	0.714	0.703	0.712	0.596
	Back side	0.692	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.099	1.024	0.924	0.987	1.021	1.100	1.084	1.111	1.072
	Left side	0.226	/	/	/	/	/	/	/	/	/	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
	Right side	0.145	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.557	0.473	0.154	0.233	0.372	0.460	0.448	0.471	0.272
	Top side	0.674	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	1.025	0.825	0.688	0.704	0.759	1.053	0.861		

Test position		SARmax (W/kg)										Summed SAR									
		Main Ant4	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	BT										
		1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11
N41	Front side	0.238	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.584	0.463	0.247	0.249	0.400	0.398	0.387	0.396	0.280
	Back side	0.794	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.201	1.126	1.026	1.089	1.123	1.202	1.186	1.213	1.174
	Left side	0.668	/	/	/	/	/	/	/	/	/	0.668	0.668	0.668	0.668	0.668	0.668	0.668	0.668	0.668	0.668
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N77	Front side	0.070	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.416	0.295	0.079	0.081	0.232	0.230	0.219	0.228	0.112
	Back side	0.483	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.890	0.815	0.715	0.778	0.812	0.891	0.875	0.902	0.863
	Left side	0.355	/	/	/	/	/	/	/	/	/	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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 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.

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



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

Product specific 10g SAR:

Test position	SARmax (W/kg)									
	Main Ant1	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant9					
	1	2	3	4	6	1+2	1+3	1+4	1+6	
N41	Front side	/	0.246	0.162	0.266	/	0.246	0.162	0.266	0.000
	Back side	2.716	0.514	0.541	0.428	0.547	3.230	3.257	3.144	3.263
	Left side	/	/	/	/	/	0.000	0.000	0.000	0.000
	Right side	/	0.581	0.494	0.509	/	0.581	0.494	0.509	0.000
	Top side	/	1.213	0.106	1.156	/	1.213	0.106	1.156	0.000
	Bottom side	2.851	/	/	/	/	2.851	2.851	2.851	2.851

Test position	SARmax (W/kg)									
	Main Ant3	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant9					
	1	2	3	4	6	1+2	1+3	1+4	1+6	
LTE B30	Front side	/	0.246	0.162	0.266	/	0.246	0.162	0.266	0.000
	Back side	2.847	0.514	0.541	0.428	0.547	3.361	3.388	3.275	3.394
	Left side	/	/	/	/	/	0.000	0.000	0.000	0.000
	Right side	/	0.581	0.494	0.509	/	0.581	0.494	0.509	0.000
	Top side	2.342	1.213	0.106	1.156	/	3.555	2.448	3.498	2.342
	Bottom side	/	/	/	/	/	0.000	0.000	0.000	0.000
N30	Front side	/	0.246	0.162	0.266	/	0.246	0.162	0.266	0.000
	Back side	2.346	0.514	0.541	0.428	0.547	2.860	2.887	2.774	2.893
	Left side	/	/	/	/	/	0.000	0.000	0.000	0.000
	Right side	/	0.581	0.494	0.509	/	0.581	0.494	0.509	0.000
	Top side	2.247	1.213	0.106	1.156	/	3.460	2.353	3.403	2.247
	Bottom side	/	/	/	/	/	0.000	0.000	0.000	0.000
N41	Front side	/	0.246	0.162	0.266	/	0.246	0.162	0.266	0.000
	Back side	3.030	0.514	0.541	0.428	0.547	3.544	3.571	3.458	3.577
	Left side	/	/	/	/	/	0.000	0.000	0.000	0.000
	Right side	/	0.581	0.494	0.509	/	0.581	0.494	0.509	0.000
	Top side	1.488	1.213	0.106	1.156	/	2.701	1.594	2.644	1.488
	Bottom side	/	/	/	/	/	0.000	0.000	0.000	0.000

Test position	SARmax (W/kg)									
	Main Ant5	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant9					
	1	2	3	4	6	1+2	1+3	1+4	1+6	
N77	Front side	/	0.246	0.162	0.266	/	0.246	0.162	0.266	0.000
	Back side	/	0.514	0.541	0.428	0.547	0.514	0.541	0.428	0.547
	Left side	3.112	/	/	/	/	3.112	3.112	3.112	3.112
	Right side	/	0.581	0.494	0.509	/	0.581	0.494	0.509	0.000
	Top side	/	1.213	0.106	1.156	/	1.213	0.106	1.156	0.000
	Bottom side	/	/	/	/	/	0.000	0.000	0.000	0.000



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/General-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-Documents.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 herein 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980 sgs.china@sgs.com

9 Equipment list

Test Platform	SPEAG DASY Professional				
Description	SAR Test System (Frequency range 300MHz-6GHz)				
Software Reference	DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)				
Hardware Reference					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
<input checked="" type="checkbox"/> Twin Phantom	SPEAG	EL4	1143	NCR	NCR
<input checked="" type="checkbox"/> Twin Phantom	SPEAG	SAM V8.0	2103	NCR	NCR
<input checked="" type="checkbox"/> DAE	SPEAG	DAE4	1324	2022/10/17	2023/10/16
<input checked="" type="checkbox"/> E-Field Probe	SPEAG	EX3DV4	3793	2022/09/30	2023/09/29
<input checked="" type="checkbox"/> Validation Kits	SPEAG	CLA-13	1032	2023-02-09	2024-02-08
<input checked="" type="checkbox"/> Validation Kits	SPEAG	D6.5GHzV2	1030	2021/03/01	2024/02/29
<input checked="" type="checkbox"/> Dielectric parameter probes	SPEAG	DAKS-12	1043	2023-07-31	2024-07-30
<input checked="" type="checkbox"/> Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R60	21423005	2023-07-31	2024-07-30
<input checked="" type="checkbox"/> Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2023-06-06	2024-06-05
<input checked="" type="checkbox"/> Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0050920	2023-06-06	2024-06-05
<input checked="" type="checkbox"/> RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
<input checked="" type="checkbox"/> Signal Generator	R&S	SMB100A	182393	2023-02-06	2024-02-05
<input checked="" type="checkbox"/> Preamplifier	Qiji	YX28980933	202104001	NCR	NCR
<input checked="" type="checkbox"/> Power Sensor	Keysight	U2002H	MY48200110	2022-12-23	2023-12-22
<input checked="" type="checkbox"/> Attenuator	SHX	TS2-3dB	30704	NCR	NCR
<input checked="" type="checkbox"/> Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
<input checked="" type="checkbox"/> Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
<input checked="" type="checkbox"/> DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
<input checked="" type="checkbox"/> Speed reading thermometer	LKM	DTM3000	SUW201-19-02	2023-09-15	2024-09-14
<input checked="" type="checkbox"/> Humidity and Temperature Indicator	MingGao	MingGao	NA	2022-09-19	2023-09-18
<input checked="" type="checkbox"/> Humidity and Temperature Indicator	MingGao	MingGao	NA	2023-09-15	2024-09-14

Note: All the equipments are within the valid period when the tests are performed.



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/General-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/e-Documents.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 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@sgs.com

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results**Appendix B: Detailed Test Results****Appendix C: Calibration certificate****Appendix D: Photographs****Appendix E: Conducted RF Output Power**

---END---



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 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.

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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 编号: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com