Report No.: SUZR/2021/9002603 Rev.: 01 Page: 1 of 62

**TEST REPORT** 

Test Result :	PASS *
Date of Issue:	2022/2/16
Date of Test:	2021/11/10 to 2022/2/15
Date of Receipt:	2021/11/9
Standards:	47 CFR FCC Part 2, Subpart J 47 CFR Part 15, Subpart C
FCC ID:	2ALZM-SP502
Trade Mark:	SeNse
Model No.:	SP502
EUT Description:	Smart Phone
Address of Manufacturer:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
Manufacturer:	Great Talent Technology Limited
Address of Applicant:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
Applicant:	Great Talent Technology Limited
Application No.:	ZR/2021/90026

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

Authorized Signature:

Sun anta

Panta Sun Wireless Laboratory Manager



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions, arg/Comments, 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 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 faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Duless 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: (6e-755) 83071443. ne: (86-755) 8307 1443.

South of No. 6 Plant, No. 1, Runsheno Road, Suzhou Industrial Park, Suzhou Area, China (Jianosu) 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海胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sasaroup.com.cn sgs.china@sgs.com

t (86-512) 62992980

Report No.: SUZR/2021/9002603 Rev.: 01 Page: 2 of 62

#### Version 1

		<b>Revision Record</b>		
Version	Chapter	Date	Modifier	Remark
01		2022/2/16		Original

Prepared By	Weller Liu) / Engineer
Checked By	(Well Wei) / Reviewer



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)83071443,

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.sasaroup.com.cn sgs.china@sgs.com

t (86-512) 62992980

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 3 of 62

### 2 Test Summary

SG

Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.3	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.4	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.5	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.6	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	Clause 4.8	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou 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调胜路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

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 4 of 62

### Contents

1	Versio	n	2
2	Test S	ummary	3
3	Genera	al Information	5
	3.1	Details of Client	5
	3.2	Test Location	5
	3.3	Test Facility	5
	3.4	General Description of EUT	6
	3.5	Test Environment	8
	3.6	Description of Support Units	8
4	Test re	esults and Measurement Data	9
	4.1	Antenna Requirement	9
	4.2	AC Power Line Conducted Emissions	10
	4.3	Duty Cycle	14
	4.4	Conducted Output Power	15
	4.5	DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	16
	4.6	Power Spectral Density	17
	4.7	Band-edge for RF Conducted Emissions	18
	4.8	RF Conducted Spurious Emissions	19
	4.9	Radiated Spurious Emissions	20
	4.10	Restricted bands around fundamental frequency	23
5	Measu	rement Uncertainty (95% confidence levels, k=2)	25
6	Equipn	nent List	26
7	Photog	graphs - EUT Constructional Details	28



SG

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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and Jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ses.com").

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou 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湖胜路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

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 5 of 62

## **3** General Information

#### 3.1 Details of Client

Applicant:	Great Talent Technology Limited
Address of Applicant:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
Manufacturer:	Great Talent Technology Limited
Address of Manufacturer:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China

#### 3.2 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:	Weller Liu, King-p Li, Nature Shen, Tizzy Song

### 3.3 Test Facility

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

#### • A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

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

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

#### • FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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 <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, xtitention 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Dness 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: <u>Or breck the authenticity of testing finspection report & certificate, please contact us at telephone</u>: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Indushial Park, Suzhou Area, China (Jiangsu) Plot 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测胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 6 of 62

### 3.4 General Description of EUT

EUT Description:	Smart Phone
Model No.:	SP502
Trade Mark:	SeNse
Hardware Version:	Q6003_V1.0
Software Version:	SP502_01.01.04
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.
Bluetooth version:	Bluetooth V4.1
Modulation Type:	GFSK
Number of Channel:	40
Dotoo Turo*i	Provided by client
Rates Type*:	1M PHY
Sample Type:	Portable Device, Module
Antenna Type:	External, Integrated
Antonno Cointe	Provided by client
Antenna Gain*:	2.96dBi;
DE Cablet	Provided by client
RF Cable*:	1dB

#### Remark:

\*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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions, for electronic format documents, advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and 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 unawifue and of the company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unawifue and the smalles shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only.

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Area, China (Jiangsu) Pilot Free Trade Zone 2150000 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湖胜路1号约6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 7 of 62

		Opera	ation Frequen		nannel		
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

#### Remark:

S

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz



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 <u>http://www.sgs.com/en/Terms-and-Conditions,aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereion 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: <u>Ornex the authenticity of testing finspection report & certificate, please contact us at telephone</u>: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pitot 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测胜路1号的6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 8 of 62

### 3.5 Test Environment

Environment Parameter	101.0 kPa Sele	cted Values During Tests
Relative Humidity	44-46	% RH Ambient
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.8
LTNV	-20	3.8
HTNV	50	3.8
Remark:		
NV: Normal Voltage		
NT: Normal Temperature		
LT: Low Extreme Test Temperatur	re	
HT: High Extreme Test Temperatu	re	

### 3.6 Description of Support Units

The EUT has been tested independent unit.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Area, China (Jiangsu) Pilot Free Trade Zone 2150000 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湖胜路1号约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

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 9 of 62

## 4 Test results and Measurement Data

#### 4.1 Antenna Requirement

|--|

#### 15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is integrated and no consideration of replacement. The best case gain of the antenna is 2.96dBi.



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 <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of 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. Diless 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: (66-755) 8307 1443, or enail: <u>CN.Doccheck@ags.com</u> or <u>als@sistex.ml.fics.ml.plas.et</u> (bio: <u>1000 to (86-512) 62992980</u> www.sgsgroup.com.or.or.or (afe.512) 62992980 sgs.china@sgs.com

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 10 of 62

### 4.2 AC Power Line Conducted Emissions

S

Test Requirement:	47 CFR Part 15C Sectio	n 15.207			
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Limit:		Limit (d	BuV)		
	Frequency range(MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the log	arithm of the frequency.			
Test Procedure:	<ul> <li>room.</li> <li>2) The EUT was connected to a secon plane in the same of multiple socket outlet single LISN provided</li> <li>3) The tabletop EUT was ground reference plane placed on the horizor</li> <li>4) The test was perform the EUT shall be 0. vertical ground reference plane. The unit under test and mounted on top of th the closest points of and associated equip</li> <li>5) In order to find the m and all of the interfate</li> </ul>	listurbance voltage test was ected to AC power source tion Network) which provides ower cables of all other und LISN 2, which was bonded way as the LISN 1 for the t strip was used to connect m the rating of the LISN was no as placed upon a non-metall ne. And for floor-standing arr natal ground reference plane. ed with a vertical ground reference a LISN 1 was placed 0.8 m f d bonded to a ground reference plane. The the LISN 1 and the EUT. A poment was at least 0.8 m from paximum emission, the relativice cables must be changed a pon conducted measurement.	through a LISN 1 (Line a $50\Omega/50\mu$ H + $5\Omega$ linear inits of the EUT were d to the ground reference unit being measured. A bultiple power cables to a bit exceeded. ic table 0.8m above the rangement, the EUT was erence plane. The rear of nd reference plane. The bothe horizontal ground rom the boundary of the erence plane for LISNs is distance was between II other units of the EUT in the LISN 2. e positions of equipment		



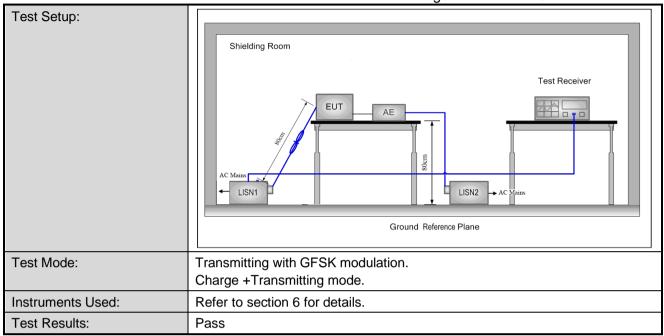
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to ferms and Conditions for Electronic Documents affued from the transaction for the imitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document is unawultion and finders 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) lested and such sample(s) are relatined for 30 days only. Attention: To check the authenticity of testing fingepetic are parts access and the sample(s) lested and such sample(s) are relatined for 30 days only. Attention: To check the authenticity of testing fingestion report & certificate, please contact us at telephone: (86-755) 8307 1443, or enail: CN.Doccheck@egs.com the finde Tax days of the (35) days only. Attention: To check the authenticity of testing fingestion report & certificate, please contact us at telephone: (86-755) 8307 1443, or enail: CN.Doccheck@egs.com the finde Tax days of the finde Tax days of the (35) days only. Attention: To check the authenticity of testing fingestions are parts and the finde the sample(s) are relatined for 30 days only. Attention: To check the authenticity of testing finde Tax days and the sample and the sample and the same a

t (86–512) 62992980 sgs.china@sgs.com Member of the SGS Group (SGS SA)

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 11 of 62





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 Documents, subject to Terms and Conditions, for electronic Documents after the *Thtp://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions*, and the comments, advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document is unawardling and the company. Any unauthorized alteration, forgery or falsification of the content or rappearance of this document is unawardli 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 finghection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN. Doccheck@gs.com

 Soud/uk-Rivel, Linuweg Ku, Sudukukatiak, Sudukukatiak, Sudukatiak Sudukatiak, Sudukatiak Sudukatiak, Suduk

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

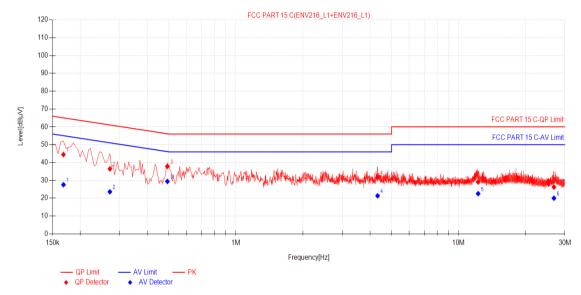
 Page:
 12 of 62

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Final I	Final Data List								
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1680	10.71	44.48	65.06	20.58	27.57	55.06	27.49	PASS
2	0.2715	10.73	36.44	61.07	24.63	23.59	51.07	27.48	PASS
3	0.4920	10.61	37.85	56.13	18.28	29.41	46.13	16.72	PASS
4	4.3260	10.70	31.76	56.00	24.24	21.36	46.00	24.64	PASS
5	12.2370	10.58	29.08	60.00	30.92	22.56	50.00	27.44	PASS
6	26.7900	10.30	26.22	60.00	33.78	20.01	50.00	29.99	PASS

#### Remark:

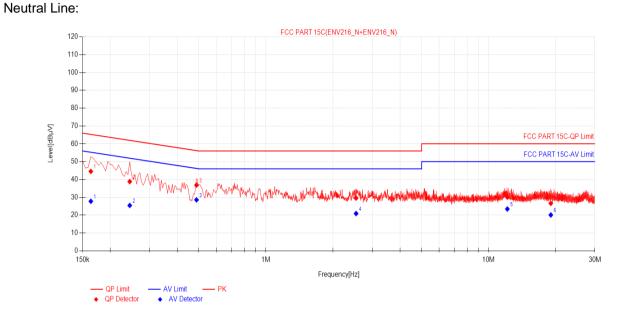
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 13 of 62



Final	Final Data List								
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1635	10.72	44.54	65.28	20.74	27.78	55.28	27.50	PASS
2	0.2445	10.72	38.84	61.94	23.10	25.45	51.94	26.49	PASS
3	0.4875	10.81	36.86	56.21	19.35	28.58	46.21	17.63	PASS
4	2.5395	10.76	29.57	56.00	26.43	20.92	46.00	25.08	PASS
5	12.1335	10.65	30.14	60.00	29.86	23.47	50.00	26.53	PASS
6	19.0230	10.43	26.62	60.00	33.38	20.11	50.00	29.89	PASS

#### Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



Unless otherwise agreed in writing, this document is issued by overleaf, available on request or accessible at <u>http://www.sgs.co</u> subject to Terms and Conditions for Electronic Documents at <u>h</u> Attention is drawn to the limitation of liability, indemnification at advised that information contained hereon reflects the Company Client's instructions, if any. The Company's sole responsibility	m/e ttp: nd j y's 1	n/Terms-and-C //www.sgs.com/ urisdiction issu findings at the	conditions.aspx and, for electro /en/Terms-and-Conditions/Te ues defined therein. Any holo time of its intervention only	onic format documents, rms-e-Document.aspx. ler of this document is and within the limits of
transe tinon from exercising all thornipping and subligations und except in full, without prior written approval of the Company. A appearance of this document is unlawful and offenders may be p results shown in this test report refer only to the sample(s) tested Attention. To check the authenticity of testing /inspection rep or email: CN-Doccheck@sas.com	er tany oros and	he transaction unauthorized a ecuted to the fit such sample(s	documents. This document alteration, forgery or falsifica ullest extent of the law. Unles are retained for 30 days only	cannot be reproduced ation of the content or as otherwise stated the /.
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Z	one	215000	t (86-512) 62992980	www.sgsgroup.com.cn
		215000	t (86-512) 62992980	sgs.china@sgs.com

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 14 of 62

### 4.3 Duty Cycle

The detailed test data see: Appendix



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forger or falisfication 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@ss.com

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou 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调胜路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

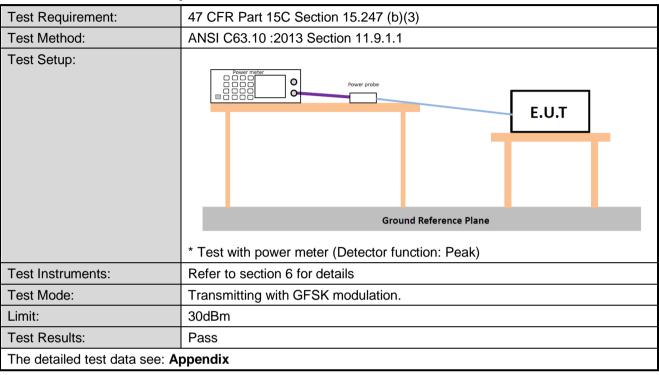
 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 15 of 62

#### 4.4 Conducted Output Power

S





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pitot 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测胜路1号的6号厂房南部 邮编: 215000 contact us at telephone: (86-755) 8307 1443, t (86-512) 62992980 www.sgsgroup.com.cn

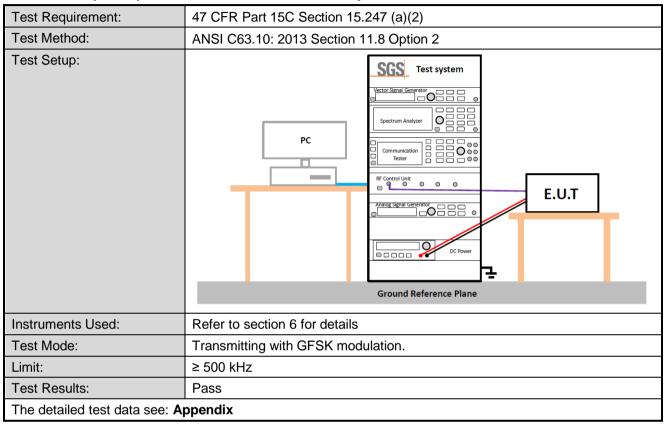
t (86-512) 62992980

Member of the SGS Group (SGS SA)

Report No.: SUZR/2021/9002603 Rev.: 01 Page: 16 of 62

#### 4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

S





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 <u>http://www.sgs.com/en/Terms-and-Conditions,aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Documentaspx</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing/Inspection reports & certificate, please contact us at telephone: (66-755) 83071443. ne: (86-755) 8307 1443.

South of No. 6 Plant, No. 1, Runsheno Road, Suzhou Industrial Park, Suzhou Area, China (Jianosu) 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

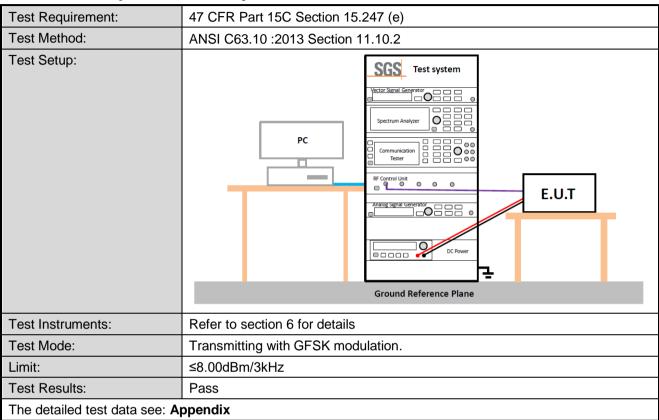
t (86-512) 62992980

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

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 17 of 62



#### 4.6 Power Spectral Density

S



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Area, China (Jiangsu) Pilot Free Trade Zone 2150000 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湖胜路1号的6号厂房南部 邮编: 215000 contact us at telephone: (86-755) 8307 1443, t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980

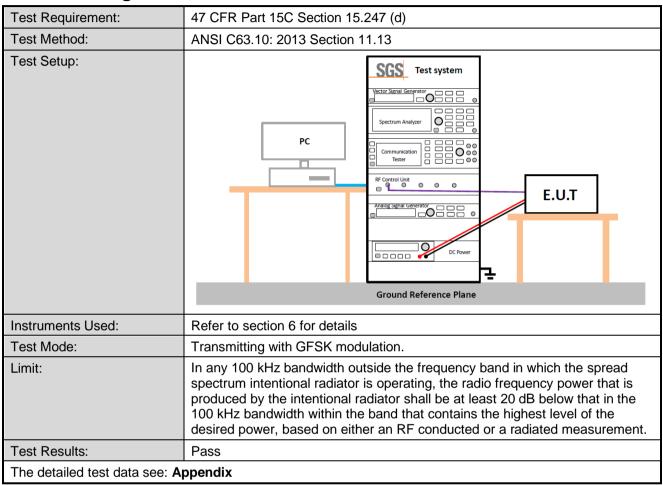
Member of the SGS Group (SGS SA)

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 18 of 62

#### 4.7 Band-edge for RF Conducted Emissions





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 <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, xtitention 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Dness 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: <u>Or breck the authenticity of testing finspection report & certificate, please contact us at telephone</u>: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pitot 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测胜路1号的6号厂房南部 邮编: 215000 contact us at telephone: (86-755) 8307 1443, t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980

Member of the SGS Group (SGS SA)

Report No.: SUZR/2021/9002603 Rev.: 01 Page: 19 of 62

Test Requirement:	47 CFR Part 15C Section 15.247 (d)		
Test Method:	ANSI C63.10: 2013 Section 11.11		
Test Setup:	Pc   E.U.T Formulation Control Unit For Signal Generation For Control Unit For Control Uni		
Instruments Used:	Refer to section 6 for details		
Test Mode:	Transmitting with GFSK modulation.		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.		
Test Results:	Pass		
The detailed test data see: A	opendix		

### 4.8 **RF Conducted Spurious Emissions**

S



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ses.com

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.sasaroup.com.cn

sgs.china@sgs.com t (86-512) 62992980 Member of the SGS Group (SGS SA)

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 20 of 62

### 4.9 Radiated Spurious Emissions

S

Test Requirement:	47 CFR Part 15C Section	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10 :2013 Sec	ANSI C63.10 :2013 Section 11.12					
Test Site:	Measurement Distance:	3m (Semi-Anecho	ic Chamber)				
Limit:	Frequency	Field strength (microvolt/meter)		Remark	Measurement distance (m)		
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300		
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30		
	1.705MHz-30MHz	30	-	-	30		
	30MHz-88MHz	100	40.0	Quasi-peak	3		
	88MHz-216MHz	150	43.5	Quasi-peak	3		
	216MHz-960MHz	200	46.0	Quasi-peak	3		
	960MHz-1GHz	500	54.0	Quasi-peak	3		
	Above 1GHz	500	54.0	Average	3		
	Remark: 15.35(b),Unles emissions is 20dB above			-			
	applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.						
Test Setup:							
AE EUT (Turntable)	Antenna 3m E Ground Reference Plane		AE EUT (Turntable)	3m or 10m	Antenna Tower		

Figure 1. Below 30MHz Figure 2. 30MHz to 1GHz



	Report No.: SUZR/2021/9002603 Rev.: 01 Page: 21 of 62
	Truge. ZTOROZ
	Figure 3. Above 1 GHz
Test Procedure:	<ul> <li>a. For below 1GHz(9KHz start), the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. For above 1GHz(10th harmonic), the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation</li> <li>c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> </ul>
	d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	h. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
	<ul> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ul>
Test Configuration:	Measurements Below 1000MHz
rest configuration.	• RBW = 120 kHz
	• VBW = 300 kHz
	• Detector = Peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and for electronic format document.aspx. Attention is drawn to the limitation of liability, indemnification and juriadiction issues defined therein. Any holder of hils document laspx. Collent's instructions, if any. The memory is a subject to the subject to the

South of No. 6 Plant, No. 1, Runsheng Read, Starhou Industrial Park, Starhou Area, China (Jiangsu) Pikit 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湖胜路1号的45厂房南部 邮编: 215000 
 t (86–512) 62992980
 www.sgsgroup.com.cn

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

		Report No.: Rev.:	SUZR/2021/9002603 01			
		Rev Page:	22 of 62			
	Detector = Peak					
	<ul> <li>Sweep time = auto</li> </ul>					
	<ul> <li>Trace mode = max hold</li> </ul>					
	Average Measurements Above 1000MHz					
	• RBW = 1 MHz					
	• VBW ≥ [3 *RBW]					
	• Detector = RMS (power averaging), if span / (# of points in sweep) $\leq$ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.					
	• Sweep time = auto					
	Perform a trace average of at least 100 tra	aces.				
Exploratory Test	Transmitting with GFSK modulation.					
Mode:	Charge + Transmitting mode.					
Final Test Mode:	Transmitting with GFSK modulation.					
	Pretest the EUT at Charge + Transmitting n					
	For below 1GHz part, through pre-scan, the the worst case is recorded in the report.	worst case is	the lowest channel. Only			
	The low frequency, which started from 9 kH result which was 20dB lower than the limit li					
	The disturbance above 18GHz was very low highest point could be found when testing, s displayed.					
Instruments Used:	Refer to section 6 for details					
Test Results:	Pass					
The detailed test data	see: Appendix					



SG:

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Indushial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 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测胜路1号的6号厂房南部 邮编: 215000 
 contact us at telephone: (86-755) 8307 1443,

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

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

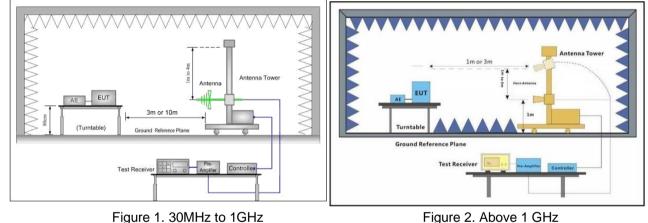
Report No.: SUZR/2021/9002603 Rev.: 01 Page: 23 of 62

### 4.10Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10: 2013 Section	ANSI C63.10: 2013 Section 11.12				
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Limit:	Frequency Limit (dBuV/m) Remark					
	30MHz-88MHz 40.0 Quasi-peak					
	88MHz-216MHz 43.5 Quasi-peak					
	216MHz-960MHz 46.0 Quasi-peak					
	960MHz-1GHz 54.0 Quasi-peak					
	54.0 Average Value					
	Above 1GHz	74.0	Peak Value			

Test Setup:

SG



Figu	are 1. 30MHz to 1GHz	Figure 2. Above 1 GHz
Test Procedure:	above the ground at	EUT was placed on the top of a rotating table 0.8 meters a 3 or 10 meter semi-anechoic camber. The table was to determine the position of the highest radiation.
	meters above the gr	e EUT was placed on the top of a rotating table 1.5 ound at a 3 meter semi-anechoic camber. The table was to determine the position of the highest radiation.
		or 10 meters away from the interference-receiving mounted on the top of a variable-height antenna tower.
	to determine the ma	is varied from one meter to four meters above the ground ximum value of the field strength. Both horizontal and of the antenna are set to make the measurement.
	then the antenna wa	emission, the EUT was arranged to its worst case and as tuned to heights from 1 meter to 4 meters and the surned from 0 degrees to 360 degrees to find the
	f. The test-receiver sy Bandwidth with Max	stem was set to Peak Detect Function and Specified imum Hold Mode.
	g. Place a marker at th	e end of the restricted band closest to the transmit



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, statention is drawn to the final the transaction of the transactic transaction of the transac ne: (86-755) 8307 1443.

South of No. 6 Plant, No. 1, Runsheno Road, Suzhou Industrial Park, Suzhou Area, China (Jianosu) 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.sasaroup.com.cn

t (86-512) 62992980

Report No.: SUZR/2021/9002603

	Rev.: 01
	Page: 24 of 62
Test Configuration:	<ul> <li>frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> <li>h. Test the EUT in the lowest channel , the Highest channel</li> <li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ul>
	• RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	VBW ≥ 3 MHz
	Detector = Peak     Sween time = oute
	<ul> <li>Sweep time = auto</li> <li>Trace mode = max hold</li> </ul>
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	• VBW ≥ [3 *RBW]
	<ul> <li>Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.</li> <li>Sweep time = auto</li> <li>Perform a trace average of at least 100 traces.</li> </ul>
Exploratory Test Mode:	Transmitting with GFSK modulation.
	Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation.
	Pretest the EUT at Charge + Transmitting mode.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	e: Appendix



SG

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Indushial 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

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 25 of 62

## 5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±7.25x 10 <sup>-8</sup>
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±7.25x 10 <sup>-8</sup>
7	Conduction Emission	± 2.9dB (150kHz to 30MHz)
		± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
8	Radiated Emission(966-01)	± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



S

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 <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: To other the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pitot 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测胜路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

Report No.: SUZR/2021/9002603 Rev.: 01 Page: 26 of 62

#### **Equipment List** 6

Tonscend Test System							
Faulinment	Manufacturer	Model No.	Inventen Ale	Cal. date	Cal.Due date		
Equipment			Inventory No.	(yyyy- mm-dd)	(yyyy-mm- dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7		
Temperature and humidity meter			SUWI-01-01-07	2021/2/20	2022/2/19		
Signal Analyzer	nalyzer ROHDE&SCHWARZ		SUWI-01-02-02	2021/5/28	2022/5/27		
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19		
Measurement Software	Lonscend		SUWI-02-09-09	NCR	NCR		
EPM Series Power Aglient		E4419B	SUWI-03-22-01	2021/6/11	2022/6/10		
E-SERIES AVG POWER SENSOR Aglient		E9301A	SUWI-03-23-01	2021/6/11	2022/6/10		

CE Test Equipment								
Equipment Manufacturer		Model No.	Inventory No.	Cal Date	Cal Due Date			
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19			
Artificial network	ficial network ROHDE&SCHWARZ		SUWI-01-19-02	2021/2/20	2022/2/19			
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR			
Temperature and MingGao		TH101B	SUWI-01-01-06	2021/2/20	2022/2/19			
Test receiver ROHDE&SCHWARZ		ESR7	SUWI-01-10-01	2021/2/20	2022/2/19			



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ses.com

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号約6号厂房南部 邮编: 215000

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

sgs.china@sgs.com t (86-512) 62992980 Member of the SGS Group (SGS SA)

		Report No.: SUZR/2021 Rev.: 01 Page: 27 of 62		1/9002603	
	RSE	Test Equipment	996-01	-	
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19
Signal Analyzer	ROHDE&SCHW ARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHW ARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR
Radio Communication Analyzer	ROHDE&SCHW ARZ	CMW500	SUWI-01-27-01	2021/9/28	2022/9/27



SG:

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is a dvised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ses.com

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

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 28 of 62

## 7 Photographs - EUT Constructional Details

Refer to Appendix A.2 WLAN Setup Photos.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-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 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: (86-75) 8307 1443, or email: CO Doccheck@ins.com

South of No. 6 Plant, No. 1, Runsheng Read, Stathou Industrial Park, Stathou Area, China (Jiangsu) Pilot Free Trade Zone 2150000 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湖胜路1号约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

> Report No.: SUZR/2021/9002603 Rev.: 01 Page: 29 of 62

# Appendix



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 Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication 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,

South of No. 6 Plant, No. 1, Runsheno Road, Suzhou Industrial Park, Suzhou Area, China (Jianosu) 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

t (86-512) 62992980

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 30 of 62

### **DTS Bandwidth**

**Test Result** 

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.68	2401.65	2402.33	0.5	PASS
BLE_1M	Ant1	2440	0.68	2439.65	2440.33	0.5	PASS
		2480	0.68	2479.65	2480.33	0.5	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou 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湖胜路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

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 31 of 62

#### BLE\_1M\_Ant1\_2402 $\bigotimes$ • Multi\/ie Ref Level 30.00 dBm Offset 1.00 dB = RBW 100 kHz Att 30 dB SWT 1.01 ms = VBW 300 kHz 1.13 dE 2 402 10 dBm -H1 -4.870 10 dBr 20 dF 30 dB 40 dBr -50 dB 60 dB Span 4.0 MH CF 2.402 GHz 1001 pt 400.0 kHz/ 2.401 648 GHz 2.402 GHz 680.0 kHz -4.73 dBm 1.13 dBm 0.08 dB M1 M2 11:08:43 14.12.2021 BLE\_1M\_Ant1\_2440 $\otimes$ Specific Ref Level 30.00 dBm Offset 1.00 dB = RBW 100 kHz SWT 1.01 ms = VBW 300 kHz Mo 0 dB 10 dBm -H1 -4.09 10 dBr 20 dE -30 dB -40 dB -50 d -60 dBr Span 4.0 MH CF 2.44 GH2 1001 pts 00.0 kHz 2.439 648 GHz 2.439 996 GHz 680.0 kHz -4.01 dBm 1.91 dBm 0.07 dB M2 D3 11:12:17 14.12.2021

#### **Test Graphs**



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 <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein, Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawill and offenders may be prosecuted to the fullest extend for 30 days only. Attention: To check the authenticity of testing inspection report a certificate, please contact us at telephone: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Plot 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

Member of the SGS Group (SGS SA)





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is a dvised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheno Road, Suzhou Industrial Park, Suzhou Area, China (Jianosu) 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号約6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sasaroup.com.cn

t (86-512) 62992980

Report No.: SUZR/2021/9002603 Rev.: 01 Page: 33 of 62

#### **Occupied Channel Bandwidth Test Result**

Test Mode Antenna Channel OCB [MHz] FL[MHz] FH[MHz] Limit[MHz] Verdict 2402 1.066 2401.466 2402.532 PASS ---BLE\_1M PASS Ant1 2440 1.067 2439.464 2440.531 ---2480 1.066 2479.463 2480.529 ---PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheno Road, Suzhou Industrial Park, Suzhou Area, China (Jianosu) 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.sasaroup.com.cn sgs.china@sgs.com

t (86-512) 62992980

Report No.: SUZR/2021/9002603 Rev.: 01 34 of 62 Page:

#### BLE\_1M\_Ant1\_2402 $\bigotimes$ • Multi\/ie Ref Level 30.00 dBm Offset 1.00 dB = RBW 50 kHz Att 30 dB SWT 1.01 ms = VBW 200 kHz 2 401 10 dBm 10 dB 20 dF 30 dB 40 dBn -50 dBn -60 dBm 1001 pt 400.0 kHz/ CF 2.402 GHz Span 4.0 MH Function Result 1.065834671 MHz X-Value 2.401 996 GH Occ Bw Occ Bw Centroid Occ Bw Freq Offse 0.27 dBn M1 T1 T2 2.401 465 68 GHz 2.402 531 51 GHz -15.87 dBn -14.75 dBn 2.401 998 595 GH -1.404 587 823 kH 11:08:54 14.12.2021 BLE\_1M\_Ant1\_2440 $\otimes$ v = Sp Ref Level 30.00 dBm Offset 1.00 dB ⇒ RBW 50 kHz Att 30 dB SWT 1.01 ms ⇒ VBW 200 kHz M Att Accupied Ba 0 dB 10 dBr 10 dBr 20 dE -30 dBr -40 dB -50 dE -60 dBm Span 4.0 MH CF 2.44 GH2 1001 pt 100.0 kHz X-Value 2 439 996 GH Function Result 1.066 767 469 MH 1.11 dB Occ Bw Occ Bw Centroid Occ Bw Freq Offse T1 T2 2.439 463 76 G 2.440 530 53 G 2.439 997 142 GH -2.858 052 337 kH 15.03 dl 13.87 dl 11:12:29 14.12.2021

#### **Test Graphs**



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 <u>http://www.ags.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.ags.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing/Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, ne: (86-755) 8307 1443.

South of No. 6 Plant, No. 1, Runsheno Road, Suzhou Industrial Park, Suzhou Area, China (Jianosu) 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.sasaroup.com.cn

t (86-512) 62992980

Member of the SGS Group (SGS SA)





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is a dvised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheno Road, Suzhou Industrial Park, Suzhou Area, China (Jianosu) 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号約6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sasaroup.com.cn

t (86-512) 62992980

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 36 of 62

### Maximum conducted output power Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.77	≤30	PASS
		2440	0.02	≤30	PASS
		2480	-0.80	≤30	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou 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调胜路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

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 37 of 62

#### Maximum power spectral density Test Result

Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
		2402	-14.06	≤8	PASS
BLE_1M	Ant1	2440	-13.11	≤8	PASS
		2480	-13.96	≤8	PASS



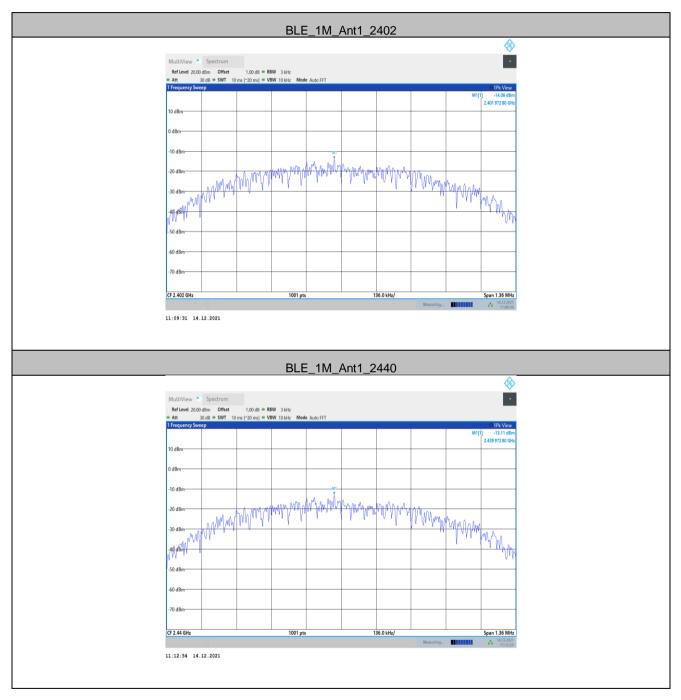
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou 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调胜路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

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 38 of 62



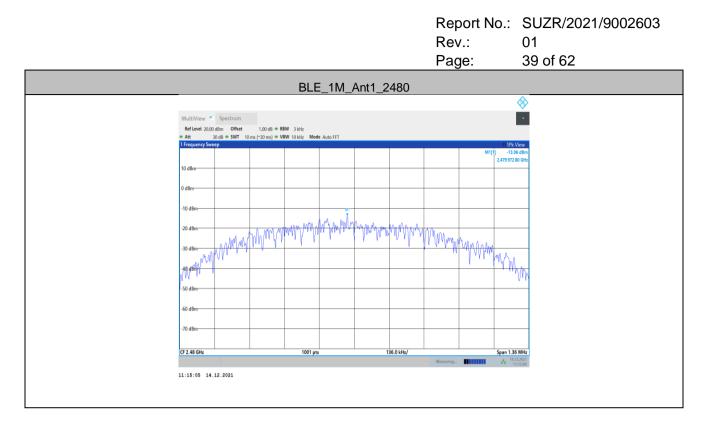
#### **Test Graphs**



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 <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: To other the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Plot 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测胜路1号的6号厂房南部 単编: 215000 contact us at telephone: (86-755) 8307 1443, t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheno Road, Suzhou Industrial Park, Suzhou Area, China (Jianosu) 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.sasaroup.com.cn

t (86-512) 62992980

Member of the SGS Group (SGS SA)

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 40 of 62

#### Band edge measurements

**Test Result** 

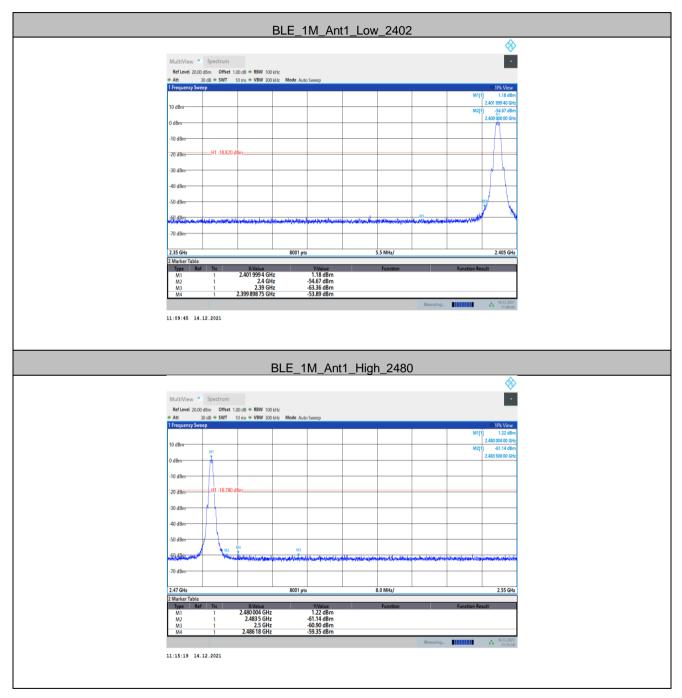
Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
		Low	2402	1.18	-53.89	≤-18.82	PASS
BLE_1M	Ant1	High	2480	1.22	-59.35	≤-18.78	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou 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湖胜路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

Report No.: SUZR/2021/9002603 Rev.: 01 41 of 62 Page:



#### **Test Graphs**



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 <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: <u>Or beek the authenticity of testing finspection report & certificate, please contact us at telefonce</u>: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheno Road, Suzhou Industrial Park, Suzhou Area, China (Jianosu) 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.sasaroup.com.cn

t (86-512) 62992980

Member of the SGS Group (SGS SA)

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 42 of 62

#### Conducted Spurious Emission Test Result

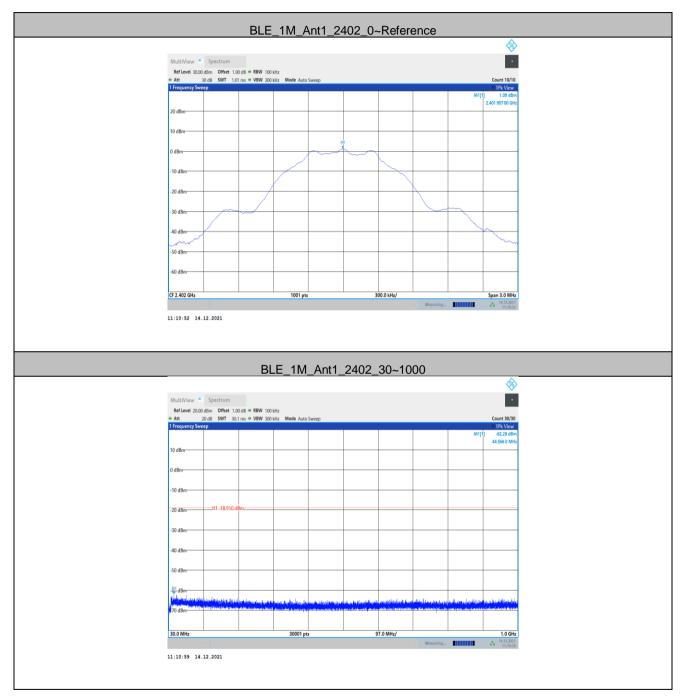
Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
			Reference	1.09	1.09		PASS
	-	2402	30~1000	1.09	-62.29	≤-18.91	PASS
			1000~26500	1.09	-47.83	≤-18.91	PASS
		2440	Reference	1.90	1.90		PASS
BLE_1M	Ant1		30~1000	1.90	-61.91	≤-18.1	PASS
			1000~26500	1.90	-55.25	≤-18.1	PASS
			Reference	1.03	1.03		PASS
			30~1000	1.03	-62.35	≤-18.97	PASS
			1000~26500	1.03	-57.21	≤-18.97	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou 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湖胜路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

Report No.: SUZR/2021/9002603 Rev.: 01 43 of 62 Page:



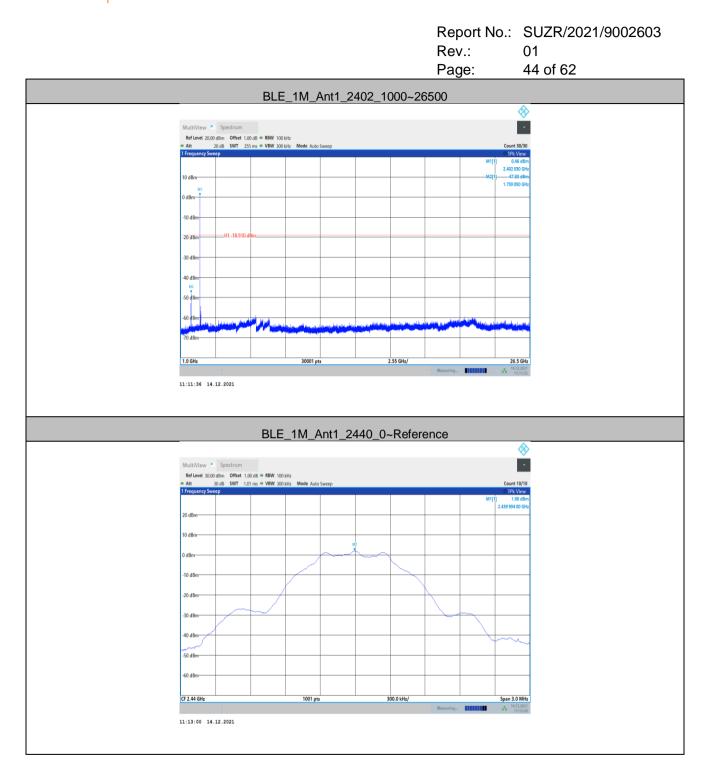
#### **Test Graphs**



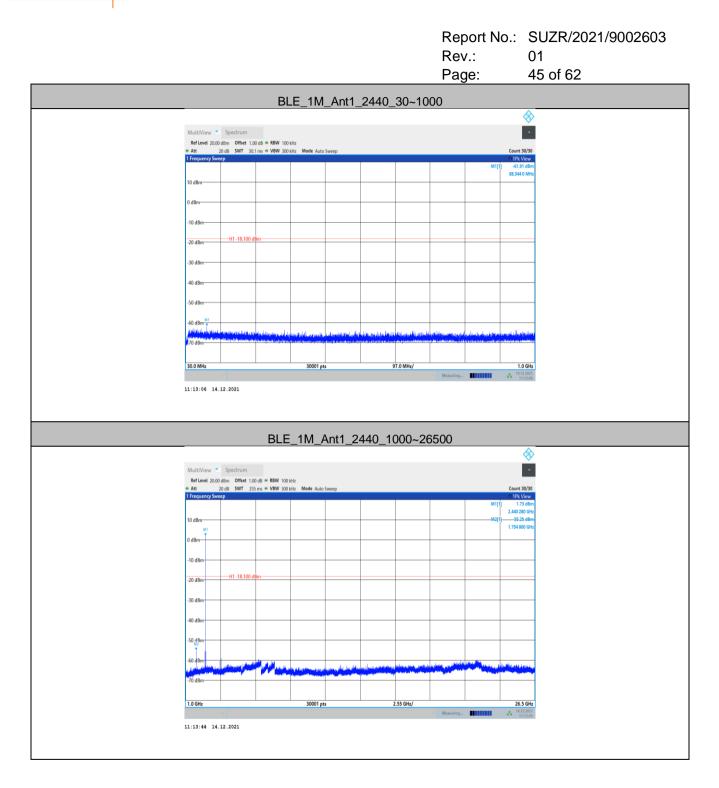
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheno Road, Suzhou Industrial Park, Suzhou Area, China (Jianosu) 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.sasaroup.com.cn

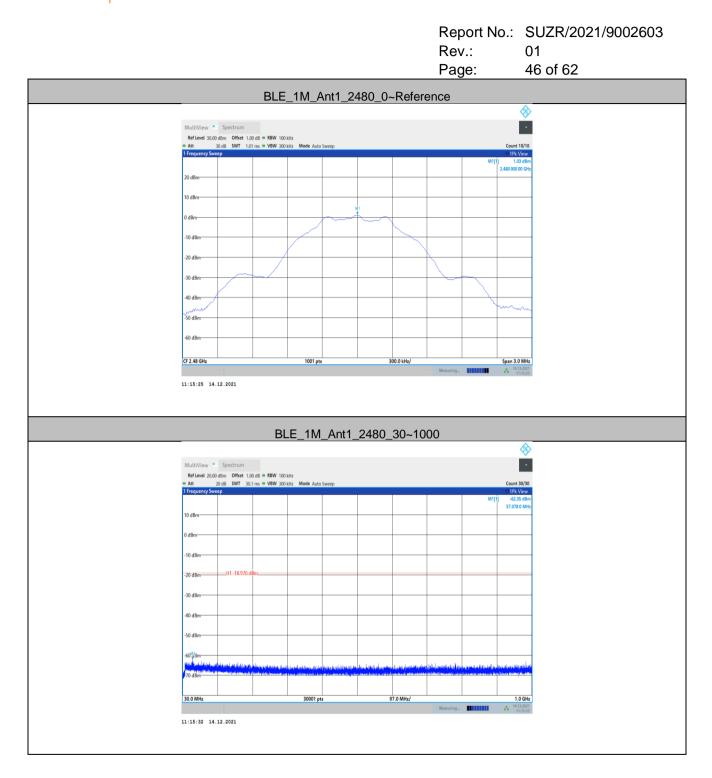
t (86-512) 62992980



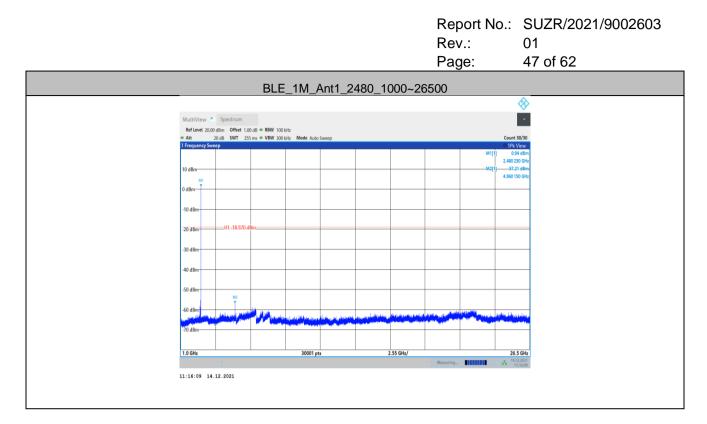














Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is a dvised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Indushial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 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测胜路1号的6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980

Member of the SGS Group (SGS SA)

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 48 of 62

#### Duty Cycle Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	Х	DC [%]	X Factor	Limit	Verdict
		2402	0.39	0.63	0.619	61.90	1.97		PASS
BLE_1M	Ant1	2440	0.39	0.63	0.619	61.90	1.97		PASS
		2480	0.39	0.63	0.619	61.90	1.97		PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou 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湖胜路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

Report No.: SUZR/2021/9002603 Rev.: 01 49 of 62 Page:

#### BLE\_1M\_Ant1\_2402 $\bigotimes$ • MultiView Spectrum Ref Level 25.00 dBm Offset 1.00 dB RBW 10 MHz Att 30 dB SWT 2 ms VBW 10 MHz S G I Att -TRG -4.00 -10 dB -20 dBr 相关学的 YAMAAA AN BALL F 2.402 GHz 3001 pts 200.0 µs/ X-Value 625.333 μs 390.667 μs 626.667 μs V-Value 0.81 dBm 0.89 dB 0.92 dB D1 M1 ÷. 08:06:36 26.01.2022 BLE\_1M\_Ant1\_2440 $\bigotimes$ MultiView Spectrum Ref Level 25:00 dBm Offset 1:00 dB ■ RBW 10 MHz ● Att 30 dB ● SWT 2 ms ■ VBW 10 MHz M1 -10 dB -20 dBr an de and the second in the state of th Addition ----CF 2.44 GHz 3001 pts 200.0 µs/ X-Value 625.333 µs 390.0 µs 628.0 µs Y-Value 1.71 dBm 0.92 dB 0.91 dB M1 08:07:54 26.01.2022

#### **Test Graphs**

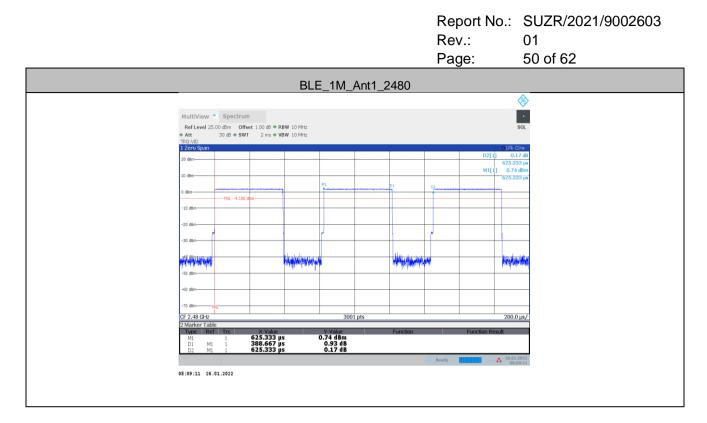


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheno Road, Suzhou Industrial Park, Suzhou Area, China (Jianosu) 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.sasaroup.com.cn

t (86-512) 62992980

Member of the SGS Group (SGS SA)





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is a dvised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falisfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ses.com

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Area, China (Jiangsu) Pilot Free Trade Zone 2150000 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湖胜路1号约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

 Report No.:
 SUZR/2021/9002603

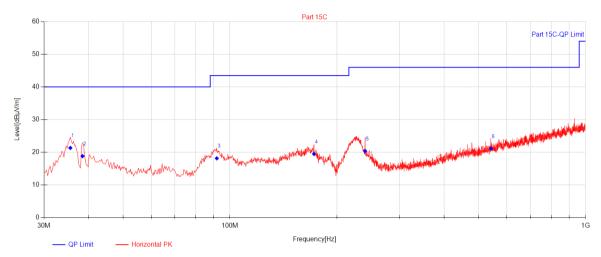
 Rev.:
 01

 Page:
 51 of 62

#### **Radiated Spurious Emissions**

#### Radiated emission below 1GHz

#### Worst case Mode: BLE\_Channel 39



Final	Final Data List												
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	35.5775	44.33	-22.99	21.34	40.00	18.66	196	132	Horizontal				
2	38.4875	41.29	-22.47	18.82	40.00	21.18	235	110	Horizontal				
3	91.8375	44.89	-26.74	18.15	43.50	25.35	145	144	Horizontal				
4	172.3475	40.18	-20.69	19.49	43.50	24.01	182	205	Horizontal				
5	240.005	44.13	-23.76	20.37	46.00	25.63	179	205	Horizontal				
6	541.9175	36.58	-15.46	21.12	46.00	24.88	119	49	Horizontal				



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 <u>http://www.sgs.com/en/Terms-and-Conditions,aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: <u>Deteck the authenticity of testing finspection report & certificate, please contact us at telephone</u>: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pitot 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 contact us at telephone: (86-755) 8307 1443, t (86-512) 62992980 www.sgsgroup.com.cn

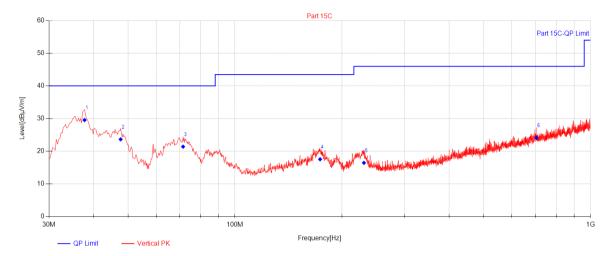
t (86-512) 62992980

Member of the SGS Group (SGS SA)

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 52 of 62



#### Worst case Mode: BLE\_Channel 39

Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	37.76	52.15	-22.60	29.55	40.00	10.45	189	198	Vertical			
2	47.7025	46.23	-22.58	23.65	40.00	16.35	126	208	Vertical			
3	71.4675	47.19	-25.79	21.40	40.00	18.60	230	186	Vertical			
4	173.56	38.22	-20.67	17.55	43.50	25.95	170	218	Vertical			
5	230.5475	40.16	-23.71	16.45	46.00	29.55	228	115	Vertical			
6	704.635	36.19	-12.07	24.12	46.00	21.88	294	134	Vertical			



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 <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: <u>O check the authenticity of testing finspection report & certificate, please contact us at telephone</u>: (86-75) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pitot 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

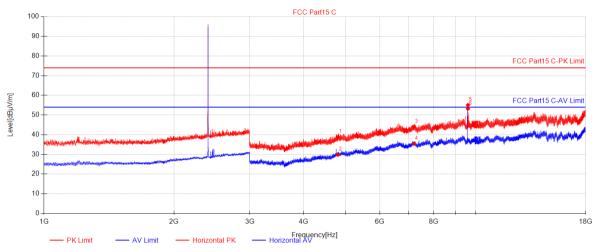
 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 53 of 62

#### Transmitter emission above 1GHz

#### BLE\_Channel 00



Data	List								
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	52.06	-13.21	38.85	74.00	35.15	296	151	Horizontal
2	4804	43.05	-13.21	29.84	54.00	24.16	265	3	Horizontal
3	7206	50.91	-6.84	44.07	74.00	29.93	250	178	Horizontal
4	7206	42.26	-6.84	35.42	54.00	18.58	222	178	Horizontal
5	9608	56.29	-1.22	55.07	74.00	18.93	144	27	Horizontal
6	9608.5	54.41	-1.22	53.19	54.00	0.81	315	4	Horizontal



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 <u>http://www.sgs.com/en/Terms-and-Conditions,aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: <u>Deteck the authenticity of testing finspection report & certificate, please contact us at telephone</u>: (86-755) 8307 1443,

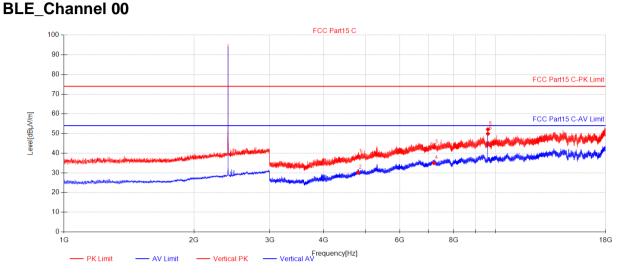
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pitot Free Trade Zone 215000 中国 • 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000 contact us at telephone: (86-755) 8307 1443, t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 54 of 62



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4804	51.39	-13.21	38.18	74.00	35.82	165	302	Vertical			
2	4804	43.36	-13.21	30.15	54.00	23.85	336	79	Vertical			
3	7206	49.69	-6.84	42.85	74.00	31.15	236	28	Vertical			
4	7206	41.79	-6.84	34.95	54.00	19.05	1889	155	Vertical			
5	9608	53.33	-1.22	52.11	74.00	21.89	254	54	Vertical			
6	9608.5	51.10	-1.22	49.88	54.00	4.12	277	54	Vertical			



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 <u>http://www.sgs.com/en/Terms-and-Conditions,aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereion 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: <u>Ornex the authenticity of testing finspection report & certificate, please contact us at telephone</u>: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Plot 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 contact us at telephone: (86-755) 8307 1443, t (86-512) 62992980 www.sasaroup.com.cn

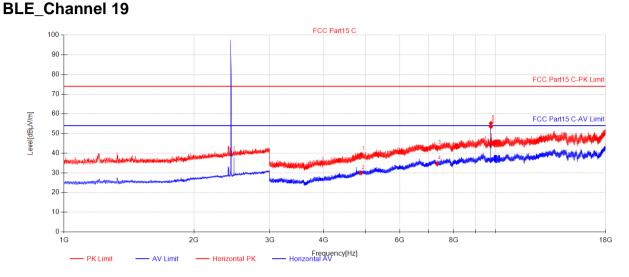
t (86-512) 62992980

Member of the SGS Group (SGS SA)

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 55 of 62



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4880	52.43	-12.99	39.44	74.00	34.56	229	309	Horizontal			
2	4880	42.89	-12.99	29.90	54.00	24.10	321	156	Horizontal			
3	7320	49.91	-7.15	42.76	54.00	11.24	265	309	Horizontal			
4	7320	41.85	-7.15	34.70	54.00	19.30	254	30	Horizontal			
5	9760	56.38	-1.20	55.18	74.00	18.82	125	1	Horizontal			
6	9760.5	54.63	-1.20	53.43	54.00	0.57	118	9	Horizontal			



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 <u>http://www.sgs.com/en/Terms-and-Conditions,aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: <u>Deteck the authenticity of testing finspection report & certificate, please contact us at telephone</u>: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Plot 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 contact us at telephone: (86-755) 8307 1443, t (86-512) 62992980 www.sgsgroup.com.cn

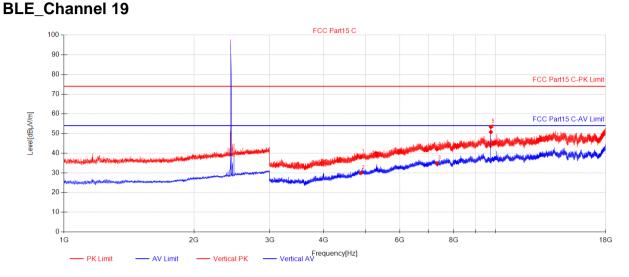
t (86-512) 62992980

Member of the SGS Group (SGS SA)

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 56 of 62



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4880	50.92	-12.99	37.93	74.00	36.07	254	357	Vertical				
2	4880	42.87	-12.99	29.88	54.00	24.12	265	156	Vertical				
3	7320	42.02	-7.15	34.87	54.00	19.13	112	231	Vertical				
4	7320	49.08	-7.15	41.93	74.00	32.07	288	1	Vertical				
5	9760	54.53	-1.20	53.33	74.00	20.67	165	30	Vertical				
6	9760.5	51.95	-1.20	50.75	54.00	3.25	236	30	Vertical				



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 <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: <u>O check the authenticity of testing finspection report & certificate, please contact us at telephone</u>: (86-75) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Plot 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

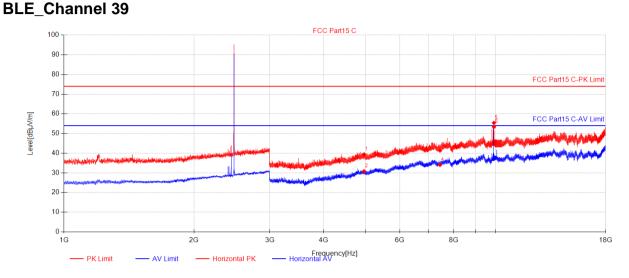
t (86-512) 62992980

Member of the SGS Group (SGS SA)

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 57 of 62



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960	52.20	-12.83	39.37	74.00	34.63	265	352	Horizontal			
2	4960	43.62	-12.83	30.79	54.00	23.21	112	360	Horizontal			
3	7440	48.18	-6.83	41.35	74.00	32.65	231	129	Horizontal			
4	7440	40.88	-6.83	34.05	54.00	19.95	320	53	Horizontal			
5	9920	56.32	-0.93	55.39	74.00	18.61	264	28	Horizontal			
6	9920.5	54.29	-0.93	53.36	54.00	0.64	110	3	Horizontal			



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 <u>http://www.sgs.com/en/Terms-and-Conditions,aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: <u>Deteck the authenticity of testing finspection report & certificate, please contact us at telephone</u>: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Plot 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 contact us at telephone: (86-755) 8307 1443, t (86-512) 62992980 www.sgsgroup.com.cn

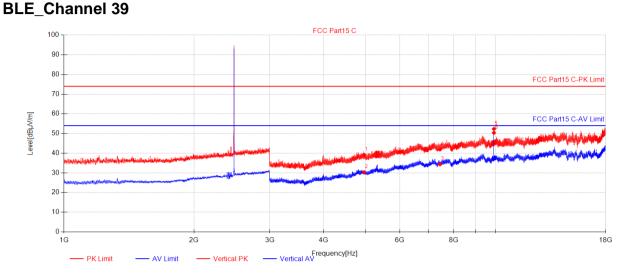
t (86-512) 62992980

Member of the SGS Group (SGS SA)

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 58 of 62



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960	51.91	-12.83	39.08	74.00	34.92	265	127	Vertical			
2	4960	43.06	-12.83	30.23	54.00	23.77	249	4	Vertical			
3	7440	41.19	-6.83	34.36	54.00	19.64	301	79	Vertical			
4	7440	48.74	-6.83	41.91	74.00	32.09	230	155	Vertical			
5	9920	53.25	-0.93	52.32	74.00	21.68	185	29	Vertical			
6	9920.5	51.28	-0.93	50.35	54.00	3.65	222	29	Vertical			



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 <u>http://www.sgs.com/en/Terms-and-Conditions,aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereion 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: <u>Ornex the authenticity of testing finspection report & certificate, please contact us at telephone</u>: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Plot 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 contact us at telephone: (86-755) 8307 1443, t (86-512) 62992980 www.sasaroup.com.cn

t (86-512) 62992980

Member of the SGS Group (SGS SA)

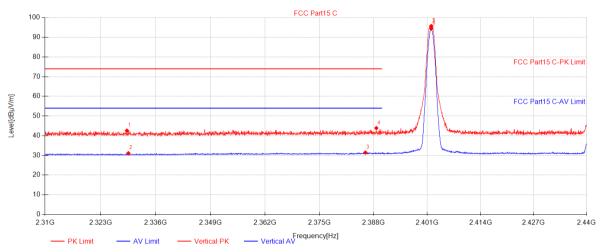
 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 59 of 62

#### Restricted bands around fundamental frequency

#### BLE\_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2329.1967	39.50	3.09	42.59	74.00	31.41	305	220	Vertical	
2	2329.5433	27.98	3.09	31.07	54.00	22.93	305	220	Vertical	
3	2386.05	28.36	3.07	31.43	54.00	22.57	305	220	Vertical	
4	2388.6933	40.80	3.07	43.87	74.00	30.13	305	220	Vertical	
5	2402	92.65	3.08	95.73	-	-	305	220	Vertical	
6	2402	91.39	3.08	94.47	-	-	305	220	Vertical	



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 <u>http://www.sgs.com/en/Terms-and-Conditions,aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: <u>Deteck the authenticity of testing finspection report & certificate, please contact us at telephone</u>: (86-755) 8307 1443,

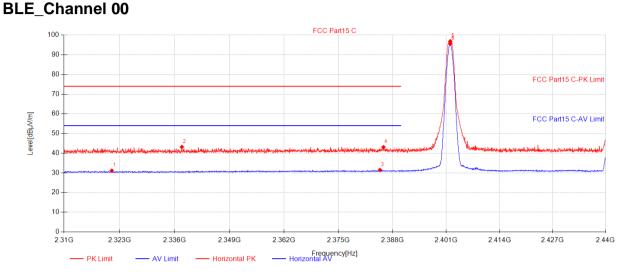
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Plot Free Trade Zone 215000 中国 • 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000 contact us at telephone: (86-755) 8307 1443, t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 60 of 62



Data List										
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2321.18	28.04	3.09	31.13	54.00	22.87	125	307	Horizontal	
2	2337.69	40.08	3.09	43.17	74.00	30.83	125	307	Horizontal	
3	2384.9667	28.41	3.07	31.48	54.00	22.52	125	307	Horizontal	
4	2385.8333	40.02	3.07	43.09	74.00	30.91	125	307	Horizontal	
5	2402	93.79	3.08	96.87	-	-	125	307	Horizontal	
6	2402	92.51	3.08	95.59	-	-	125	307	Horizontal	



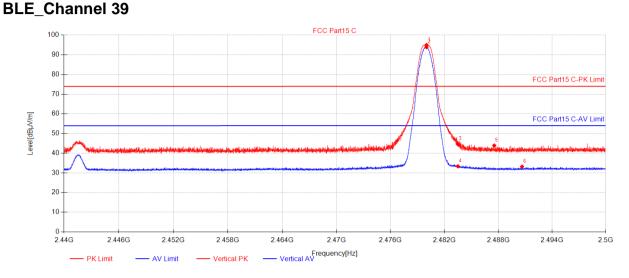
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions,aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereion 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: <u>Ornex the authenticity of testing finspection report & certificate, please contact us at telephone</u>: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Plot 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 contact us at telephone: (86-755) 8307 1443, t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980

Member of the SGS Group (SGS SA)

Report No.:	SUZR/2021/9002603					
Rev.:	01					
Page:	61 of 62					



Data List										
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2480	91.39	3.57	94.96	-	-	318	274	Vertical	
2	2480	90.32	3.57	93.89	-	-	318	274	Vertical	
3	2483.5	40.96	3.60	44.56	74.00	29.44	318	274	Vertical	
4	2483.5	29.74	3.60	33.34	54.00	20.66	318	274	Vertical	
5	2487.55	40.27	3.62	43.89	74.00	30.11	318	274	Vertical	
6	2490.655	29.53	3.64	33.17	54.00	20.83	318	274	Vertical	



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 <u>http://www.sgs.com/en/Terms-and-Conditions,aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereion 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: <u>Ornex the authenticity of testing finspection report & certificate, please contact us at telephone</u>: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Read, Stuchou Industrial Park, Stuchou Area, China (Jiangsu) Pilot Free Trade Zone 2150000 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湖胜路1号约6号厂房南部 邮编: 215000 contact us at telephone: (86-755) 8307 1443, t (86-512) 62992980 www.sgsgroup.com.cn

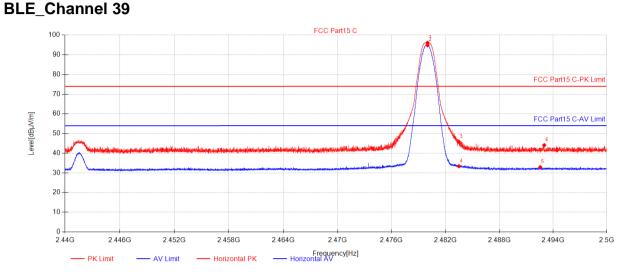
t (86-512) 62992980

Member of the SGS Group (SGS SA)

 Report No.:
 SUZR/2021/9002603

 Rev.:
 01

 Page:
 62 of 62



Data List										
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2480	92.51	3.57	96.08	-	-	118	305	Horizontal	
2	2480	91.31	3.57	94.88	-	-	118	305	Horizontal	
3	2483.5	42.13	3.60	45.73	74.00	28.27	118	305	Horizontal	
4	2483.5	29.77	3.60	33.37	54.00	20.63	118	305	Horizontal	
5	2492.575	29.23	3.65	32.88	54.00	21.12	118	305	Horizontal	
6	2493.025	40.42	3.66	44.08	74.00	29.92	118	305	Horizontal	

The 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 <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction 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 unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: <u>D otherk the authenticity of testing inspection report & certificate, please contact us at telephone</u>: (86-75) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pitot 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测胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980