Report No.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 1 of 59

TEST REPORT

Application No.:	SEWA2210000060RG
Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China
EUT Description:	Smart Module
Model No.:	SC262R-NA
Trade Mark:	QUECTEL
FCC ID:	XMR2022SC262RNA
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C
Date of Receipt:	2022/10/16
Date of Test:	2022/10/23 to 2022/11/18
Date of Issue:	2022/11/21
Test Result :	PASS *

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 agreed and for electronic format documents, as this (*News sgs.com/en/Terms-and-Conditions agreed agreed between Service Printed Conditions agreed agreed between Service Printed Comments at http://www.sgs.com/en/Terms-and-Conditions/Emrs-And-Conditions/Emrs-and-Conditions/Emrs-And-Conditions/Emrs-and-Conditione/Emrs-And-Conditions/Emrs-and-Conditione/Emrs-And-Conditions/Emrs-And-Emrs-and-Conditione/Emrs-And-Emrs-A*

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 単编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

 Report No.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 2 of 59

1 Version

Revision Record				
Version Chapter Date Modifier Remark				
01		2022/11/21		Original

Prepared By	(Ives Cheng) / Test 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.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to end the content or results shown in this test report refer only to the sample's lasted and such sample(s) are relained for 30 days only. Attention. To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch.Doccheck@ss.com

South of No. 6 Plant, No. 1, Runsheng Road, Studhou Industrial Park, Suzhou Area, China (Jiangsu) Pliot 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 3 of 59

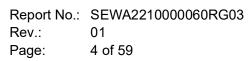
2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	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.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to end the content or results shown in this test report refer only to the sample's lasted and such sample(s) are relained for 30 days only. Attention. To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch.Doccheck@ss.com

South of No. 6 Plant, No. 1, Runsheng Road, Studhou Industrial Park, Suzhou Area, China (Jiangsu) Pliot Free Trade Zone 215000 中国 • 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com



Contents

1	Versio	n	2
2	Test S	ummary	3
3	Gener	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	Equipr	nent List	26
7	Photog	graphs - Setup Photos	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 http://www.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to end the content or results shown in this test report refer only to the sample's lasted and such sample(s) are relained for 30 days only. Attention. To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch.Doccheck@ss.com

South of No. 6 Plant, No. 1, Runsheng Road, Studhou Industrial Park, Suzhou Area, China (Jiangsu) Pliot 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 5 of 59

3 General Information

3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, 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:	Ives Cheng, King-p Li

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 http://www.gsc.com/en/Terms-and-Conditions_agay and, for electronic format documents, subject to Terms and Conditions for Service printed, the terms and Conditions for Service printed for the terms and Conditions for the terms and Conditions for Service printed, the terms and Conditions for Service printed, available on the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is a http://www.gsc.com/en/Enterms-and-Conditions_agay and, for electronic Document aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is 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 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: for check the authenticity of testing /inspection report & certificate (results of table) testing /inspection reports & certificate (results of the stelephone; (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suchou 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国区湖胜路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 sgs.china@sgs.com

 Report No.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 6 of 59

EUT Description: Smart Module Model No.: SC262R-NA QUECTEL Trade Mark: Hardware Version: R1.0 SC262RNANAR60A03 Software Version: 864779060001942 **RF** Conducted 864779060001959 IMEI: 864779060002841 **RSE & AC power line** 864779060002858 2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: **Operation Frequency:** -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39. Bluetooth version: Bluetooth V4.2 GFSK Modulation Type: Number of Channel: 40 Provided by client Rates Type*: 1M PHY **External Antenna** Antenna Type: 0.47dBi(Ant0) Note: Antenna Gain: The antenna gain are derived from the gain information report provided by the manufacturer. RF Cable: 1.0dB Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark:

3.4 General Description of EUT

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gas.com/en/Terms-and-Conditions_agor_and, for electronic format documents, subject to Terms and Conditions for Service printed, the terms and Conditions for Service printed or the terms and Conditions for the terms and Conditions for Service printed, the terms and Conditions for Service printed, available on the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is a http://www.gas.com/en/Enterms-and-Conditions_agor_ador_box.com and the terms and Conditions for the terms and the document is on the terms and the contained herein any holder of this document for the terms and the form exercising all their rights and obligations under the transaction former services and 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 testianed for 30 days only. Attention: Check the authenticity of testing /inspection reports certificate and to as otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are testianed for 30 days only.

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 単编: 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 7 of 59

	Fage. 7 01 59						
	Operation Frequency of each channel						
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 http://www.sgs.com/en/Terms-and-Conditions.agree_adressible at the signal their rights and obligations under the transaction documents. This document to be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of his document is unleavill and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)83071443, or email: Ch.Doccheck@ss.com

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

 Report No.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 8 of 59

3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests			
Relative Humidity	44-46 % RH Ambient			
Value	Temperature(°C) Voltage(V)			
NTNV	22~23 3.80			
Remark:	Remark:			
NV: Normal Voltage				
NT: Normal Temperature				

3.6 Description of Support Units

Description	Manufacturer	Model No.		
Mother board	QUECTEL	N/A		
Remark: all above the information of table are provided by client.				



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.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms--Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to encound be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or resultation in this test report rate only to the sample(s) tested and such sample(s) are retained for 30 days only. Are mail: CD hoscheck/dwss.com

South of No. 6 Plant, No. 1, Runsheng Road, Studhou Industrial Park, Suzhou Area, China (Jiangsu) Plick 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 9 of 59

4 Test results and Measurement Data

4.1 Antenna Requirement

 Standard requirement:
 47 CFR Part 15C Section 15.203 /247(b)

 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

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 External Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.47dBi(Ant0).*

*Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.gsc.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, at <u>http://www.gsc.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents at <u>http://www.gsc.com/en/Terms-and-Conditions.aspx</u> and, for electronic Documents at <u>http://www.gsc.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents at <u>http://www.gsc.com/en/Terms-and-Conditions.aspx</u> and, for electronic Documents at <u>http://www.gsc.com/en/Terms-and-Conditions.aspx</u> and therein Any holder of this document aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is clients instructions, if any. The Company's sole responsibility is to its Client and this document com to exorerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to produced appearance of this document is unlawful and offenders may be prosecuted to the fullest externed to 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, or email: CM_Doccheck@gs.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洞脏路1号的6号厂房南部 単編: 215000

 Report No.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 10 of 59

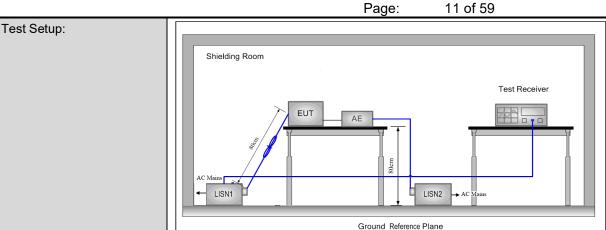
4.2 AC Power Line Conducted Emissions

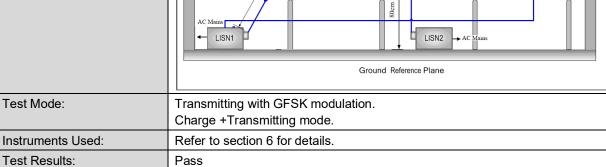
SC

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Limit (dBuV)		
	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:	 room. 2) The EUT was connect Impedance Stabilizat impedance. The pow connected to a secor plane in the same wa multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plan placed on the horizor 4) The test was performed the EUT shall be 0.4 vertical ground reference reference plane. The unit under test and be mounted on top of the the closest points of t and associated equip 5) In order to find the main and all of the interface 	sturbance voltage test was construction AC power source throution Network) which provides er cables of all other units of ad LISN 2, which was bonded by as the LISN 1 for the unit be strip was used to connect mether rating of the LISN was not a placed upon a non-metallic ne. And for floor-standing arrest al ground reference plane. The from the vertical ground reference plane was bonded to the LISN 1 was placed 0.8 m from the vertical ground reference plane. The LISN 1 and the EUT. All coment was at least 0.8 m from the units of the LISN 1 and the EUT. All coment was at least 0.8 m from the units of the LISN 1 and the EUT. All coment was at least 0.8 m from the units on, the relativest of the conducted measurement.	ugh a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear the EUT were to the ground reference being measured. A ultiple power cables to a ot exceeded. table 0.8m above the angement, the EUT was rence plane. The rear of efference plane. The e horizontal ground om the boundary of the plane for LISNs is distance was between other units of the EUT in the LISN 2. e positions of equipment



Report No.: SEWA2210000060RG03 Rev.: 01







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.asp, and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.asp, 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 Clients' instructions, if any. The Company's sole responsibility is to its Client and this document. This document cannot be reproduced except in full, without prior written approval of the Company. Any nuauthorized 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 reformation (sole state) to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing linspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CM.Ooccheck@gs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pliot 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消胜路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.:
 SEWA2210000060RG03

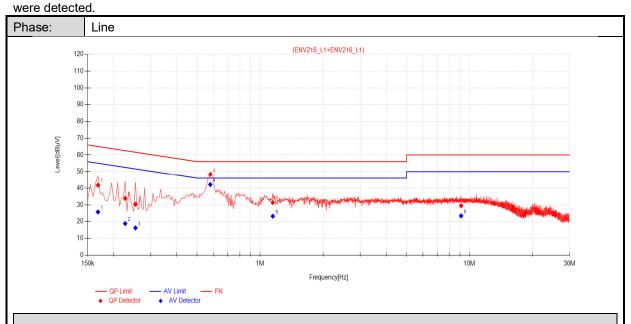
 Rev.:
 01

 Page:
 12 of 59

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



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1680	10.71	31.03	41.74	65.06	23.32	15.03	25.74	55.06	29.32	PASS
2	0.2265	10.81	23.02	33.83	62.58	28.75	8.02	18.83	52.58	33.75	PASS
3	0.2535	10.79	19.58	30.37	61.64	31.27	5.48	16.27	51.64	35.37	PASS
4	0.5775	10.52	37.69	48.21	56.00	7.79	31.56	42.08	46.00	3.92	PASS
5	1.1490	10.70	20.70	31.40	56.00	24.60	12.51	23.21	46.00	22.79	PASS
6	9.1140	10.65	18.84	29.49	60.00	30.51	12.79	23.44	50.00	26.56	PASS
Rema	rk:						_				

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

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[$dB\mu V$] – Value[$dB\mu V$]



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.sapx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-end-Conditions

South of No. 6 Plant, No. 1, Runsheng Read, Stazhou Industrial Park, Stazhou Area, China (Jiangsu) Pliot 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脏路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 Rev.: Page:	01		000006	0RG03
hase:	Neut	tral									
	120 J.				(ENV21	6_N+ENV216_N)					
	110										
	100-										
	90-										
	80-										
Ę	70										
Level[dBµV]	60										-
Lev	50										-
	40-	411.	. A ²						Allekander		
	30	MAM	Munduron	~ Phillipping	Manuthan	10- word Minister	ter big all der ter big		and the second second second	-	
	20			• ³	. 4	J 10					
		•			•						
	10-	•			•						
	10 0 150k	•			• Fre	auencv(Hz)		10	M	3	ц ОМ
Final Data	0 150k QF		AV Limit — P AV Detector		Fre	equency[Hz]		10	M	3	
NO Fro	0 150k QF				• QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	
NO. Fr	ta List requency [MHz] 0.2130	Factor [dB] 10.68	QP Reading [dBµV] 23.94	κ QP Value [dBμV] 34.62	QP Limit	QP Margin	Reading	AV Value	AV Limit	AV Margin	Verdic
NO. Fr	ta List	Potector Factor [dB]	QP Reading [dBµV]	κ QP Value [dBμV]	QP Limit [dBµV]	QP Margin [dB]	Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdic
NO. Fro	ta List requency [MHz] 0.2130	Factor [dB] 10.68	QP Reading [dBµV] 23.94	κ QP Value [dBμV] 34.62	QP Limit [dBµV] 63.09	QP Margin [dB] 28.47	Reading [dBµV] 5.39	AV Value [dBµV] 16.07	AV Limit [dBµV] 53.09	AV Margin [dB] 37.02	Verdic
NO. Fro	equency [MHz] 0.2130 0.5820	Factor [dB] 10.68 10.70	QP Reading [dBµV] 23.94 26.55	к QP Value [dBµV] 34.62 37.25	QP Limit [dBµV] 63.09 56.00	QP Margin [dB] 28.47 18.75	Reading [dBµV] 5.39 19.98	ΑV Value [dBμV] 16.07 30.68	AV Limit [dBµV] 53.09 46.00	AV Margin [dB] 37.02 15.32	Verdic PASS PASS
NO. Fro	equency [MHz] 0.2130 0.5820 0.6855	Factor [dB] 10.68 10.70 10.79	QP Reading [dBµV] 23.94 26.55 19.78	 QP Value [dBμV] 34.62 37.25 30.57 	QP Limit [dBµV] 63.09 56.00 56.00	QP Margin [dB] 28.47 18.75 25.43	Reading [dBµV] 5.39 19.98 8.16	AV Value [dBµV] 16.07 30.68 18.95	AV Limit [dBµV] 53.09 46.00 46.00	AV Margin [dB] 37.02 15.32 27.05	Verdic PASS PASS PASS

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dBµV] – Value[dBµV]



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.esg.com/er/Tems-and-Conditions_aspx</u> and, for electronic Torms documents, bubject company and the termination of the termination and jurisdiction issues defined therein. Any holder of this document is an 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 excent performed avappearance of this document is uniaviti and offenders may be produced alteration documents, findings at the terms of the idea content of the company's appearance of this document is uniaviti and offenders may be prosecuted to the fullest extend 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 related of 30 days only. Are mail: Chieft of the site of testing interport of testing interport of a certificate, please contact us at telephone: (86-755) 8307 1443, or email: Chieft of testing interport of testing interport of the certificate.

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湖胜路1号的6号厂房南都 解编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

 Report No.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 14 of 59

4.3 Duty Cycle

The detailed test data see: Appendix



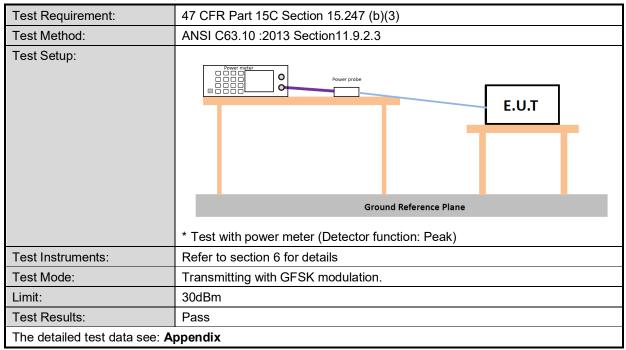
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms--Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to encound be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or resultation in this test report rate only to the sample(s) tested and such sample(s) are retained for 30 days only. Are mail: CD hoscheck/dwss.com

South of No. 6 Plant, No. 1, Runsheng Road, Studhou Industrial Park, Suzhou Area, China (Jiangsu) Plick 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 15 of 59



4.4 Conducted Output Power



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, and the service printed overleaf, available on request or accessible 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 individual information contained herein nervice printed therein for the document is instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlavely and offenders may be prosecuted to the fullest extent of the iservice atted the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Are mail: Chi Decobertiem contains and testing inspection report a certificate, please contact us at telephone: (86-755)83071443, are mail.

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
 (86-755) 8307 1443,

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

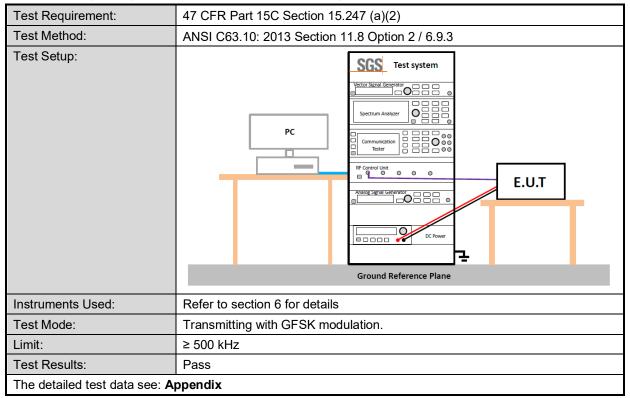
 t
 (86-512) 62992980
 sgs.china@sgs.com

 Report No.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 16 of 59

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





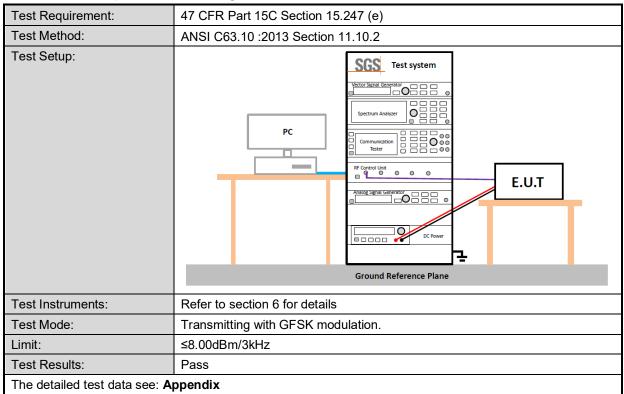
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gsc.com/en/Terms-and-Conditions.gasax and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gsc.com/en/Terms-and-Conditions.gasax 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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to enot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of 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: 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.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

 Report No.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 17 of 59



4.6 Power Spectral Density



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.asays.and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms.and.Conditions.asays.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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document be reporduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Are mail: CM Decoberk@ms.com

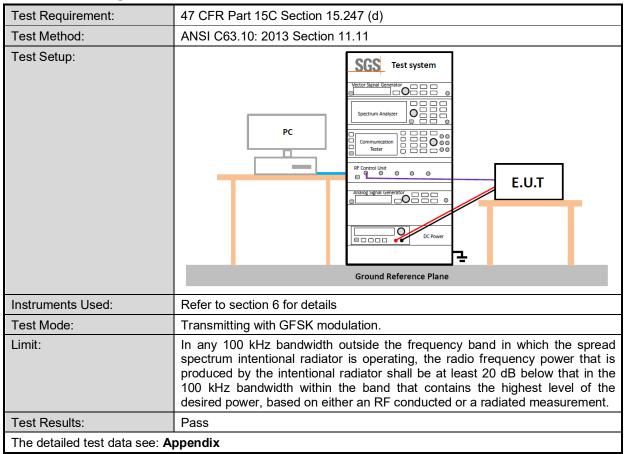
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

 Report No.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 18 of 59

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 http://www.gas.com/en/Terms-and-Conditions.gas.gas.and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gas.com/en/Terms-and-Conditions/Terms-and-Condita

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

 Report No.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 19 of 59

Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
· ·					
Test Method:	ANSI C63.10: 2013 Section 11.11				
Test Setup:	PC FC control Unit FC				
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	ppendix				

4.8 **RF Conducted Spurious Emissions**

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.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to end the content or results shown in this test report refer only to the sample's lasted and such sample(s) are relained for 30 days only. Attention. To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch.Doccheck@ss.com

South of No. 6 Plant, No. 1, Runsheng Road, Studhou Industrial Park, Suzhou Area, China (Jiangsu) Pliot 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
 sgs.china@sgs.com

 Report No.:
 SEWA2210000060RG03

 Rev.:
 01

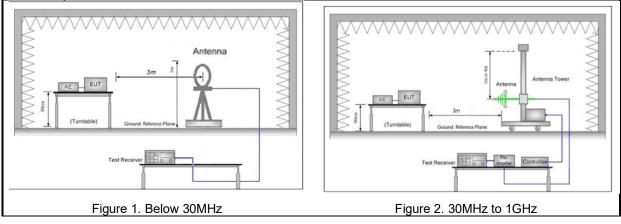
 Page:
 20 of 59

4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10 :2013 Section 11.12						
Test Site:	Measurement Distance:	3m (Semi-Anecho	ic Chamber)				
Test Frequency:	9kHz ~ 25GHz						
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	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),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak						
	emission level radiated l		•				

Test Setup:

S





	Report No.: SEWA221000060RG03 Rev.: 01
	Page: 21 of 59
	Antenna Tower an Im or 3m Im or 3m
	Figure 3. Above 1 GHz
Test Procedure:	a. For below 1GHz, 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.
	b. For above 1GHz, 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
	 (Distance from antenna to EUT is 1m for measurements >18GHz). 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.
	 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. Test the EUT in the lowest channel, the middle channel ,the Highest channel. h. 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.
	 Repeat above procedures until all frequencies measured was complete. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
	 k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
	 At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz
	Detector = PeakTrace mode = max hold



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.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Termsadd/set 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, any the document is at transaction from exercising all their rights and obligations under the transaction documents. This document be reproduced except in full, without prior written approval of the Company's Nu nauthorized alteration, forgery or faisilitation of the content or results shown in this test report refer only to the sample's less dand such sample's) are relained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch.Doccheck@ss.com

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限区消胜路1号的6号厂方南部 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.: Rev.: Page:	SEWA2210000060RG03 01 22 of 59
	 Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MH RBW = 1 MHz VBW ≥ [3 *RBW] Detector = RMS (power averaging), if satisfying this condition may require increducing the span. If this condition cannot be set to peak. Sweep time = auto Perform a trace average of at least 1000 	span / (# of poi easing the nur ot be satisfied,	nber of points in the sweep or
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.		
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmittin For below 1GHz part, through pre-scan the worst case is recorded in the report.	•	se is the lowest channel. Only
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.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to end the content or results shown in this test report refer only to the sample's lasted and such sample(s) are relained for 30 days only. Attention. To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch.Doccheck@ss.com

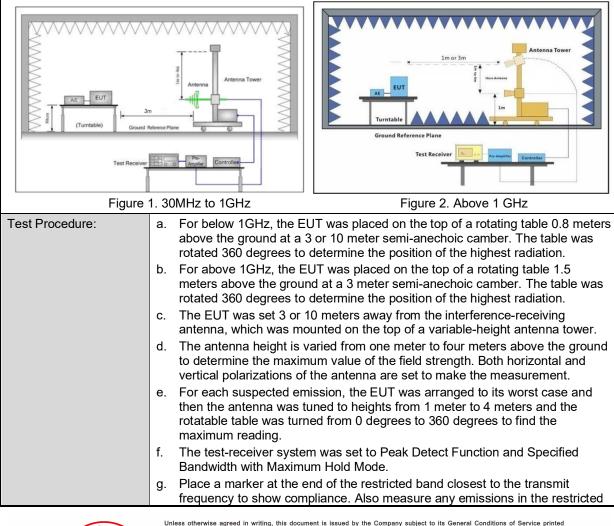
South of No. 6 Plant, No. 1, Runsheng Road, Studiou Industrial Park, Studhou Area, China (Jiangsu) Pliot Free Trade Zone 215000 中国 • 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

Report No.: SEWA2210000060RG03 Rev.: 01 23 of 59 Page:

4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10: 2013 Section	11.12				
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Cham	ber)			
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			
	Above 1GHz	54.0	Average Value			
	ADOVE IGHZ	74.0	Peak Value			

Test Setup:





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, attention is drawn to the limitation of liability. Indocumentation is fragment to the limitation of liability indocuments, 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, document does not exonerate parties to a spearance of this document is unlawing all their rights and obligations under the transaction forgery or faisification of the content or appearance of this document is unlawing and offenders may be proscuted to the ullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such asmple(s) are related for 30 days only. Attention: coheck the authenticity of testing /inspection report & certificate on either site of the stelense (26.755)83071443. e: (86-755) 8307 1443, 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

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

	Report No.: SEWA2210000060RG03 Rev.: 01 Page: 24 of 59
	 bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel 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. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	 Measurements Below 1000MHz 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 Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW ≥ [3 *RBW] 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. Sweep time = auto Perform a trace average of at least 100 traces.
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
motramonto ocoa.	



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.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Termsadd/set 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, any the document is at transaction from exercising all their rights and obligations under the transaction documents. This document be reproduced except in full, without prior written approval of the Company's Nu nauthorized alteration, forgery or faisilitation of the content or results shown in this test report refer only to the sample's less dand such sample's) are relained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch.Doccheck@ss.com

South of No. 6 Plant, No. 1, Runsheng Road, Studhou Industrial Park, Suzhou Area, China (Jiangsu) Pliot 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 25 of 59

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	±1.0 %		
5	Duty Cycle	±0.37%		
6	Occupied Bandwidth	±1.0 %		
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)		
		± 3.13dB (9k -30MHz)		
0	Dedicted Emission	± 4.80dB (30M -1GHz)		
8	Radiated Emission	± 4.80dB (1GHz to 18GHz)		
		± 4.80dB (Above 18GHz)		

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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.agree_adressible at the signal their rights and obligations under the transaction documents. This document to be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of his document is unleavill and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)83071443, or email: Ch.Doccheck@ss.com

South of No. 6 Plant, No. 1, Runsheng Road, Studiou Industrial Park, Studhou 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 26 of 59

6 Equipment List

RF Test Equipment							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15		
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16		
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR		
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27		
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13		
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14		
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03		
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03		
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13		
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14		

CE Test System							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18		
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR		
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14		



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overlear, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions, appx</u> and, for electronic format documents as <u>http://www.sgs.com/en/Terms-and-Conditions</u>. The tectronic format documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u>. The tectronic format document appx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document for Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excente 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 results shown in this test report refer only to the sample() 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: Schown in this safe saces.

South of No. 6 Plant, No. 1, Runsheng Road, Studiou Industrial Park, Studhou Area, China (Jiangsu) Pliot 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 27 of 59

			Faye.	27 01 59					
	RSE Test System								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)				
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07				
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15				
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27				
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03				
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18				
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15				
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15				
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13				
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13				
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13				
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18				
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09				
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR				



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.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to end the content or results shown in this test report refer only to the sample's lasted and such sample(s) are relained for 30 days only. Attention. To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch.Doccheck@ss.com

South of No. 6 Plant, No. 1, Runsheng Road, Studhou Industrial Park, Suzhou Area, China (Jiangsu) Pliot 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 28 of 59

7 Photographs - Setup Photos

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.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms--Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to encound be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or resultation in this test report rate only to the sample(s) tested and such sample(s) are retained for 30 days only. Are mail: CD hoscheck/dwss.com

South of No. 6 Plant, No. 1, Runsheng Road, Suchou 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厦区洞胜路1号的6号厂房南部 単编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com



 Report No.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 29 of 59

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.gsc.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gsc.com/en/Terms-and-Conditions.aspx 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 to esconter parties to a transaction from exercising all their rights and obligations under the transaction documents. This document be reproduced except in full, without prior written approval of the Company's full cut actors and substant to comments. This document be reproduced except in full, without prior written approval of the Company's Any unauthorized alteration, forgery or faisification of the content or results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 3 days only. Attention. To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CM-Doccheck@gs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suchou 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国区消胜路1号的6号厂店南部 戦編: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com



 Report No.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 30 of 59

DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant0	2402	0.69	2401.66	2402.35	≥0.5	PASS
		2440	0.69	2439.66	2440.35	≥0.5	PASS
		2480	0.69	2479.66	2480.35	≥0.5	PASS



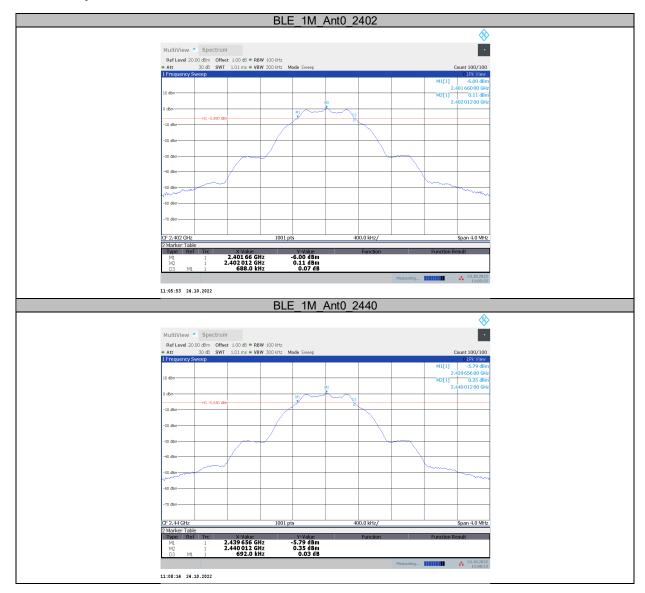
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to end the content or results shown in this test report refer only to the sample's lasted and such sample(s) are relained for 30 days only. Attention. To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch.Doccheck@ss.com

South of No. 6 Plant, No. 1, Runsheng Road, Studhou Industrial Park, Suzhou Area, China (Jiangsu) Plick 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 31 of 59



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.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-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 to exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to econtext or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the at Unless otherwise stated the resultation in the test report refer only to the sample(s) tested and such sample(s) are read for 30 days only. Are mail: CD hoscherk/mss.com (16 section report as contact us at telephone; (86-755)83071443, Are mail: CD hoscherk/mss.com

South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suchou 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 33 of 59

Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict	
BLE_1M	Ant0	2402	1.056	2401.487	2402.542	Departing	
		2440	1.056	2439.485	2440.541	Reporting only	
		2480	1.056	2479.485	2480.542		



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.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to end the content or results shown in this test report refer only to the sample's lasted and such sample(s) are relained for 30 days only. Attention. To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch.Doccheck@ss.com

South of No. 6 Plant, No. 1, Runsheng Road, Studhou Industrial Park, Suzhou Area, China (Jiangsu) Plick 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 34 of 59











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.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-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 to exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to econtext or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the at Unless otherwise stated the resultation in the test report refer only to the sample(s) tested and such sample(s) are read for 30 days only. Are mail: CD hoscherk/mss.com (16 section report as contact us at telephone; (86-755)83071443, Are mail: CD hoscherk/mss.com

South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suchou 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 36 of 59

Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant0	2402	0.69	≤30	PASS
		2440	0.35	≤30	PASS
		2480	0.64	≤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.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to end the content or results shown in this test report refer only to the sample's lasted and such sample(s) are relained for 30 days only. Attention. To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch.Doccheck@ss.com

South of No. 6 Plant, No. 1, Runsheng Road, Studhou Industrial Park, Suzhou Area, China (Jiangsu) Plick 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 37 of 59

Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
		2402	-15.03	≤8.00	PASS
BLE_1M	Ant0	2440	-14.75	≤8.00	PASS
		2480	-15.02	≤8.00	PASS



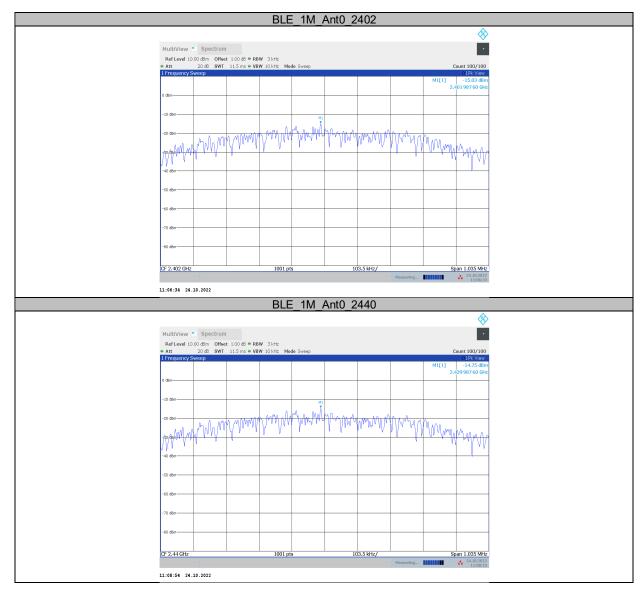
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-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 to exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to econtext or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the at Unless otherwise stated the resultation in the test report refer only to the sample(s) tested and such sample(s) are read for 30 days only. Are mail: CD hoscherk/mss.com (16 section report as contact us at telephone; (86-755)83071443, Are mail: CD hoscherk/mss.com

South of No. 6 Plant, No. 1, Runsheng Road, Studhou Industrial Park, Suzhou Area, China (Jiangsu) Plick 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.:
 SEWA2210000060RG03

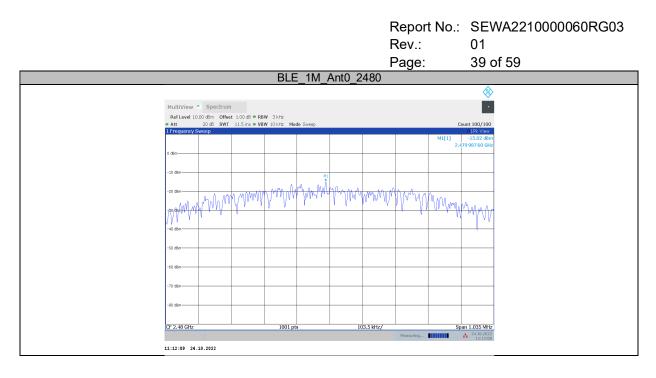
 Rev.:
 01

 Page:
 38 of 59











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.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-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 to exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to econtext or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the at Unless otherwise stated the resultation in the test report refer only to the sample(s) tested and such sample(s) are read for 30 days only. Are mail: CD hoscherk/mss.com (16 section report as contact us at telephone; (86-755)83071443, Are mail: CD hoscherk/mss.com

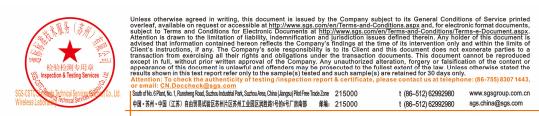
South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suchou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国 • 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

Report No.: SEWA2210000060RG03 Rev.: 01 Page: 40 of 59

Band edge measurements





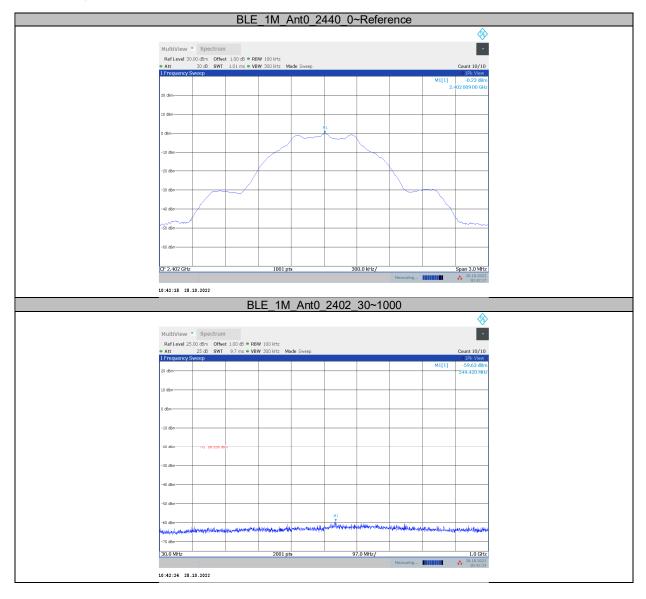


 Report No.:
 SEWA2210000060RG03

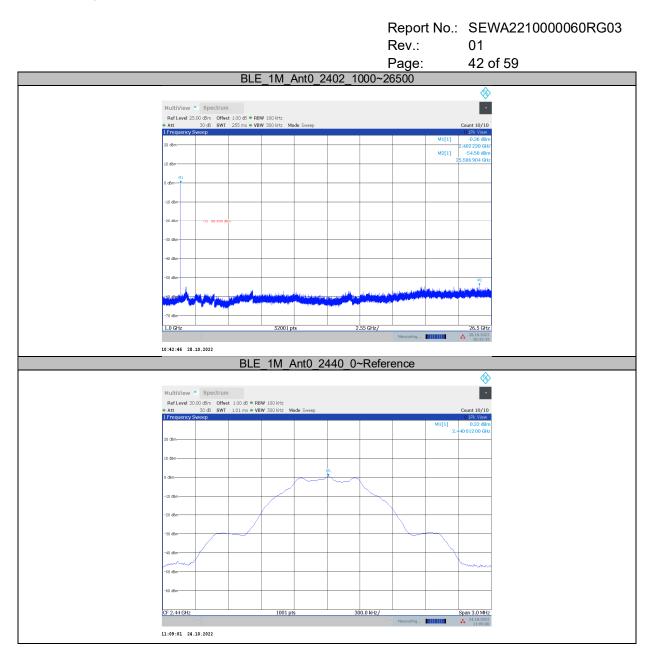
 Rev.:
 01

 Page:
 41 of 59

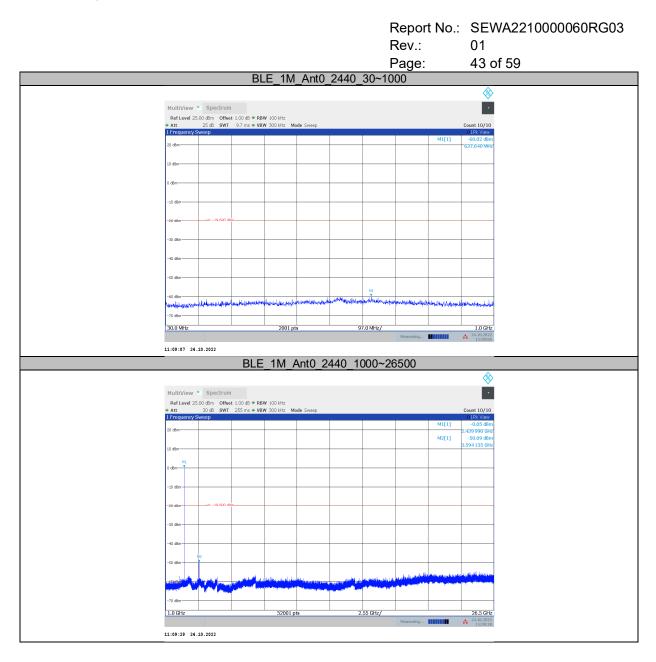
Conducted Spurious Emission Test Graphs



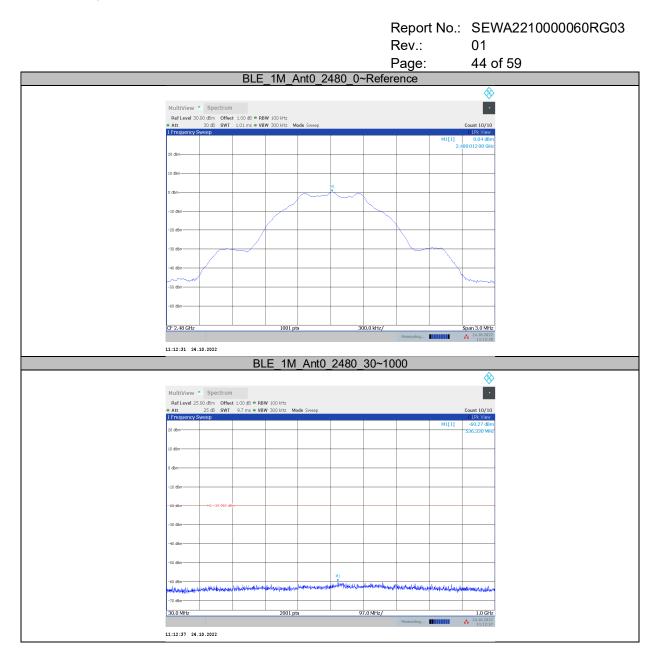








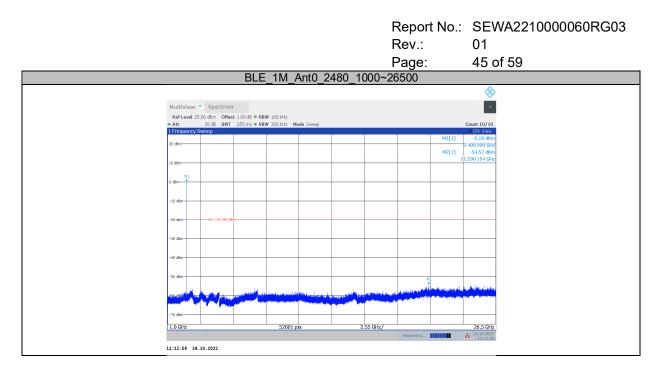






Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-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 to exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to econtext or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the at Unless otherwise stated the resultation in the test report refer only to the sample(s) tested and such sample(s) are read for 30 days only. Are mail: CD hoscherk/mss.com (16 section report as contact us at telephone; (86-755)83071443, Are mail: CD hoscherk/mss.com

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





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.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-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 to exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to econtext or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the at Unless otherwise stated the resultation in the test report refer only to the sample(s) tested and such sample(s) are read for 30 days only. Are mail: CD hoscherk/mss.com (16 section report as contact us at telephone; (86-755)83071443, Are mail: CD hoscherk/mss.com

South of No. 6 Plant, No. 1, Runsheng Road, Studhou Industrial Park, Suzhou Area, China (Jiangsu) Pliot 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 46 of 59

Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant0	2402	0.39	0.63	61.90	2.08



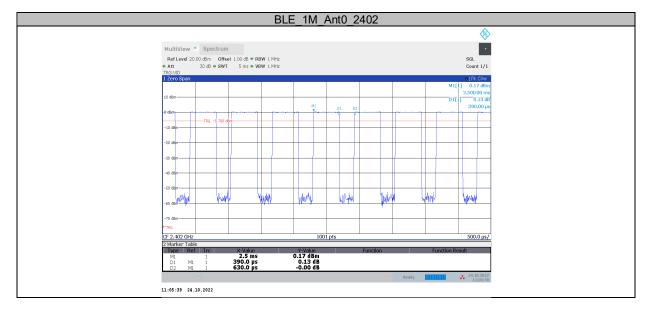
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to end the content or results shown in this test report refer only to the sample's lasted and such sample(s) are relained for 30 days only. Attention. To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: Ch.Doccheck@ss.com

South of No. 6 Plant, No. 1, Runsheng Road, Studhou Industrial Park, Suzhou Area, China (Jiangsu) Plick 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 47 of 59





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.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-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 to exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to econtext or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the at Unless otherwise stated the resultation in the test report refer only to the sample(s) tested and such sample(s) are read for 30 days only. Are mail: CD hoscherk/mss.com (16 section report as contact us at telephone; (86-755)83071443, Are mail: CD hoscherk/mss.com

South of No. 6 Plant, No. 1, Runsheng Road, Studhou Industrial Park, Suzhou Area, China (Jiangsu) Pliot Free Trade Zone 215000 中国 • 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Test Graphs

 Report No.:
 SEWA2210000060RG03

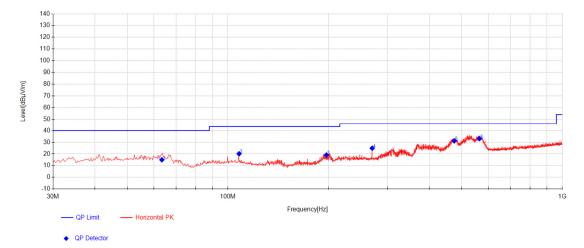
 Rev.:
 01

 Page:
 48 of 59

Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: BLE 1M _ Channel 39



Fina	I Data List					Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity							
1	63.4420	32.25	-27.67	10.40	14.98	40.00	25.02	115	4	Horizontal							
2	107.9767	36.84	-27.41	10.72	20.15	43.50	23.35	110	125	Horizontal							
3	196.9942	35.77	-27.05	10.36	19.08	43.50	24.42	179	74	Horizontal							
4	270.0160	38.96	-26.40	12.30	24.86	46.00	21.14	201	331	Horizontal							
5	474.9875	39.68	-24.90	16.40	31.18	46.00	14.82	142	39	Horizontal							
6	564.7125	39.75	-24.69	18.05	33.11	46.00	12.89	263	203	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 http://www.gs.com/en/Iterms-and-Conditions_agor.ad, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Iterms-and-Conditions_agor.ad, 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 be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or results shown in this test report refer only to the sample(s) tested and such sample(s) are tealaned for 30 dags 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) 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
 contact us at telephone: (86-75) 830/1443,

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

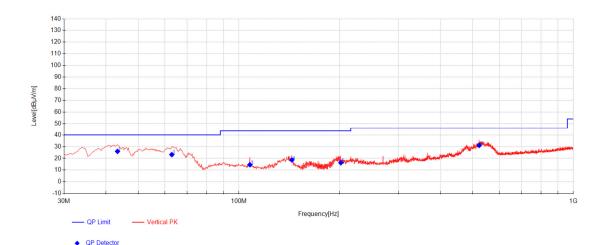
 t (86-512) 62992980
 sgs.china@sgs.com



 Report No.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 49 of 59



Fina	al Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.3375	41.25	-28.06	12.77	25.96	40.00	14.04	102	355	Vertical
2	62.98	40.25	-27.66	10.60	23.18	40.00	16.82	152	76	Vertical
3	107.8425	31.26	-27.41	10.72	14.57	43.50	28.93	263	213	Vertical
4	143.975	38.62	-27.29	7.34	18.67	43.50	24.83	265	266	Vertical
5	201.69	32.52	-26.94	10.67	16.25	43.50	27.25	241	91	Vertical
6	523.0025	38.68	-24.98	17.35	31.05	46.00	14.95	185	360	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Value = Reading(dB μ V) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

 $Margin = Limit(dB\mu V/m) - Value(dB\mu V/m)$

2) All channels have been tested, but only the worst case data displayed in this report.



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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Indushial Pank, Suzhou Area, China (Jiangsu) Pliot Free Trade Zone 215000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州/L区苏州工业园区消胜路1号的6号厂房南部 単編: 215000

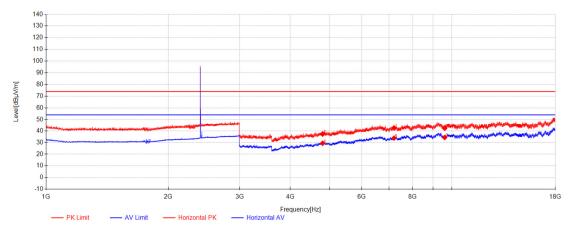
 Report No.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 50 of 59

Transmitter emission Above 1GHz

BLE 1M_Channel 00



• 1	PK Detector	٠	AV	Detector
-----	-------------	---	----	----------

Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4804	49.49	32.13	-44.46	37.16	74.00	36.84	163	133	Horizontal		
2	7206	48.42	36.32	-42.23	42.52	74.00	31.48	296	257	Horizontal		
3	9608	41.70	38.54	-38.05	42.19	74.00	31.81	265	107	Horizontal		
4	4804	41.66	32.13	-44.46	29.33	54.00	24.67	241	358	Horizontal		
5	7206	39.64	36.32	-42.23	33.74	54.00	20.26	142	283	Horizontal		
6	9608	33.78	38.54	-38.05	34.27	54.00	19.73	285	90	Horizontal		



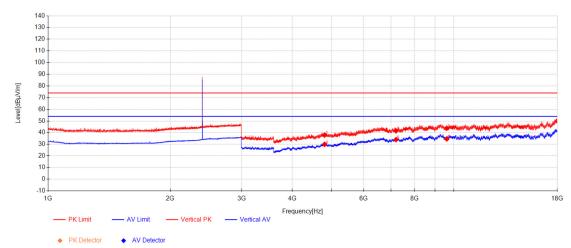
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms--Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to ento 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 resultation in this test report rate only to the sample(s) tested and such sample(s) are retained for 30 days only. Are mail: CD hoscheck@ss.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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 51 of 59



BLE 1M_Channel 00

Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4804	49.95	32.13	-44.46	37.62	74.00	36.38	166	213	Vertical			
2	7206	47.13	36.32	-42.23	41.23	74.00	32.77	285	156	Vertical			
3	9608	42.99	38.54	-38.05	43.48	74.00	30.52	241	305	Vertical			
4	4804	42.07	32.13	-44.46	29.74	54.00	24.26	163	338	Vertical			
5	7206	39.63	36.32	-42.23	33.73	54.00	20.27	265	4	Vertical			
6	9608	33.87	38.54	-38.05	34.36	54.00	19.64	222	25	Vertical			



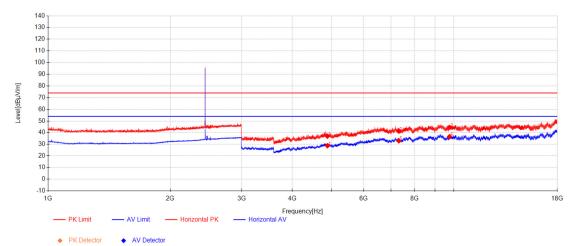
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gsc.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gsc.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-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 be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or 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 to the sample(s) tested and such sample(s) are retained for 30 days only.

South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suchou 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 52 of 59



BLE	1M	Channel 19

Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4880	49.15	32.31	-44.79	36.67	74.00	37.33	296	360	Horizontal		
2	7320	46.39	36.39	-41.80	40.98	74.00	33.02	265	87	Horizontal		
3	9760	43.52	38.52	-37.51	44.54	74.00	29.46	284	25	Horizontal		
4	4880	41.05	32.31	-44.79	28.57	54.00	25.43	142	173	Horizontal		
5	7320	38.20	36.39	-41.80	32.79	54.00	21.21	255	360	Horizontal		
6	9760	35.22	38.52	-37.51	36.24	54.00	17.76	253	358	Horizontal		



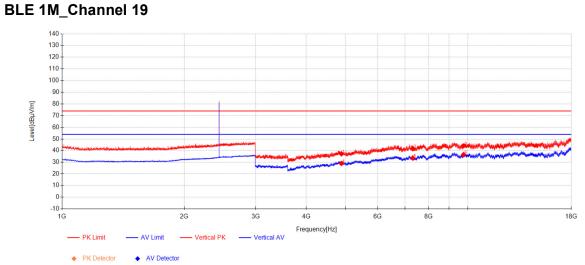
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-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 to exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to econtext or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the at Unless otherwise stated the resultation in the test report refer only to the sample(s) tested and such sample(s) are read for 30 days only. Are mail: CD hoscherk/mss.com (16 section report as contact us at telephone; (86-755)83071443, Are mail: CD hoscherk/mss.com

South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suchou 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 53 of 59



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4880	49.49	32.31	-44.79	37.01	74.00	36.99	196	107	Vertical	
2	7320	46.88	36.39	-41.80	41.47	74.00	32.53	265	127	Vertical	
3	9760	42.86	38.52	-37.51	43.88	74.00	30.12	241	24	Vertical	
4	4880	41.28	32.31	-44.79	28.80	54.00	25.20	122	275	Vertical	
5	7320	38.79	36.39	-41.80	33.38	54.00	20.62	266	107	Vertical	
6	9760	35.24	38.52	-37.51	36.26	54.00	17.74	224	359	Vertical	



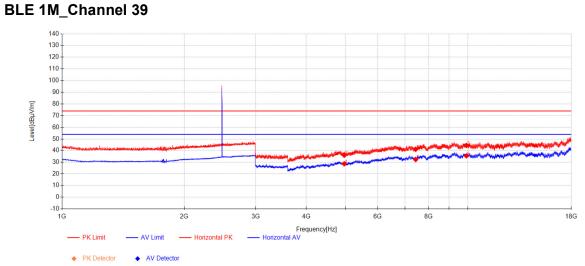
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gsc.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gsc.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-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 be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or 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 to the sample(s) tested and such sample(s) are retained for 30 days only.

South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suchou 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 54 of 59



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4960	48.24	32.50	-44.92	35.83	74.00	38.17	163	360	Horizontal		
2	7440	46.24	36.46	-41.83	40.88	74.00	33.12	265	195	Horizontal		
3	9920	43.20	38.51	-37.22	44.49	74.00	29.51	241	358	Horizontal		
4	4960	40.91	32.50	-44.92	28.50	54.00	25.50	142	240	Horizontal		
5	7440	37.51	36.46	-41.83	32.15	54.00	21.85	201	360	Horizontal		
6	9920	33.99	38.51	-37.22	35.28	54.00	18.72	166	3	Horizontal		



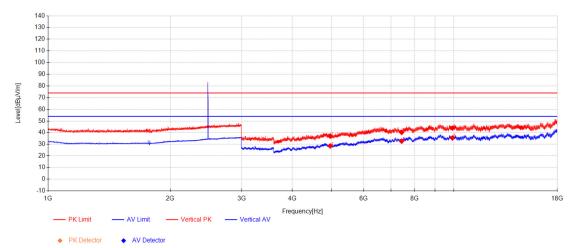
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gsc.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gsc.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-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 be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or 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 to the sample(s) tested and such sample(s) are retained for 30 days only.

South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suchou 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 55 of 59



BLE 1M_Channel 39

Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4960	49.14	32.50	-44.92	36.73	74.00	37.27	196	128	Vertical		
2	7440	45.29	36.46	-41.83	39.93	74.00	34.07	265	359	Vertical		
3	9920	42.33	38.51	-37.22	43.62	74.00	30.38	241	169	Vertical		
4	4960	40.76	32.50	-44.92	28.35	54.00	25.65	102	3	Vertical		
5	7440	37.80	36.46	-41.83	32.44	54.00	21.56	152	234	Vertical		
6	9920	33.84	38.51	-37.22	35.13	54.00	18.87	263	212	Vertical		

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBµV/m) – Level(dBµV/m)

2) All channels have been tested, but only the worst case data displayed in this report.



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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, Chine (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 戦場: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

 Report No.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 56 of 59

Restricted bands around fundamental frequency

BLE 1M Channel 00 140 130 120 110 100 90 80 _evel[dBµV/m] 70-60 **50** · 40 4. 30-20 10-0--10 2.31G 2.323G 2.336G 2.349G 2.362G 2.375G 2.388G 2.401G 2.414G 2.427G 2.44G Frequency[Hz] - PK Limit - AV Limit - Horizontal PK - Horizontal AV PK Detector RMS Detector

Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2367.33	48.34	27.63	-24.47	51.50	74.00	22.50	168	21	Horizontal	
2	2389.235	48.80	27.68	-24.42	52.05	74.00	21.95	168	21	Horizontal	
3	2374.025	36.53	27.65	-24.46	39.72	54.00	14.28	168	21	Horizontal	
4	2388.2275	36.76	27.68	-24.43	40.01	54.00	13.99	168	21	Horizontal	



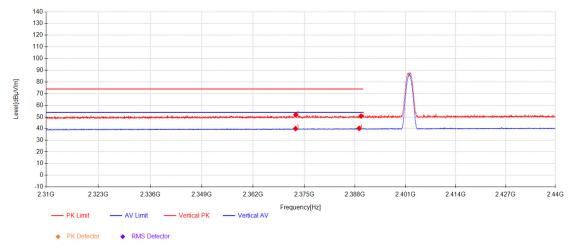
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gsc.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gsc.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-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 be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or 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 to the sample(s) tested and such sample(s) are retained for 30 days only.

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

 Report No.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 57 of 59



Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2372.855	48.85	27.65	-24.46	52.04	74.00	21.96	287	256	Vertical	
2	2389.56	47.58	27.68	-24.42	50.84	74.00	23.16	287	256	Vertical	
3	2372.79	36.55	27.65	-24.46	39.74	54.00	14.26	287	256	Vertical	
4	2389.0725	36.67	27.68	-24.42	39.92	54.00	14.08	287	256	Vertical	



BLE 1M_Channel 00

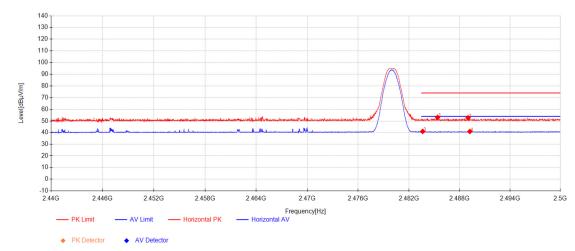
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gsc.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gsc.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-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 be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or 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 to the sample(s) tested and such sample(s) are retained for 30 days only.

South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suchou 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 58 of 59



BLE 1M_Channel 39

Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2485.405	49.27	27.87	-23.95	53.19	74.00	20.81	168	256	Horizontal	
2	2489.02	48.86	27.88	-23.93	52.81	74.00	21.19	168	256	Horizontal	
3	2483.635	36.86	27.87	-23.96	40.77	54.00	13.23	168	256	Horizontal	
4	2489.23	36.76	27.88	-23.93	40.71	54.00	13.29	168	256	Horizontal	



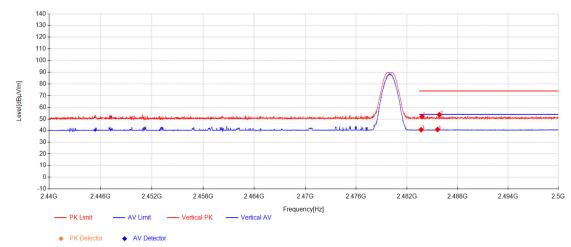
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gsc.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gsc.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-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 be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or 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 to the sample(s) tested and such sample(s) are retained for 30 days only.

South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suchou 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.:
 SEWA2210000060RG03

 Rev.:
 01

 Page:
 59 of 59



BLE 1M_Channel 39

Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2483.8	48.29	27.87	-23.96	52.20	74.00	21.80	326	338	Vertical	
2	2485.855	49.80	27.87	-23.94	53.73	74.00	20.27	326	338	Vertical	
3	2483.695	36.60	27.87	-23.96	40.51	54.00	13.49	326	338	Vertical	
4	2485.63	36.71	27.87	-23.95	40.64	54.00	13.36	326	338	Vertical	

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading(dBµV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)

---End of Report---



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gos.com/en/Terms-and-Conditions.asax and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gos.com/en/Terms-and-Conditions.asax 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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or 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>Check the authenticity of testing /inspection report & certificate</u>, please contact us at telephone: (86-755)83071443,

South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suchou 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