Report No.: SEWM2203000022RG04 Rev.: 01 Page: 1 of 95

## **TEST REPORT**

Test Result :	PASS *
Date of Issue:	2022/6/27
Date of Test:	2022/3/31 to 2022/5/23
Date of Receipt:	2022/3/23
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C
FCC ID:	2A28USL101AE
Trade Mark:	Cricket
Model No.:	SL101AE
EUT Description:	Mobile Phone
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Application No.:	SEWM2203000022RG

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 <u>http://www.sgs.com/en/ferms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/ferms-and-Conditions/Ferms-en-Documentaspx</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unawiful 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: C others the authenticity of testing insortion spectral sate theomenes (66.755) 15307 1443. e: (86-755) 8307 1443.

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

t (86-512) 62992980

sgs.china@sgs.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 2 of 95

## 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/6/27		Original

Prepared By	weller lin
	(Weller Liu) / Test Supervisor
Checked By	well wei
	(Well Wei) / Reviewer



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

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Suchou Anea, 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.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 3 of 95

## 2 Test Summary

SG

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 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013) Section 11.9.2.3	Clause 4.4	PASS
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013) Section 6.9.2/6.9.3	Clause 4.5	Reporting only
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.2	Clause 4.6	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.3	Clause 4.7	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.4	Clause 4.8	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.2	Clause 4.9	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.1	Clause 4.10	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013) Section 6.4 / 6.5 / 6.6	Clause 4.11	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013) Section 7.8.8.3	Clause 4.12	PASS



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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Ana, China (Jangsu) Plot Free Trade Zone 215000 中国 • 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业园区满胜路(号約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.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 4 of 95

## Contents

1	Versio	חירn	2
2	Test S	Summary	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	Other requirements Frequency Hopping Spread Spectrum Syste	m Hopping
	Seque	ence	10
	4	2.1 Test Requirement:	10
	4	2.2 Conclusion	10
	4.3	AC Power Line Conducted Emissions	12
	4.4	Conducted Output Power	16
	4.5	20dB Emission Bandwidth & 99% Occupied Bandwidth	17
	4.6	Carrier Frequencies Separationy	18
	4.7	Hopping Channel Number	19
	4.8	Dwell Time	20
	4.9	Band-edge for RF Conducted Emissions	21
	4.10	Spurious RF Conducted Emissions	22
	4.11	Radiated Spurious Emissions	23
	4.12	Restricted bands around fundamental frequency	26
5	Measu	urement Uncertainty (95% confidence levels, k=2)	28
6	Equip	ment List	29
7	Photo	graphs - Setup Photos	



SG

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

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Suchou Anea, 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号厂房南都 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 5 of 95

## **3** General Information

## 3.1 Details of Client

Applicant:	COOSEA GROUP (HK) COMPANY LIMITED	
Address of Applicant: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA		
Manufacturer: COOSEA GROUP (HK) COMPANY LIMITED		
Address of Manufacturer: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, 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, Suzho Area, China (Jiangsu) Pilot Free Trade Zone	
Post code:	215000	
Test engineer:	Tizzy Song, Ives Cheng	

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

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

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 6 of 95

### 3.4 General Description of EUT

-	-	
EUT Description:	Mobile Phone	
Model No.:	SL101AE	
Trade Mark:	Cricket	
Hardware Version:	1.0	
Software Version:	SL101AEC10004	
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 1 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 78.	
Bluetooth version:	Bluetooth V5.2	
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)	
Modulation Type:	GFSK, π/4DQPSK, 8DPSK	
Number of Channel:	79	
Hopping Channel Type:	Adaptive Frequency Hopping systems	
Antenna Type:	🗌 External, 🖂 Integrated	
Antenna Gain*:	Provided by client	
Antenna Gain .	0.6 dBi(Ant2)	
RF Cable*:	⊠Provided by client	
	1dB	
Note: *Since the above data and/	or information is provided by the client relevant results or conclusions of this	

Note: \*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark:

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overlear, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, xtitention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Diess 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.

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Anea, China (Jiangsu) Plot Free Trade Zone 215000 中国 • 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路(号的/6月厂房南部 邮编: 215000 t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980

sqs.china@sqs.com

Report No.:SEWM2203000022RG04Rev.:01Page:7 of 95

				Page:	7 of 95	
Operation Frequency of each channel						
Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
2421MHz	39	2441MHz	59	2461MHz		
	2402MHz 2403MHz 2403MHz 2405MHz 2405MHz 2406MHz 2407MHz 2409MHz 2409MHz 2410MHz 2411MHz 2412MHz 2413MHz 2413MHz 2415MHz 2416MHz 2416MHz 2418MHz 2419MHz 2420MHz	FrequencyChannel2402MHz202403MHz212403MHz212404MHz222405MHz232406MHz242407MHz252408MHz262409MHz272410MHz282411MHz292412MHz302413MHz312416MHz322416MHz342417MHz352418MHz362419MHz372420MHz38	FrequencyChannelFrequency2402MHz202422MHz2403MHz212423MHz2404MHz222424MHz2405MHz232425MHz2406MHz242426MHz2407MHz252427MHz2408MHz262428MHz2409MHz272429MHz2409MHz282430MHz2410MHz292431MHz2411MHz292431MHz2413MHz312433MHz2415MHz332435MHz2416MHz342436MHz2417MHz362438MHz2418MHz362438MHz2419MHz372439MHz2419MHz382440MHz	Operation Frequency of each cl           Frequency         Channel         Frequency         Channel           2402MHz         20         2422MHz         40           2403MHz         21         2423MHz         41           2403MHz         21         2423MHz         41           2403MHz         22         2424MHz         42           2405MHz         23         2425MHz         43           2406MHz         24         2426MHz         44           2407MHz         25         2427MHz         45           2408MHz         26         2428MHz         46           2409MHz         27         2429MHz         47           2410MHz         28         2430MHz         48           2411MHz         29         2431MHz         49           2412MHz         30         2432MHz         50           2413MHz         31         2433MHz         51           2413MHz         31         2433MHz         51           2414MHz         32         2434MHz         52           2415MHz         33         2435MHz         53           2416MHz         34         2436MHz         54	Operation Frequency of each channelFrequencyChannelFrequency2402MHz202422MHz402442MHz2403MHz212423MHz412443MHz2404MHz222424MHz422444MHz2405MHz232425MHz432445MHz2406MHz242426MHz442446MHz2407MHz252427MHz452447MHz2408MHz262428MHz462448MHz2409MHz272429MHz472449MHz2409MHz272429MHz472449MHz2410MHz282430MHz482450MHz2411MHz292431MHz492451MHz2412MHz302432MHz502452MHz2413MHz312433MHz512453MHz2416MHz342436MHz542456MHz2416MHz342436MHz542456MHz2416MHz362438MHz562458MHz2419MHz362438MHz562458MHz2419MHz362438MHz562458MHz2419MHz382440MHz582460MHz	Operation Frequency of each channel           Frequency         Channel         Frequency         Channel         Frequency         Channel           2402MHz         20         2422MHz         40         2442MHz         60           2403MHz         21         2423MHz         41         2443MHz         61           2403MHz         21         2423MHz         41         2443MHz         61           2404MHz         22         2424MHz         42         2444MHz         62           2405MHz         23         2425MHz         43         2445MHz         63           2406MHz         24         2426MHz         44         2446MHz         64           2407MHz         25         2427MHz         45         2447MHz         65           2408MHz         26         2428MHz         46         2448MHz         66           2409MHz         27         2429MHz         47         2449MHz         67           2410MHz         28         2430MHz         48         2450MHz         68           2411MHz         29         2431MHz         49         2451MHz         69           2412MHz         30         2432MHz

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(CH39)	2441MHz
The Highest channel(CH78)	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.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions, argreement, and the service printed documents at http://www.sgs.com/en/Terms-and-Conditions, argreement, and the service printed document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document is individent of the content or appearance of this document is underwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are relatined for 30 days only. Attention: to check the authenticity of totaling function and the sample(s) are relatined for 30 days only.

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Anea, China (Jiangsu) Pilot Free Trade Zone 2150000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sgsgroup.com.cn

sgs.china@sgs.com

t (86-512) 62992980

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 8 of 95

### 3.5 Test Environment

Environment Parameter	101 kPa Selected Values During Tests		
Relative Humidity	44-60 % RH Ambient		
Value	Temperature(℃)	Voltage(V)	
NTNV	22~25	3.8	
LTNV	-10	3.8	
HTNV	55	3.8	
Remark:	•		
NV: Normal Voltage			
NT: Normal Temperature			
LT: Low Extreme Test Temperature	e		

HT: High Extreme Test Temperature

## 3.6 Description of Support Units

The EUT has been tested as an independent unit.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions,aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurigdiction issues defined therein. Any holder of this document is advised that information contained hereion reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawiful and offenders may be prosecuted to the fullest extend for 30 days only. Attention: <u>Check the authenticity of teating Inspection report & certificate, places contact us at telephone</u>: (86-755) 5307 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满胜路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.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 9 of 95

## 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 power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is integrated and no consideration of replacement. The best case gain of the antenna is 0.6dBi.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-end-Conditions, Terms-end-Conditions, Terms-end-Conditions, Terms-end-Conditions, Terms-end-Conditions, and the subject to the second 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 document. This document is unawill and offenders may be prosecuted to the fullest extend to the law. Unless otherwise stated the results shown in this test report feer only to the sample(s) are relatined for 30 days only. Attention: to check the authenticity of totaling Ampection report & certificate, plass contact us at letinghome: (86-512) 62992980 www.sgsgroup.com.on.

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

Member of the SGS Group (SGS SA)

sgs.china@sgs.com

t (86-512) 62992980

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 10 of 95

### 4.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

#### 4.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

#### 4.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

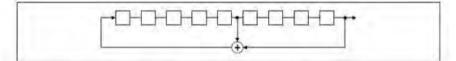
> Number of shift register stages: 9

> Length of pseudo-random sequence: 29 -1 = 511 bits

> Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

20 62 46 77	7 64 8 73	16 75 1
	등 명하는 것이다.	



	Unless otherwise agreed in writing, this document is issued by the	Company a	ubject to its General Condition	one of Service printed
	overleaf, available on request or accessible at http://www.sgs.com/en			
	subject to Terms and Conditions for Electronic Documents at http://	www.sgs.com	/en/Terms-and-Conditions/Ter	ms-e-Document.aspx.
	Attention is drawn to the limitation of liability, indemnification and ju	risdiction iss	ues defined therein. Any hold	er of this document is
	advised that information contained hereon reflects the Company's fin Client's instructions, if any. The Company's sole responsibility is to			
	transaction from exercising all their rights and obligations under the			
	except in full, without prior written approval of the Company. Any u			
	appearance of this document is unlawful and offenders may be prose			
	results shown in this test report refer only to the sample(s) tested and s			
	Attention: To check the authenticity of testing /inspection report & or email: <u>CN,Doccheck@sgs.com</u>	s certificate,	please contact us at telepho	ne: (86-755) 8307 1443,
ed.	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jlangsu) Pilot Free Trade Zone	215000	t (86-512) 62992980	www.sgsgroup.com.cn
	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: 2	215000	t (86-512) 62992980	sgs.china@sgs.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 11 of 95

Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the RF system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels. The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-end-Conditions, Terms-end-Conditions, Terms-end-Conditions, Terms-end-Conditions, Terms-end-Conditions, and the subject to the second 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 document. This document is unawill and offenders may be prosecuted to the fullest extend to the law. Unless otherwise stated the results shown in this test report feer only to the sample(s) are relatined for 30 days only. Attention: to check the authenticity of totaling Ampection report & certificate, plass contact us at letinghome: (86-512) 62992980 www.sgsgroup.com.on.

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

Member of the SGS Group (SGS SA)

sgs.china@sgs.com

t (86-512) 62992980

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 12 of 95

### 4.3 AC Power Line Conducted Emissions

S

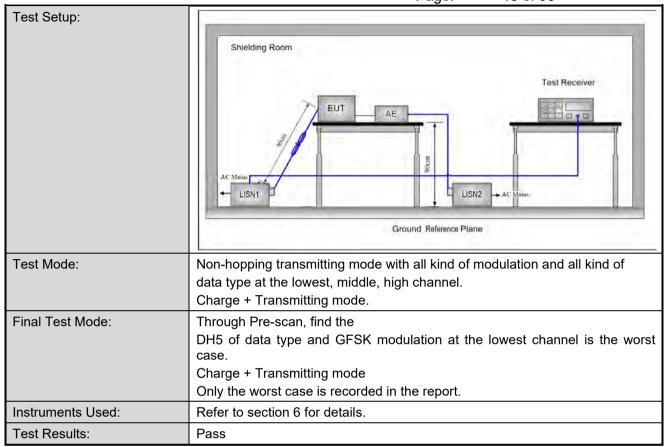
Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10: 2013 Section 6.2			
Test Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz		
Limit:	Erequency renge (MHz)	Limit (d	uV)	
	Frequency range (MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the log	arithm of the frequency.		
Test Procedure:	<ul> <li>5-30 60 50</li> <li>* Decreases with the logarithm of the frequency.</li> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to</li> </ul>			



 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 13 of 95





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic Documents, subject to Terms and Conditions for Electronic Documents after the transaction of the service printed documents, 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 document. This document is unawrited and the company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unawritui and offenders may be prosecuted to the fullest extent of the avoid bays only. Attention: To these the authenticity of testing inspection report a certificate, please contact us at temporter (86-755) 8307 1443, or small: Ch. Doceheck@aga.com

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益数1号的6号(房南部 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

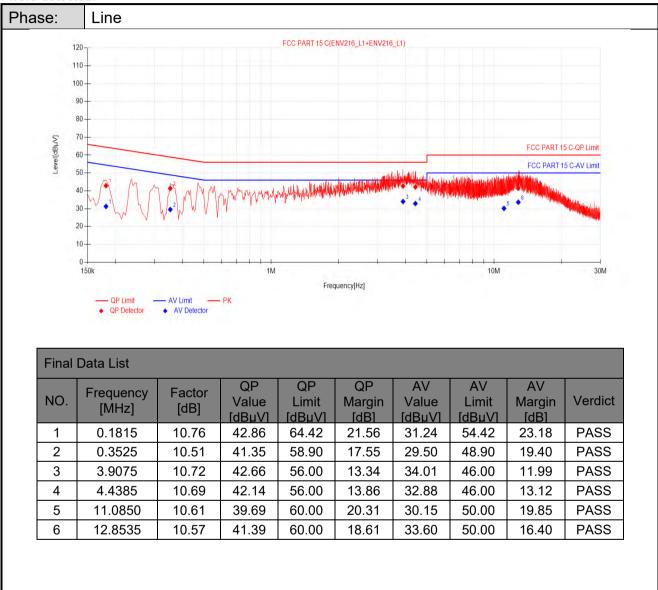
 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 14 of 95

#### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Remark:

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

2. Final Test Level =Reading + Factor(Lisn factor + cable loss).

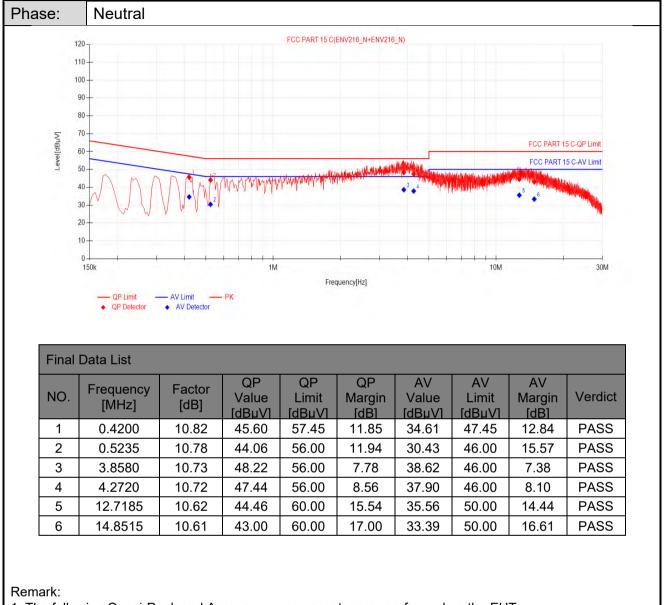


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, subject to Terms and Conditions for Electronic Document at Inttp://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issued defined therein. Any holder of this document is divised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullist 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. Artention: To chack the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-758) 5307 1443. or email: CN.Doccheck@ags.com [86:475] PS000 t (86-672) 62992800 www.sggroup.com.cn effective.file.astention terms end for 30 here the factor of the f

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 15 of 95



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

2. Final Test Level =Reading + Factor(Lisn factor + cable loss).

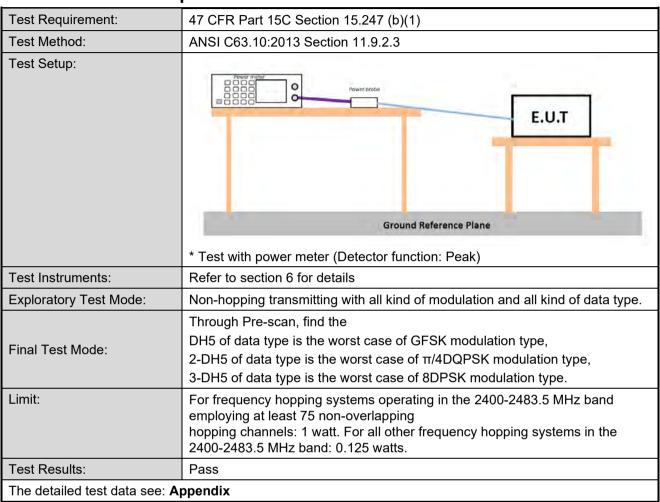


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.gspx and, for electronic format documents, subject to Terms and Conditions for Electronic Document as the http://www.sgs.com/en/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 drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document 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 ransaction from exercising all their rights and obligations sunder 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 respute sole 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. Artention: To check the authenticity of testing (inspection report & certificate, plasse rotatus at telephone: (66-755) 5307 1443, or email: CN. Doccheck@sps.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 16 of 95



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

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

t (86-512) 62992980

sgs.china@sgs.com

Report No.: SEWM2203000022RG04 Rev.: 01 Page: 17 of 95

### 4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth

S

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2013 Section 6.9.2 and 6.9.3		
Test Setup:	PC FF Control Unit FF		
Instruments Used:	Refer to section 6 for details		
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.		
Final Test Mode:	<ul> <li>Through Pre-scan, find the</li> <li>DH5 of data type is the worst case of GFSK modulation type,</li> <li>2-DH5 of data type is the worst case of π/4DQPSK modulation type,</li> <li>3-DH5 of data type is the worst case of 8DPSK modulation type.</li> </ul>		
Limit:	NA		
Test Results:	Pass		
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 <u>http://www.sgs.com/en/Terms-and-Conditions,aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurigdiction issues defined therein. Any holder of this document is advised that information contained hereion reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawiful and offenders may be prosecuted to the fullest extend for 30 days only. Attention: <u>Check the authenticity of teating Inspection report & certificate, places contact us at telephone</u>: (86-755) 5307 1443,

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

t (86-512) 62992980

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 18 of 95

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2013 Section 7.8.2		
Test Setup:	PC FC FC FC FC FC FC FC FC FC F		
Test Instruments:	Refer to section 6 for details		
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.		
Final Test Mode:	<ul> <li>Through Pre-scan, find the</li> <li>DH5 of data type is the worst case of GFSK modulation type,</li> <li>2-DH5 of data type is the worst case of π/4DQPSK modulation type,</li> <li>3-DH5 of data type is the worst case of 8DPSK modulation type.</li> </ul>		
Limit:	2/3 of the 20dB bandwidth		
	Remark: the transmission power is less than 0.125W.		
Test Results:	Pass		
The detailed test data see:	Appendix		

## 4.6 Carrier Frequencies Separationy

S



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extend for 30 days only. Attention to the sub-intervent of testing inspection report & certificate, phase contact us at tempore. (66-755) 5307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Anea, China (Jiangsu) Pilot Free Trade Zone 2150000 中国 • 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 19 of 95

#### Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) Test Method: ANSI C63.10:2013 Section 7.8.3 Test Setup: SGS Test system Vector Signal Genera 0 Spectrum Analyzer PC 000 Communication Terter RF Control Unit 0 0 0 E.U.T Analog Signal Generator 0 DC Powe 00000 **Ground Reference Plane** Instruments Used: Refer to section 6 for details Test Mode: Hopping transmitting with all kind of modulation At least 15 channels Limit: Test Results: Pass The detailed test data see: Appendix

### 4.7 Hopping Channel Number

S



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extend to the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only.

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Anea, China (Jiangsu) Pilot Free Trade Zone 2150000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sgsgroup.com.cn

sgs.china@sgs.com

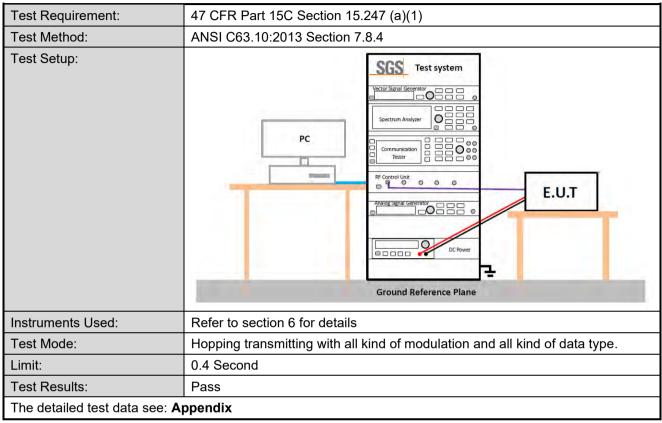
t (86-512) 62992980

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 20 of 95

## 4.8 Dwell Time





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein, Any holder of this document is advised that information contained hereion reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawiful and offenders may be prosecuted to the fullest extend for 30 days only. Attention: Check the authenticity of testing Inspection report & certificate, places contact us at telephone; (86-755) 5307 1443,

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

sgs.china@sgs.com

t (86-512) 62992980

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 21 of 95

## 4.9 Band-edge for RF Conducted Emissions

S

Test Requirement:	47 CFR Part 15C Section 15.247 (d)		
Test Method:	ANSI C63.10:2013 Section 7.8.7.2		
Test Setup:	PC FC Control Unit Texter FC Control Unit Texter FC Control Unit FC		
Instruments Used:	Refer to section 6 for details		
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type.		
Final Test Mode:	<ul> <li>Through Pre-scan, find the</li> <li>DH5 of data type is the worst case of GFSK modulation type,</li> <li>2-DH5 of data type is the worst case of π/4DQPSK modulation type,</li> <li>3-DH5 of data type is the worst case of 8DPSK modulation type.</li> </ul>		
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: Appendix			



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and Jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) testing linespection report & certificate, please contact us at lelephone; (86-75) 8307 1443, or email: CO Appscheckings poor

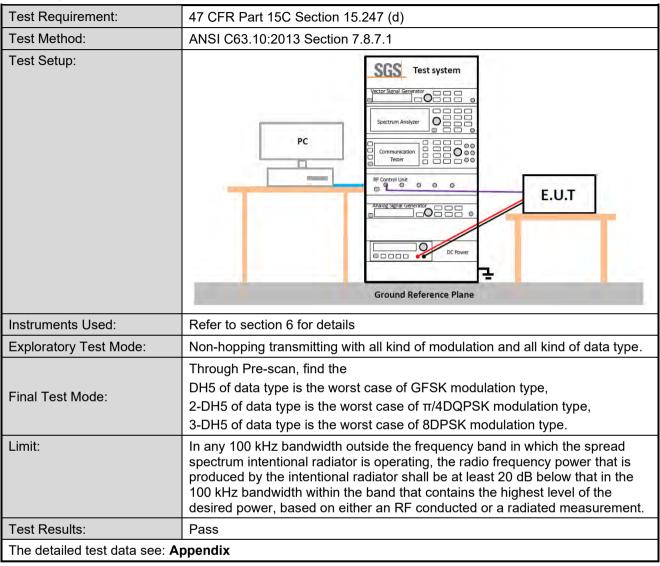
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国 • 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业园区满胜路1号的6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 22 of 95

### 4.10 Spurious RF Conducted Emissions





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.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is 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.

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Anea, China (Jiangsu) Pilot Free Trade Zone 2150000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sasgroup.com.cn

t (86-512) 62992980

Member of the SGS Group (SGS SA)

sqs.china@sqs.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

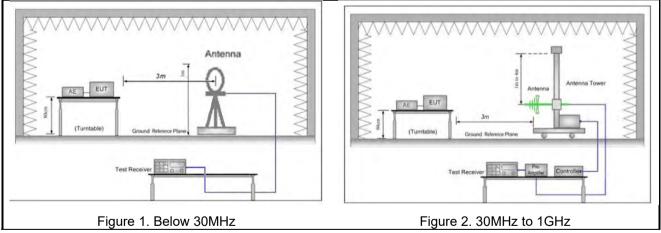
 Page:
 23 of 95

## **4.11 Radiated Spurious Emissions**

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10 :2013 Section 6.4 / 6.5 / 6.6					
Test Site:	Measurement Distance: 3	m (Semi-Anechoic	: Chamber)			
Test Frequency:	9kHz ~ 25GHz					
Limit:	Frequency Frequency 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				3	
	88MHz-216MHz 150 43.5 Quasi-peak 3				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 by the device.					

#### Test Setup:

SG





	Report No.: SEWM2203000022RG04
	Rev.: 01
	Page: 24 of 95
	Im or 3m     Im or 3m       Im or 3m     I
	Figure 3. Above 1 GHz
Test Procedure:	<ul> <li>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.</li> <li>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</li> </ul>
	(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.
	<ul><li>g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</li><li>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.</li></ul>
	<ul> <li>Repeat above procedures until all frequencies measured was complete.</li> <li>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</li> </ul>
	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.
	I. 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 = Peak     Trace mode = max hold
	<ul> <li>Trace mode = max hold</li> <li>Peak Measurements Above 1000 MHz</li> </ul>



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and defenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 5307 1443, or email: CN\_Doccheck@ss.com

South of No. 6 Plant, No. 1, Runsheng Read, Stachou Industrial Park, Stachou Anea, 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团区消胜路1号的4号厂房南都 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 25 of 95

	1 ugo. 20 01 00
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	• Detector = Peak
	Sweep time = auto
	<ul> <li>Trace mode = max hold</li> </ul>
	Average Measurements Above 1000MHz
	Use duty cycle correction factor method per 15.35(c).
	Duty cycle = On time / 100 milliseconds
	On time = $N_1*L_1 + N_2*L_2+N_{N-1}*L_{N-1} + N_N*L_N$
	Where $N_1$ is number of type 1 pulese, $L_1$ is length of type 1 pulses, etc.
	Average Value = Peak Value +20*log(Duty cycle).
Evalenates / Test	Non-hopping transmitting mode with all kind of modulation and all kind of
Exploratory Test Mode:	data type
Wode.	Charge + Transmitting mode.
	Through Pre-scan, find the
	DH5 of data type and GFSK modulation is the worst case.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode
	For below 1GHz part, through pre-scan, the worst case is the lowest channel.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data	a see: Appendix



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

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Suchou Anea, 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.: SEWM2203000022RG04 Rev.: 01 Page: 26 of 95

## 4.12Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205			
Test Method:	ANSI C63.10: 2013 Section 7.8.8.3			
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)			
Limit:	Frequency Limit (dBuV/m) Remark			
	30MHz-88MHz	40.0	Quasi-peak	
	88MHz-216MHz	43.5	Quasi-peak	
	216MHz-960MHz	46.0	Quasi-peak	
	960MHz-1GHz	54.0	Quasi-peak	
		54.0	Average Value	
	Above 1GHz 74.0		Peak Value	

#### Test Setup:

S

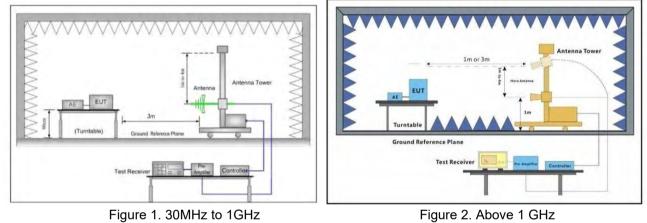


	Figure 1. 3		FIGULE 2. ADOVE 1 GHZ
Test Procedure:		above the ground at a	UT was placed on the top of a rotating table 0.8 meters 3 or 10 meter semi-anechoic camber. The table was determine the position of the highest radiation.
		meters above the grou	EUT was placed on the top of a rotating table 1.5 and at a 3 meter semi-anechoic camber. The table was determine the position of the highest radiation.
	c.		or 10 meters away from the interference-receiving ounted on the top of a variable-height antenna tower.
	d	to determine the max	varied from one meter to four meters above the ground imum value of the field strength. Both horizontal and f the antenna are set to make the measurement.
	e	then the antenna was	mission, the EUT was arranged to its worst case and tuned to heights from 1 meter to 4 meters and the urned from 0 degrees to 360 degrees to find the
	f.	The test-receiver system Bandwidth with Maxim	em was set to Peak Detect Function and Specified um Hold Mode.
	q	Place a marker at th	e end of the restricted band closest to the transmit



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions aspx and, for electronic Documents as the titut of the service printed documents, subject to Terms and Conditions for Terms cand Conditions or Telectronic Documents and the titut of the service printed documents and the titut of the service printed documents and the titut of the service printed document as the titut of the service printed document as the titut of the service printed document as the titut of the service printed control of the service printed 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 document is unawriting and the company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unawritian and forefores may be prosecuted to the fullest extend to the law. Unless otherwise stated the results shown in this test report freer only to the sample(s) tested and such sample(s) are retained for 30 days only. e: (86-755) 8307 1443.

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

t (86-512) 62992980

Member of the SGS Group (SGS SA)

sgs.china@sgs.com

Report No.: SEWM2203000022RG04

	Rev.: 01
	Page: 27 of 95
	<ul> <li>frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> <li>h. Test the EUT in the lowest channel, the Highest channel</li> <li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ul>
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 $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz Use duty cycle correction factor method per 15.35(c). Duty cycle = On time / 100 milliseconds On time = N <sub>1</sub> *L <sub>1</sub> + N <sub>2</sub> *L <sub>2</sub> +N <sub>N-1</sub> *L <sub>N-1</sub> + N <sub>N</sub> *L <sub>N</sub> Where N <sub>1</sub> is number of type 1 pulses, L <sub>1</sub> is length of type 1 pulses, etc. Average Value = Peak Value +20*log(Duty cycle).
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode, Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	e: Appendix
	••



SG

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and Jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fulleat extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) testing linespection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CO Appschedings 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满胜路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.: SEWM2203000022RG04 Rev.: 01 Page: 28 of 95

#### 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	8 Radiated Emission	± 4.80dB (1GHz to 18GHz)	
		± 4.80dB (Above 18GHz)	



SG

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unawiful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing/Inspection report & certificate, plasse contact us at telephone; (66-755) 5307 1443, ne: (86-755) 8307 1443.

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

t (86-512) 62992980

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 29 of 95

## 6 Equipment List

SG

RF Test Equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/2/16	2023/2/15		
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27		
Measurement Software	Tonscend	JS1120-3 Test System V 3.1.55	SUWI-02-09-09	NCR	NCR		
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/2/14	2023/2/13		
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/15	2023/2/14		
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3		
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3		

CE Test Equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/2/19	2023/2/18		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/2/19	2023/2/18		
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/2/16	2023/2/15		



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of tasting inspection report & certificate, please contact us at telephone: (86-75) 8307 1443.

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Suchou Anea, 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.: SEWM2203000022RG04 Rev.: 01 Page: 30 of 95

9*6*6 Test Equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/2/16	2023/2/15		
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27		
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/4	2022/12/3		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2023/5/15		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2023/5/15		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2023/5/13		
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2023/6/9		
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/14	2023/2/13		
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/14	2023/2/13		
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/19	2023/2/18		
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR		
Measurement Software	Tonscend	JS32-RSE 4.0.0.1	SUWI-02-09-06	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.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and Jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fulleat extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) testing linespection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CO Appschedings com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jlangsu) 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满胜路1号的6号厂房南部 邮编: 215000

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

t (86-512) 62992980

Member of the SGS Group (SGS SA)

sgs.china@sgs.com

Report No.: SEWM2203000022RG04 Rev.: 01 Page: 31 of 95

#### 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.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unawiful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing/Inspection report & certificate, plasse contact us at telephone; (66-755) 5307 1443, ne: (86-755) 8307 1443.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jianosu) Pilot Free Trade Zone 215000 中国•苏州•中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路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

Member of the SGS Group (SGS SA)

t (86-512) 62992980

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 32 of 95

# 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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indeemification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone; (66-75) 8307 1443, or email: Companse contact us at telephone; (66-75) 8307 1443, or email: Companse contact us at telephone; (66-75) 8307 1443, or email: Companse contact us at telephone; (66-75) 8307 1443, or email: Companse contact us at telephone; (66-75) 8307 1443, or email: Companse contact us at telephone; (66-75) 8307 1443, or email: Companse contact us at telephone; (66-75) 8307 1443, or email: Companse contact us at telephone; (66-75) 8307 1443, or email: Companse contact us at telephone; (66-75) 8307 1443, or email: Companse contact us at telephone; (66-75) 8307 1443, or email: Companse contact us at te

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

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 33 of 95

## 20dB Emission Bandwidth

**Test Result** 

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant 2	2402	0.86	2401.55	2402.41		
		2441	0.86	2440.55	2441.41		
		2480	0.86	2479.55	2480.41		
2DH5	Ant 2	2402	1.25	2401.37	2402.62		
		2441	1.25	2440.37	2441.62		
		2480	1.25	2479.37	2480.62		
3DH5	Ant 2	2402	1.26	2401.36	2402.62		
		2441	1.26	2440.36	2441.62		
		2480	1.26	2479.36	2480.62		



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

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Suchou Anea, 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.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 34 of 95

#### DH5 Ant 2 2402 \$ \* MultiView Spectrum Ref Level 20.00 dBm Offset 4.80 dB = RBW 30 kHz Att 20 dB SWT 1.05 ms = VBW 100 kHz Mode mt 100/100 14.33 d 01 55 M2[1] 5.47 w. 2.401 988 00 GH N nn H1 -14.53 1001 pts 300.0 kHz/ F 2.402 GH Span 3.0 MHz X-Value 2.401 55 GHz 2.401 988 GHz 858.0 kHz -14.33 dBm 5.47 dBm 0.67 dB M1 M2 14:12:14 28.03.2022 DH5 Ant 2 2441 MultiView Spectrum Ref Level 20.00 dBm Offset 4.80 dB RBW 30 kHz Att 20 dB SWT 1.05 ms VBW 100 kHz Mode Count 100/100 MI[1] -14.42 d 10.55 12[1] 5.45 dB 40 988 00 G no H1 -14.550 F 2.441 GH 300.0 kHz/ 1001 pts Span 3.0 MHz 2.440 55 GHz 2.440 988 GHz 858.0 kHz -14.42 dBm 5.45 dBm 0.74 dB \* 14:15:13 28.03.2022

### **Test Graphs**



Report No.: SEWM2203000022RG04 Rev.: 01 Page: 35 of 95





 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 36 of 95





Report No.: SEWM2203000022RG04 Rev.: 01 Page: 37 of 95 3DH5 Ant 2 2402 \$ MultiView Spectrum . 
 Ref Level 20:00 dBm
 Offset
 4.80 dB
 RBW
 30 kHz

 Att
 20 dB
 SWT
 1.05 ms
 VBW
 100 kHz
 Count 100/100 2.40136100 GF 4.53 dB 2.40198800 GF M2[1] +1 -15,470 50 gBin F 2.402 GH 1001 pt 300.0 kHz/ Span 3.0 MHz X-Value 2.401 361 GHz 2.401 988 GHz 1.26 MHz V Value -15.46 dBm 4.53 dBm 0.11 dB M1 M2 14:27:16 28.03.2022 3DH5 Ant 2 2441 \$ MultiView . Spectrum 
 Ref Level 20.00 dBm
 Offset
 4.80 dB
 RBW
 30 kHz

 Att
 20 dB
 SWT
 1.05 ms
 VBW
 100 kHz
 Mode ant 100/100 12[1] 4.47 dE 40 988 00 G +1 -15,530 50 dBm 60 cRa 2.441 GH 300.0 kHz/ 1001 pts Span 3.0 MHz X Value 2.440 364 GHz 2.440 988 GHz 1.257 MHz V-Value -15.13 dBm 4.47 dBm -0.28 dB 14:29:14 28.03.2022



Report No.: SEWM2203000022RG04 Rev.: 01 Page: 38 of 95





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing/Inspection report & certificate, plazes contact us at telephore: (66-755) 5307 1443, ne: (86-755) 8307 1443.

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

t (86-512) 62992980

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 39 of 95

### **Occupied Channel Bandwidth**

**Test Result** 

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.759	2401.623	2402.382		
DH5	Ant 2	2441	0.758	2440.623	2441.381		
		2480	0.759	2479.620	2480.379		
		2402	1.141	2401.424	2402.565		
2DH5	Ant 2	2441	1.14	2440.425	2441.565		
		2480	1.14	2479.422	2480.562		
		2402	1.144	2401.427	2402.571		
3DH5	Ant 2	2441	1.143	2440.428	2441.571		
		2480	1.143	2479.426	2480.568		



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

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Suchou Anea, 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.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 40 of 95

#### **Test Graphs**





 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 41 of 95





 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 42 of 95

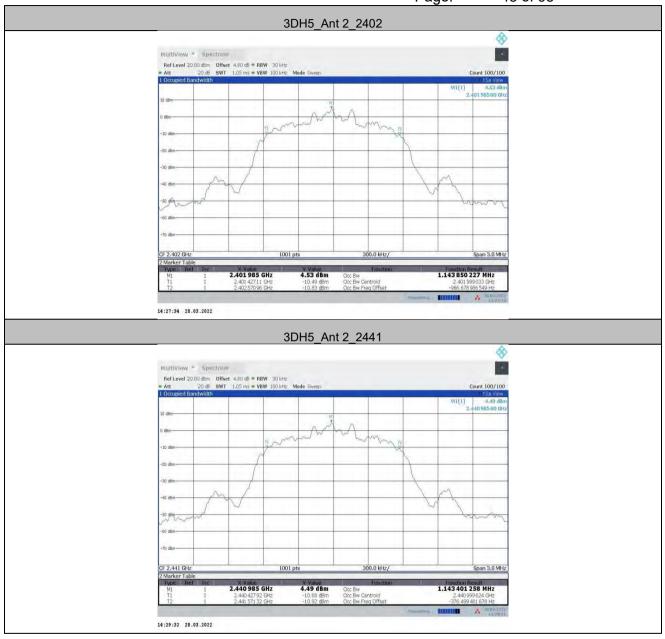




 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 43 of 95





Report No.: SEWM2203000022RG04 Rev.: 01 Page: 44 of 95





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing/Inspection report & certificate, plazes contact us at telephore: (66-755) 5307 1443, ne: (86-755) 8307 1443.

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

t (86-512) 62992980

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 45 of 95

#### Maximum conducted output power Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
		2402	9.09	≤30.00	PASS
DH5	Ant 2	2441	9.13	≤30.00	PASS
		2480	8.86	≤30.00	PASS
		2402	7.99	≤20.97	PASS
2DH5	Ant 2	2441	7.97	≤20.97	PASS
		2480	7.78	≤20.97	PASS
		2402	7.87	≤20.97	PASS
3DH5	Ant 2	2441	7.91	≤20.97	PASS
		2480	7.81	≤20.97	PASS



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

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Suchou Anea, 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团区消胜路(号约6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 46 of 95

### **Carrier frequency separation**

**Test Result** 

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant 2	Нор	1.016	≥0.860	PASS
2DH5	Ant 2	Нор	1.004	≥0.833	PASS
3DH5	Ant 2	Нор	1.006	≥0.840	PASS



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

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Suchou Anea, 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团区消胜路(号约6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

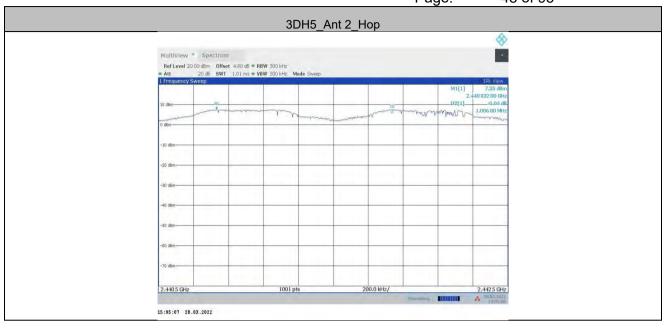
 Page:
 47 of 95

#### DH5 Ant 2 Hop \$ . MultiView Spectrum Ref Level 20.00 dBm Offset 4.80 dB RBW 300 kHz Att 20.dB SWT 1.01 ms VBW 300 kHz Mode 410 D2[1] 1.016 00 MH m 2.440 5 GHz 1001 pt 200.0 kHz/ 2.442 5 GHz 14:34:03 28.03.2022 2DH5 Ant 2 Hop MultiView Spectrum Ref Level 20.00 dBm Offset 4.80 dB RBW 300 kHz Att 20 dB SWT 1.01 ms VBW 300 kHz Mode MI[1] 8340 D2[1]\_ 0.03 mi m 1,004 00 M V 1001 pt 200.0 kHz/ 2.440 5 GHz 2.442 5 GHz 14:41:11 28.03.2022

#### **Test Graphs**



Report No.: SEWM2203000022RG04 Rev.: 01 Page: 48 of 95





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing/Inspection report & certificate, plazes contact us at telephore: (66-755) 5307 1443, ne: (86-755) 8307 1443.

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

t (86-512) 62992980

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 49 of 95

### Time of occupancy

**Test Result** 

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant 2	Нор	0.36	320	0.115	≤0.4	PASS
DH3	Ant 2	Нор	1.61	160	0.258	≤0.4	PASS
DH5	Ant 2	Нор	2.86	106.67	0.305	≤0.4	PASS
2DH1	Ant 2	Нор	0.37	320	0.118	≤0.4	PASS
2DH3	Ant 2	Нор	1.62	160	0.259	≤0.4	PASS
2DH5	Ant 2	Нор	2.87	106.67	0.306	≤0.4	PASS
3DH1	Ant 2	Нор	0.37	320	0.118	≤0.4	PASS
3DH3	Ant 2	Нор	1.62	160	0.259	≤0.4	PASS
3DH5	Ant 2	Нор	2.87	106.67	0.306	≤0.4	PASS



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

South of No. 6 Plant, No. 1, Runsheng Road, Stachou Industrial Park, Stachou Anea, Chine (Jangsu) Plot Free Trade Zone 215000 中国 • 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业园区消胜路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

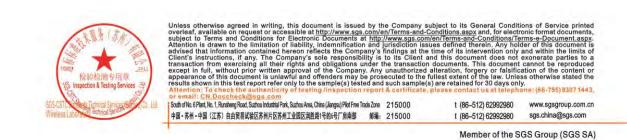
 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 50 of 95

#### DH1 Ant 2 Hop \$ • MultiView Spectru Ref Level 20.00 dBm Offset 4.80 dB RBW 1 MHz Att 20 dB SWT 10 ms VBW 3 MHz SGL Count 1/1 - 411 41[1] 8.42 de [1]-TRG 5.500 anarabilities and principle of some birth and printing or wether wanter of the will have the participation of aphistory allow man CF 2.441 GH 1001 pts 1.0 ms/ A 78 14:37:05 28.03.2022 DH3 Ant 2 Hop 3 MultiView Spectrum \* Ref Level 20.00 dBm Offset 4.80 dB RBW 1 MHz Att 20 dB SWT 10 ms VBW 3 MHz SGL Count 1/1 8.33 dBn 0 TRG 5.401 'in AMEN PROPERTY Astallipickerining Henderstein harring which and much surger and the with the state CF 2.441 GH 1001 pts 1.0 ms/ 14:39:01 28.03.2022

#### **Test Graphs**



Report No.: SEWM2203000022RG04 Rev.: 01 Page: 51 of 95 DH5 Ant 2 Hop \$ MultiView Spectrum \* 
 Ref Level 20.00 dBm
 Offset 4.80 dB = RBW 1 MHz

 Att
 20 dB = SWT
 10 ms = VBW 3 MHz
 SGL Count 1/1 0 TRG 6.300 2,860.00 Min and Takes ( and the stand of the stand o whether and public the state of CF 2.441 GHz 1001 pts 1.0 ms/ 14:35:22 28.03.2022 2DH1 Ant 2 Hop \$ MultiView . Spectrum \* 
 Ref Level
 20.00 dBm
 Offset
 4.80 dB
 RBW
 1 MHz

 Att
 20 dB
 SWT
 10 ms
 VBW
 3 MHz
 SGL Count 1/1 [1] 7.46 d [1]-1.37 d -TRG 5.500 dBm 370.00 WAN MAL -service the him here where had any more with a subordier with a summer of the provision Louist propriet Marrie CF 2.441 GH 1001 pts 1.0 ms/ 14:42:55 28.03.2022



 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 52 of 95



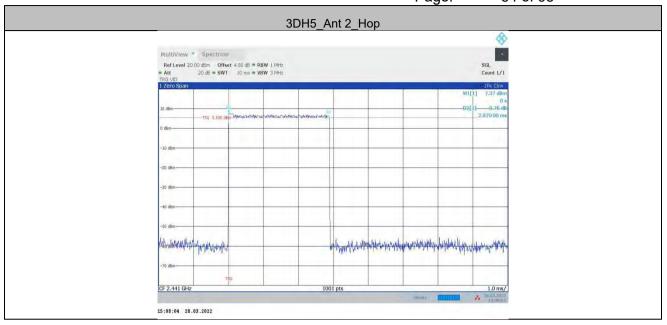


Report No.: SEWM2203000022RG04 Rev.: 01 Page: 53 of 95





Report No.: SEWM2203000022RG04 Rev.: 01 Page: 54 of 95





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u> (for electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u>). The terms and Conditions for Terms and Conditions for the Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u>. There are the terms and Conditions for the terms of the intervention of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extend for 30 days only. Attention: <u>Check the authenticitry of testing Inspection report & certificate, places contact us at telephone</u> (66-755) 5307 1443,

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

t (86-512) 62992980

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 55 of 95

#### Number of hopping channels Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant 2	Нор	79	≥15	PASS
2DH5	Ant 2	Нор	79	≥15	PASS
3DH5	Ant 2	Нор	79	≥15	PASS



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

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Suchou Anea, 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.:
 SEWM2203000022RG04

 Rev.:
 01

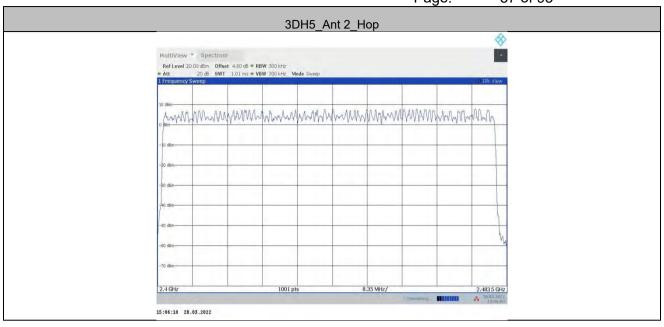
 Page:
 56 of 95

### DH5 Ant 2 Hop \$ .... MultiView Spectrum Ref Level 20.00 dBm Offset 4.80 dB RBW 300 kHz Att 20 dB SWT 1.01 ms VBW 300 kHz Mode S 000000 2000000 2.4 GHz 1001 pt 8.35 MHz/ 2.4835 GHz 14:35:06 28.03.2022 2DH5 Ant 2 Hop \$ MultiView Spectrum Ref Level 20.00 dBm Offset 4.80 dB RBW 300 kHz Att 20 dB SWT 1.01 ms VBW 300 kHz Mode S and a marked and a stranger and a st 2.4 GHz 1001 pt 8.35 MHz/ 2.4835 GHz 14:42:14 28.03.2022

#### **Test Graphs**



Report No.: SEWM2203000022RG04 Rev.: 01 Page: 57 of 95





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing/Inspection report & certificate, plazes contact us at telephore: (66-755) 5307 1443, ne: (86-755) 8307 1443.

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

t (86-512) 62992980

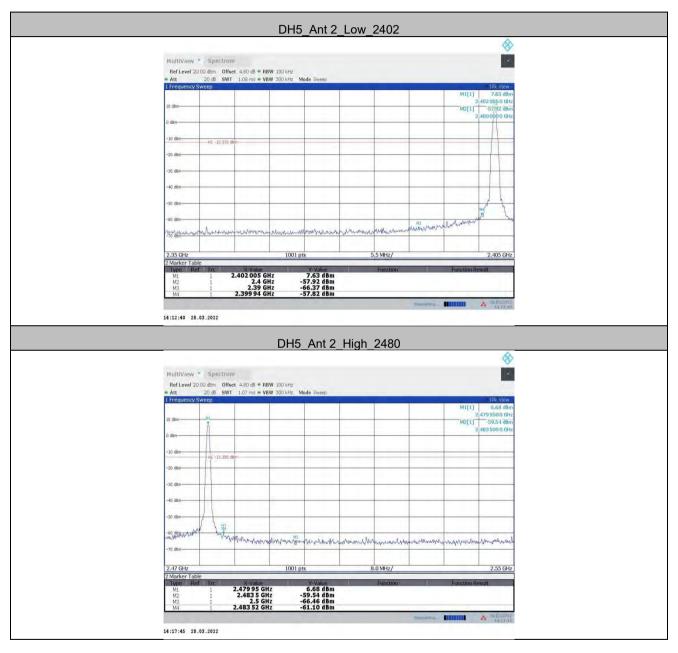
 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

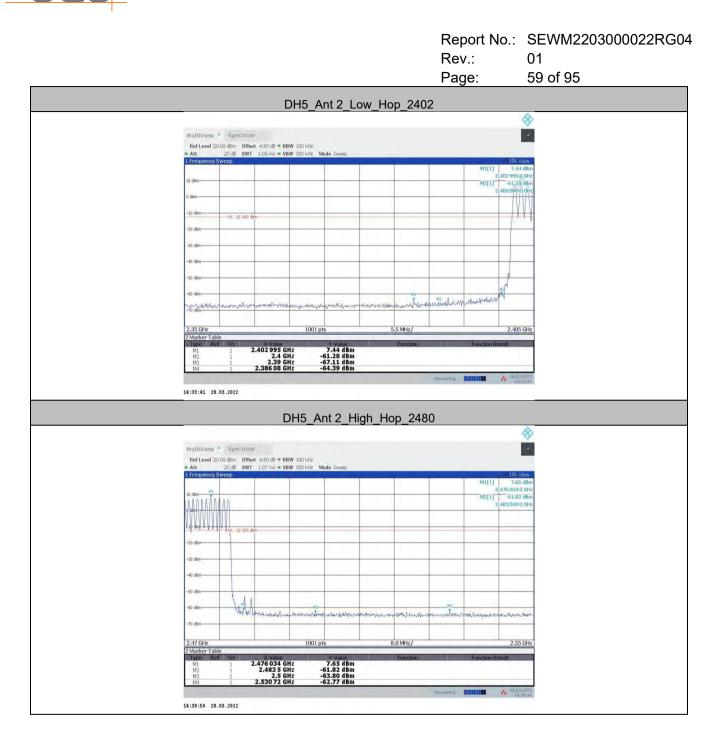
 Page:
 58 of 95

### Band edge measurements

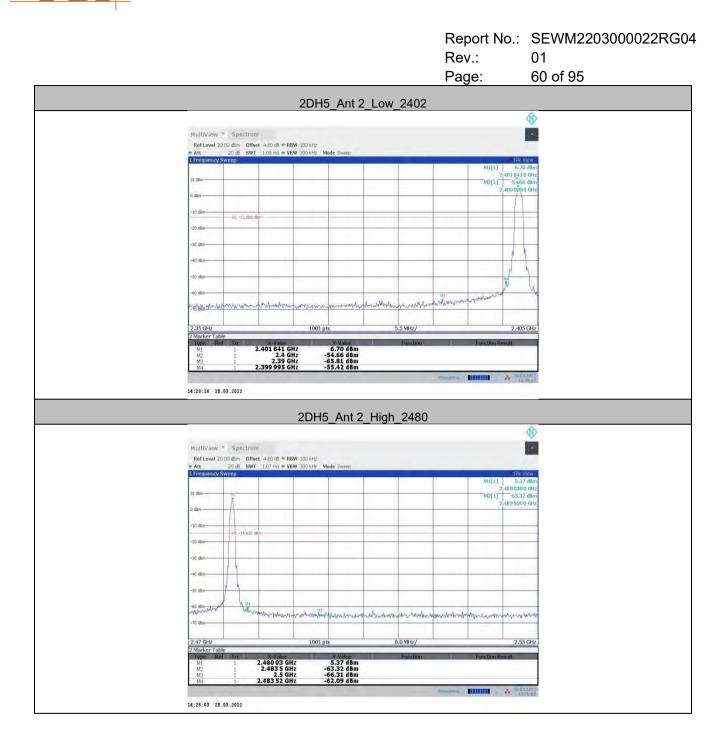
**Test Graphs** 



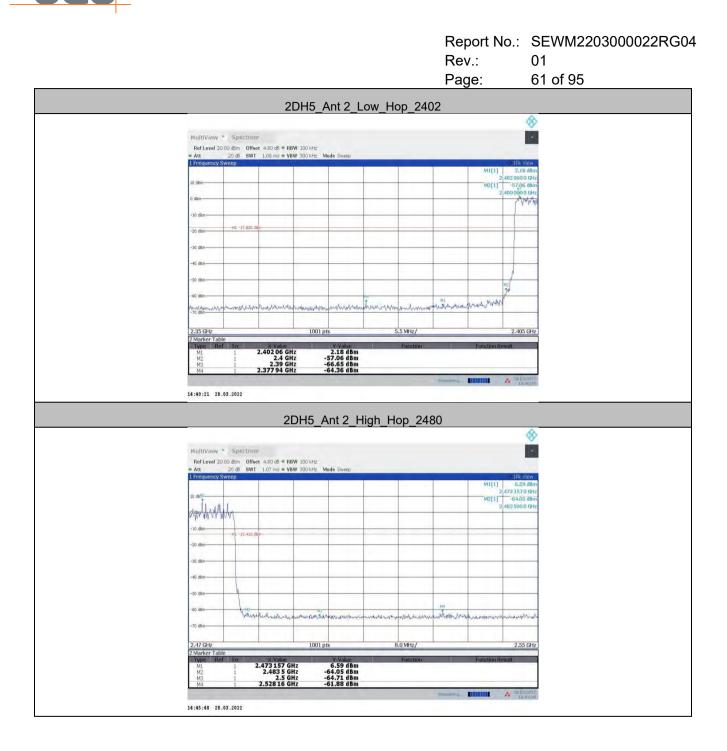


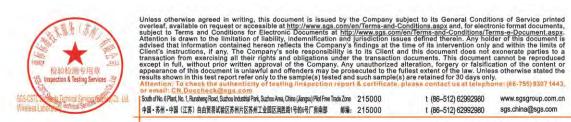


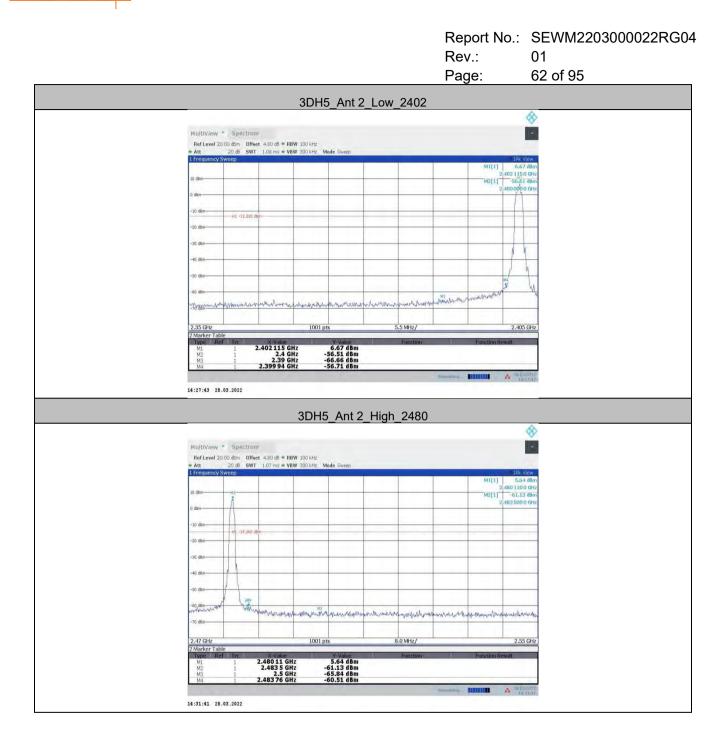


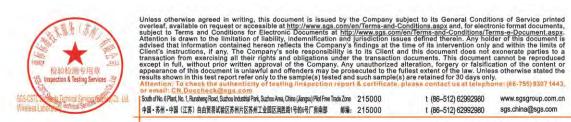


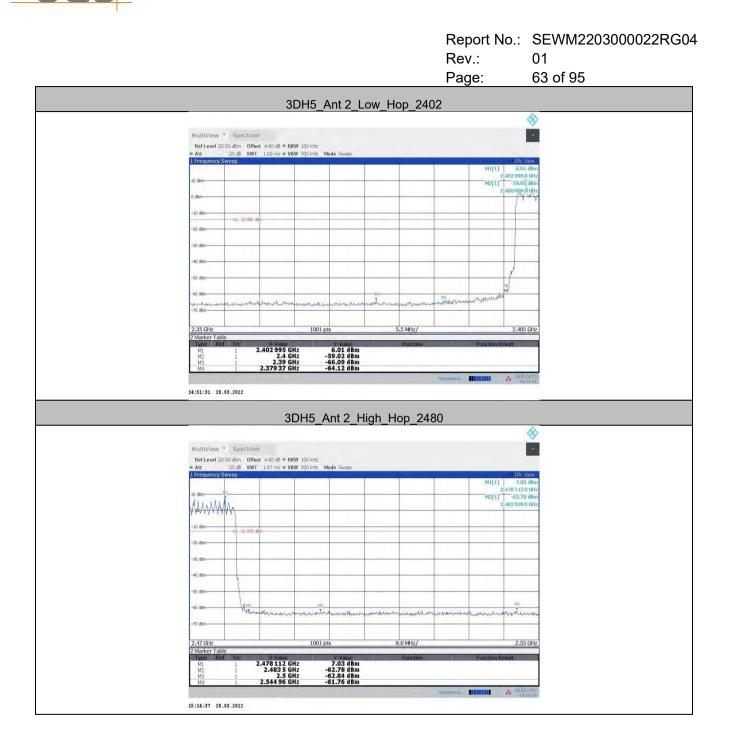








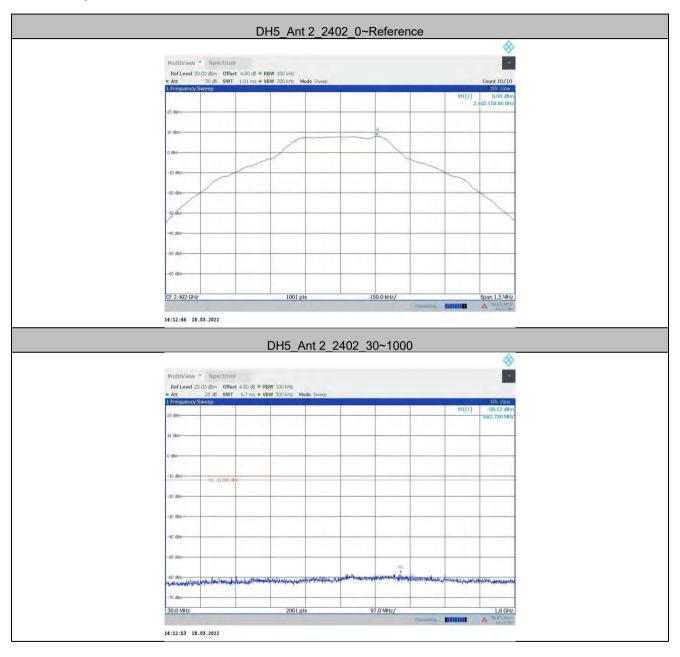






Report No.: SEWM2203000022RG04 Rev.: 01 Page: 64 of 95

#### **Conducted Spurious Emission Test Graphs**





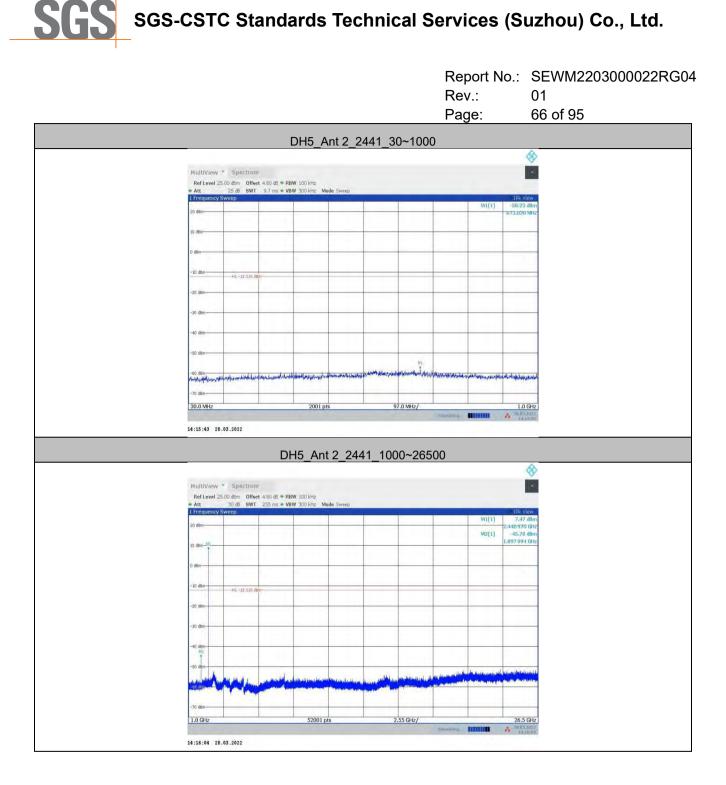
t (86–512) 62992980 www.sgsgroup.com.cn sgs.china@sgs.com

				Report No.: Rev.: Page:	SEWM2203000022RG04 01 65 of 95
	D	H5_Ant 2_2402	_1000~2650	0	
Ref L e		18W 100 kHz 18W 300 kHz Mode Sweep			. I I I I I I I I I I I I I I I I I I I
1 Frequ 20 dim-	iency Sweep			±1Pk MI[1] 7.6	View 7 dBm
				M2[1] -46.2 1.898 30	10 GHz 1 dBm 15 GHz
10 dBm <sup>-6</sup>	Y			1.090.30	
D dBm					
-10 dBm-					
	H1 -12.000 d8m				
-20 dBm-					
-30 dBm-					
-40 dem-					
-50 dbm		1.000			
- 30 Gen	واستلوب وتبترعه البا	dens and a static matching a sector day	الأرفي وعادات فسير والتروين	والم الدينة الم والم معاد الم المعالم الم الم الم الم الم الم الم الم الم	
~70 dBm-					
1.0 GH	z	52001 pts	2.55 GHz/	Measuring., <b>Manual A</b>	5 GHz
14:13:1	4 28.03.2022			The second	TRUE I
	D	H5_Ant 2_2441	_0~Reference	e	
		38W 100 kHz ABW 300 kHz Mode Sweep		Count ⊐198	View
				M1(1) 7.8 2.441 1581	9 dBm IO GHz
20 dBm-					
10 iBco-			-		-
D d8m		1			
			1		
-10 dbm-					
-20 dBm-	1				
-30, Asm-	r				<u></u>
-می 40 dim-					
-40 dan- -50 dan-					
-50 dan-					
-50. dbm-	01 GHz	1001 pts	150.0 kHz/	Span 1.	5 MHZ

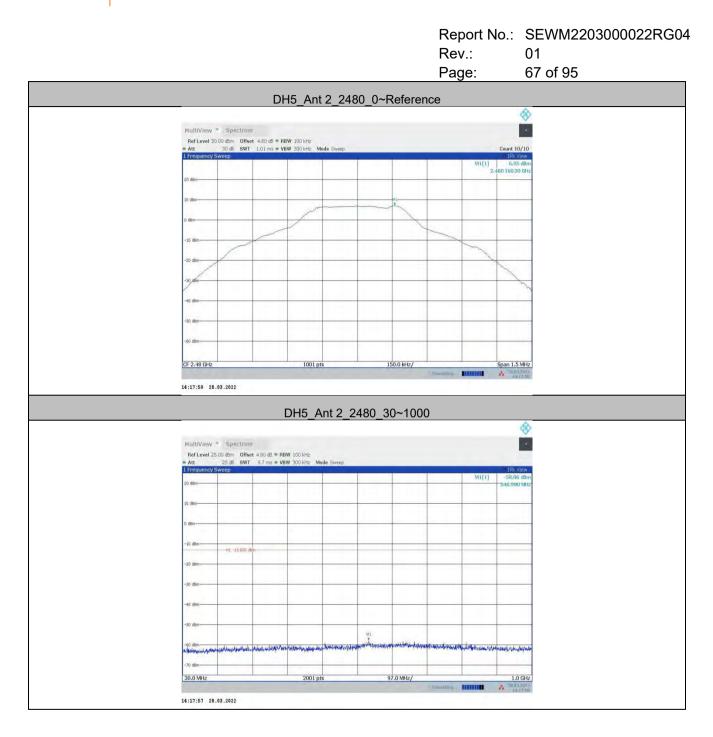


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic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

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









Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u> (for electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u>). The terms and Conditions for Terms and Conditions for the Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u>. There are the terms and Conditions for the terms and Conditions for the terms and Conditions in the limits of the terms of the intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extend for 30 days only. Attention: <u>Check the authenticitry of tealing Inspection report & certificate, places contact us at telephone</u> (66-755) 5307 1443,

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

t (86-512) 62992980

Member of the SGS Group (SGS SA)

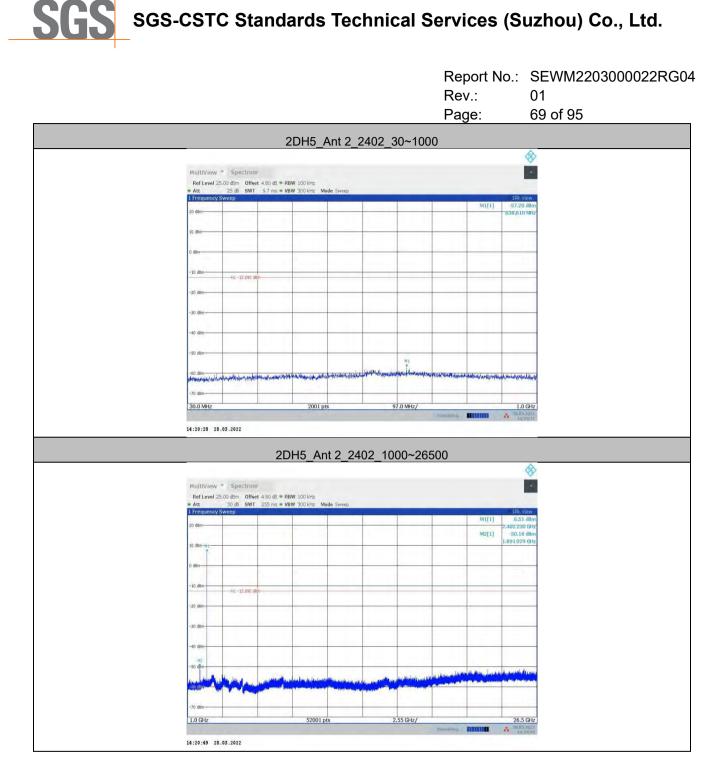
sgs.china@sgs.com

		26.5.04z
Ref Level 25:00 dbm       Offset 4:80 dbm 288W 100 Hz         a.m.       30:d5       SWT       255 mm 4 VBW 200 Hz       Mode Sweep         10:d8m       1       1       1       1       1         10:d8m       1       1       1       1       1       1         10:d8m       1       1       1       1       1       1       1         10:d8m       10:d8m       1	2. N2[1] 12 14 14 14 14 14 14 14 14 14 14	26.5 GHz
1       Frequency Sweep         20       dim         10       80         10       80         -10       80         -10       90	2. N2[1] 12 14 14 14 14 14 14 14 14 14 14	26.5 GHz
10 % - 40 4 4 4 4 5 2001 pts 2.55 GHz/	2. N2[1] 12 14 14 14 14 14 14 14 14 14 14	26.5 GHz
0 880	Jacoba de Referencia de la del	26.5 GHz
-10 dan (1 - 13 500 dan (1 - 13 500 dan (1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		26.5 GHz
-10 dan (1 - 13 500 dan (1 - 13 500 dan (1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		26.5 GHz
-20 dan		26.5 GHz ₹ MILTING
-20 dan		ula stat dag 26.5 GHz ∓ matrices
-30 dan -0 dan -0 dan -0 dan -0 dan -10 dan		
-10 das		26.5 GHz
-50 das -50 das -50 das -10 das -10 GHz 1.0 GHz 52001 pts 2.55 GHz/ Micro 14:18:18 28.03.2022		26.5 GHz
-50 das -50 das -50 das -10 das -10 GHz 1.0 GHz 52001 pts 2.55 GHz/ Micro 14:18:18 28.03.2022		26.5 GHz
-70 dbs         -70 dbs <t< td=""><td></td><td>26.5 GHz</td></t<>		26.5 GHz
1.0 GHz 52001 pts 2.55 GHz/ 14:18:18 28.03.2022	rsuring,	26.5 GHz
1.0 GHz 52001 pts 2.55 GHz/ 14:18:18 28.03.2022	rsuring), .	26.5 GHz 301777
1.0 GHz 52001 pts 2.55 GHz/ 14:18:18 28.03.2022	ISLIGING,	26.5 GHz
Meest 14:18:18 28.03.2022	sturing	26.5 GHz 39877.2022 4438277
2DH5_Ant 2_2402_0~Reference		
2DH5_Ant 2_2402_0~Reference		
	Э	
MultiView Spectrum RefLevel 30.00 dbm Offset 4.80 db = RBW 100 kHz = Att 30.db SWT 1.01 ms = VBW 300 kHz Mode Sweep   Irecurry Sweep		Count 10/10 1150: Vor
	MI[1] 2.40	7.31 dBm 11 839 70 GHz
20 dłm		
10 diter		
0 080	M	
-10 dem		<u> </u>
-20 Gan-		
-30 dBm		
-40 @br-		
-50 den		
-50 dbm-		
-gu dear-		
CF 2.402 GHz 1001 pts 150.0 kHz/		ipan 1.5 MHz
Heast	St	- 101.003.20229 A.8/2022/201

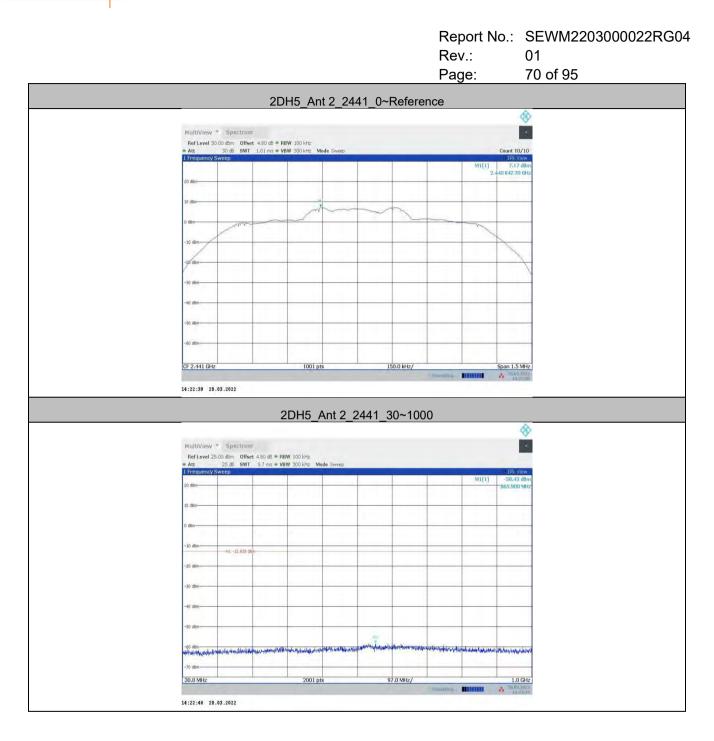


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic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

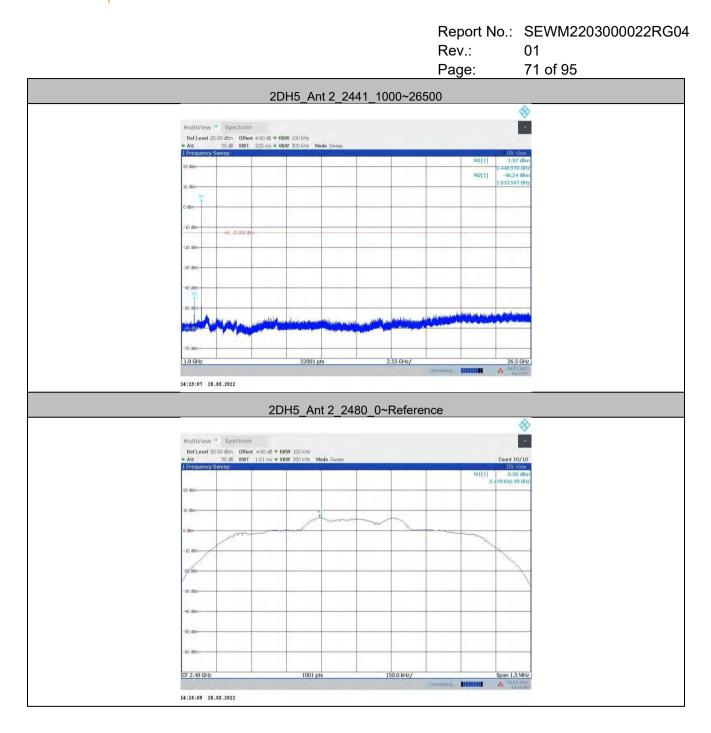
South of No.6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Piot Free Trade Zone 215000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区满胜路1号的6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com



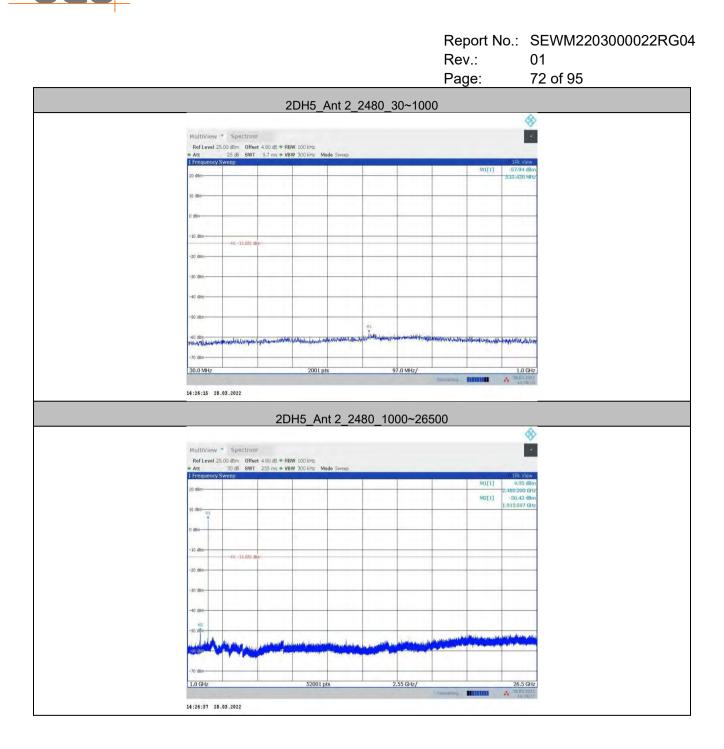














Report No.: SEWM2203000022RG04 Rev.: 01 Page: 73 of 95 3DH5 Ant 2 2402 0~Reference 3 MultiView . Spectrum . 
 Ref Level
 30.00 dBm
 Offset
 4.80 dB
 RBW
 100 kHz

 Att
 30 dB
 SWT
 1.01 ms
 VBW
 300 kHz
 Mode
 Count 10/10 MI[1] 7.40 dB CF 2.402 GH 1001 pt 150.0 kHz/ Span 1.5 MHz 14:27:48 28.03.2022 3DH5 Ant 2 2402 30~1000 \$ MultiView . Spectrum 
 Ref Level 25.00 dBm
 Offset 4.80 dB
 RBW 100 kHz

 Att
 25 dB
 SWT
 9.7 ms
 VBW 300 kHz
 Mada المارية الداليات الري 97.0 MHz/ 2001 pt 1.0 GHz 30.0 MHz 14:27:55 28.03.2022

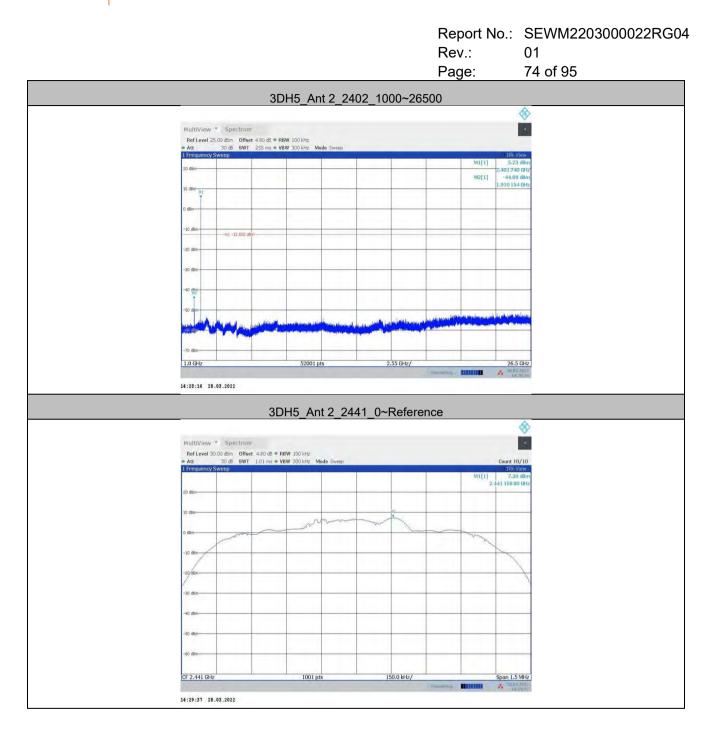


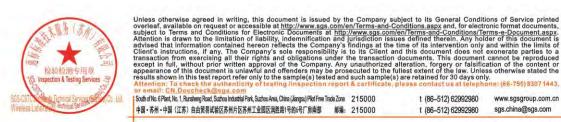
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unawiful 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) are retained for 30 days only. Attention: To check the authenticity of testing Jinspection report & certificate, phase contact us at telephore: (66-755) 5307 1443, ne: (86-755) 8307 1443.

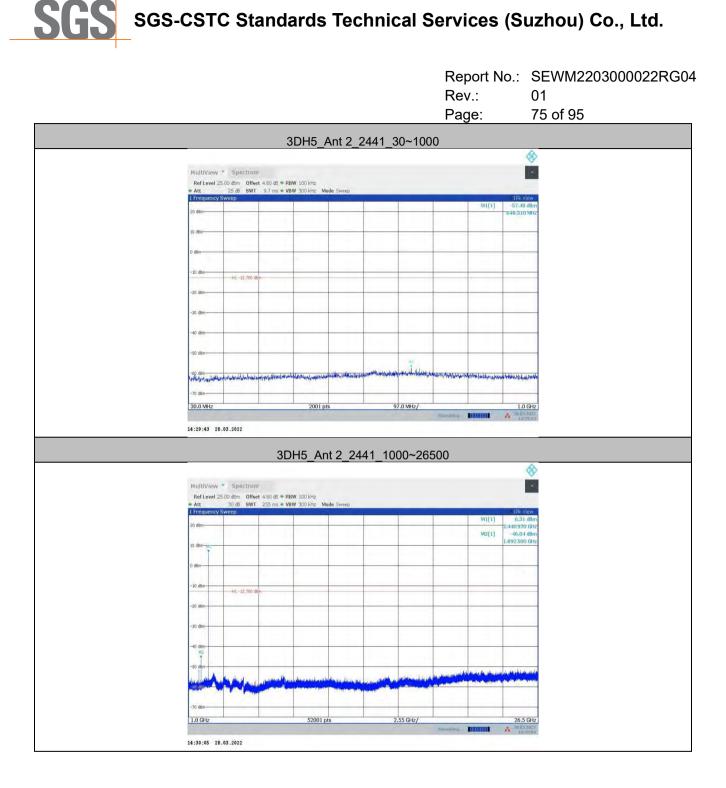
South of No. 6 Plant, No. 1, Runsheno Road, Suzhou Industrial Park, Suzhou Area, China (Jlanosu) Pilot Free Trade Zone 215000 中国•苏州•中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路(号的6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980

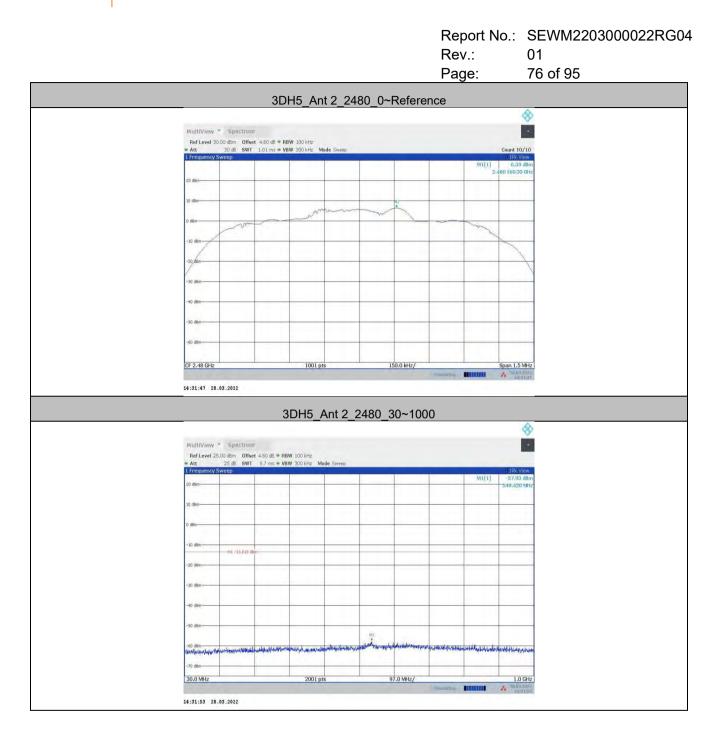
sgs.china@sgs.com

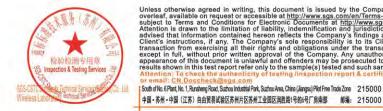












Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unawiful 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) are retained for 30 days only. Attention: To check the authenticity of testing Jinspection report & certificate, phase contact us at telephore: (66-755) 5307 1443, ne: (86-755) 8307 1443.

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(号的6号厂房南部 邮编: 215000

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

sgs.china@sgs.com

Member of the SGS Group (SGS SA)

t (86-512) 62992980

			Report N Rev.:	o.: SEWM2203000022RG04 01
			Page:	77 of 95
3	DH5_Ant 2_248	1 1000~265	00	
		0_1000 200	00	<u>A</u>
	RBW 100 kHz VBW 300 kHz Mode Sweep			
1 Frequency Sweep			M1[1]	4.64 dBm
20 dim-			M2[1]	2:480/200 GH2 -46:93 dBm 1:907 702 GHz
10 den				
- 10 den-				
-20 dam				
-10 dan				
-40 dem				
-50 d9m				TA WAY ON
and the second		and the second sec		
-70 dbm				
1.0 GHz	52001 pts	2.55 GHz/	Magsuring.	26.5 GHz
14:32:15 28.03.2022				



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx. Attention is drawn to the limitation of liability, indexemification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company, any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-756) 83071443,

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Anea, China (Jiangsu) Pilot Free Trade Zone 2150000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 78 of 95

#### Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
		2402	2.88	3.75	76.80	1.15
DH5	Ant 2	2441	2.89	3.76	76.86	1.14
		2480	2.89	3.76	76.86	1.14
		2402	2.89	3.75	77.07	1.13
2DH5	Ant 2	2441	2.88	3.75	76.80	1.15
		2480	2.88	3.75	76.80	1.15
		2402	2.89	3.75	77.07	1.13
3DH5	Ant 2	2441	2.89	3.76	76.86	1.14
		2480	2.89	3.76	76.86	1.14



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

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Suchou Anea, 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.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 79 of 95

#### DH5 Ant 2 2402 \$ \* MultiView . Spectrum Ref Level 20.00 dBm Offset 4.80 dB RBW 1 MHz Att 30 dB SWT 10 ms VBW 1 MHz SGL Count 1/1 - 411 M1[1] 8.37 d 3.760 00 0.10 2.880.00 TR5 2.400 Will Marin When benjus 2.402 GH 1001 pts 1.0 ms/ X-Value 3.76 ms 2.88 ms 3.75 ms V Value 8.37 dBm -0.10 dB -0.02 dB D1 MI MI 14:11:58 28.03.2022 DH5 Ant 2 2441 MultiView Spectrum \* Ref Level 20.00 dBm Offset 4.80 dB RBW 1 MHz Att 30 dB SWT 10 ms VBW 1 MHz SGL Count 1/1 = Att M1[1] 6.84 dE 3.750 00 r TRG 2.400 AN WEAR WIN WARM 2.441 GH 1001 pts 1.0 ms/ X-Value 3.75 ms 2.89 ms 3.76 ms V Value 6.84 dBm 0.80 dB 1.46 dB MI \* 14:14:57 28.03.2022

#### **Test Graphs**



Report No.: SEWM2203000022RG04 Rev.: 01 Page: 80 of 95 DH5 Ant 2 2480 \$ MultiView Spectrum \* 
 Ref Level 20 00 dBm
 Offset 4.80 dB = RBW 1 MHz

 Att
 30 dB = SWT
 10 ms = VBW 1 MHz
 SGL Count 1/1 3.750 1 70 0 2,890.00 -TRG 1.500 W LASSIN W they when the F 2.48 GHz 1001 pts 1.0 ms/ Y Value 5.15 dBm 1.70 dB 2.30 dB 3.75 ms 2.89 ms 3.76 ms M1 D1 MI 14:17:02 28.03.2022 2DH5 Ant 2 2402 \$ MultiView • Spectrum . 
 Ref Level
 20.00 dBm
 Offset
 4.80 dB
 RBW
 1 MHz

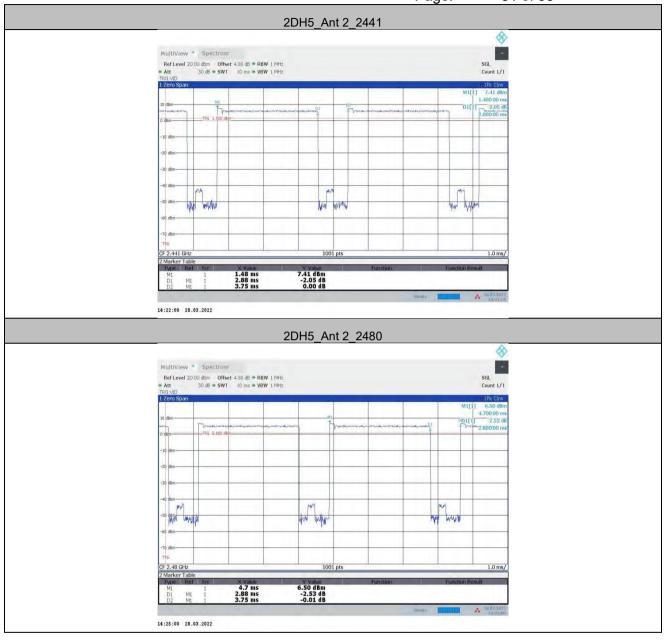
 Att
 30 dB
 SWT
 10 ms
 VBW
 1 MHz
 SGL Count 1/1 M1[1] 7.49 dt 2.4 2.89 0 Jorns TRG 1.600 hught Any property whitehh with the 2,402 GH 1.0 ms/ 1001 pts V-Value 7.49 dBm -2.89 dB -1.92 dB 2.48 ms 2.89 ms 3.75 ms M 14:19:33 28.03.2022



 Report No.:
 SEWM2203000022RG04

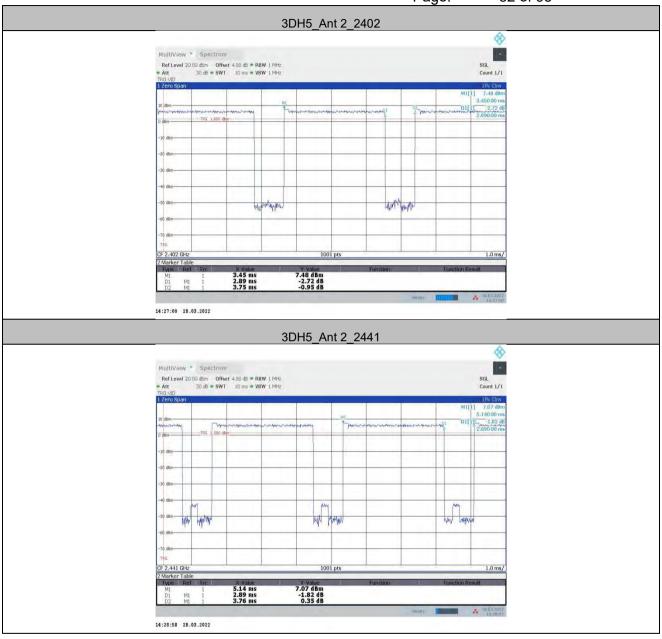
 Rev.:
 01

 Page:
 81 of 95



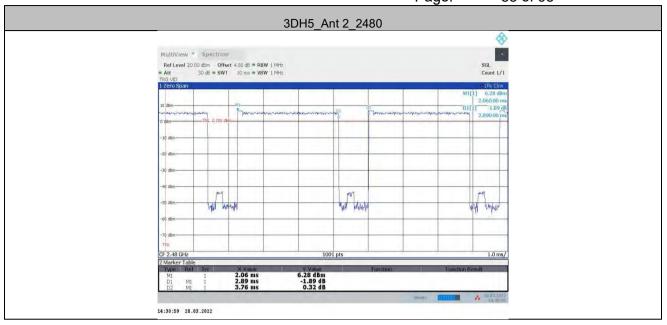


Report No.: SEWM2203000022RG04 Rev.: 01 Page: 82 of 95





Report No.: SEWM2203000022RG04 Rev.: 01 Page: 83 of 95





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u> (for electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u>). The terms and Conditions for Terms and Conditions for the Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u>. There are the terms and Conditions for the terms of the intervention of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extend for 30 days only. Attention: <u>Check the authenticitry of testing Inspection report & certificate, places contact us at telephone</u> (66-755) 5307 1443,

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

t (86-512) 62992980

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

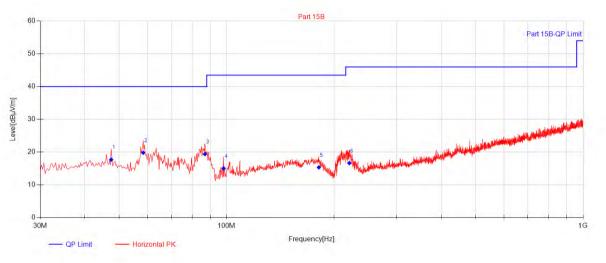
 Page:
 84 of 95

#### **Radiated Spurious Emissions**

Radiated emission below 1GHz

Worst case Mode:

#### GFSK\_LF



Final	Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.46	40.26	-22.58	17.68	40.00	22.32	218	300	Horizontal
2	58.3725	43.28	-23.48	19.80	40.00	20.20	233	293	Horizontal
3	86.9875	46.18	-26.79	19.39	40.00	20.61	203	156	Horizontal
4	98.1425	40.89	-25.87	15.02	43.50	28.48	265	326	Horizontal
5	181.5625	36.28	-20.95	15.33	43.50	28.17	288	348	Horizontal
6	221.09	40.87	-24.25	16.62	46.00	29.38	194	12	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.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unawiful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing/Inspection report & certificate, plasse contact us at telephone: (66-755) 5307 1443.

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

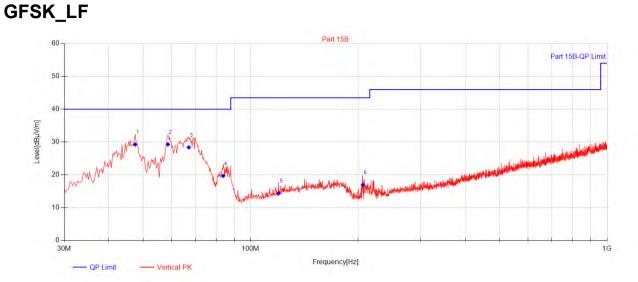
t (86-512) 62992980

sgs.china@sgs.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 85 of 95



Final	Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.46	51.81	-22.58	29.23	40.00	10.77	254	195	Vertical
2	58.615	52.78	-23.50	29.28	40.00	10.72	184	195	Vertical
3	67.1025	53.48	-25.11	28.37	40.00	11.63	172	51	Vertical
4	83.835	46.28	-26.59	19.69	40.00	20.31	236	333	Vertical
5	119.9675	38.28	-23.91	14.37	43.50	29.13	291	309	Vertical
6	206.7825	41.87	-24.93	16.94	43.50	26.56	180	75	Vertical



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions,aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions</u>. At the time of the intervention of the second document as the time of the intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawiful and offenders may be prosecuted to the fullest extend for 30 days only. Attention is charks the equivalent terms and the sample(s) are retained for 30 days only.

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Anea, China (Jiangsu) Pilot Free Trade Zone 2150000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sgsgroup.com.cn

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

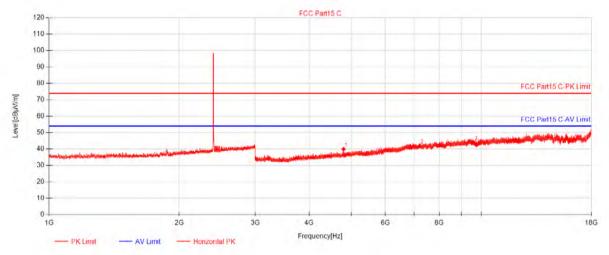
 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 86 of 95

#### Transmitter emission above 1GHz

#### GFSK\_Channel 00



Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4803.5	53.12	-13.21	39.91	74.00	34.09	215	235	Horizontal			
2	4803.5	-	-	15.06	54.00	38.94	-	-	Horizontal			
3	7206.0000	48.73	-6.84	41.89	74.00	32.11	188	251	Horizontal			
4	7206.0000	-	-	17.04	54.00	36.96	-	-	Horizontal			
5	9608.0000	45.21	-1.22	43.99	74.00	30.01	233	210	Horizontal			
6	9608.0000	-	-	19.14	54.00	34.86	-	-	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.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing/Inspection report & certificate, plazes contact us at telephore: (66-755) 5307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Anea, China (Jiangsu) Pilot Free Trade Zone 2150000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sasaroup.com.cn

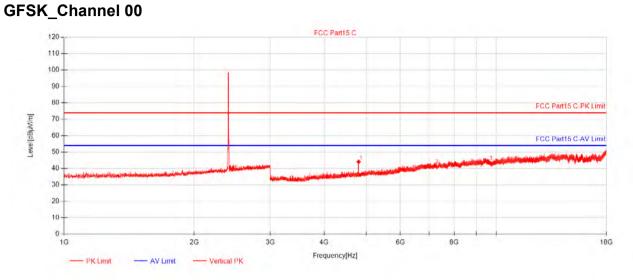
sgs.china@sgs.com

t (86-512) 62992980

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 87 of 95



Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4804.0000	57.35	-13.21	44.14	74.00	29.86	284	214	Vertical			
2	4804.0000	-	-	19.29	54.00	34.71	-	-	Vertical			
3	7206.0000	48.56	-6.84	41.72	74.00	32.28	256	201	Vertical			
4	7206.0000	-	-	16.87	54.00	37.13	-	-	Vertical			
5	9608.0000	44.96	-1.22	43.74	74.00	30.26	172	199	Vertical			
6	9608.0000	-	-	18.89	54.00	35.11	-	-	Vertical			



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Documents as subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Document as the titution is drawn to the limitation of liability, indemnification and jurigdiction issues defined therein. Any holder of this document is advised that information contained hereion reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: <u>Check the authenticity of testing Interport & certificate, places contact us at tellephone</u>: (66-755) 5307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Anea, China (Jiangsu) Pilot Free Trade Zone 2150000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980

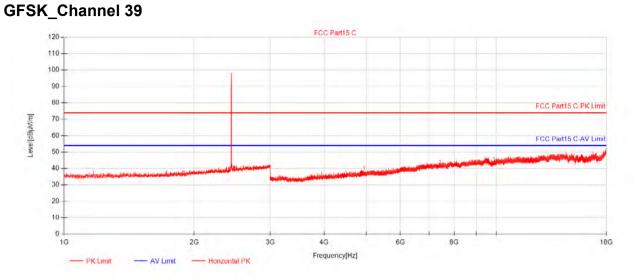
Member of the SGS Group (SGS SA)

sgs.china@sgs.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 88 of 95



Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4882.0000	50.70	-12.98	37.72	74.00	36.28	148	284	Horizontal			
2	4882.0000	-	-	12.87	54.00	41.13	-	-	Horizontal			
3	7323.0000	48.44	-7.14	41.30	74.00	32.70	195	172	Horizontal			
4	7323.0000	-	-	16.45	54.00	37.55	-	-	Horizontal			
5	9764.0000	43.93	-1.21	42.72	74.00	31.28	172	235	Horizontal			
6	9764.0000	-	-	17.87	54.00	36.13	-	-	Horizontal			



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u> (for electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u>). The terms and Conditions for Terms and Conditions for the Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u>. There are the terms and Conditions for the terms of the intervention of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extend for 30 days only. Attention: <u>Check the authenticitry of testing Inspection report & certificate, places contact us at telephone</u> (66-755) 5307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Anea, China (Jiangsu) Pilot Free Trade Zone 2150000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sgsgroup.com.cn

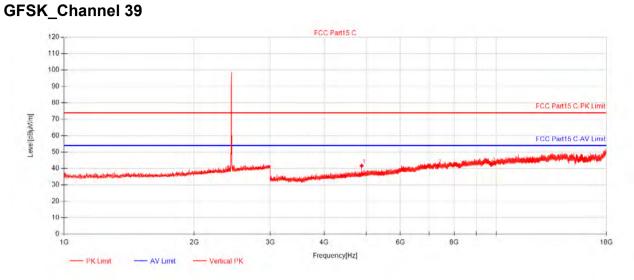
t (86-512) 62992980

sgs.china@sgs.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 89 of 95



Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4882.0000	54.66	-12.98	41.68	74.00	32.32	148	98	Vertical			
2	4882.0000	-	-	16.83	54.00	37.17	-	-	Vertical			
3	7323.0000	48.91	-7.14	41.77	74.00	32.23	195	26	Vertical			
4	7323.0000	-	-	16.92	54.00	37.08	-	-	Vertical			
5	9764.0000	43.95	-1.21	42.74	74.00	31.26	123	199	Vertical			
6	9764.0000	-	-	17.89	54.00	36.11	-	-	Vertical			



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Documents as subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Document as the titution is drawn to the limitation of liability, indemnification and jurigdiction issues defined therein. Any holder of this document is advised that information contained hereion reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: <u>Check the authenticity of testing Interport & certificate, places contact us at tellephone</u>: (66-755) 5307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Anea, China (Jiangsu) Pilot Free Trade Zone 2150000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sgsgroup.com.cn

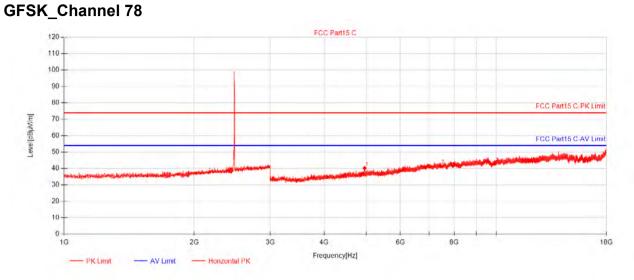
t (86-512) 62992980

sgs.china@sgs.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 90 of 95



Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960.0000	53.03	-12.83	40.20	74.00	33.80	236	299	Horizontal			
2	4960.0000	-	-	15.35	54.00	38.65	-	-	Horizontal			
3	7440.0000	48.28	-6.83	41.45	74.00	32.55	158	312	Horizontal			
4	7440.0000	-	-	16.60	54.00	37.40	-	-	Horizontal			
5	9920.0000	43.80	-0.93	42.87	74.00	31.13	174	329	Horizontal			
6	9920.0000	-	-	18.02	54.00	35.98	-	-	Horizontal			



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Documents as subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Document as the titution is drawn to the limitation of liability, indemnification and jurigdiction issues defined therein. Any holder of this document is advised that information contained hereion reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: <u>Check the authenticity of testing Interport & certificate, places contact us at tellephone</u>: (66-755) 5307 1443,

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

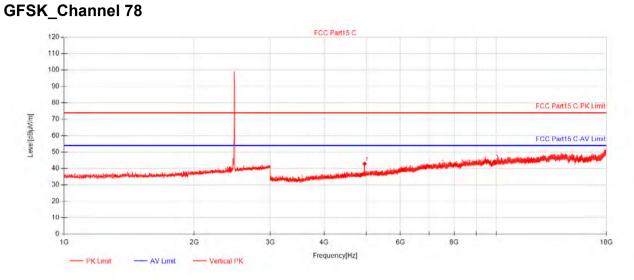
t (86-512) 62992980

sgs.china@sgs.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 91 of 95



Final	Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	55.75	-12.83	42.92	74.00	31.08	188	72	Vertical
2	4960.0000	-	-	18.07	54.00	35.93	-	-	Vertical
3	7440.0000	47.98	-6.83	41.15	74.00	32.85	254	24	Vertical
4	7440.0000	-	-	16.30	54.00	37.70	-	-	Vertical
5	9920.0000	45.26	-0.93	44.33	74.00	29.67	126	57	Vertical
6	9920.0000	-	-	19.48	54.00	34.52	-	-	Vertical



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u> (for electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u>). The terms and Conditions for Terms and Conditions for the Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions</u>. There are the terms and Conditions for the terms of the intervention of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extend for 30 days only. Attention: <u>Check the authenticitry of testing Inspection report & certificate, places contact us at telephone</u> (66-755) 5307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Anea, China (Jiangsu) Pilot Free Trade Zone 2150000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980

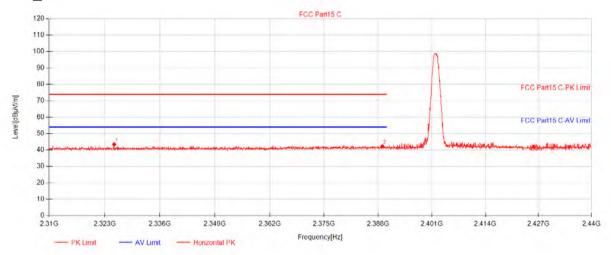
Member of the SGS Group (SGS SA)

sgs.china@sgs.com

Report No.: SEWM2203000022RG04 Rev.: 01 Page: 92 of 95

#### **Restricted bands around fundamental frequency**

#### GFSK\_Channel 00



Final	Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2325.21	40.39	3.09	43.48	74.00	30.52	158	9	Horizontal
2	2325.21	-	-	18.63	54.00	35.37	-	-	Horizontal
3	2389.04	39.25	3.07	42.32	74.00	31.68	158	9	Horizontal
4	2389.04	-	-	17.47	54.00	36.53	-	-	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.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions e: (86-755) 8307 1443.

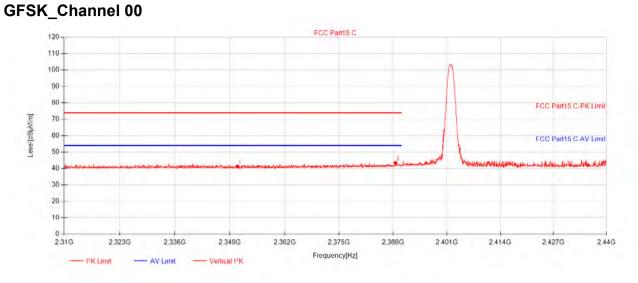
South of No. 6 Plant, No. 1, Runsheno Road, Suzhou Industrial Park, Suzhou Area, China (Jlanosu) Pilot Free Trade Zone 215000 中国・苏州・中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sasaroup.com.cn sgs.china@sgs.com

t (86-512) 62992980

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 93 of 95



Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2350.7767	38.22	3.08	41.30	74.00	32.70	199	102	Vertical			
2	2350.7767	-	-	16.45	54.00	37.55	-	-	Vertical			
3	2388.5633	40.36	3.07	43.43	74.00	30.57	199	102	Vertical			
4	2388.5633	-	-	18.58	54.00	35.42	-	-	Vertical			



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Documents as subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Document as the thory of the terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Document as advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extend for 30 days only. Attention: <u>Drack the authenticity of testing Inspection report & certificate, plazes contact us at telephone</u> (86-755) 5307 1443,

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

t (86-512) 62992980

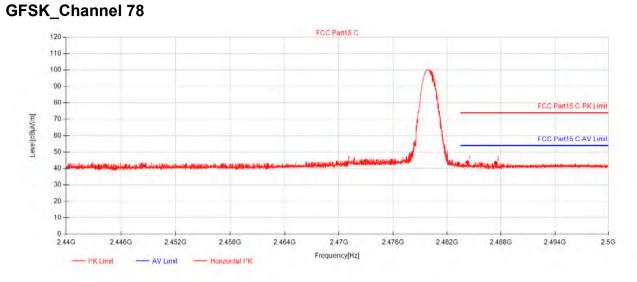
Member of the SGS Group (SGS SA)

sgs.china@sgs.com

 Report No.:
 SEWM2203000022RG04

 Rev.:
 01

 Page:
 94 of 95



Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2484.2425	40.29	3.60	43.89	74.00	30.11	188	144	Horizontal		
2	2484.2425	-	-	19.04	54.00	34.96	-	-	Horizontal		
3	2487.415	39.86	3.62	43.48	74.00	30.52	188	144	Horizontal		
4	2487.415	-	-	18.63	54.00	35.37	-	-	Horizontal		



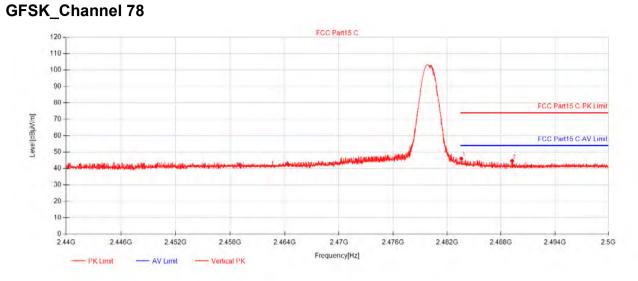
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Documents as subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Document as the thory of the terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic Document as advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extend for 30 days only. Attention: <u>Drack the authenticity of testing Inspection report & certificate, plazes contact us at telephone</u> (86-755) 5307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Stuchou Industrial Park, Stuchou Anea, China (Jiangsu) Pilot Free Trade Zone 2150000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980

sgs.china@sgs.com

Report No.: SEWM2203000022RG04 Rev.: 01 Page: 95 of 95



Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2483.575	42.46	3.60	46.06	74.00	27.94	222	173	Vertical		
2	2483.575	-	-	21.21	54.00	32.79	-	-	Vertical		
3	2489.2375	41.04	3.63	44.67	74.00	29.33	222	173	Vertical		
4	2489.2375	-	-	19.82	54.00	34.18	-	-	Vertical		

The End



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions aspx and, for electronic Documents as the titut of the service printed documents, subject to Terms and Conditions for Terms cand Conditions or Telectronic Documents and the titut of the service printed documents and the titut of the service printed documents and the titut of the service printed document as the titut of the service printed document as the titut of the service printed document as the titut of the service printed control of the service printed 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 document is unawriting and the company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unawritian and forefores may be prosecuted to the fullest extend to the law. Unless otherwise stated the results shown in this test report freer only to the sample(s) tested and such sample(s) are retained for 30 days only. e: (86-755) 8307 1443.

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

t (86-512) 62992980