

Report No.: ZR/2019/C002603 Page: 1 of 73

FCC TEST REPORT

Application No:	ZR/2019/C0026
Applicant:	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
Address of Applicant	NO. 18 HaiBin Road, WuSha village, Chang An Town, DongGuan City, Guangdong,China
Manufacturer:	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
Address of Factory	NO. 18 HaiBin Road, WuSha village, Chang An Town, DongGuan City, Guangdong,China
EUT Description:	MOBILE PHONE
Model No.:	CPH2009
Trade Mark:	OPPO
FCC ID:	R9C-CPH2009
Standards:	47 CFR FCC Part 2, Subpart J
	47 CFR Part 15, Subpart C
Test Method	KDB558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10 (2013)
Date of Receipt:	2019/12/23
Date of Test:	2019/12/23 to 2020/2/29
Date of Issue:	2020/2/29
Test Result:	PASS *

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

Authorized Signature:

*

Derde yang

Derek Yang Wireless Laboratory Manager



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) test extent and sub angles() are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: **CN_Doccheck@cssc.com**



Report No.: ZR/2019/C002603 Page: 2 of 73

1 Version

Revision Record							
Version	Chapter	Date	Modifier	Remark			
00		2020/2/29		Original			

Authorized for issue by:		
Tested By	Mike Mu	2020/2/29
	(Mike Hu) /Project Engineer	Date
Checked By	David Chen	2020/2/29
	(David Chen) /Reviewer	Date



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) test retained, no 30 days on). Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)8307 1443, or email: CN.Doccheck@ass.com

Report No.: ZR/2019/C002603 Page: 3 of 73

2 Test Summary

SG

Test Item	Test Requirement	Test method	Test Result	Result
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	Clause 4.10	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days on).



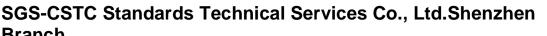
Report No.: ZR/2019/C002603 Page: 4 of 73

Contents

1	VERSION	2
2	TEST SUMMARY	
3	GENERAL INFORMATION	5
3		
	3.1 CLIENT INFORMATION	
	3.2 TEST LOCATION	
	3.3 TEST FACILITY	
	3.4 GENERAL DESCRIPTION OF EUT	
	 3.5 TEST ENVIRONMENT 3.6 DESCRIPTION OF SUPPORT UNITS 	
4	TEST RESULTS AND MEASUREMENT DATA	
	4.1 ANTENNA REQUIREMENT	
	4.2 AC Power Line Conducted Emissions	9
	4.3 DUTY CYCLE	
	4.3.1 Test Results	
	4.3.1 Test Plots	
	4.4 CONDUCTED OUTPUT POWER	
	4.4.1 Test Results	
	4.4.2 Test plots:	
	4.5 DTS (6 dB) BANDWIDTH & 99% OCCUPIED BANDWIDTH	
	4.5.1 Test Results	
	4.5.2 Test plots	
	4.6 POWER SPECTRAL DENSITY	
	4.6.1 Test Results	
	4.6.2 Test plots	
	4.7 BAND-EDGE FOR RF CONDUCTED EMISSIONS	
	4.7.1 Test plots	
	4.8 Spurious RF Conducted Emissions	
	4.8.1 Test plots:4.9 RADIATED SPURIOUS EMISSION	
	4.9 RADIATED SPORIOUS EMISSION 4.9.1 Radiated Emission below 1GHz	
	4.9.1 Radiated Emission below 1GHz 4.9.2 Transmitter Emission above 1GHz	
	4.10 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	
	4.10 RESTRICTED BANDS AROUND FUNDAMENTAL PREQUENCT	
5		
6		
7	PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	73



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format document, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format document, aspx attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction form 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 used the fuellest sectend 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 linspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com



Report No.: ZR/2019/C002603 Page: 5 of 73

3 General Information

3.1 Client Information

Applicant:	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
Address of Applicant:	NO. 18 HaiBin Road, WuSha village, Chang An Town, DongGuan City, Guangdong,China
Manufacturer:	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
Address of Manufacturer:	NO. 18 HaiBin Road, WuSha village, Chang An Town, DongGuan City, Guangdong,China

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Telephone:	+86 (0) 755 2601 2053
Fax:	+86 (0) 755 2671 0594
E-mail:	ee.shenzhen@sgs.com

3.3 Test Facility

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

• CNAS (No. CNAS L2929)

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC – Designation Number: CN1178

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

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

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.



-	Unless otherwise agreed in writing, this document is issued overleaf, available on request or accessible at <u>http://www.ssg.</u> subject to Terms and Conditions for Electronic Documents at Attention is drawn to the limitation of liability, indemnification advised that information contained hereon reflects the Compa Client's instructions, if any. The Company's sole responsibili transaction from exercising all their rights and obligations un except in full, without prior written approval of the Company, appearance of this document is unlawful and offenders may be results shown in this test report refer only to the sample(s) teste Attention: To check the authenticity of testing inspection	com/en/Tern http://www and jurisdi iny's finding ty is to its der the tra Any unau prosecute d and such	ms-and-Conditions. isgs.com/en/Terms- ction issues define gs at the time of its Client and this do insaction document thorized alteration, d to the fullest exte sample(s) are retain	aspx and, for electron and-Conditions/Term d therein. Any holder is intervention only an iccument does not ex ts. This document ca forgery or falsificati int of the law. Unless ned for 30 days only.	ic format documents, <u>see-Document.aspx</u> . of this document is d within the limits of onerate parties to a innot be reproduced on of the content or otherwise stated the	
Co.,Ltd.	or email: <u>CN.Doccheck@sgs.com</u> No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China		t (86–755) 26012053	the second succession of the	www.sgsgroup.com.cn	
atory.	中国・深圳・科技园中区M-10栋一号厂房 邮编:	518057	t (86-755) 26012053	f (86-755) 26710594	sgs.china@sgs.com	

Report No.: ZR/2019/C002603 Page: 6 of 73

3.4 General Description of EUT

	•
EUT Description:	MOBILE PHONE
Model No.:	CPH2009
Trade Mark:	OPPO
Hardware Version:	11
Software Version:	ColorOS V7
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.
Bluetooth Version:	Bluetooth V5.1 LE
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	⊠ Portable Device, ⊡Module
Antenna Type:	External, 🛛 Integrated
Antenna Gain:	-3.0dBi
Power Supply:	AC/DC Adapter; Battery; PoE:; Other:

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

Remark:

S

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

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz



Unless otherwise agreed in writing, this document is is overleaf, available on request or accessible at http://www subject to Terms and Conditions for Electronic Docume Attention is drawn to the limitation of liability, indemnific advised that information contained hereon reflects the C Client's instructions, if any. The Company's sole respo- transaction from exercising all their rights and obligatic except in full, without prior written approval of the Con appearance of this document is unlawful and offenders n results shown in this test report refer only to the sample(s). Attention: To check the authenticity of testing /inspec or email: CN.Doccheck@sac.com	v.sgs.com/en/To nts at <u>http://wv</u> cation and juris Company's find nsibility is to i ons under the f npany. Any una nay be prosecu) tested and suc	arms-and-Conditions. ww.sgs.com/en/Terms. diction issues define ings at the time of its ts Client and this do ransaction documen uthorized alteration, ted to the fullest exte h sample(s) are retai	aspx and, for electror -and-Conditions/Tern ad therein. Any holde s intervention only ar ocument does not e> ts. This document c. , forgery or falsificat ant of the law. Unless ined for 30 days only.	nic format documents, ns-e-Document.aspx. r of this document is nd within the limits of conerate parties to a annot be reproduced ion of the content or otherwise stated the
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen	, China 518057	t (86-755) 26012053	f (86-755) 26710594	www.sgsgroup.com.cn
中国 · 深圳 · 科技园中区M-10栋一号厂房	邮编: 518057	t (86-755) 26012053	f (86-755) 26710594	sgs.china@sgs.com



Report No.: ZR/2019/C002603 Page: 7 of 73

3.5 Test Environment

Operating Environment				
Temperature:	25.0 °C			
Humidity:	50 % RH			
Atmospheric Pressure:	101.32 KPa			

3.6 Description of Support Units

The EUT has been tested independent unit.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <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-e-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is content to enter or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)8307 1443,

Report No.: ZR/2019/C002603 Page: 8 of 73

4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
o tanda a roquironioni	

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 on the main PCB and no consideration of replacement. The best case gain of the antenna is -3.0dBi.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <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-enDocument.aspx</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) test retained, plase contact us at telephone: (86-755)8307 1443, or censiti (10). Duccheck the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)8307 1443, or censiti (10). Duccheck for some

SG

Technical Set

aboratory.

SGS-CSTC Standards Technical Services Co., Ltd.Shenzhen Branch

Report No.: ZR/2019/C002603 Page: 9 of 73

Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
	Frequency range (MHz)	Erequency range (MHz)				
	Trequency range (initz)	Quasi-peak	Average			
Linnite	0.15-0.5	66 to 56*	56 to 46*			
Limit:	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarith	nm of the frequency.				
Test Procedure:	 The mains terminal disturbance voltage test was conducted in a shielded room. 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. 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. 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 was bonded to the horizontal 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. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to 					
Test Setup:	Shielding Room		at Receiver			
Test Mode:	Transmitting with GFSK mod	Transmitting with GFSK modulation.				
於有限公司 中国 检验检测专用章 Rspection & Testing Services	Unless otherwise agreed in writing, this docum overleaf, available on request or accessible at <u>ht</u> subject to Terms and Conditions for Electronic Attention is drawn to the limitation of liability, in advised that information contained hereon reflec Client's instructions, if any. The Company's so transaction from exercising all their rights and except in full, without prior written approval of appearance of this document is unlawful and offi results shown in this test report refer only to the sa Attention: To check the authenticity of testing or email: CN.Doccheck@egs.com	ent is issued by the Company subject to its Gen tp://www.sgs.com/en/Terms-and-Conditions.aspx and Documents at http://www.sgs.com/en/Terms-and-C demnification and jurisdiction issues defined there ts the Company's findings at the time of its intery responsibility is to its Client and this documer obligations under the transaction documents. Thi the Company. Any unauthorized alteration, forger anders may be prosecuted to the fullest extent of it ample(s) tested and such sample(s) are retained for /inspection report & certificate, please contact of	eral Conditions of Service printed nd, for electronic format documents, <u>onditions/Terms-e-Document.aspx</u> . sin. Any holder of this document is ention only and within the limits of it does not exonerate parties to a s document cannot be reproduced y or faisification of the content or the law. Unless otherwise stated the 30 days only. us at telephone: (86-755) 8307 1443,			

AC Power Line Conducted Emissions 4.2

Report No.: ZR/2019/C002603 Page: 10 of 73

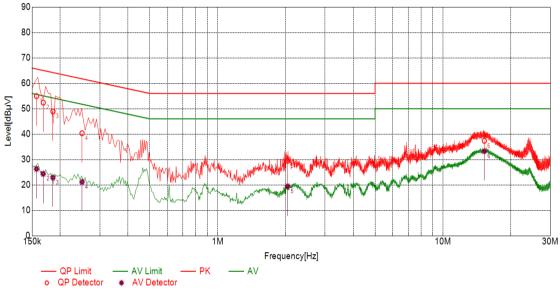
	Charge +Transmitting mode.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

Measurement Data

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

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

Live line:



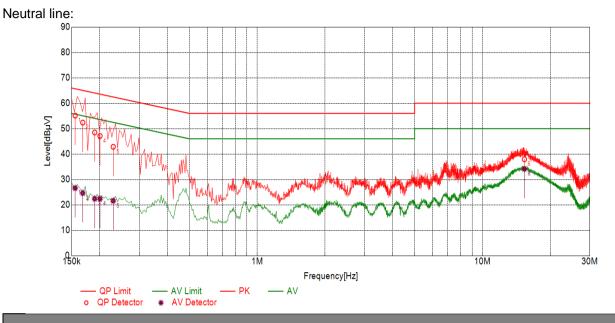
Final I	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Туре
1	0.1570	10.10	54.96	65.62	10.66	26.31	55.62	29.31	L
2	0.1682	10.10	52.40	65.05	12.65	24.37	55.05	30.68	L
3	0.1857	10.10	48.93	64.22	15.29	22.94	54.22	31.28	L
4	0.2500	10.10	40.36	61.76	21.40	21.16	51.76	30.60	L
5	2.0448	10.10	29.47	56.00	26.53	19.39	46.00	26.61	L
6	15.2627	10.11	37.37	60.00	22.63	33.30	50.00	16.70	L



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 <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Cond



Report No.: ZR/2019/C002603 Page: 11 of 73



Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Туре
1	0.1556	10.10	55.14	65.70	10.56	26.61	55.70	29.09	Ν
2	0.1682	10.10	52.38	65.05	12.67	24.62	55.05	30.43	Ν
3	0.1901	10.10	48.48	64.03	15.55	22.39	54.03	31.64	Ν
4	0.2006	10.10	47.11	63.59	16.48	22.39	53.59	31.20	Ν
5	0.2296	10.10	42.86	62.46	19.60	21.60	52.46	30.86	Ν
6	15.3590	10.11	37.95	60.00	22.05	34.13	50.00	15.87	Ν

Remarks:

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



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



Report No.: ZR/2019/C002603 Page: 12 of 73

4.3 Duty Cycle

4.3.1	Test Results	
Test Mode	TX Freq. [MHz]	Duty cycle [%]
BLE 1M	CH0, CH19, CH39	61.60
BLE 2M	CH0, CH19, CH39	32.00

4.3.1 Test Plots

4.3.1.1 BLE 1M

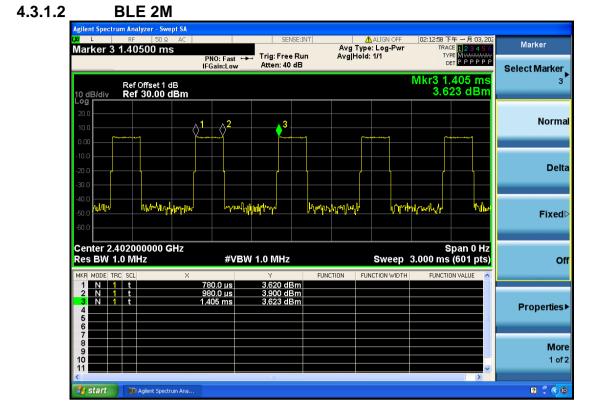
	- Swept SA 50 Ω AC	SENSE:INT	ALIGN OFF	02:12:21 下午 一月 03, 202	
arker 3 1.53000			Avg Type: Log-Pwr Avg Hold: 1/1	TRACE 123456 TYPE MWWWWW DET PPPPP	Peak Search
Ref Offse dB/div Ref 30.0	t1dB			Mkr3 1.530 ms 3.829 dBm	Next Pea
	1 	2			Next Pk Righ
					Next Pk Le
0.0 0.0 0.0	hittoria.	Untra	Wypun A	L Aller fred	Marker Del
enter 2.40200000 es BW 1.0 MHz	#VBI		Sweep :	Span 0 Hz 3.000 ms (601 pts)	Mkr→C
1 N 1 t 2 N 1 t 3 N 1 t 4	905.0 μs 1.290 ms 1.530 ms	3.828 dBm 3.907 dBm 3.829 dBm			Mkr→RefL
5 6					
				 ►	Mor 1 of



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-e-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is content to enter 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) test retainton, forgery or faisification only. Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755)8307 1443, recommit (J) Doccheckforss comp.



Report No.: ZR/2019/C002603 Page: 13 of 73





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days on).



Report No.: ZR/2019/C002603 Page: 14 of 73

Test Requirement: 47 CFR Part 15C Section 15.247 (b)(3) Test Method: ANSI C63.10 :2013 Section 11.9.1.1 Spectrum Analyzer E.U.T 6 Test Setup: **Non-Conducted** Table **Ground Reference Plane** Limit: 30dBm Test Mode: Transmitting with GFSK modulation. Instruments Used: Refer to section 5.10 for details. **Test Results:** Pass

4.4 Conducted Output Power

4.4.1 **Test Results** Measurement Data of Average Power

	Jack Chrone Bala Chrone State C					
	GFSK 1M mode					
Test channel	Average Output Power (dBm)	Result				
Lowest	4.34	Report purpose only				
Middle	4.61	Report purpose only				
Highest	5.06	Report purpose only				

GFSK 2M mode					
Test channel	Average Output Power (dBm)	Result			
Lowest	3.96	Report purpose only			
Middle	3.89	Report purpose only			
Highest	4.02	Report purpose only			



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) test reation, forgery or faisification only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or certific IN Doccheck/#OSDS.com.

Report No.: ZR/2019/C002603 Page: 15 of 73

Measurement Data of Peak Power:

GFSK 1M mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	5.25	30.00	Pass			
Middle	5.38	30.00	Pass			
Highest	5.72	30.00	Pass			

GFSK 2M mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	4.23	30.00	Pass			
Middle	4.91	30.00	Pass			
Highest	5.70	30.00	Pass			

4.4.2 Test plots:

4.4.2.1 GFSK 1M_Lowest Channel

Agilent Spectrum Analyzer - Swept SA				
04 L RF 50Ω AC Marker 1 2.402025000000	PNO: Fast 🛶 Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 100/100	02:14:00 下午 一月 03,202 TRACE 123456 TYPE MUMANAN DET P P P P P P	Peak Search
Ref Offset 1 dB 10 dB/div Ref 30.00 dBm	IFGain:Low Atten: 40 dB	Mkr1	2.402 025 GHz 5.249 dBm	NextPeak
20.0 10.0 0.00	11			Next Pk Right
-10.0				Next Pk Lef
-40.0				Marker Delta
Center 2.402000 GHz #Res BW 3.0 MHz MKR MODE TRC SCL ×	#VBW 8.0 MHz	#Sweep	Span 15.00 MHz 3.000 ms (601 pts)	Mkr→CF
2 3 4 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5	2025 GHz 5.249 dBm		3	Mkr→RefLv
7 8 9 9 10 11 11			×	More 1 of 2
Start 🕅 Agilenk Spectrum Ana				Q . (0



检验检测专用章 Rispection & Testing Services SGS-CST Standards Technical Services Co.,Ltd. Shenzhen Branch And Services Laboratory.

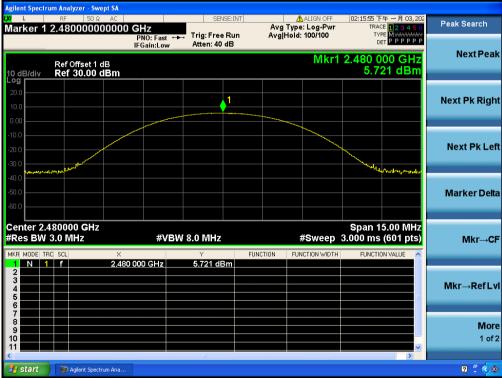
Report No.: ZR/2019/C002603 Page: 16 of 73

4.4.2.2 GFSK 1M_Middle Channel

02:14:36 下午 一月 03,20 TRACE 12345(TYPE Minimum ALIGN OFF Avg Type: Log-Pwr Avg|Hold: 100/100 Peak Search Marker 1 2.439900000000 GHz Trig: Free Run TYPE DET PPPPP PNO: Fast • IFGain:Low Atten: 40 dB Next Peak Mkr1 2.439 900 GHz Ref Offset 1 dB Ref 30.00 dBm 5.378 dBm 0 dB/div Next Pk Right Next Pk Left Marker Delta Center 2.440000 GHz #Res BW 3.0 MHz Span 15.00 MHz #Sweep 3.000 ms (601 pts) #VBW 8.0 MHz Mkr→CF 2,439 900 GHz 5.378 dBm N 1 f Mkr→RefLvl More 1 of 2 n : (0 start

4.4.2.3

GFSK 1M_Highest Channel



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 urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or completed and the dome and the sample(s) testing / the place testing / the sample(s) testing / the place testi



Report No.: ZR/2019/C002603 Page: 17 of 73

4.4.2.4 GFSK 2M_Lowest Channel

t Spectru lvzer Swent S 02:17:37 下午 一月 03,2 TRACE 12345 1 Peak Search Marker 1 2.402000000000 GHz Avg Type: Log-Pwr AvgIHold: 100/100 RACE 123456 TYPE MUMMUM DET P P P P P P Tria: Free Run TYPE PNO: Fast • IFGain:Low Atten: 40 dB Next Peak Mkr1 2.402 000 GHz 4.229 dBm Ref Offset 1 dB Ref 30.00 dBm 10 dB/div Next Pk Right Next Pk Left de tra a s Marker Delta Span 15.00 MHz #Sweep 3.000 ms (601 pts) Center 2.402000 GHz #Res BW 3.0 MHz #VBW 8.0 MHz Mkr→CF FUNCTION FUNCTIO 2.402 000 GHz 4.229 dBm N 1 f Mkr→RefLv More 1 of 2 8 2 00 🛃 start Agilent Sp

4.4.2.5

GFSK 2M_Middle Channel



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 urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or completed and the dome and the sample(s) testing / the place testing / the sample(s) testing / the place testi





Report No.: ZR/2019/C002603 Page: 18 of 73

4.4.2.6 GFSK 2M_Highest Channel





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, recommit (JU) Public the fully and testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, recommit this set open refer only to the sample(s) are retained for 30 days only.

> Report No.: ZR/2019/C002603 Page: 19 of 73

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

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Limit:	≥ 500 kHz
Test Mode:	Transmitting with GFSK modulation.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

4.5.1

Test Results

Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	1.03	0.67	≥500	Pass
GFSK 1M	Middle	1.03	0.67	≥500	Pass
	Highest	1.03	0.68	≥500	Pass

Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	1.99	1.14	≥500	Pass
GFSK 2M	Middle	2.00	1.15	≥500	Pass
	Highest	2.00	1.15	≥500	Pass



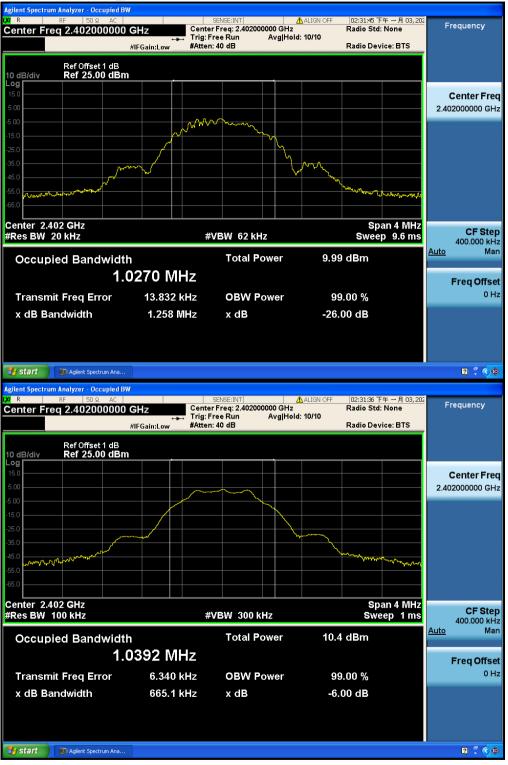
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) test reation, forgery or faisification only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or compile (3D Doccherkurs).



Report No.: ZR/2019/C002603 Page: 20 of 73

4.5.2 Test plots







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 unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@csss.com

Report No.: ZR/2019/C002603 Page: 21 of 73

4.5.2.2 GFSK 1M_Middle Channel





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 urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: ON Doccheck@ass.com

Report No.: ZR/2019/C002603 Page: 22 of 73

4.5.2.3 GFSK 1M_Highest Channel





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 urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: **CN_Doccheck@sss.com**

Report No.: ZR/2019/C002603 Page: 23 of 73







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 urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: **CN_Doccheck@sss.com**

Report No.: ZR/2019/C002603 Page: 24 of 73







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 urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@ess.com

Report No.: ZR/2019/C002603 Page: 25 of 73



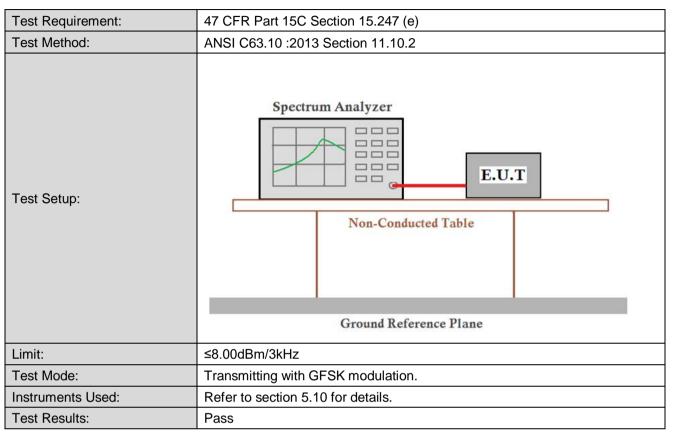




Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: ON Doccheck@ass.com

Report No.: ZR/2019/C002603 Page: 26 of 73

4.6 Power Spectral Density



4.6.1 Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-10.99	≤8.00	Pass
GFSK 1M	Middle	-10.23	≤8.00	Pass
	Highest	-9.44	≤8.00	Pass

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-13.89	≤8.00	Pass
GFSK 2M	Middle	-13.53	≤8.00	Pass
	Highest	-12.30	≤8.00	Pass



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.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 urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days on). Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or completed and the sample(s) tested and such sample(s) tested sample(s) tested and such sample(s) tested sample(s) tested and such sample(s) tested and such sample(s) tested



Report No.: ZR/2019/C002603 Page: 27 of 73

- 4.6.2 Test plots
- 4.6.2.1 GFSK 1M _Lowest Channel



4.6.2.2 GFSK 1M_Middle Channel





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 urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email. ON Deschergings and testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email.

Report No.: ZR/2019/C002603 Page: 28 of 73











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 urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: (8.0.Doccheck@egs.com)

Report No.: ZR/2019/C002603 Page: 29 of 73







GFSK 2M_Highest Channel





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 urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: (N.Doccheck@egs.com)

 No. Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057
 t (86-755) 26012053
 f (86-755) 26710594
 www.sgsgroup.com.cn

 中国 • 深圳• 科技國中区M-10栋一号厂房
 邮编: 518057
 t (86-755) 26012053
 f (86-755) 26710594
 sgs.china@sgs.com

Report No.: ZR/2019/C002603 Page: 30 of 73

4.7 Band-edge for RF Conducted Emissions

SG

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table
	Ground Reference Plane
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 Mode:	Transmitting with GFSK modulation.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	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 <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-e-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is content to enter 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) test retainton, forgery or faisification only. Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755)8307 1443, how may how the structure and there and here an



Report No.: ZR/2019/C002603 Page: 31 of 73

4.7.1 Test plots



Swent SI gilent Spectrum Analyzer 02:34:36 下午 一月 03, 202 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P B ALIGN Frequency Avg Type: Log-Pwr Avg|Hold: 10/10 Center Freg 2.392500000 GHz Trig: Free Run Atten: 40 dB PNO: Fast +++ IFGain:Low Auto Tune Mkr2 2.400 00 GHz Ref Offset 1 dB Ref 30.00 dBm -48.848 dBm 10 dB/div Log **Center Freq** \ominus 2.392500000 GHz Start Freq 2.380000000 GHz 2 Stop Freq 2.405000000 GHz Start 2.38000 GHz #Res BW 100 kHz Stop 2.40500 GHz 100.0 ms (601 pts) **CF** Step #VBW 300 kHz #Sweep 2.500000 MHz Man <u>Auto</u> FUNCTION WIDTH FUNCTION FUNCTION VALUE 3.668 dBm -48.848 dBm 2.402 00 GHz 2.400 00 GHz N 1 f N 1 f Freq Offset 3 0 Hz έ 🛃 start 🗾 💷 Agilent Spectrum Ana 8 2 00



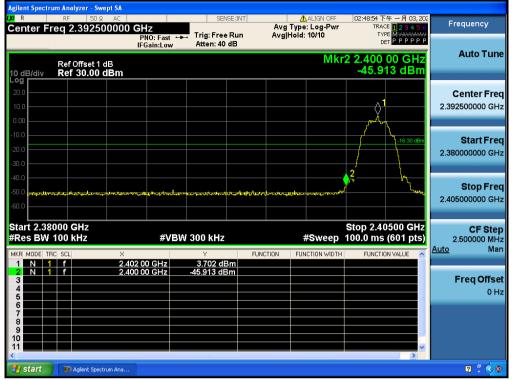


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and <u>urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention. To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, **Automical Depochedices**.</u>



Report No.: ZR/2019/C002603 Page: 32 of 73

4.7.1.3 GFSK 2M_Lowest Channel



4.7.1.4 GFSK 2M_Highest Channel



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



Report No.: ZR/2019/C002603 Page: 33 of 73

4.8 Spurious RF Conducted Emissions

SG

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
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 Mode:	Transmitting with GFSK modulation.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	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 <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-e-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is content to enter 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) test retainton, forgery or faisification only. Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755)8307 1443, how may how the structure and there and here an



Report No.: ZR/2019/C002603 Page: 34 of 73

4.8.1 Test plots:

4.8.1.1 GFSK 1M Lowest Channel

gilent Spectrum Analyzer Swent SI 02:32:27 下午 一月 03, 202 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P R ALIGN 0 Avg Type: Log-Pwr Avg|Hold:>1000/1000 Frequency Center Freg 2.402000000 GHz Trig: Free Run Atten: 30 dB PNO: Wide 😱 IFGain:Low Auto Tune Mkr1 2.402 007 GHz Ref Offset 1 dB Ref 20.00 dBm 3.674 dBm 10 dB/div **Center Freq** 2.402000000 GHz Start Freq 2.40000000 GHz Stop Freq 2.404000000 GHz **CF** Step 400.000 kHz Man Auto Freq Offset 0 Hz Stop 2.404000 GHz Sweep 1.000 ms (601 pts) Start 2.400000 GHz #Res BW 100 kHz #VBW 300 kHz 0 : <0 🛃 start Agilent Spectrum Analyzer - Swept SA 02:32:43 下午 一月 03, 202 TRACE **1 2 3 4 5** 6 TYPE MWWWWW DET P P P P P P Avg Type: Log-Pwr Avg|Hold:>50/50 Frequency Center Freq 79.500 kHz Trig: Free Run PNO: Wide 😱 IEGai n·l ma #Atten: 26 dB Auto Tune Mkr1 9.470 kHz -50.563 dBm Ref Offset 1 dB Ref 0.00 dBm dB/div **Center Freq** 79.500 kHz Start Freq 9.000 kHz Stop Freq 150.000 kHz ላሰን CF Step 14.100 kHz Man ᠧᢆᢦᢦᠬᠬᡀᠰᡗᠳ Auto ᠮ᠋᠋ᢉ᠕᠕ n.h aliman marker ly shaper and some h Freq Offset 0 Hz Stop 150.00 kHz Sweep 134.8 ms (601 pts) Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz 0 2 0 III Agilent Spectrum Ana. start

> Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: **CN_Doccheck@esps.com**





Report No.: ZR/2019/C002603 Page: 35 of 73

R	rum Analyzer - Swe RF 50 ହ /			SEM	VSE:INT	<u></u>	ALIGN OFF	02:33:05 下	午一月 03,202	Ereguerer
enter F	req 15.0750	F	PNO: Fast 🔾	Trig: Free		Avg Type Avg Hold:	e: Log-Pwr >50/50	TRAC TY	ETPPPPP	Frequency
) dB/div	Ref Offset 1 d Ref 20.00 d	в	Gain:Low	#Atten: 40	n gB			Mkr1	150 kHz 08 dBm	Auto Tu
g										Center Fr
0.0										15.075000 M
).00										
										Start Fr 150.000 k
0.0										150.000 k
0.0										Stop Fr
0.0									-26.33 dBm	30.000000 M
1										CF St
0.0 🦛 🗕										2.985000 M Auto N
0.0										
	where a start from the second					ante mare			to be an an	Freq Offs
0.0	lidered to reprind the object	V Min Wilto	leter (pays along t	alay and a state of the state o	en de la competencia de la competencia La competencia de la c		(teretelevel) (teretelevel) (teretelevel) (teretelevel)	ter the second	and the second	0
0.0										
tart 150	kHz			1				Stop 3	0.00 MHz	
tart 150 Res BW	10 kHz		#VBW	/ 30 kHz			Sweep 2		0.00 MHz 3001 pts)	
Res BW y start	10 kHz	_	#VBW	/ 30 kHz			Sweep 2			P
Res BW start ilent Spect	10 kHz Agilent Spectru rum Analyzer - Swe RF 50 Ω	pt SA AC			VSE:INT		ALIGN OFF	85.4 ms (3001 pts)	
Res BW start ilent Spect	10 kHz M Agilent Spectru rum Analyzer - Swej	pt SA AC 0000 GI F	Hz PNO: Fast G) Trig: Free	e Run		ALIGN OFF	85.4 ms ((3001 pts)	Frequency
Res BW start ilent Spect	10 kHz Aglent Spectru rum Analyzer - Swe RF 50 Ω Freq 1.16500	pt SA AC 0000 GI F IF	Hz	SEM	e Run	Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:33:25 T TRAC TY D 1 2.244	3001 pts) 在一月 03,202 日 2 3 4 5 6 MWWWWW 日 P P P P P P 10 GHz	Frequency
Res BW start ilent Spect R enter F	10 kHz Agilent Spectru rum Analyzer - Swe RF 50 Ω	pt SA AC 0000 GI F IF	Hz PNO: Fast G) Trig: Free	e Run	Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:33:25 T TRAC TY D 1 2.244	(3001 pts) (キー月 03,202 年日23456 FET MWWWWW FT P P P P P P	Frequency
Res BW	10 kHz Aplent Spectru rum Analyzer - Swe RF 50 Q ireq 1.165000	pt SA AC 0000 GI F IF	Hz PNO: Fast G) Trig: Free	e Run	Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:33:25 T TRAC TY D 1 2.244	3001 pts) 在一月 03,202 日 2 3 4 5 6 MWWWWW 日 P P P P P P 10 GHz	Frequency Auto Tu Center Fr
Res BW start ilent Spect R enter F dB/div	10 kHz Aplent Spectru rum Analyzer - Swe RF 50 Q ireq 1.165000	pt SA AC 0000 GI F IF	Hz PNO: Fast G) Trig: Free	e Run	Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:33:25 T TRA(TY D 1 2.244	3001 pts) 在一月 03,202 日 2 3 4 5 6 MWWWWW 日 P P P P P P 10 GHz	Frequency Auto Tu Center Fr
Res BW	10 kHz Aplent Spectru rum Analyzer - Swe RF 50 Q ireq 1.165000	pt SA AC 0000 GI F IF	Hz PNO: Fast G) Trig: Free	e Run	Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:33:25 T TRA(TY D 1 2.244	3001 pts) 在一月 03,202 日 2 3 4 5 6 MWWWWW 日 P P P P P P 10 GHz	Frequency Auto Tu Center Fr 1.16500000 G
Res BW start ilent Spect R enter F	10 kHz Aplent Spectru rum Analyzer - Swe RF 50 Q ireq 1.165000	pt SA AC 0000 GI F IF	Hz PNO: Fast G) Trig: Free	e Run	Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:33:25 T TRA(TY D 1 2.244	3001 pts) 在一月 03,202 日 2 3 4 5 6 MWWWWW 日 P P P P P P 10 GHz	Frequency Auto Tu Center Fr 1.16500000 G Start Fr
Res BW start ilent Spect R enter F 0 dB/div 0 0 0 0 0 0	10 kHz Aplent Spectru rum Analyzer - Swe RF 50 Q ireq 1.165000	pt SA AC 0000 GI F IF	Hz PNO: Fast G) Trig: Free	e Run	Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:33:25 T TRA(TY D 1 2.244	3001 pts) 在一月 03,202 日 2 3 4 5 6 MWWWWW 日 P P P P P P 10 GHz	Frequency Auto Tu Center Fr 1.16500000 G Start Fr
Res BW start ilent Spect R enter F 0 dB/div 0 0 0 0 0 0 0 0	10 kHz Aplent Spectru rum Analyzer - Swe RF 50 Q ireq 1.165000	pt SA AC 0000 GI F IF	Hz PNO: Fast G) Trig: Free	e Run	Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:33:25 T TRA(TY D 1 2.244	3001 pts) 一月 03, 202 日 2 3 4 5 6 所述的研究 10 GHz 53 dBm	Frequency Auto Tu Center Fr 1.16500000 G Start Fr 30.00000 M Stop Fr
Res BW	10 kHz Aplent Spectru rum Analyzer - Swe RF 50 Q ireq 1.165000	pt SA AC 0000 GI F IF	Hz PNO: Fast G) Trig: Free	e Run	Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:33:25 T TRA(TY D 1 2.244	3001 pts) 一月 03, 202 日 2 3 4 5 6 所述的研究 10 GHz 53 dBm	Frequency Auto Tu Center Fr 1.16500000 G Start Fr 30.000000 M Stop Fr
Res BW start ilent Spect R enter F 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 kHz Aplent Spectru rum Analyzer - Swe RF 50 Q ireq 1.165000	pt SA AC 0000 GI F IF	Hz PNO: Fast G) Trig: Free	e Run	Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:33:25 T TRA(TY D 1 2.244	3001 pts) 一月 03, 202 日 2 3 4 5 6 所述的研究 10 GHz 53 dBm	Frequency Auto Tu Center Fr 1.16500000 G Start Fr 30.000000 M Stop Fr 2.30000000 G
Res BW start ilent Spect R enter F	10 KHz PI Aglent Spectru rum Analyzer - Swee RF S0 Q Sreq 1.165000 Ref Offset 1 dl Ref 20.00 d	pt SA AC 00000 GI F IF B B M	HZ NO: Fast Gain:Low	SP Trig: Free #Atten: 40	e Run 0 dB	4 Avg Type Avg Hold:	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:3326 T TRAI TY 1 2.244 -46.9	3001 pts) 一月 03, 202 日 2 3 4 5 6 所述的研究 10 GHz 53 dBm	Frequency Auto Tu Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF St 227.00000 M
Res BW	10 kHz Aplent Spectru rum Analyzer - Swe RF 50 Q ireq 1.165000	pt SA AC 00000 GI F IF B B M	HZ NO: Fast Gain:Low	SEP Trig: Free #Atten: 40	e Run 0 dB	Avg Type	ALIGN OFF : Log-Pwr >50/50 Mkr	85.4 ms (02:3326 TF TRAC D 1 2.244 -46.9	3001 pts) 年 - 月 03,202 年 123 4 5 6 所 23 4 5 6 下 P P P P P P 10 GHz 53 dBm -16 33 dBm	Frequency Auto Tu Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF St 227.000000 M Auto Tu
Res BW	10 KHz PI Aglent Spectru rum Analyzer - Swee RF 50 Q Sreq 1.165000 Ref Offset 1 dl Ref 20.00 d	pt SA AC 00000 GI F IF B B M	HZ NO: Fast Gain:Low	SEP Trig: Free #Atten: 40	e Run 0 dB	Avg Type Avg Hold:	ALIGN OFF : Log-Pwr >50/50 Mkr	85.4 ms (02:3326 TF TRAC D 1 2.244 -46.9	3001 pts) 年 - 月 03,202 年 123 4 5 6 所 23 4 5 6 下 P P P P P P 10 GHz 53 dBm -16 33 dBm	Frequency Auto Tu Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF St 227.000000 M Auto Tu Auto Tu Transport Stop Fr 2.30000000 G Stop Fr 2.30000000 M Freq Offs
Res BW	10 KHz PI Aglent Spectru rum Analyzer - Swee RF 50 Q Sreq 1.165000 Ref Offset 1 dl Ref 20.00 d	pt SA AC 00000 GI F IF B B M	HZ NO: Fast Gain:Low	SEP Trig: Free #Atten: 40	e Run 0 dB	Avg Type Avg Hold:	ALIGN OFF : Log-Pwr >50/50 Mkr	85.4 ms (02:3326 TF TRAC D 1 2.244 -46.9	3001 pts) 年 - 月 03,202 年 123 4 5 6 所 23 4 5 6 下 P P P P P P 10 GHz 53 dBm -16 33 dBm	Frequency Auto Tu Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF St 227.000000 M Auto Tu Auto Tu Transport Stop Fr 2.30000000 G Stop Fr 2.30000000 M Freq Offs
Res BW	10 KHz PI Aglent Spectru rum Analyzer - Swee RF 50 Q Sreq 1.165000 Ref Offset 1 dl Ref 20.00 d	pt SA AC 00000 GI F IF B B M	HZ NO: Fast Gain:Low	SEP Trig: Free #Atten: 40	e Run 0 dB	Avg Type Avg Hold:	ALIGN OFF : Log-Pwr >50/50 Mkr	85.4 ms (02:3326 TF TRAC D 1 2.244 -46.9	3001 pts) 年 - 月 03,202 年 123 4 5 6 所 23 4 5 6 所 29 9 9 9 9 9 9 10 GHz 53 dBm -16 33 dBm	Frequency Auto Tu Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF St 227.000000 M
Res BW	10 KHZ	pt SA AC 00000 GI F IF B B M	HZ Gain:Low	SEP Trig: Free #Atten: 40		Avg Type AvgHold:	ALIGN OFF :: Log-Pwr >50/50 MIKr	85.4 ms (02:3326 F TRA 7 7 1 2.244 -46.9	3001 pts) 年 - 月 03,202 年 123 4 5 6 所 23 4 5 6 所 29 9 9 9 9 9 9 10 GHz 53 dBm -16 33 dBm	Frequency Auto Tu Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF St 227.000000 M Auto Tu Auto Tu Transport Stop Fr 2.30000000 G Stop Fr 2.30000000 M Freq Offs

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and <u>urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: **CN_Doccheck@egs.com**</u>





Report No.: ZR/2019/C002603 Page: 36 of 73

	rum Analyzer - Swept SA RF 50 Ω AC		SENSE:INT		ALIGN OFF	02:33:38 下	午一月 03,202	
	req 2.350000000	GHz PNO: Fast	Trig: Free Run	Avg Type: Avg Hold:>	Log-Pwr	TRAC	E 123456 E MWWWWW T P P P P P	Frequency
	Ref Offset 1 dB	IFGain:Low	#Atten: 40 dB		Mk	r1 2.314	4 2 GHz	Auto Tu
) dB/div og	Ref 20.00 dBm					-48.8	05 dBm	
								Center Fr
10.0								2.350000000 G
).00								
								Start Fr
0.0								2.300000000 G
0.0							-16.33 dBm	
								Stop Fr 2.400000000 G
0.0								2.4000000000
0.0								CF St
0.0	1							10.000000 M Auto M
0.0 wythyly	Lund ym / plures Alfrith Law Armerid a th	un dittan and a state	than the the second states and the second st	Millipsteer, wywerman wy	Mariana	mentality	rywaranger	
0.0								Freq Offs
0.0								0
0.0								
						Stop 2.40	0000 GHz	
	100 GHz	#\/D\/	200 242		woon 0	600 mc /	1001 nto)	
Res BW	100 kHz	_	V 300 kHz	s	Sweep 9	.600 ms (1001 pts)	n ° /
Res BW	100 kHz I Agilent Spectrum Ana	_	V 300 kHz	9	Sweep 9	.600 ms (1001 pts)	2 ° ¢
Res BW Start Gilent Spect	100 kHz	_	V 300 KHZ		Sweep 9	.600 ms (1001 pts) 午一月 03,202	
Res BW start ilent Spect	100 kHz I Agilent Spectrum Ana rum Analyzer - Swept SA	GHz PN0: Fast	SENSE:INT		ALIGN OFF	.600 ms (1001 pts) 午一月 03,202	ा ् र Frequency
Res BW start ilent Spect	100 KHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Q AC ireq 2.4917500000	GHz	SENSE:INT	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 200/200	.600 ms (02:33:47 TF TRAC TYP DE	1001 pts) 午 一月 03, 202 ^E 123456 E 19 ア P P P P P	
Res BW	100 kHz Agient Spectrum Ana rum Analyzer - Swept SA RF 50 Ω AC	GHz PN0: Fast	SENSE:INT	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 200/200	.600 ms (1001 pts) 午一月 03,202	Frequency
Res BW	100 KHz Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Q AC ireq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 200/200	.600 ms (1001 pts)	Frequency Auto Tu
Res BW start ilent Spect R enter F	100 KHz Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Q AC ireq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 200/200	.600 ms (1001 pts)	Frequency Auto Tu Center Fr
Res BW start ilent Spect R enter F	100 KHz Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Q AC ireq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 200/200	.600 ms (1001 pts)	Frequency Auto Tu Center Fr
Res BW	100 KHz Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Q AC ireq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 200/200	.600 ms (1001 pts)	Frequency Auto Tu Center Fr 2.491750000 G
Res BW	100 KHz Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Q AC ireq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 200/200	.600 ms (1001 pts)	Frequency
Res BW	100 KHz Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Q AC ireq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 200/200	.600 ms (1001 pts)	Frequency Auto Tu Center Fr 2.491750000 G Start Fr
Res BW start ilent Spect enter F	100 KHz Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Q AC ireq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 200/200	.600 ms (1001 pts) 4 — Л 03, 202 1 2 3 4 5 6 1 9 9 9 9 9 9 1 9 9 9 9 9 9 3 0 GHz 55 dBm	Frequency Auto Tu Center Fr 2.491750000 G Start Fr
Res BW start ilent Spect enter F	100 KHz Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Q AC ireq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 200/200	.600 ms (1001 pts) 4 — Л 03, 202 1 2 3 4 5 6 1 9 9 9 9 9 9 1 9 9 9 9 9 9 3 0 GHz 55 dBm	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G
Res BW start glient Spect enter F	100 KHz Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Q AC ireq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 200/200	.600 ms (1001 pts) 4 — Л 03, 202 1 2 3 4 5 6 1 9 9 9 9 9 9 1 9 9 9 9 9 9 3 0 GHz 55 dBm	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G
Res BW	100 KHz Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Q AC ireq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 200/200	02:3347 TF TRAC TV 02:3347 TF TRAC 02:00 00 00 00 00 00 00 00 00 00 00 00 00	1001 pts) 4 — Л 03, 202 1 2 3 4 5 6 1 9 9 9 9 9 9 1 9 9 9 9 9 9 3 0 GHz 55 dBm	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr
Res BW	100 KHz	GHz PNO: Fast	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 2007200 Mkr1 2	02:3347 F TRAC TRAC 496 59(-48.23	1001 pts) キー月 03,202 モー2 3 4 5 6 パンションション ア P P P P P P O GHz 55 dBm	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G
Res BW	100 KHz Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Q AC ireq 2.491750000 Ref Offset 1 dB	GHz PNO: Fast	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 2007200 Mkr1 2	02:3347 F TRAC TRAC 496 59(-48.23	1001 pts) キー月 03,202 モー2 3 4 5 6 パンションション ア P P P P P P O GHz 55 dBm	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G CF St 1.650000 M Auto
Res BW	100 KHz	GHz PNO: Fast	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 2007200 Mkr1 2	02:3347 F TRAC TRAC 496 59(-48.23	1001 pts) キー月 03,202 モー2 3 4 5 6 パンションション ア P P P P P P O GHz 55 dBm	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.50000000 G L650000 M Auto Tu Matter Fr 2.483500000 G Stop Fr 2.50000000 M Freq Offs Freq Offs
Res BW	100 KHz	GHz PNO: Fast	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 2007200 Mkr1 2	02:3347 F TRAC TRAC 496 59(-48.23	1001 pts) 年 - 月 03, 202 年 123456 パンションション の GHz 55 dBm -16.33 dBm	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G CF St 1.650000 M Auto
Res BW	100 KHz	GHz PNO: Fast	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 2007200 Mkr1 2	02:3347 F TRAC TRAC 496 59(-48.23	1001 pts) 年 - 月 03, 202 年 123456 パンションション の GHz 55 dBm -16.33 dBm	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.50000000 G L650000 M Auto Tu Matter Fr 2.483500000 G Stop Fr 2.50000000 M Freq Offs Freq Offs
Res BW	100 KHz	GHz PNO: Fast	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Avg Hold>	ALIGN OFF Log-Pwr 2007200 Mkr1 2	02:3347 ۴ ۳۲۹۵ ۳۳۹۵ 496 59(-48.23	1001 pts) 年 一 月 03, 202 年 12 3 4 5 6 M 27 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.50000000 G L650000 M Auto Tu Matter Fr 2.483500000 G Stop Fr 2.50000000 M Freq Offs Freq Offs
Res BW start ilent Spect R enter F 0 dB/div 0 0 0 0	100 KHz	GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Avg Hold>	Align off Log-Pwr 2007200 Mkr1 2	02:3347 ۴ ۱۳۸۵ ۲۳۸۵ ۲۳۹۵ ۲۹۹6 590 -48.23	1001 pts) 年 一 月 03, 202 年 12 3 4 5 6 M 27 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.50000000 G L650000 M Auto Tu Matter Fr 2.483500000 G Stop Fr 2.50000000 M Freq Offs Freq Offs

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





Report No.: ZR/2019/C002603 Page: 37 of 73

Agilent Spectrum Analyzer - Swept SA					
M R RF 50 Ω AC Center Freq 14.500000000		Avg Typ Run Avg Hold	ALIGN OFF e: Log-Pwr 1: 10/10	02:34:21 下午 一月 03, 20 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P P	Frequency
Ref Offset 1 dB 10 dB/div Ref 20.00 dBm	IFGain:Low Pricen. 40		M	(r1 26.455 GHz -38.810 dBm	Auto Tune
10.0					Center Freq 14.500000000 GHz
-10.0				-16.33 dBm	Start Freq 2.500000000 GHz
-20.0					Stop Freq 26.500000000 GHz
-40.0		in the state of the second states of the second states of the second states of the second states of the second	the familie ^{his} of the		CF Step 2.400000000 GHz <u>Auto</u> Man
-60.0					Freq Offset 0 Hz
-70.0 Start 2.50 GHz				Stop 26.50 GHz	
#Res BW 100 kHz	#VBW 300 kHz		Sweep	2.294 s (8001 pts)	1 . (0

4.8.1.2 GFSK 1M_Middle Channel





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and <u>urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: **CN_Doccheck@ess.com**</u>



Report No.: ZR/2019/C002603 Page: 38 of 73

nt Spectrum Analyzer - Swept SA 02:38:14 下午 一月 03, 20: TRACE 1 2 3 4 5 6 TYPE M MAMMANN DET P P P P P P B Frequency Avg Type: Log-Pwr Avg|Hold:>50/50 Center Freg 79.500 kHz Trig: Free Run PNO: Wide 🖵 #Atten: 26 dB Mkr1 9.000 kHz -49.943 dBm Auto Tune Ref Offset 1 dB Ref 0.00 dBm 10 dB/div Log **Center Freq** 79.500 kHz Start Freq 9 000 kHz Stop Freq 150.000 kHz Ութվ CF Step 14.100 kHz ᠕ᡙᡳ Man Auto Winner b-hmphalalanonananghalan ᠃ᡁᠰ᠁ᡁᡅᢩ᠕ <u>Ա,</u>ՆԻ Freq Offset 0 Hz Stop 150.00 kHz Sweep 134.8 ms (601 pts) Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz 8 2 00 🛃 start 🔰 💷 Agilent Spectrum Ana. Agilent Spectrum Analyzer - Swept SA 02:38:37 下午 一月 03, 202 TRACE **1 2 3 4 5** 6 TYPE MWWWWW DET P P P P P P ALIGN OFF Avg Type: Log-Pwr Avg|Hold:>50/50 Frequency Center Freq 15.075000 MHz Trig: Free Run #Atten: 40 dB PNO: Fast 😱 IFGain:Low Auto Tune Mkr1 150 kHz -42.217 dBm Ref Offset 1 dB Ref 20.00 dBm 10 dB/div Log **Center Freq** 15.075000 MHz Start Fred 150.000 kHz Stop Freq -25.68 di 30.000000 MHz CF Step 2.985000 MHz Auto Man Freq Offset والراب والقريق اسار وفاطر ومرافعا Line Adult and the state of the state 0 Hz i pip will'r Start 150 kHz #Res BW 10 kHz Stop 30.00 MHz Sweep 285.4 ms (3001 pts) #VBW 30 kHz 0 2 0 Start JII Agilent Spectrum Ana.

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or 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) lested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at leippinone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com. No.! Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn

邮编: 518057 t (86-755) 26012053 f (86-755) 26710594

格验检测专用章 Inspection & Testing Services SGS-CSTN Finandards Technical Services Co.,Ltd. Shenzhen Branch And Service Laboratory.

中国・深圳・科技园中区M-10栋一号厂房

Member of the SGS Group (SGS SA)

sgs.china@sgs.com



Report No.: ZR/2019/C002603 Page: 39 of 73

	rum Analyzer - Swept SA RF 50 Ω AC		SENSE:INT	ALIGN OFF	02:38:58 下午 一月 03, 20	
	req 1.16500000	PN0: Fast G	Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>50/50	TRACE 123456 TYPE MWWWWW DET PPPPP	Frequency
	Ref Offset 1 dB	IFGain:Low	#Atten: 40 dB	Mkr	1 1.979 93 GHz -47.088 dBm	A
odB/div	Ref 20.00 dBm					
10.0						Center Fr 1.165000000 G
0.0						1.18500000 G
).00						Start Fr
0.0						30.000000 M
					-15.68 dBm	
20.0						Stop Fr
0.0						2.300000000 G
						CE Of
0.0					<u>1</u>	CF Ste 227.000000 M
50.0	and the first state of the second state of the	di sa na la sin barin	dianoj da bere depeti di suo te b			<u>Auto</u> M
a ciberci att	an besk beer de see ster skerberg geber bilder men j	u u de la complete de	ما المطبق المسلمان التي ومن المراجع المستحدث المطلح الم المطبق المسلمان المراجع المراجع المستحدث المطلح المراجع الم			Freq Offs
.0.0						0
0.0						
		40 (D)		0	Stop 2.300 GHz	
	100 kHz	_	V 300 kHz	Sweep 2	Stop 2.300 GHz 217.1 ms (8001 pts)	n ° 🗸
Res BW 🛃 start	100 kHz Di Agilent Spectrum Ana	_	¥ 300 kHz	Sweep 2	217.1 ms (8001 pts)	B 2 4
Res BW start gilent Spect	100 kHz Imagient Spectrum Ana rum Analyzer - Swept SA RF 50 Ω AC		V 300 KHZ	ALIGN OFF	217.1 ms (8001 pts) 02:39:10 下午 一月 03,20	۔ ا
Res BW start gilent Spect	100 kHz Agilent Spectrum Ana rum Analyzer - Swept SA) GHz PNO: Fast	SENSE:INT		217.1 ms (8001 pts) 02:39:10 下午 一月 03,20	۔ ا
Res BW start silent Spect	100 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF SDΩ AC req 2.350000000) GHz	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	17.1 ms (8001 pts) 02:39:10 下午 一月 03,20 1784CE 12 3 4 5 6 TYPE N 1000 F P P P P P	Frequency
Res BW	100 kHz Imagient Spectrum Ana rum Analyzer - Swept SA RF 50 Ω AC) GHz PNO: Fast	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	217.1 ms (8001 pts) 02:39:10 下午 一月 03,20	Frequency
Res BW	100 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 2 AC req 2.350000000 Ref Offset 1 dB) GHz PNO: Fast	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	177.1 ms (8001 pts) 02:39:10 下午 一月 03,20 TRACE 目 2 4 5 6 TYPE MAMANAN DET P P P P P P (r1 2.310 0 GHz	Frequency Auto Tu
Res BW	100 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 2 AC req 2.350000000 Ref Offset 1 dB) GHz PNO: Fast	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	177.1 ms (8001 pts) 02:39:10 下午 一月 03,20 TRACE 目 2 4 5 6 TYPE MAMANAN DET P P P P P P (r1 2.310 0 GHz	Frequency Auto Tur Center Fre
Res BW start gitent Spect R enter F 0 dB/div	100 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 2 AC req 2.350000000 Ref Offset 1 dB) GHz PNO: Fast	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	177.1 ms (8001 pts) 02:39:10 下午 一月 03,20 TRACE 目 2 4 5 6 TYPE MAMANAN DET P P P P P P (r1 2.310 0 GHz	Frequency Auto Tur Center Fre
Res BW start gitent Spect R enter F 0 dB/div	100 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 2 AC req 2.350000000 Ref Offset 1 dB) GHz PNO: Fast	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	177.1 ms (8001 pts) 02:39:10 下午 一月 03,20 TRACE 目 2 4 5 6 TYPE MAMANAN DET P P P P P P (r1 2.310 0 GHz	Frequency Auto Tur Center Fr 2.35000000 G Start Fr
Res BW	100 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 2 AC req 2.350000000 Ref Offset 1 dB) GHz PNO: Fast	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	2:39:10下午一月 03,20 17ACE 12 345 G TYPEE 12 345 G TYPE PPPPP (r1 2.310 0 GHz -48.981 dBm	Frequency Auto Tur Center Fr 2.35000000 G Start Fr
Res BW	100 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 2 AC req 2.350000000 Ref Offset 1 dB) GHz PNO: Fast	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	177.1 ms (8001 pts) 02:39:10 下午 一月 03,20 TRACE 目 2 4 5 6 TYPE MAMANAN DET P P P P P P (r1 2.310 0 GHz	Frequency Auto Tur Center Fr 2.35000000 G Start Fr 2.30000000 G
Res BW	100 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 2 AC req 2.350000000 Ref Offset 1 dB) GHz PNO: Fast	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	2:39:10下午一月 03,20 17ACE 12 345 G TYPEE 12 345 G TYPE PPPPP (r1 2.310 0 GHz -48.981 dBm	Frequency Auto Tur Center Fr 2.350000000 G Start Fr 2.300000000 G
Res BW	100 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 2 AC req 2.350000000 Ref Offset 1 dB) GHz PNO: Fast	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	2:39:10下午一月 03,20 17ACE 12 345 G TYPEE 12 345 G TYPE PPPPP (r1 2.310 0 GHz -48.981 dBm	Frequency Auto Tur Center Fr 2.350000000 G Start Fr 2.300000000 G
Res BW	100 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 2 AC req 2.350000000 Ref Offset 1 dB) GHz PNO: Fast	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	2:39:10下午一月 03,20 17ACE 12 345 G TYPEE 12 345 G TYPE PPPPP (r1 2.310 0 GHz -48.981 dBm	Frequency Auto Tur Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF Stor
Res BW	100 kHz Tu Aglent: Spectrum Ana. RF 50 Q AC Treq 2.350000000 Ref Offset 1 dB Ref 20.00 dBm	OGHZ PN0: Fast IFGain:Low	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	217.1 ms (8001 pts) 02:39:10 下午 一月 03,20 TRACE 2 3 4 5 G TRACE 2 3 4 5 G TRACE 1 2 3 4 5 G TRACE 1 2 3 4 5 G TRACE 1 2 4 5 G TRACE 1 2 4 5 G -48.981 dBm	Frequency Auto Tur Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF Ste 10.000000 M
Res BW	100 kHz Tu Aglent: Spectrum Ana. RF 50 Q AC Treq 2.350000000 Ref Offset 1 dB Ref 20.00 dBm	OGHZ PN0: Fast IFGain:Low	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	217.1 ms (8001 pts) 02:39:10 下午 一月 03,20 TRACE 2 3 4 5 G TRACE 2 3 4 5 G TRACE 1 2 3 4 5 G TRACE 1 2 3 4 5 G TRACE 1 2 4 5 G TRACE 1 2 4 5 G -48.981 dBm	Frequency Auto Tur Center Fr 2.350000000 G Start Fr 2.300000000 G Start Fr 2.400000000 G CF Sto 10.000000 M Auto M
Res BW	100 kHz Tu Aglent: Spectrum Ana. RF 50 Q AC Treq 2.350000000 Ref Offset 1 dB Ref 20.00 dBm	OGHZ PN0: Fast IFGain:Low	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	217.1 ms (8001 pts) 02:39:10 下午 一月 03,20 TRACE 2 3 4 5 G TRACE 2 3 4 5 G TRACE 1 2 3 4 5 G TRACE 1 2 3 4 5 G TRACE 1 2 4 5 G TRACE 1 2 4 5 G -48.981 dBm	Frequency Auto Tur Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF Sto 10.000000 M Auto Auto Tur Stop Fr 2.400000000 M Freq Offs
Res BW	100 kHz Tu Aglent: Spectrum Ana. RF 50 Q AC Treq 2.350000000 Ref Offset 1 dB Ref 20.00 dBm	OGHZ PN0: Fast IFGain:Low	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	217.1 ms (8001 pts) 02:39:10 下午 一月 03,20 TRACE 2 3 4 5 G TRACE 2 3 4 5 G TRACE 1 2 3 4 5 G TRACE 1 2 3 4 5 G TRACE 1 2 4 5 G TRACE 1 2 4 5 G -48.981 dBm	Frequency Auto Tur Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF Sto 10.000000 M Auto Auto Tur Stop Fr 2.400000000 M Freq Offs
Res BW start gilent Spect R Senter F O dB/div 9 10.0 9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	100 kHz Tu Aglent: Spectrum Ana. RF 50 Q AC Treq 2.350000000 Ref Offset 1 dB Ref 20.00 dBm	OGHZ PN0: Fast IFGain:Low	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	217.1 ms (8001 pts) 02:39:10 下午 一月 03,20 TRACE 2 3 4 5 G TRACE 2 3 4 5 G TRACE 1 2 3 4 5 G TRACE 1 2 3 4 5 G TRACE 1 2 4 5 G TRACE 1 2 4 5 G -48.981 dBm	Frequency Auto Tur Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF Ste 10.000000 M
Res BW	100 kHz Tum Analyzer - Swept SA RF S0 Q AC recq 2.350000000 Ref Offset 1 dB Ref 20.00 dBm	OGHZ PN0: Fast IFGain:Low	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>200/200	217.1 ms (8001 pts) 02:39:10 下午 — 月 03,20 TRACE 12 3 4 5 6 Tree 12 3 6	Frequency Auto Tur Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF Sto 10.000000 M Auto Auto Tur Stop Fr 2.400000000 M Freq Offs
Res BW	100 kHz Tu Aglent: Spectrum Ana. RF 50 Q AC Treq 2.350000000 Ref Offset 1 dB Ref 20.00 dBm	OGHZ PNO: Fast IFGain:Low	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	217.1 ms (8001 pts) 02:39:10 下午 一月 03,20 TRACE 2 3 4 5 G TRACE 2 3 4 5 G TRACE 1 2 3 4 5 G TRACE 1 2 3 4 5 G TRACE 1 2 4 5 G TRACE 1 2 4 5 G -48.981 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 M Auto M Freq Offs 0

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





Report No.: ZR/2019/C002603 Page: 40 of 73

	r <mark>um Analyzer - Sv</mark> RF 50 S			SEN	SE:INT	Á	ALIGN OFF	02:39:20 下	午一月 03,202		
	req 2.4917		Hz			Avg Type	e: Log-Pwr	TRAC	+ → A 03,202 E <mark>1 2 3 4 5</mark> 6 E M WWWWW	Freque	ncy
	·	P	PNO: Fast 😱 Gain:Low	Trig: Free #Atten: 40		Avg Hold:	>200/200	DE			
	D-605						Mkr1 2	.494 390	0 GHz	Aut	o Tu
0 dB/div	Ref Offset 1 Ref 20.00							-48.9	64 dBm		
^{og}											-
10.0										Cent 2.491750	
										2.491750	000 G
											irt Fr
0.0										2.483500	000 G
									-15.68 dBm		
20.0											op Fr
30.0										2.500000	000 G
40.0											FSte
						1				1.6500 <u>Auto</u>	M
50.0 <mark>ოზე</mark> ზეფ	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ՠՠՠֈՠ	ᡰ᠋ᠧᡘᡃ᠋ᢦᢦᠬᠬᡙᡟ	ᡃᠬᡅᢪᡝ᠇ᢦᢦᢦ	՝ Նր <i>մ</i> ես-Նդմ	warmartyrow	ᡙᢍᡢᠯᠮᡧᢧᡘᡅᢩ᠕	ᡧᡵ᠕ᡃᡀᡘ᠇ᠬᡰᠬ	ᡀᢧᠰᢧᠰ᠘᠇ᢦ		
										Fred	Offs
50.0											01
70.0											
Res BW	33500 GHz		#\/D\M	300 kHz				top 2.500			
	100 KHZ		# V D V V	300 NHZ			Sweep	1.000 1115	(601 pts)		
🛃 start	I UU KH2	trum Ana	#VDVV	JUU KHZ			Sweep	1.000 1115	(601 pts)	<u>ا</u>	? 🔇
🛃 start			# 4 D 44	300 KH2			Sweep	1.000 ms	(601 pts)	R)	: 🔇
i start gilent Spect	Tum Analyzer - Sw RF 50 S	vept SA 2 AC			SE:INT		ALIGN OFF	02:39:53 TF	午一月 03,202		T
i start gilent Spect	I Agilent Spec	vept SA 2 AC 000000 C P	GHz PNO: Fast	SEN Trig: Free	Run		ALIGN OFF	02:39:53 TF	午 →月 03,202		ncy
i start gilent Spect	RF 50 S Streq 14.500	vept SA 2 AC 000000 C P IF	GHz	SEN	Run	Avg Type	ALIGN OFF : Log-Pwr : 10/10	02:39:53 T TRAC TYP DE	午 一月 03, 202 E 1 2 3 4 5 6 E M WWWW T P P P P P P	Freque	ncy
gilent Spect R Center F	I Aglent Spec rum Analyzer - Sw RF 50 S Freq 14.500 Ref Offset 1	vept SA 2 AC 0000000 C F IF	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN OFF : Log-Pwr : 10/10	02:39:53 T TRAC TYP DE Kr1 26.4	午 一月 03, 202 E 1 2 3 4 5 6 E M WWWW T P P P P P P	Freque	ency
start gilent Spect R center F	RF 50 S Streq 14.500	vept SA 2 AC 0000000 C F IF	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN OFF : Log-Pwr : 10/10	02:39:53 T TRAC TYP DE Kr1 26.4	午一月03,202 E 1,23456 E 1,23456 E M WANAWA T P P P P P P T P P P P P 70 GHz	Freque	ency
gilent Spect	I Aglent Spec rum Analyzer - Sw RF 50 S Freq 14.500 Ref Offset 1	vept SA 2 AC 0000000 C F IF	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN OFF : Log-Pwr : 10/10	02:39:53 T TRAC TYP DE Kr1 26.4	午一月03,202 E 1,23456 E 1,23456 E M WANAWA T P P P P P P T P P P P P 70 GHz	Freque Aut	ency to Tui
gilent Spect	I Aglent Spec rum Analyzer - Sw RF 50 S Freq 14.500 Ref Offset 1	vept SA 2 AC 0000000 C F IF	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN OFF : Log-Pwr : 10/10	02:39:53 T TRAC TYP DE Kr1 26.4	午一月03,202 E 1,23456 E 1,23456 E M WANAWA T P P P P P P T P P P P P 70 GHz	Freque	ency to Tui
start gilent Spect R Center F	I Aglent Spec rum Analyzer - Sw RF 50 S Freq 14.500 Ref Offset 1	vept SA 2 AC 0000000 C F IF	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN OFF : Log-Pwr : 10/10	02:39:53 T TRAC TYP DE Kr1 26.4	午一月03,202 E 1,23456 E 1,23456 E M WANAWA T P P P P P P T P P P P P 70 GHz	Freque Aut	ency to Tui
i start gilent Spect	I Aglent Spec rum Analyzer - Sw RF 50 S Freq 14.500 Ref Offset 1	vept SA 2 AC 0000000 C F IF	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN OFF : Log-Pwr : 10/10	02:39:53 T TRAC TYP DE Kr1 26.4	午一月03,202 E 1,23456 E 1,23456 E M WANAWA T P P P P P P T P P P P P 70 GHz	Freque Aut 14.500000	ency to Tui er Fra
start gient Spect R Center F	I Aglent Spec rum Analyzer - Sw RF 50 S Freq 14.500 Ref Offset 1	vept SA 2 AC 0000000 C F IF	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN OFF : Log-Pwr : 10/10	02:39:53 T TRAC TYP DE Kr1 26.4	+ - Я 03,202 ■ 123 456 ■ 123	Freque Aut 14.500000	ency to Tur er Fra 000 Gi
start gilent Spect center F	I Aglent Spec rum Analyzer - Sw RF 50 S Freq 14.500 Ref Offset 1	vept SA 2 AC 0000000 C F IF	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN OFF : Log-Pwr : 10/10	02:39:53 T TRAC TYP DE Kr1 26.4	午一月03,202 E 1,23456 E 1,23456 E M WANAWA T P P P P P P T P P P P P 70 GHz	Freque Aut 14.500000	ency to Tur er Fra 000 Gi
start gilent Spect center F	I Aglent Spec rum Analyzer - Sw RF 50 S Freq 14.500 Ref Offset 1	vept SA 2 AC 0000000 C F IF	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN OFF : Log-Pwr : 10/10	02:39:53 T TRAC TYP DE Kr1 26.4	+ - Я 03,202 ■ 123 456 ■ 123	Freque Aut 14.500000 Sta 2.500000	ency o Tui er Fro 000 Gi
start gilent Spect center F	I Aglent Spec rum Analyzer - Sw RF 50 S Freq 14.500 Ref Offset 1	vept SA 2 AC 0000000 C F IF	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN OFF : Log-Pwr : 10/10	02:39:53 T TRAC TYP DE Kr1 26.4	+ - Я 03,202 ■ 123 456 ■ 123	Freque Aut 14.500000 Sta 2.500000	ency o Tui er Fra 000 Gi urt Fra 000 Gi
start gilent Spect R Center F	I Aglent Spec rum Analyzer - Sw RF 50 S Freq 14.500 Ref Offset 1	vept SA 2 AC 0000000 C F IF	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN OFF : Log-Pwr : 10/10	02:39:53 T TRAC TYP DE Kr1 26.4	+ - Я 03,202 ■ 123 456 ■ 123	Freque Aut 14.500000 Sta 2.500000	ency o Tui er Fra 000 Gi urt Fra 000 Gi
start gilent Spect R CodB/div 99 10.0 10.0 20.00 20.00 30.00 30.00	I Aglent Spec rum Analyzer - Sw RF 50 S Freq 14.500 Ref Offset 1	vept SA 2 AC 0000000 C F IF	GHz PNO: Fast	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN OFF 2: Log-Pwr 10/10	02:3953 F TRAC TYP E Kr1 26.4 -39.01	4 – Я 03,202 12 3 4 5 6 милини 70 GHz 80 dBm -15.88 dbm	Freque Aut 14.500000 Sta 2.500000 Sta 26.500000	er Fri 0000 G art Fri 0000 G
start gilent Spect R CodB/div 99 10.0 10.0 20.00 20.00 30.00 30.00	I Aglent Spec rum Analyzer - Sw RF 50 S Freq 14.500 Ref Offset 1	vept SA 2 AC 0000000 C F IF	GHz PNO: Fast	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN OFF 2: Log-Pwr 10/10	02:3953 F TRAC TYP E Kr1 26.4 -39.01	4 – Я 03,202 12 3 4 5 6 милини 70 GHz 80 dBm -15.88 dbm	Freque Aut 14.500000 Sta 2.500000 Sta 26.500000	er Fra o Tui er Fra 000 G op Fra 000 G
start gilent Spect center F	Ref Offset 1 Ref 20.00	dB dB dB dB dB dB dB dB dB dB dB dB dB d	SHz NO: Fast Gain:Low	SEN Trig: Free #Atten: 40	Run dB	Avg Type	ALIGN OFF 2: Log-Pwr 10/10	02:3953 F TRAC TYP E Kr1 26.4 -39.01	4 – Я 03,202 12 3 4 5 6 милини 70 GHz 80 dBm -15.88 dbm	Freque Aut 14.500000 Sta 2.500000 Sta 26.500000	er Fra o Tui er Fra 000 Gi op Fra 000 Gi CF Ste 000 Gi
start glien Spect R center F 0 dB/div 9 0 dB/div 9 0 d 0	Ref Offset 1 Ref 20.00	vept SA 2 AC 0000000 C F IF	SHz NO: Fast Gain:Low	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN OFF 2: Log-Pwr 10/10	02:3953 F TRAC TYP E Kr1 26.4 -39.01	4 – Я 03,202 12 3 4 5 6 милини 70 GHz 80 dBm -15.88 dbm	Freque Aut 14.5000000 Sta 2.5000000 Sta 26.5000000 Auto	er Fra o Tul er Fra 0000 Gl pp Fra 000 Gl CF Ste M
start glien Spect R center F 0 dB/div 9 0 dB/div 9 0 d 0	Ref Offset 1 Ref 20.00	dB dB dB dB dB dB dB dB dB dB dB dB dB d	SHz NO: Fast Gain:Low	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN OFF 2: Log-Pwr 10/10	02:3953 F TRAC TYP E Kr1 26.4 -39.01	4 – Я 03,202 12 3 4 5 6 милини 70 GHz 80 dBm -15.88 dbm	Freque Aut 14.5000000 Sta 2.5000000 Sta 26.5000000 Auto	er Fra o Tui er Fra 0000 Gl opp Fra 0000 Gl EF Ste 0000 Gl M
start gilent Spect R enter F 0 dB/div 9 0 dB/div 0 0 dB/div 0	Ref Offset 1 Ref 20.00	dB dB dB dB dB dB dB dB dB dB dB dB dB d	SHz NO: Fast Gain:Low	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN OFF 2: Log-Pwr 10/10	02:3953 F TRAC TYP E Kr1 26.4 -39.01	4 – Я 03,202 12 3 4 5 6 милини 70 GHz 80 dBm -15.88 dbm	Freque Aut 14.5000000 Sta 2.5000000 Sta 26.5000000 Auto	er Fra ooo Gi art Fra ooo Gi oo Gi F Ste Mi art Gffs
start glien Spect R center F 0 dB/div 9 0 dB/div 9 0 d 0	Ref Offset 1 Ref 20.00	dB dB dB dB dB dB dB dB dB dB dB dB dB d	SHz NO: Fast Gain:Low	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN OFF 2: Log-Pwr 10/10	02:3953 F TRAC TYP E Kr1 26.4 -39.01	4 – Я 03,202 12 3 4 5 6 милини 70 GHz 80 dBm -15.88 dbm	Freque Aut 14.5000000 Sta 2.5000000 Sta 26.5000000 Auto	er Fra oo Tui er Fra ooo Gi ooo Gi FF Ste
start gilent Spect R enter F 0 dB/div 9 0 dB/div 0 0 dB/div 0	Ref Offset 1 Ref 20.00	dB dB dB dB dB dB dB dB dB dB dB dB dB d	SHz NO: Fast Gain:Low	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN OFF 2: Log-Pwr 10/10	02:3953 F TRAC TYP DE Kr1 26.4 -39.01	+ - 月 03, 202 E 12 3 4 5 6 E 12 3 4 5 6 E 11 2 3 5 6 E 11	Freque Aut 14.5000000 Sta 2.5000000 Sta 26.5000000 Auto	er Fra o Tui er Fra 0000 Gl opp Fra 0000 Gl EF Ste 0000 Gl M
start gient Spect R enter F 0 dB/div 9 0 d 0 d 0 d 0 d 0 d 0	Ref Offset 1 Ref 20.00	dB dB dB dB dB dB dB dB dB dB dB dB dB d	SHz Gain:Low	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN OFF E: Log-Pwr 10/10 M	02:3953 F TRAC TYP DE Kr1 26.4 -39.01		Freque Aut 14.5000000 Sta 2.5000000 Sta 26.5000000 Auto	er Fra o Tui er Fra 0000 Gl opp Fra 0000 Gl EF Ste 0000 Gl M

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and <u>urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: **CN_Doccheck@egs.com**</u>



Report No.: ZR/2019/C002603 Page: 41 of 73





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





Report No.: ZR/2019/C002603 Page: 42 of 73

gilent Spect <mark>d</mark> R	rum Analyzer - Swept SA RF 50 Ω <u>A</u> DC		SENSE:		🛕 ALIGN OFF	02:42:09 下	午一月 03,202	E
enter F	req 15.075000 M	PNO: Fast G	Trig: Free R	un Avg Ho	pe: Log-Pwr Id:>50/50	TRAC TYF	^{се} 1 2 3 4 5 6 Ре м илини ет Р Р Р Р Р Р	Frequency
) dB/div	Ref Offset 1 dB Ref 20.00 dBm	IFGain:Low	#Atten: 40 dl	5		Mkr1 ′	150 kHz 41 dBm	Auto Tu
^{og}								Center Fre
10.0								15.075000 M
								Start Fr
0.0								150.000 k
0.0								Stop Fr
0.0							-24.75 dBm	30.000000 M
0.0								CF St
0.0								2.985000 M <u>Auto</u> M
								Freq Offs
0.0	hime of a state of the second s	hailin ya alia ya alia ya alia ya a	kalan fart y han att plan fi	and the state of the	han maladanahan	a a shi ta a	hi hi hayi tayi	. 0
0.0								
		-#\/D\			0		0.00 MHz	
Res BW		#VBV	N 30 kHz		Sweep 2			a : «
	10 KHz II Agilent Spectrum Ana rum Analyzer - Swept SA					85.4 ms (3001 pts)	n ? ¢
Res BW start ;ilent Spect R	10 KHZ	GHz	SENSE:	Avg Ty	ALIGN OFF	85.4 ms (3001 pts)	ा ् र र
Res BW start ilent Spect	10 kHz I Aglenk Spectrum Ana rum Analyzer - Swept SA RF 50 Q AC Freq 1.1650000000		SENSE:	Avg Ty un Avg Ho	ALIGN OFF pe: Log-Pwr Id:>50/50	02:42:30 F 1RAC 1YP DE	3001 pts) 年一月 03,202 年 123456 年 MWWWWW 町 P P P P P P P	Frequency
Res BW start silent Spect R enter F	10 kHz Image: Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Ω AC	GHz PN0: Fast	SENSE:	Avg Ty un Avg Ho	ALIGN OFF pe: Log-Pwr Id:>50/50	85.4 ms (02:42:30 F TRAC TYP Dr 1 2.270	3001 pts)	Frequency
Res BW	10 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Ω AC ireq 1.1650000000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:	Avg Ty un Avg Ho	ALIGN OFF pe: Log-Pwr Id:>50/50	85.4 ms (02:42:30 F TRAC TYP Dr 1 2.270	3001 pts) 年 一月 03,202 第 1 2 3 4 5 6 第 9 9 9 9 9 9 9 21 GHz	Frequency Auto Tu Center Fr
Res BW start ilent Spect enter F	10 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Ω AC ireq 1.1650000000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:	Avg Ty un Avg Ho	ALIGN OFF pe: Log-Pwr Id:>50/50	85.4 ms (02:42:30 F TRAC TYP Dr 1 2.270	3001 pts) 年 一月 03,202 第 1 2 3 4 5 6 第 9 9 9 9 9 9 9 21 GHz	Frequency Auto Tu Center Fr
Res BW start ilent Spect enter F	10 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Ω AC ireq 1.1650000000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:	Avg Ty un Avg Ho	ALIGN OFF pe: Log-Pwr Id:>50/50	85.4 ms (02:42:30 F TRAC TYP Dr 1 2.270	3001 pts) 年 一月 03,202 第 1 2 3 4 5 6 第 9 9 9 9 9 9 9 21 GHz	Frequency Auto Tu Center Fr 1.165000000 G Start Fr
Res BW start ilent Spect R enter F	10 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Ω AC ireq 1.1650000000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:	Avg Ty un Avg Ho	ALIGN OFF pe: Log-Pwr Id:>50/50	85.4 ms (02:42:30 F TRAC TYP Dr 1 2.270	3001 pts) 年 一月 03,202 第 1 2 3 4 5 6 第 9 9 9 9 9 9 9 21 GHz	Frequency Auto Tu Center Fr 1.165000000 G Start Fr
Res BW start ilent Spect R enter F odB/div 0.00	10 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Ω AC ireq 1.1650000000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:	Avg Ty un Avg Ho	ALIGN OFF pe: Log-Pwr Id:>50/50	85.4 ms (02:42:30 F TRAC TYP Dr 1 2.270	3001 pts) 年 一月 03, 202 年 12 3 4 5 6 第四日 21 GHz 48 dBm	Frequency Auto Tu Center Fr 1.16500000 G Start Fr 30.000000 M Stop Fr
Res BW	10 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Ω AC ireq 1.1650000000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:	Avg Ty un Avg Ho	ALIGN OFF pe: Log-Pwr Id:>50/50	85.4 ms (02:42:30 F TRAC TYP Dr 1 2.270	3001 pts) 年 一月 03, 202 年 12 3 4 5 6 第四日 21 GHz 48 dBm	Frequency Auto Tu Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr
Res BW	10 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Ω AC ireq 1.1650000000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:	Avg Ty un Avg Ho	ALIGN OFF pe: Log-Pwr Id:>50/50	85.4 ms (02:42:30 F TRAC TYP Dr 1 2.270	3001 pts) 年 一月 03, 202 年 12 3 4 5 6 第四日 21 GHz 48 dBm	Frequency Auto Tu Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.300000000 G CF Str
Res BW	10 KHz 1 Aglerk Spectrum Ana RF 50 Q AC 5 req 1.165000000 Ref Offset 1 dB Ref 20.00 dBm	GHz PNO: Fast IFGain:Low	Trig: Free R #Atten: 40 dl	Avg Ty an Avg Ho B	ALIGN OFF pe: Log-Pwr Id>50/50 Mkr	85.4 ms (02:42:30 F TRAC TYP Dr 1 2.270	3001 pts) 年 一月 03, 202 年 12 3 4 5 6 第四日 21 GHz 48 dBm	Frequency Auto Tu Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.300000000 G CF St 227.000000 M
Res BW	10 kHz I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Ω AC ireq 1.1650000000 Ref Offset 1 dB	GHz PNO: Fast IFGain:Low	Trig: Free R #Atten: 40 dl	Avg Ty an Avg Ho B	ALIGN OFF pe: Log-Pwr Id>50/50 Mkr	85.4 ms (02:42:30 F TRAC TY 07 1 2.270 -46.2	3001 pts) 年 一月 03, 202 年 12 3 4 5 6 第四日 21 GHz 48 dBm	Frequency Auto Tu Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF St 227.000000 M Auto Tu Auto Tu Transport Stop Fr 2.30000000 G Stop Fr 2.30000000 M Freq Offs
Res BW	10 KHz 1 Aglerk Spectrum Ana RF 50 Q AC 5 req 1.165000000 Ref Offset 1 dB Ref 20.00 dBm	GHz PNO: Fast IFGain:Low	Trig: Free R #Atten: 40 dl	Avg Ty an Avg Ho B	ALIGN OFF pe: Log-Pwr Id>50/50 Mkr	85.4 ms (02:42:30 F TRAC TY 07 1 2.270 -46.2	3001 pts) 年 一月 03, 202 年 12 3 4 5 6 第四日 21 GHz 48 dBm	Frequency Auto Tu Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF St 227.000000 M
Res BW	10 KHz 1 Aglerk Spectrum Ana RF 50 Q AC 5 req 1.165000000 Ref Offset 1 dB Ref 20.00 dBm	GHz PNO: Fast IFGain:Low	Trig: Free R #Atten: 40 dl	Avg Ty an Avg Ho B	ALIGN OFF pe: Log-Pwr Id>50/50 Mkr	85.4 ms (02:42:30 F TRAC TY 07 1 2.270 -46.2	3001 pts) 年 一月 03, 202 年 12 3 4 5 6 第四日 21 GHz 48 dBm	Frequency Auto Tu Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF Str 227.000000 M Auto Tu Auto Tu Trequency
Res BW	10 KHz 11 Aglert Spectrum Ana RF 50 Ac Freq 1.165000000 Ref Offset 1 dB Ref 20.00 dBm	GHz PNO: Fast IFGain:Low	Trig: Free R #Atten: 40 dl	Avg Ty an Avg Ho B	ALIGN OFF pe: Log-Pwr Id>50/50 Mkr	85.4 ms (02:42:30 F TRAC 12:270 -46.2	3001 pts) 年 一月 03, 202 年 1, 23 4 5 6 所 24 5 6 1 6 1 4.75 dBm 1 4.75 dBm 1 6 1 4.75 dBm 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6	Frequency Auto Tu Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF Str 227.00000 M Auto Tu Auto Tu Trequency

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and <u>urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: **CN_Doccheck@egs.com**</u>





Report No.: ZR/2019/C002603 Page: 43 of 73

R	rum Analyzer - Swept RF 50 Ω			SEI	NSE:INT	4	ALIGN OFF	02:42:41 下	午一月 03,202	F
enter F	req 2.350000	PNO	D:Fast 🖵	Trig: Free #Atten: 4			e: Log-Pwr :>200/200	TRAC TYP DE	E 123456 E MWWWWW T P P P P P	Frequency
-ID taba	Ref Offset 1 dB		ain:Low	#Atten: 4	0 08		Mk	r1 2.34		Auto Tu
dB/div	Ref 20.00 dB							40.0		
0.0										Center Fi 2.350000000 G
0.0										2.350000000
.00										Start Fr
0.0										2.300000000
									-14.75 dBm	
0.0										Stop Fr 2.400000000 G
										CE O
0.0				<u>1</u>						CF St 10.000000 N
	www.	และจะเป็นไม่ไปไ	Mudaluati	1-11-11-1-11-11-11-11-11-11-11-11-11-11	Martin Martin	مريد مريد مريد مريد مريد مريد مريد مريد مريد مريد مريد مريد مريد مريد مريد	Brakle Revelouters		milindution	<u>Auto</u> N
										Freq Off
0.0										. 0
0.0										
								Stop 2.40	0000 GHz	
	0000 GHz		#\/B\A	(300 kHz			Sween 0	600 mc (1001 ptc)	
Res BW	100 kHz	Ana	#VBW	/ 300 kHz			Sweep 9	.600 ms (1001 pts)	2 8 4
Res BW 🛃 start	100 kHz		#VBW	/ 300 kHz			Sweep 9	.600 ms (1001 pts)	R
Res BW start ilent Spect	100 KHz Agilent Spectrum rum Analyzer - Swept RF 50 Q	AC			NSE:INT		Sweep 9	.600 ms (02:42:51 T	1001 pts) 午一月 03,202	1
Res BW start ilent Spect	100 kHz Agilent Spectrum	AC 0000 GHz PN0	Z D: Fast G) Trig: Free	NSE:INT	Avg Type	Sweep 9	.600 ms (02:42:51 F TRAC	1001 pts) 午一月 03,202 理 12 3 4 5 6	
Res BW start ilent Spect	100 KHz ali Agilent Spectrum rum Analyzer - Swept RF 50 Ω req 2.491750	AC OOO GHz PNC IFGa	Z	SE	NSE:INT	Avg Type	Sweep 9 ALIGN OFF a: Log-Pwr >200/200	.600 ms (02:42:51 TF TRAC TYP DE	1001 pts) 午 一月 03,202 ^元 123456 〒 P P P P P P	1
Res BW	100 KHz Agilent Spectrum rum Analyzer - Swept RF 50 Q	AC OOO GHz PNC IFGa	Z D: Fast G) Trig: Free	NSE:INT	Avg Type	Sweep 9 ALIGN OFF a: Log-Pwr >200/200	.600 ms (02:42:51 F TRAC TYP .488 723	1001 pts) 午 一月 03,202 理 12 3 4 5 6	Frequency
Res BW	100 kHz TAglent Spectrum rum Analyzer - Swept RF 50 2 ireq 2.491750 Ref Offset 1 dB	AC OOO GHz PNC IFGa	Z D: Fast G) Trig: Free	NSE:INT	Avg Type	Sweep 9 ALIGN OFF a: Log-Pwr >200/200	.600 ms (02:42:51 F TRAC TYP .488 723	1001 pts) <u>+ - Я 03,202</u> <u>1 2 3 4 5 6</u> <u>т</u> РРРРРР 5 0 GHz	Frequency Auto Tu
Res BW	100 kHz TAglent Spectrum rum Analyzer - Swept RF 50 2 ireq 2.491750 Ref Offset 1 dB	AC OOO GHz PNC IFGa	Z D: Fast G) Trig: Free	NSE:INT	Avg Type	Sweep 9 ALIGN OFF a: Log-Pwr >200/200	.600 ms (02:42:51 F TRAC TYP .488 723	1001 pts) <u>+ - Я 03,202</u> <u>1 2 3 4 5 6</u> <u>т</u> РРРРРР 5 0 GHz	Frequency
Res BW	100 kHz TAglent Spectrum rum Analyzer - Swept RF 50 2 ireq 2.491750 Ref Offset 1 dB	AC OOO GHz PNC IFGa	Z D: Fast G) Trig: Free	NSE:INT	Avg Type	Sweep 9 ALIGN OFF a: Log-Pwr >200/200	.600 ms (02:42:51 F TRAC TYP .488 723	1001 pts) <u>+ - Я 03,202</u> <u>1 2 3 4 5 6</u> <u>т</u> РРРРРР 5 0 GHz	Frequency Auto Tu Center Fr
Res BW	100 kHz TAglent Spectrum rum Analyzer - Swept RF 50 2 ireq 2.491750 Ref Offset 1 dB	AC OOO GHz PNC IFGa	Z D: Fast G) Trig: Free	NSE:INT	Avg Type	Sweep 9 ALIGN OFF a: Log-Pwr >200/200	.600 ms (02:42:51 F TRAC TYP .488 723	1001 pts) <u>+ - Я 03,202</u> <u>1 2 3 4 5 6</u> <u>т</u> РРРРРР 5 0 GHz	Frequency Auto Tu Center Fr 2.491750000 C Start Fr
Res BW start gilent Spect enter F	100 kHz TAglent Spectrum rum Analyzer - Swept RF 50 2 ireq 2.491750 Ref Offset 1 dB	AC OOO GHz PNC IFGa	Z D: Fast G) Trig: Free	NSE:INT	Avg Type	Sweep 9 ALIGN OFF a: Log-Pwr >200/200	.600 ms (02:42:51 F TRAC TYP .488 723	1001 pts) = – Я 03,202 = 1323456 = Муличини = Р Р Р Р Р Р 5 0 GHz 82 dBm	Frequency Auto Tu Center Fi 2.491750000 G
Res BW start enter F odB/div og	100 kHz TAglent Spectrum rum Analyzer - Swept RF 50 2 ireq 2.491750 Ref Offset 1 dB	AC OOO GHz PNC IFGa	Z D: Fast G) Trig: Free	NSE:INT	Avg Type	Sweep 9 ALIGN OFF a: Log-Pwr >200/200	.600 ms (02:42:51 F TRAC TYP .488 723	1001 pts) ^{午 — 月 03,202} ² 1 2 3 4 5 6 ²⁵ Мулиций т Р Р Р Р Р Р Р 5 0 GHz	Frequency Auto Tu Center Fr 2.491750000 0 Start Fr 2.483500000 0
Res BW start gilent Spect enter F	100 kHz TAglent Spectrum rum Analyzer - Swept RF 50 2 ireq 2.491750 Ref Offset 1 dB	AC OOO GHz PNC IFGa	Z D: Fast G) Trig: Free	NSE:INT	Avg Type	Sweep 9 ALIGN OFF a: Log-Pwr >200/200	.600 ms (02:42:51 F TRAC TYP .488 723	1001 pts) = – Я 03,202 = 1323456 = Муличини = Р Р Р Р Р Р 5 0 GHz 82 dBm	Frequency Auto Tu Center Fr 2.491750000 C Start Fr
Res BW start gilent Spect	100 kHz TAglent Spectrum rum Analyzer - Swept RF 50 2 ireq 2.491750 Ref Offset 1 dB	AC OOO GHz PNC IFGa	Z D: Fast G) Trig: Free	NSE:INT	Avg Type	Sweep 9 ALIGN OFF a: Log-Pwr >200/200	.600 ms (02:42:51 F TRAC TYP .488 723	1001 pts) = – Я 03,202 = 1323456 = Муличини = Р Р Р Р Р Р 5 0 GHz 82 dBm	Frequency Auto Tu Center Fr 2.491750000 c Start Fr 2.483500000 c Stop Fr
Res BW	100 kHz TAglent Spectrum rum Analyzer - Swept RF 50 2 ireq 2.491750 Ref Offset 1 dB	AC OOO GHz PNC IFGa	Z D: Fast G) Trig: Free	NSE:INT	Avg Type	Sweep 9 ALIGN OFF a: Log-Pwr >200/200	.600 ms (02:42:51 F TRAC TYP .488 723	1001 pts) = – Я 03,202 = 1323456 = Муличини = Р Р Р Р Р Р 5 0 GHz 82 dBm	Frequency Auto Tu Center Fr 2.491750000 c Start Fr 2.483500000 c Stop Fr 2.50000000 c
Res BW	100 KHZ Pl Aglent Spectrum rum Analyzer - Swept RF 50 Ω Greq 2.491750 Ref Offset 1 dB Ref 20.00 dB	SM AC OOO GH2 PNC IFG2 SM	Z D: Fast ↓ I	Ser Trig: Fre #Atten: 4	vse:int	Avg Type Avg Hold	Sweep 9 ALIGN OFF e: Log.Pwr >200/200 Mkr1 2	.600 ms (02:42:51 F TRAC TYN 97 -488 72: -48.4	1001 pts) 4 — Я 03,202 15 12 3 4 5 6 16 12 3 4 5 6 17 2 4 5 6 18 2 4 5 6 19 2 9 7 9 7 9 7 5 0 GHz 82 dBm	Frequency Auto Tu Center Fr 2.491750000 0 Start Fr 2.483500000 0 Stop Fr 2.500000000 0
Res BW	100 kHz TAglent Spectrum rum Analyzer - Swept RF 50 2 ireq 2.491750 Ref Offset 1 dB	SM AC OOO GH2 PNC IFG2 SM	Z D: Fast ↓ I	Ser Trig: Fre #Atten: 4	vse:int	Avg Type Avg Hold	Sweep 9 ALIGN OFF e: Log.Pwr >200/200 Mkr1 2	.600 ms (02:42:51 F TRAC TYN 97 -488 72: -48.4	1001 pts) 4 — Я 03,202 15 12 3 4 5 6 16 12 3 4 5 6 17 2 4 5 6 18 2 4 5 6 19 2 9 7 9 7 9 7 5 0 GHz 82 dBm	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.50000000 G CF St 1.650000 M
Res BW	100 KHZ Pl Aglent Spectrum rum Analyzer - Swept RF 50 Ω Greq 2.491750 Ref Offset 1 dB Ref 20.00 dB	SM AC OOO GH2 PNC IFG2 SM	Z D: Fast ↓ I	Ser Trig: Fre #Atten: 4	vse:int	Avg Type Avg Hold	Sweep 9 ALIGN OFF e: Log.Pwr >200/200 Mkr1 2	.600 ms (02:42:51 F TRAC TYN 97 -488 72: -48.4	1001 pts) 4 — Я 03,202 15 12 3 4 5 6 16 12 3 4 5 6 17 2 4 5 6 18 2 4 5 6 19 2 9 7 9 7 9 7 5 0 GHz 82 dBm	Start Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.50000000 G CF St 1.650000 M Auto M Freq Official
Res BW	100 KHZ Pl Aglent Spectrum rum Analyzer - Swept RF 50 Ω Greq 2.491750 Ref Offset 1 dB Ref 20.00 dB	SM AC OOO GH2 PNC IFG2 SM	Z D: Fast ↓ I	Ser Trig: Fre #Atten: 4	vse:int	Avg Type Avg Hold	Sweep 9 ALIGN OFF e: Log.Pwr >200/200 Mkr1 2	.600 ms (02:42:51 F TRAC TYN 97 -488 72: -48.4	1001 pts) 4 — Я 03,202 15 12 3 4 5 6 16 12 3 4 5 6 17 2 4 5 6 18 2 4 5 6 19 2 9 7 9 7 9 7 5 0 GHz 82 dBm	Start Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.50000000 G CF St 1.650000 M Auto
Res BW	100 KHZ Pl Aglent Spectrum rum Analyzer - Swept RF 50 Ω Greq 2.491750 Ref Offset 1 dB Ref 20.00 dB	SM AC OOO GH2 PNC IFG2 SM	Z D: Fast ↓ I	Ser Trig: Fre #Atten: 4	vse:int	Avg Type Avg Hold	Sweep 9 ALIGN OFF e: Log.Pwr >200/200 Mkr1 2	.600 ms (02:42:51 F TRAC TYN 97 -488 72: -48.4	1001 pts) 4 — Я 03,202 15 12 3 4 5 6 16 12 3 4 5 6 17 2 4 5 6 18 2 4 5 6 19 2 9 7 9 7 9 7 5 0 GHz 82 dBm	Start Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.50000000 G CF St 1.650000 M Auto M Freq Official
Res BW	100 KHZ III Aglent Spectrum rum Analyzer - Swept RF 50 Ω Treq 2.491750 Ref Offset 1 dB Ref 20.00 dB III - III Ref 20.00 dB	SM AC OOO GH2 PNC IFG2 SM	Z D: Fast ↓ I	Ser Trig: Fre #Atten: 4	vse:int	Avg Type Avg Hold	Sweep 9	.000 ms (02:42:51 F TRAC TY 9 .488 72: -48.4	1001 pts) 4 — Я 03,202 E 1 2 3 4 5 6 M 2 4 5 6 M 2 4 5 6 F P P P P P P 5 0 GHz 82 dBm 1475 dBn	Start Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.50000000 G CF St 1.650000 M Auto M Freq Official
dB/div g data data data data data data data data data <td>100 KHZ Pl Aglent Spectrum rum Analyzer - Swept RF 50 Ω Greq 2.491750 Ref Offset 1 dB Ref 20.00 dB</td> <td>SM AC OOO GH2 PNC IFG2 SM</td> <td>Z D: Fast ↓ 1</td> <td>Ser Trig: Fre #Atten: 4</td> <td></td> <td>Avg Type Avg Hold</td> <td>Sweep 9 ALIGN OFF :: Log.Pwr :>200/200 Mkr1 2</td> <td>02:42:51 آ الآلم الألم الم الم الم الم الم الم الم ا</td> <td>1001 pts) 4 — Я 03,202 E 1 2 3 4 5 6 M 2 4 5 6 M 2 4 5 6 F P P P P P P 5 0 GHz 82 dBm 1475 dBn</td> <td>Start Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.50000000 G CF St 1.650000 M Auto M Freq Official</td>	100 KHZ Pl Aglent Spectrum rum Analyzer - Swept RF 50 Ω Greq 2.491750 Ref Offset 1 dB Ref 20.00 dB	SM AC OOO GH2 PNC IFG2 SM	Z D: Fast ↓ 1	Ser Trig: Fre #Atten: 4		Avg Type Avg Hold	Sweep 9 ALIGN OFF :: Log.Pwr :>200/200 Mkr1 2	02:42:51 آ الآلم الألم الم الم الم الم الم الم الم ا	1001 pts) 4 — Я 03,202 E 1 2 3 4 5 6 M 2 4 5 6 M 2 4 5 6 F P P P P P P 5 0 GHz 82 dBm 1475 dBn	Start Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.50000000 G CF St 1.650000 M Auto M Freq Official

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





Report No.: ZR/2019/C002603 Page: 44 of 73



4.8.1.4 GFSK 2M_Lowest Channel



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





Report No.: ZR/2019/C002603 Page: 45 of 73

q 79.500 kHz Ref_Offset 1 dB	PNO: Wide 😱		Avg Type: Log-Pwr	TRACE TO BE A	
		Trig: Free Run #Atten: 26 dB	Avg Hold:>50/50	TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P P P P P	Frequency
	IFGain:Low	#Atten: 20 dB		Mkr1 9.000 kHz	Auto Tu
Ref 0.00 dBm				-51.688 dBm	
					Center Fre
					79.500 ki
					9.000 k
				-36.28 dBm	
					Stop Fr
					150.000 k
					0.5.04
					CF St 14.100 k
. Junio	ᡃ ^᠕ ᠈ᡩ᠕ᢇᢧᢧᢧᠯᡐᡶ _ᡆ ᡫ	And an I	- 0		<u>Auto</u> M
		an all will will will be	$\mathbb{C}^{\mathcal{O}}$	Marden mark allow	Freq Offs
					0
Hz				Stop 150.00 kHz	
	_	5.0 KHZ	oweep	134.0 m3 (001 pt3)	∎ ₽ ° ¢
RF 50 Ω <u>▲</u> DC		SENSE:INT	ALIGN OFF	02:47:22 下午 一月 03, 202	Frequency
q 15.075000 M	HZ PNO: Fast 🖵	Trig: Free Run			
			Avg Type: Log-Pwr Avg Hold:≻50/50	TRACE 123456 TYPE MWWWWW DET PPPPP	Trequency
	IFGain:Low	#Atten: 40 dB		TRACE 123456 TYPE MMMMMMM DET P P P P P P	
Ref Offset 1 dB Ref 20.00 dBm				Mkr1 150 kHz -42.448 dBm	
Ref Offset 1 dB Ref 20.00 dBm				Mkr1 150 kHz	Auto Tu
Ref Offset 1 dB Ref 20.00 dBm				Mkr1 150 kHz	Auto Tu Center Fr
Ref Offset 1 dB Ref 20.00 dBm				Mkr1 150 kHz	Auto Tu Center Fr
Ref Offset 1 dB Ref 20.00 dBm				Mkr1 150 kHz	Auto Tu Center Fr 15.075000 M Start Fr
Ref Offset 1 dB Ref 20.00 dBm				Mkr1 150 kHz	Auto Tu Center Fr 15.075000 M Start Fr
Ref Offset 1 dB Ref 20.00 dBm				Mkr1 150 kHz	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k
Ref Offset 1 dB Ref 20.00 dBm				Mkr1 150 kHz	Auto Tur Center Fr 15.075000 M Start Fr 150.000 k Stop Fr
Ref Offset 1 dB Ref 20.00 dBm				Mkr1 150 kHz -42.448 dBm	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr
Ref Offset 1 dB Ref 20.00 dBm				Mkr1 150 kHz -42.448 dBm	Auto Tur Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M
Ref Offset 1 dB Ref 20.00 dBm				Mkr1 150 kHz -42.448 dBm	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF St 2.985000 M
Ref Offset 1 dB Ref 20.00 dBm				Mkr1 150 kHz -42.448 dBm	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF Sto 2.985000 M Auto M
Ref 20.00 dBm	IFGain:Low	#Atten: 40 dB	Avg Hoid>50/50	Mkr1 150 kHz -42.448 dBm	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF Sto 2.985000 M Auto M
Ref 20.00 dBm	IFGain:Low	#Atten: 40 dB		Mkr1 150 kHz -42.448 dBm	Auto Tur Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF Sto 2.985000 M Auto M
Ref 20.00 dBm	IFGain:Low	#Atten: 40 dB	Avg Hoid>50/50	Mkr1 150 kHz -42.448 dBm	Auto Tur Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF Sto 2.985000 M Auto M
Ref 20.00 dBm	IFGain:Low	#Atten: 40 dB	Avg Hoid>50/50	Mkr1 150 kHz -42.448 dBm	Auto Tur Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF Stt 2.985000 M
	Hz D KHz I Aglent Spectrum Ana Analyzer - Swept SA RF SD Q ▲DC	Hz #VBW D kHz #VBW PU Aglent Spectrum Ana Analyzer - Swept SA RF 50 Q ▲ DC q 15.0750000 MHz	Hz #VBW 3.0 kHz ■ Aglent Spectrum Ana Analyzer - Swept SA RF 50 @ DC SENSE:INT	Hz D KHz #VBW 3.0 KHz Sweep ■ Aglent Spectrum Ana Analyzer - Sweept SA RF 50 Q DC SENSE:INT ALIGN OFF	Image: Stop 150.00 kHz Stop 150.00 kHz Stop 150.00 kHz Stop 150.00 kHz Stop 134.8 ms (601 pts)

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 atvised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) test retained for 30 days only. Attention. To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@gss.com

邮编: 518057 t (86-755) 26012053 f (86-755) 26710594

中国・深圳・科技园中区M-10栋一号厂房

Member of the SGS Group (SGS SA)

sgs.china@sgs.com



Report No.: ZR/2019/C002603 Page: 46 of 73

R	r <mark>um Analyzer - Swept S</mark> RF 50Ω A			SEN	VSE:INT	<u> </u>	ALIGN OFF	02:47:44 下	午一月 03,202	Frequency
enter F	req 1.1650000	PNO:	:Fast 🖵 n:Low	Trig: Free #Atten: 40		Avg Type Avg Hold:	e: Log-Pwr ⊳50/50	TRAC TYP DE	^{се} 1 2 3 4 5 6 Реминии ТРРРРРР	Trequency
dB/div	Ref Offset 1 dB Ref 20.00 dBr						Mkr	1 2.296	88 GHz 04 dBm	Auto Tu
										O
0.0										Center Fr 1.165000000 G
.00										Start Fr
0.0										30.000000 M
0.0									-16.28 dBm	
0.0										Stop Fr 2.300000000 G
0.0										2.300000000
0.0										CF St
									1	227.000000 M Auto M
0.0 <mark>uthinte</mark>									and an	
0.0										Freq Offs
										0
0.0										
art 20 h	147							Oton 2	200 CH2	
y start	AHZ 100 KHZ Agilent Spectrum A rum Analyzer - Swept S		#VBW	300 kHz			Sweep 2		.300 GHz 8001 pts)	P
Res BW start ilent Specto	100 kHz	A 00 GHz		SEM Trig: Free	NSE:INT		ALIGN OFF	02:47:56 F	8001 pts) 午 →月 03,202 注 112 3 4 5 6	Frequency
Res BW start ilent Specto	100 KHz Pl Aglent Spectrum A rum Analyzer - Swept S RF 50 Q A req 2.35000000	A 00 GHz PNO:	#VBW : Fast n:Low	SEN	NSE:INT	Avg Type	ALIGN OFF : Log-Pwr >200/200	17.1 ms (02:47:56 T TRAC TYP DE r1 2.400	8001 pts) 年 一月 03,202 第 12 3 4 5 6 所 M W W W W 町 P P P P P P 0 0 GHz	Frequency
Res BW start ilent Specto R enter F	100 kHz Agilent Spectrum A rum Analyzer - Swept S RF 50 Q A	A COGHZ PNO: IFGai	: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGN OFF : Log-Pwr >200/200	17.1 ms (02:47:56 T TRAC TYP DE r1 2.400	8001 pts) 年一月 03,202 電 123456 電 MWWWWW 町 P P P P P P P	Frequency
Res BW	100 kHz Aglent Spectrum A rum Analyzer - Swept S RF 50 Q A req 2.35000000 Ref Offset 1 dB	A COGHZ PNO: IFGai	: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGN OFF : Log-Pwr >200/200	17.1 ms (02:47:56 T TRAC TYP DE r1 2.400	8001 pts) 年 一月 03,202 第 12 3 4 5 6 所 M W W W W 町 P P P P P P 0 0 GHz	Frequency Auto Tu Center Fr
Res BW start ilent Specto R enter F	100 kHz Aglent Spectrum A rum Analyzer - Swept S RF 50 Q A req 2.35000000 Ref Offset 1 dB	A COGHZ PNO: IFGai	: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGN OFF : Log-Pwr >200/200	17.1 ms (02:47:56 T TRAC TYP DE r1 2.400	8001 pts) 年 一月 03,202 第 12 3 4 5 6 所 M W W W W 町 P P P P P P 0 0 GHz	Frequency Auto Tu Center Fr
Res BW start ilent Spect enter F od B/div od B/div	100 kHz Aglent Spectrum A rum Analyzer - Swept S RF 50 Q A req 2.35000000 Ref Offset 1 dB	A C OO GHz PNO: IFGai	: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGN OFF : Log-Pwr >200/200	17.1 ms (02:47:56 T TRAC TYP DE r1 2.400	8001 pts) 年 一月 03,202 第 12 3 4 5 6 所 M W W W W 町 P P P P P P 0 0 GHz	Frequency Auto Tu Center Fr 2.35000000 G
Res BW start ilent Spect enter F d dB/div g 0.0 0.0 0.0 0.0 0.0 0.0 0.0	100 kHz Aglent Spectrum A rum Analyzer - Swept S RF 50 Q A req 2.35000000 Ref Offset 1 dB	A C OO GHz PNO: IFGai	: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGN OFF : Log-Pwr >200/200	17.1 ms (02:47:56 T TRAC TYP DE r1 2.400	8001 pts) 年 一月 03,202 第 12 3 4 5 6 所 M W W W W 町 P P P P P P 0 0 GHz	Frequency Auto Tu Center Fr 2.35000000 G Start Fr
Res BW start ilent Spect enter F d dB/div g 0.0 0.0 0.0 0.0 0.0 0.0 0.0	100 kHz Aglent Spectrum A rum Analyzer - Swept S RF 50 Q A req 2.35000000 Ref Offset 1 dB	A C OO GHz PNO: IFGai	: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGN OFF : Log-Pwr >200/200	17.1 ms (02:47:56 T TRAC TYP DE r1 2.400	8001 pts) 年 一月 03,202 第 12 3 4 5 6 所 M W W W W 町 P P P P P P 0 0 GHz	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G
Res BW	100 kHz Aglent Spectrum A rum Analyzer - Swept S RF 50 Q A req 2.35000000 Ref Offset 1 dB	A C OO GHz PNO: IFGai	: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGN OFF : Log-Pwr >200/200	17.1 ms (02:47:56 T TRAC TYP DE r1 2.400	8001 pts) 年 — 月 03,202 年 1 2 3 4 5 6 年 MWWWW 日 P P P P P 0 0 GHz 88 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr
Res BW start ilent Spector enter F 0 dB/div 0 dB/div 0 dB/div 0 dB/div	100 kHz Aglent Spectrum A rum Analyzer - Swept S RF 50 Q A req 2.35000000 Ref Offset 1 dB	A C OO GHz PNO: IFGai	: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGN OFF : Log-Pwr >200/200	17.1 ms (02:47:56 T TRAC TYP DE r1 2.400	8001 pts) 年 — 月 03,202 年 1 2 3 4 5 6 年 MWWWW 日 P P P P P 0 0 GHz 88 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G
Res BW	100 kHz Aglent Spectrum A rum Analyzer - Swept S RF 50 Q A req 2.35000000 Ref Offset 1 dB	A C OO GHz PNO: IFGai	: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGN OFF : Log-Pwr >200/200	17.1 ms (02:47:56 T TRAC TYP DE r1 2.400	8001 pts) 年 — 月 03,202 年 1 2 3 4 5 6 年 MWWWW 日 P P P P P 0 0 GHz 88 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G
Res BW start ilent Specto R	100 kHz Aglent Spectrum A rum Analyzer - Swept S RF 50 Q A req 2.35000000 Ref Offset 1 dB	A C OO GHz PNO: IFGai	: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGN OFF : Log-Pwr >200/200	17.1 ms (02:47:56 T TRAC TYP DE r1 2.400	8001 pts) 年 — 月 03,202 年 1 2 3 4 5 6 年 MWWWW 日 P P P P P 0 0 GHz 88 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.30000000 G Start Fr 2.30000000 G Stop Fr 2.40000000 G CF St 10.00000 M
Res BW	100 kHz Ref Offset 1 dB Ref 20.00 dBr	A C OO GHz PNO: IFGai n	: Fast	Trig: Free #Atten: 40	vse.int	Avg Type Avg Hold:	ALIGN OFF : Log-Pwr >200/200 MIK	17.1 ms (02:47:56 T TRAG TYP PE r1 2.400 -46.31	年 一月 03, 202 年 一月 03, 202 年 123 4 5 6 例 203 4 5 6 例 204 5 6 例 204 5 6 の GHz 88 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G
Res BW	100 kHz Aglent Spectrum A rum Analyzer - Swept S RF 50 Q A req 2.35000000 Ref Offset 1 dB	A C OO GHz PNO: IFGai n	: Fast	Trig: Free #Atten: 40	vse.int	Avg Type Avg Hold:	ALIGN OFF : Log-Pwr >200/200 MIK	17.1 ms (02:47:56 T TRAG TYP PE r1 2.400 -46.31	年 一月 03, 202 年 一月 03, 202 年 123 4 5 6 例 203 4 5 6 例 204 5 6 例 204 5 6 の GHz 88 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.40000000 G CF St 10.00000 M Auto M
Res BW	100 kHz Ref Offset 1 dB Ref 20.00 dBr	A C OO GHz PNO: IFGai n	: Fast	Trig: Free #Atten: 40	vse.int	Avg Type Avg Hold:	ALIGN OFF : Log-Pwr >200/200 MIK	17.1 ms (02:47:56 T TRAG TYP PE r1 2.400 -46.31	年 一月 03, 202 年 一月 03, 202 年 123 4 5 6 例 203 4 5 6 例 204 5 6 例 204 5 6 の GHz 88 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.30000000 G Start Fr 2.30000000 G Stop Fr 2.40000000 G CF St 10.00000 M
Res BW	100 kHz Ref Offset 1 dB Ref 20.00 dBr	A C OO GHz PNO: IFGai n	: Fast	Trig: Free #Atten: 40	vse.int	Avg Type Avg Hold:	ALIGN OFF : Log-Pwr >200/200 MIK	17.1 ms (02:47:56 T TRAG TYP PE r1 2.400 -46.31	年 一月 03, 202 年 一月 03, 202 年 123 4 5 6 例 203 4 5 6 例 204 5 6 例 204 5 6 の GHz 88 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF St 10.000000 M Auto Auto Tu Stop Fr 2.400000000 M Freq Offs
Res BW	100 kHz Ref Offset 1 dB Ref 20.00 dBr	A C OO GHz PNO: IFGai n	: Fast	Trig: Free #Atten: 40	vse.int	Avg Type Avg Hold:	ALIGN OFF : Log-Pwr >200/200 MIK	17.1 ms (02:47:56 T TRAG TYP PE r1 2.400 -46.31	年 一月 03, 202 年 一月 03, 202 年 123 4 5 6 例 203 4 5 6 例 204 5 6 例 204 5 6 の GHz 88 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF St 10.00000 M Auto Auto Tu Stop Fr 2.40000000 M Freq Offs
Res BW	100 kHz Ref Offset 1 dB Ref 20.00 dBr	A C OO GHz PNO: IFGai n	Fast	Trig: Free #Atten: 40		Avg Type Avg Hold:	ALIGN OFF : Log-Pwr > 200/200 MIK	17.1 ms (02:47:56 F TRAC TV V P r1 2.400 -46.31	年 一月 03, 202 年 一月 03, 202 年 123 4 5 6 第 9 9 9 9 9 9 9 9 0 0 GHz 88 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF St 10.00000 M Auto Auto Tu Stop Fr 2.40000000 M Freq Offs

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





Report No.: ZR/2019/C002603 Page: 47 of 73

	r <mark>um Analyzer - Swept S</mark> RF 50 Ω AG		CENCEJI	IT.		00/40/0E T	在 1月 00 000	
	req 2.4917500	00 GHz	SENSE:IN	Avg Ty	ALIGN OFF		午一月 03,202 ^注 123456 窄 MWWWWW	Frequency
		PNO: Fast 😱 IFGain:Low	Trig: Free Rui #Atten: 40 dB	n Avginoi	d:>200/200	DE	ТРРРРР	
	Ref Offset 1 dB				Mkr1 2	489 49	5 0 GHz 49 dBm	Auto Tun
0 dB/div .og	Ref 20.00 dBn	n				-48.8	49 aBm	
								Center Fre
10.0								2.491750000 GH
0.00								
								Start Fre
10.0								2.483500000 GI
20.0							-16.28 dBm	
20.0								Stop Fre
30.0								2.500000000 GH
								CF Ste
40.0		<u>1</u>						1.650000 MH
50.0	n	mr. Mh. Mar	5.1.1.150 - 0 K	Machine all that an			here has	<u>Auto</u> Ma
1 የትግ በ	Valva allo Allo Allo Allo	1.1.4.4.5.1	~~~ ሀ~ ነ፦ የ የ የ ህ ዓ ላ ላ	∿	-101- 100 B 01-1	a Aurora Mar	1 . YWW W-	Ereg Offe
60.0								Freq Offs 0 H
70.0								
10.0								
tart 2.49	3500 GHz					ton 2 50(0000 GHz	
la L Z d						10p 2.300		
Res BW		#VBW	300 kHz		Sweep	1.600 ms	(601 pts)	
		_	300 kHz		Sweep	1.600 ms	(601 pts)	R : <
FRes BW Frestart Bilent Specti	100 KHz Agilent Spectrum Ar um Analyzer - Swept So	na			Sweep	1.600 ms	(601 pts)	0 ° <
Res BW frees BW freestart gilent Spectro R	100 kHz I Agilent Spectrum Ar um Analyzer - Swept St RF 50 Ω AC	ла А	SENSE:IN	Avg Ty	Sweep	02:48:39 下	午一月 03,202	ि ् ् र
Res BW frees BW freestart gilent Spectro R	100 KHz Agilent Spectrum Ar um Analyzer - Swept So	A A 000 GHz PN0: Fast Q	SENSE:IN	Avg Ty	Sweep	02:48:39 下		
Res BW frees BW freestart gilent Spectro R	100 kHz Aglent Spectrum Ar um Analyzer - Swept S RF 50 Q AC req 14.500000	na A 0000 GHz	SENSE:IN Trig: Free Rui	Avg Ty	ALIGN OFF pe: Log-Pwr d: 10/10	02:48:39 下 TRAC TYF DE	午一月 03,202	
Res BW	100 kHz I Agilent Spectrum Ar um Analyzer - Swept St RF 50 Ω AC	A 000 GHz PN0: Fast IFGain:Low	SENSE:IN Trig: Free Rui	Avg Ty	ALIGN OFF pe: Log-Pwr d: 10/10	02:48:39 TF TRAC TY DE Kr1 26.4	午一月03,202 〒123456 〒PPPPP	Frequency
Res BW start gilent Specto R Center F	100 kHz Aglent Spectrum Ar um Analyzer - Swept S RF 50 Ω Ac req 14.500000 Ref Offset 1 dB	A 000 GHz PN0: Fast IFGain:Low	SENSE:IN Trig: Free Rui	Avg Ty	ALIGN OFF pe: Log-Pwr d: 10/10	02:48:39 TF TRAC TY DE Kr1 26.4	年 →月 03,202 注] 2 3 4 5 6 円 ₩₩₩₩₩₩₩₩ 町 P P P P P P 6 1 GHz	Frequency Auto Tur
Res BW	100 kHz Aglent Spectrum Ar um Analyzer - Swept S RF 50 Ω Ac req 14.500000 Ref Offset 1 dB	A 000 GHz PN0: Fast IFGain:Low	SENSE:IN Trig: Free Rui	Avg Ty	ALIGN OFF pe: Log-Pwr d: 10/10	02:48:39 TF TRAC TY DE Kr1 26.4	年 →月 03,202 注] 2 3 4 5 6 円 ₩₩₩₩₩₩₩₩ 町 P P P P P P 6 1 GHz	Frequency Auto Tur Center Fre
R BW	100 kHz Aglent Spectrum Ar um Analyzer - Swept S RF 50 Ω Ac req 14.500000 Ref Offset 1 dB	A 000 GHz PN0: Fast IFGain:Low	SENSE:IN Trig: Free Rui	Avg Ty	ALIGN OFF pe: Log-Pwr d: 10/10	02:48:39 TF TRAC TY DE Kr1 26.4	年 →月 03,202 注] 2 3 4 5 6 円 ₩₩₩₩₩₩₩₩ 町 P P P P P P 6 1 GHz	Frequency Auto Tur Center Fre
Res BW start gilent Specto R Center F	100 kHz Aglent Spectrum Ar um Analyzer - Swept S RF 50 Ω Ac req 14.500000 Ref Offset 1 dB	A 000 GHz PN0: Fast IFGain:Low	SENSE:IN Trig: Free Rui	Avg Ty	ALIGN OFF pe: Log-Pwr d: 10/10	02:48:39 TF TRAC TY DE Kr1 26.4	年 →月 03,202 注] 2 3 4 5 6 円 ₩₩₩₩₩₩₩₩ 町 P P P P P P 6 1 GHz	Frequency Auto Tur Center Fre 14.50000000 G
R BW	100 kHz Aglent Spectrum Ar um Analyzer - Swept S RF 50 Ω Ac req 14.500000 Ref Offset 1 dB	A 000 GHz PN0: Fast IFGain:Low	SENSE:IN Trig: Free Rui	Avg Ty	ALIGN OFF pe: Log-Pwr d: 10/10	02:48:39 TF TRAC TY DE Kr1 26.4	年 →月 03,202 注] 2 3 4 5 6 円 ₩₩₩₩₩₩₩₩ 町 P P P P P P 6 1 GHz	Frequency Auto Tur Center Fre 14.50000000 GH
Res BW start gilent Spectr gilent Spectr Center F Center F 10.0 0.00	100 kHz Aglent Spectrum Ar um Analyzer - Swept S RF 50 Ω Ac req 14.500000 Ref Offset 1 dB	A 000 GHz PN0: Fast IFGain:Low	SENSE:IN Trig: Free Rui	Avg Ty	ALIGN OFF pe: Log-Pwr d: 10/10	02:48:39 TF TRAC TY DE Kr1 26.4	年 →月 03,202 注] 2 3 4 5 6 円 ₩₩₩₩₩₩₩₩ 町 P P P P P P 6 1 GHz	Frequency Auto Tur Center Fre 14.50000000 GH Start Fre
Res BW start gilent Spectr gilent Spectr Center F Center F 10.0 0.00	100 kHz Aglent Spectrum Ar um Analyzer - Swept S RF 50 Ω Ac req 14.500000 Ref Offset 1 dB	A 000 GHz PN0: Fast IFGain:Low	SENSE:IN Trig: Free Rui	Avg Ty	ALIGN OFF pe: Log-Pwr d: 10/10	02:48:39 TF TRAC TY DE Kr1 26.4	年 — 月 03,202 € <u>1</u> 2 3 4 5 6 € Mwwwww TP P P P P P P 61 GHz 98 dBm	Frequency Auto Tur Center Fre 14.50000000 GH Start Fre 2.500000000 GH
#Res BW # start gilent Spectro R Center F Conter F 10.0 10.0 10.0	100 kHz Aglent Spectrum Ar um Analyzer - Swept S RF 50 Ω Ac req 14.500000 Ref Offset 1 dB	A 000 GHz PN0: Fast IFGain:Low	SENSE:IN Trig: Free Rui	Avg Ty	ALIGN OFF pe: Log-Pwr d: 10/10	02:48:39 TF TRAC TY DE Kr1 26.4	年 — 月 03,202 € <u>1</u> 2 3 4 5 6 € Mwwwww TP P P P P P P 61 GHz 98 dBm	Frequency Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH Stop Fre
#Res BW # start gilent Spectro R Center F Conter F 10.0 10.0 10.0	100 kHz Aglent Spectrum Ar um Analyzer - Swept S RF 50 Ω Ac req 14.500000 Ref Offset 1 dB	A 000 GHz PN0: Fast IFGain:Low	SENSE:IN Trig: Free Rui	Avg Ty	ALIGN OFF pe: Log-Pwr d: 10/10	02:48:39 TF TRAC TY DE Kr1 26.4	年 — 月 03,202 € <u>1</u> 2 3 4 5 6 € Mwwwww TP P P P P P P 61 GHz 98 dBm	Frequency Auto Tur Center Fre 14.50000000 GH Start Fre 2.500000000 GH Stop Fre 26.50000000 GH
#Res BW # start gilent Spectro R Center F Conter F 10.0 10.0 10.0	100 kHz Aglent Spectrum Ar um Analyzer - Swept S RF 50 Ω Ac req 14.500000 Ref Offset 1 dB	A 000 GHz PN0: Fast IFGain:Low	SENSE:IN Trig: Free Ru #Atten: 40 dB	Avg Tyj Avg Hol	Sweep	02:48:39 T TRAC TVY D kr1 26.4 -38.6	<u>4</u> — 月 03, 202 E 1 2 3 4 5 6 E MWWWWW E P P P P P P 61 GHz 98 dBm 	Frequency Auto Tur Center Fre 14.50000000 GH 2.50000000 GH 26.50000000 GH 26.50000000 GH
Res BW # start gilent Spectra Q R CodB/div O	100 kHz I Aglent Spectrum Ar Aram Analyzer - Swept S. RF 50 Q Ad req 14.500000 Ref Offset 1 dB Ref 20.00 dBn	No	SENSE:IN Trig: Free Ru #Atten: 40 dB	Avg Tyj Avg Hol	Sweep	02:48:39 T TRAC TVY D kr1 26.4 -38.6	年 — 月 03,200 E 1 2:3 4 5 6 E MWAND F P P P P P P 61 GHz 98 dBm	Frequency Auto Tur Center Fre 14.50000000 GF Start Fre 2.50000000 GF Stop Fre 26.50000000 GF CF Ste 2.40000000 GF
#Res BW # start gilent Spectric R Center F 0 dB/div 0 dB/div	100 kHz IM Aglent Spectrum Ar Im Analyzer - Swept Si RF S0 Q Ad req 14.500000 Ref Offset1 dB Ref 20.00 dBn	No	SENSE:IN Trig: Free Ru #Atten: 40 dB	Avg Ty	Sweep	02:48:39 T TRAC TVY D kr1 26.4 -38.6	<u>4</u> — 月 03, 202 E 1 2 3 4 5 6 E MWWWWW E P P P P P P 61 GHz 98 dBm 	Frequency Auto Tur Center Fre 14.50000000 GF Start Fre 2.50000000 GF Stop Fre 26.50000000 GF CF Ste 2.40000000 GF
O dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz IM Aglent Spectrum Ar Im Analyzer - Swept Si RF S0 Q Ad req 14.500000 Ref Offset1 dB Ref 20.00 dBn	No	SENSE:IN Trig: Free Ru #Atten: 40 dB	Avg Tyj Avg Hol	Sweep	02:48:39 T TRAC TVY D kr1 26.4 -38.6	<u>4</u> — 月 03, 202 E 1 2 3 4 5 6 E MWWWWW E P P P P P P 61 GHz 98 dBm 	Frequency Auto Tur Center Fre 14.50000000 GF Start Fre 2.50000000 GF Stop Fre 26.50000000 GF 2.40000000 GF Auto Tur CF Ste 2.40000000 GF Auto Tur Auto Tur Stop Fre 2.40000000 GF Auto Ma Freq Offs
Res BW # start gjlent Spectri gjlent Spectri Code 0 d B/div O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz IM Aglent Spectrum Ar Im Analyzer - Swept Si RF S0 Q Ad req 14.500000 Ref Offset1 dB Ref 20.00 dBn	No	SENSE:IN Trig: Free Ru #Atten: 40 dB	Avg Tyj Avg Hol	Sweep	02:48:39 T TRAC TVY D kr1 26.4 -38.6	<u>4</u> — 月 03, 202 E 1 2 3 4 5 6 E MWWWWW E P P P P P P 61 GHz 98 dBm 	Frequency Auto Tur Center Fre 14.50000000 GF Start Fre 2.50000000 GF Stop Fre 26.50000000 GF 26.50000000 GF 26.50000000 GF 2.40000000 GF Auto Mato Auto Strep Freq Offsa
Res BW # start gjlent Spectri gjlent Spectri Code 0 d B/div O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz IM Aglent Spectrum Ar Im Analyzer - Swept Si RF S0 Q Ad req 14.500000 Ref Offset1 dB Ref 20.00 dBn	No	SENSE:IN Trig: Free Ru #Atten: 40 dB	Avg Tyj Avg Hol	Sweep	02:48:39 T TRAC TVY D kr1 26.4 -38.6	<u>4</u> — 月 03, 202 E 1 2 3 4 5 6 E MWWWWW E P P P P P P 61 GHz 98 dBm 	Frequency Auto Tur Center Fre 14.50000000 GF Start Fre 2.50000000 GF Stop Fre 26.50000000 GF CF Ste 2.40000000 GF
Res BW start gilent Spectric gilent Spectric Code/div Odd	100 kHz IM Aglent Spectrum Ar Im Analyzer - Swept Si RF S0 Q Ad req 14.500000 Ref Offset1 dB Ref 20.00 dBn	No	SENSE:IN Trig: Free Ru #Atten: 40 dB	Avg Tyj Avg Hol	Sweep	02:48:39 T TRAC TVY D kr1 26.4 -38.6	<u>4</u> — 月 03, 202 E 1 2 3 4 5 6 E MWWWWW E P P P P P P 61 GHz 98 dBm 	Frequency Auto Tur Center Fre 14.50000000 GF Start Fre 2.50000000 GF Stop Fre 26.50000000 GF 26.50000000 GF 26.50000000 GF 2.40000000 GF Auto Mato Auto Strep Freq Offsa
Res BW start gilent Spectric gilent Spectric Code/div Odd	100 kHz Image: Sector of A Image: Sector of	No	SENSE:IN Trig: Free Ru #Atten: 40 dB	Avg Tyj Avg Hol	Sweep ALIGN OFF pe: Log-Pwr d: 10/10 M	02:49:39 T TRAC TYI Kr1 26.4 -38.6	<u>4</u> — 月 03, 202 E 1 2 3 4 5 6 E MWWWWW E P P P P P P 61 GHz 98 dBm 	Frequency Auto Tur Center Fre 14.50000000 GF Start Fre 2.50000000 GF Stop Fre 26.50000000 GF 26.50000000 GF 26.50000000 GF 2.40000000 GF Auto Mato Auto Strep Freq Offsa

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and <u>urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: **CN_Doccheck@egs.com**</u>



Report No.: ZR/2019/C002603 Page: 48 of 73





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

邮编: 518057 t (86-755) 26012053 f (86-755) 26710594



中国・深圳・科技园中区M-10栋一号厂房

sgs.china@sgs.com



Report No.: ZR/2019/C002603 Page: 49 of 73

gilent Spect R	RF 50 Ω			SEI	VSE:INT	4	ALIGN OFF	02:51:28 下	午一月 03,202	Frequency
enter F	req 15.0750		PNO: Fast 🗔 FGain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold:	e: Log-Pwr :>50/50	TRAC TYF DE	E 123456 E MWWWWW T P P P P P P	Trequency
0 dB/div	Ref Offset 1 d Ref 20.00 d	IB	-Gam.Low	Witter in the				Mkr1 ′	150 kHz 40 dBm	Auto Tur
og										Center Fre
10.0										15.075000 Mi
).00 ——										
										Start Fre 150.000 ki
0.0										
20.0									-25.62 dBm	Stop Fre
0.0										30.000000 MI
1 10.0										CF Ste 2.985000 Mi
50.0										Auto Ma
.0.0										Freq Offs
0.0	(nalation to be fail in the line			ulling and the	and we have to	and the state	iligadin (di kaling di ka	والطانية ومعداوتهم	in the second second second	01
/0.0										
4	1.11-									
tart 150 Res BW			#VBV	V 30 kHz			Sweep 2	Stop 3 85.4 ms (0.00 MHz 3001 pts)	
		um Ana	#VBM	V 30 kHz	1		Sweep 2			n : 📢
Res BW	10 kHz	ept SA	#VBW		NSE:INT			85.4 ms (3001 pts)	_
Res BW start gilent Specti	10 kHz Di Agilent Spectr rum Analyzer - Swe	ept SA AC 10000 G	Hz PNO: Fast ⊊) Trig: Free			ALIGN OFF	85.4 ms (02:51:49 T	3001 pts) 午一月 03,202	
Res BW start gilent Specti	10 kHz I Agilent Spectr rum Analyzer - Swe RF 50 ឆ្ req 1.16500	ept SA AC 100000 G	Hz	SEP	e Run	<u>/</u> Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:51:49 T TRAC TYP DE 1 2.026	3001 pts) ⁺ - <u>-</u> д 03,202 ^E 1 2 3 4 5 6 ^E М ⁻ Р Р Р Р Р Р 47 GHz	Frequency
Res BW start gilent Specti	10 kHz Agilent Spectr rum Analyzer - Swe RF 50 Ω	Ept SA AC 100000 G	Hz PNO: Fast ⊊) Trig: Free	e Run	<u>/</u> Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:51:49 T TRAC TYP DE 1 2.026	3001 pts) 午 一月 03,202 E 1 2 3 4 5 6 E M WWWWW T P P P P P P	Frequency
Res BW	10 kHz Aglent Spectr rum Analyzer - Swe RF 50 Q req 1.16500 Ref Offset 1 d	Ept SA AC 100000 G	Hz PNO: Fast ⊊) Trig: Free	e Run	<u>/</u> Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:51:49 T TRAC TYP DE 1 2.026	3001 pts) ⁺ - <u>-</u> д 03,202 ^E 1 2 3 4 5 6 ^E М ⁻ Р Р Р Р Р Р 47 GHz	Frequency Auto Tur Center Fre
Res BW	10 kHz Aglent Spectr rum Analyzer - Swe RF 50 Q req 1.16500 Ref Offset 1 d	Ept SA AC 100000 G	Hz PNO: Fast ⊊) Trig: Free	e Run	<u>/</u> Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:51:49 T TRAC TYP DE 1 2.026	3001 pts) ⁺ - <u>-</u> д 03,202 ^E 1 2 3 4 5 6 ^E М ⁻ Р Р Р Р Р Р 47 GHz	Frequency Auto Tur Center Fre
Res BW	10 kHz Aglent Spectr rum Analyzer - Swe RF 50 Q req 1.16500 Ref Offset 1 d	Ept SA AC 100000 G	Hz PNO: Fast ⊊) Trig: Free	e Run	<u>/</u> Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:51:49 T TRAC TYP DE 1 2.026	3001 pts) ⁺ - <u>-</u> д 03,202 ^E 1 2 3 4 5 6 ^E М ⁻ Р Р Р Р Р Р 47 GHz	Frequency Auto Tur Center Fre 1.165000000 G
Res BW	10 kHz Aglent Spectr rum Analyzer - Swe RF 50 Q req 1.16500 Ref Offset 1 d	Ept SA AC 100000 G	Hz PNO: Fast ⊊) Trig: Free	e Run	<u>/</u> Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:51:49 T TRAC TYP DE 1 2.026	3001 pts) 年 - 月 03,202 日 123456 田 23456 田 23456 日 23456 日 23456 日 23456 日 23456 日 23456 日 23456 日 24345 日 243456 日 145456 日 243456 日 24356 日 24356 日 24556 日 25556 日 24556 日 245567 日 245567 日 245567 日 245567 日 2455767 日 2455767 日 2455767 日 24557767 日 24557767 日 245577777777777777777777777777777777777	Frequency Auto Tur Center Fro 1.16500000 Gi Start Fro
Res BW	10 kHz Aglent Spectr rum Analyzer - Swe RF 50 Q req 1.16500 Ref Offset 1 d	Ept SA AC 100000 G	Hz PNO: Fast ⊊) Trig: Free	e Run	<u>/</u> Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:51:49 T TRAC TYP DE 1 2.026	3001 pts) ⁺ - <u>-</u> д 03,202 ^E 1 2 3 4 5 6 ^E М ⁻ Р Р Р Р Р Р 47 GHz	Frequency Auto Tur Center Fre 1.16500000 GI Start Fre 30.000000 Mi
Res BW	10 kHz Aglent Spectr rum Analyzer - Swe RF 50 Q req 1.16500 Ref Offset 1 d	Ept SA AC 100000 G	Hz PNO: Fast ⊊) Trig: Free	e Run	<u>/</u> Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:51:49 T TRAC TYP DE 1 2.026	3001 pts) 年 - 月 03,202 日 123456 田 23456 田 23456 日 23456 日 23456 日 23456 日 23456 日 23456 日 23456 日 24345 日 243456 日 145456 日 243456 日 24356 日 24356 日 24556 日 25556 日 24556 日 245567 日 245567 日 245567 日 245567 日 2455767 日 2455767 日 2455767 日 24557767 日 24557767 日 245577777777777777777777777777777777777	Frequency Auto Tur
Res BW	10 kHz Aglent Spectr rum Analyzer - Swe RF 50 Q req 1.16500 Ref Offset 1 d	Ept SA AC 100000 G	Hz PNO: Fast ⊊) Trig: Free	e Run	<u>/</u> Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:51:49 T TRAC TYP DE 1 2.026	3001 pts) 年 - 月 03,202 日 123456 田 23456 田 23456 日 23456 日 23456 日 23456 日 23456 日 23456 日 23456 日 24345 日 243456 日 145456 日 243456 日 24356 日 24356 日 24556 日 25556 日 24556 日 245567 日 245567 日 245567 日 245567 日 2455767 日 2455767 日 2455767 日 24557767 日 24557767 日 245577777777777777777777777777777777777	Frequency Auto Tur Center Fre 1.165000000 GI Start Fre 30.000000 MI Stop Fre 2.30000000 GI
Res BW	10 kHz Aglent Spectr rum Analyzer - Swe RF 50 Q req 1.16500 Ref Offset 1 d	Ept SA AC 100000 G	Hz PNO: Fast ⊊) Trig: Free	e Run	<u>/</u> Avg Type	ALIGN OFF : Log-Pwr >50/50	85.4 ms (02:51:49 T TRAC TYP DE 1 2.026	3001 pts) 年 - 月 03,202 日 123456 田 23456 田 23456 日 23456 日 23456 日 23456 日 23456 日 23456 日 23456 日 24345 日 243456 日 145456 日 243456 日 24356 日 24356 日 24556 日 25556 日 24556 日 245567 日 245567 日 245567 日 245567 日 2455767 日 2455767 日 2455767 日 24557767 日 24557767 日 245577777777777777777777777777777777777	Frequency Auto Tur Center Fre 1.165000000 Gl Start Fre 30.000000 Ml Stop Fre 2.300000000 Gl CF Ste 227.000000 Ml
Res BW	10 kHz Aglent Spectr rum Analyzer - Swe RF 50 Q req 1.16500 Ref Offset 1 d	IB BBM	Hz PN0: Fast FGain:Low	Trig: Free #Atten: 44	e Run 0 dB	4 Avg Type Avg Hold	ALIGN OFF : Log-Pwr >50/50 MKr	85.4 ms (02:51:49 T TRAC TYP DE 1 2.026	3001 pts) 年 - 月 03,202 日 123456 田 23456 田 23456 日 23456 日 23456 日 23456 日 23456 日 23456 日 23456 日 24345 日 243456 日 145456 日 243456 日 24356 日 24356 日 24556 日 25556 日 24556 日 245567 日 245567 日 245567 日 245576 日 245576 日 2455767 日 2455767 日 2455767 日 24557767 日 24557777 日 245577777777777777777777777777777777777	Frequency Auto Tur Center Fre 1.165000000 GI Start Fre 30.000000 MI Stop Fre 2.300000000 GI CF Ste 227.000000 MI
Res BW	10 kHz	IB BBM	Hz PN0: Fast Gain:Low	Trig: Free #Atten: 44	e Run 0 dB	4 Avg Type Avg Hold	ALIGN OFF : Log-Pwr >50/50 MKr	85.4 ms (02:51:49 T TRAC TYP DE 1 2.026	3001 pts) 年 - 月 03,202 日 123456 田 23456 田 23456 日 23456 日 23456 日 23456 日 23456 日 23456 日 23456 日 24345 日 243456 日 145456 日 243456 日 24356 日 24356 日 24556 日 25556 日 24556 日 245567 日 245567 日 245567 日 245576 日 245576 日 2455767 日 2455767 日 2455767 日 24557767 日 24557777 日 245577777777777777777777777777777777777	Frequency Auto Tur Center Fre 1.165000000 GF Start Fre 30.000000 MF Stop Fre 2.300000000 GF 227.000000 MF Auto Auto Auto Tur
Res BW start gilent Spectr R Senter F Senter F 99 10.0 90 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	10 kHz	IB BBM	Hz PN0: Fast FGain:Low	Trig: Free #Atten: 44	e Run 0 dB	4 Avg Type Avg Hold	ALIGN OFF : Log-Pwr >50/50 MKr	85.4 ms (02:51:49 T TRAC TYP DE 1 2.026	3001 pts) 年 - 月 03,202 日 123456 田 23456 田 23456 日 23456 日 23456 日 23456 日 23456 日 23456 日 23456 日 24345 日 243456 日 145456 日 243456 日 24356 日 24356 日 24556 日 25556 日 24556 日 245567 日 245567 日 245567 日 245576 日 245576 日 2455767 日 2455767 日 2455767 日 24557767 日 24557777 日 245577777777777777777777777777777777777	Frequency Auto Tur Center Fro 1.165000000 Gi Start Fro 30.000000 Mi Stop Fro 2.30000000 Gi 227.00000 Mi Auto Mi Freq Offs
Res BW	10 kHz	IB BBM	Hz PN0: Fast FGain:Low	Trig: Free #Atten: 44	e Run 0 dB	4 Avg Type Avg Hold	ALIGN OFF : Log-Pwr >50/50 MKr	85.4 ms (02:51:49 T TRAC TYP DE 1 2.026	3001 pts) 年 - 月 03,202 日 123456 田 23456 田 23456 日 23456 日 23456 日 23456 日 23456 日 23456 日 23456 日 24345 日 243456 日 145456 日 243456 日 24356 日 24356 日 24556 日 25556 日 24556 日 245567 日 245567 日 245567 日 245576 日 245576 日 2455767 日 2455767 日 2455767 日 24557767 日 24557777 日 245577777777777777777777777777777777777	Frequency Auto Tur Center Fro 1.165000000 Gi Start Fro 30.000000 Mi Stop Fro 2.30000000 Gi 227.00000 Mi Auto Mi Freq Offs
Res BW	10 kHz	IB BBM	Hz PNO: Fast Gain:Low	Trig: Free #Atten: 44	e Run D dB	Avg Type Avg Hold:	ALIGN OFF E: Log-Pwr >5050 MKr	85.4 ms (02:51.49 F TRAC TRAC TRAC 1 2.026 -46.7	3001 pts)	Frequency Auto Tur Center Fre 1.165000000 GI Start Fre 30.000000 MI Stop Fre 2.300000000 GI CF Ste 227.000000 MI Auto Mi

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and <u>urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: **CN_Doccheck@egs.com**</u>





Report No.: ZR/2019/C002603 Page: 50 of 73

Agrient Spectr	rum Analyzer - Swe	ept SA								
	RF 50 Ω			SEM	ISE:INT		ALIGN OFF	02:52:01 下	午一月 03,202	Frequency
Center F	req 2.35000	Р	¦Z NO: Fast ♀ Gain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold	e: Log-Pwr :>200/200	TRAC TYF DE	E 123456 E M WWWWW T P P P P P	
	Ref Offset 1 d		Sam.cow				Mk	r1 2.38		Auto Tur
10 dB/div Log	Ref 20.00 d							-49.0	77 dBm	
										Center Fre
10.0										2.35000000 GH
0.00										
										Start Fre
10.0										2.300000000 GH
~~~									-15.62 dBm	
-20.0										Stop Fre
-30.0										2.40000000 GH
-40.0										CF Ste
								│ <u> </u>	1	10.000000 MH Auto Ma
-50.0	and the free the	and the second states	and alimenter	Mill-make wind	handragenty	- with toppy of the	who have been a	hunder	man	
										Freq Offs
-60.0										01
-70.0										
10.0										
								<u></u>		
start 2.30 #Res BW	0000 GHz		#VBM	300 kHz			Sweep 9	Stop 2.40		
🛃 start	I Agilent Spectr	um Ana					o no p			۲ ( 🗘
	sum Analyzan Sum	and CA								
	<mark>rum Analyzer - Swe</mark> RF 50 Ω			SEM	NSE:INT		ALIGN OFF	02:52:10 下	午一月 03,202	Frequency
XI R		AC		SEM		Avg Type	ALIGN OFF e: Log-Pwr :>200/200	TRAC	E 1 2 3 4 5 6	Frequency
XI R	RF 50 Ω	AC 0000 GH PI	<b>1z</b> NO: Fast ♀ Gain:Low		Run	Avg Type	e: Log-Pwr :>200/200	TRAC TYP DE	E 123456 E MWWWWW T P P P P P	Frequency
XI R Center F	RF 50 Ω Freq 2.49175 Ref Offset 1 d	AC 60000 GH PI IFO	NO: Fast 😱	Trig: Free	Run	Avg Type	e: Log-Pwr :>200/200	TRAC TYF DE .484 380	E 123456 MWWWW TPPPPPP 0 0 GHz	Frequency
XV R Center F 10 dB/div	RF 50 Ω req 2.49175	AC 60000 GH PI IFO	NO: Fast 😱	Trig: Free	Run	Avg Type	e: Log-Pwr :>200/200	TRAC TYF DE .484 380	E 123456 E MWWWWW T P P P P P	Frequency
XV R Center F 10 dB/div	RF 50 Ω Freq 2.49175 Ref Offset 1 d	AC 60000 GH PI IFO	NO: Fast 😱	Trig: Free	Run	Avg Type	e: Log-Pwr :>200/200	TRAC TYF DE .484 380	E 123456 MWWWW TPPPPPP 0 0 GHz	Frequency
XV R Center F 10 dB/div	RF 50 Ω Freq 2.49175 Ref Offset 1 d	AC 60000 GH PI IFO	NO: Fast 😱	Trig: Free	Run	Avg Type	e: Log-Pwr :>200/200	TRAC TYF DE .484 380	E 123456 MWWWW TPPPPPP 0 0 GHz	Auto Tur
20 dB/div -og	RF 50 Ω Freq 2.49175 Ref Offset 1 d	AC 60000 GH PI IFO	NO: Fast 😱	Trig: Free	Run	Avg Type	e: Log-Pwr :>200/200	TRAC TYF DE .484 380	E 123456 E MWWWW T P P P P P O O GHz	Auto Tur Center Fre
X R Center F 10 dB/div	RF 50 Ω Freq 2.49175 Ref Offset 1 d	AC 60000 GH PI IFO	NO: Fast 😱	Trig: Free	Run	Avg Type	e: Log-Pwr :>200/200	TRAC TYF DE .484 380	E 123456 E MWWWW T P P P P P O O GHz	Auto Tur Center Fre 2.491750000 Gł
Center F	RF 50 Ω Freq 2.49175 Ref Offset 1 d	AC 60000 GH PI IFO	NO: Fast 😱	Trig: Free	Run	Avg Type	e: Log-Pwr :>200/200	TRAC TYF DE .484 380	E 123456 E MWWWW T P P P P P O O GHz	Auto Tur Center Fre
20 dB/div -og	RF 50 Ω Freq 2.49175 Ref Offset 1 d	AC 60000 GH PI IFO	NO: Fast 😱	Trig: Free	Run	Avg Type	e: Log-Pwr :>200/200	TRAC TYF DE .484 380	E 123456 E MWWWW T P P P P P O O GHz	Auto Tur Center Fre 2.491750000 GH
10 dB/div - og 10.0	RF 50 Ω Freq 2.49175 Ref Offset 1 d	AC 60000 GH PI IFO	NO: Fast 😱	Trig: Free	Run	Avg Type	e: Log-Pwr :>200/200	TRAC TYF DE .484 380	0 0 GHz 07 dBm	Center Fre 2.491750000 GH Start Fre 2.483500000 GH
10 dB/div °9 0 100 0	RF 50 Ω Freq 2.49175 Ref Offset 1 d	AC 60000 GH PI IFO	NO: Fast 😱	Trig: Free	Run	Avg Type	e: Log-Pwr :>200/200	TRAC TYF DE .484 380	0 0 GHz 07 dBm	Auto Tur Center Fre 2.491750000 GH Start Fre 2.483500000 GH
10 dB/div °9 0 100 0	RF 50 Ω Freq 2.49175 Ref Offset 1 d	AC 60000 GH PI IFO	NO: Fast 😱	Trig: Free	Run	Avg Type	e: Log-Pwr :>200/200	TRAC TYF DE .484 380	0 0 GHz 07 dBm	Center Fre 2.491750000 GH Start Fre 2.483500000 GH
10 dB/div 	RF 50 Ω Freq 2.49175 Ref Offset 1 d	AC 60000 GH PI IFO	NO: Fast 😱	Trig: Free	Run	Avg Type	e: Log-Pwr :>200/200	TRAC TYF DE .484 380	0 0 GHz 07 dBm	Start Fre           2.491750000 GH           Start Fre           2.483500000 GH           Stop Fre           2.50000000 GH
Center F 10 dB/div - 0 0 10 0 - 0 0 - 10 0 - 10 0 - 10 0	RF 50 Ω Freq 2.49175 Ref Offset 1 d	AC 60000 GH PI IFO	NO: Fast 😱	Trig: Free	Run	Avg Type	e: Log-Pwr :>200/200	TRAC TYF DE .484 380	0 0 GHz 07 dBm	Start Fre           2.491750000 GH           Start Fre           2.483500000 GH           Stop Fre           2.50000000 GH           CF Ste           1.650000 MH
Center F     Conter F	Ref Offset 1 d Ref 20.00 d	AC 0000 GH IF( IB IBm	NO: Fast Gain:Low	Trig: Free #Atten: 40	e Run dB	Avg Type Avg Hold	e: Log-Pwr >200/200 Mkr1 2	1784 1794 1894 1898 1898 1899 1899 1899 1899 18	12 3 4 5 6 Министр 7 Р Р Р Р Р Р Р 0 O GHz 07 dBm	Auto Tur Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH
Center F     Conter F	Ref Offset 1 d Ref 20.00 d	AC 0000 GH IF( IB IBm	NO: Fast Gain:Low	Trig: Free #Atten: 40	e Run dB	Avg Type Avg Hold	e: Log-Pwr >200/200 Mkr1 2	1784 1794 1894 1898 1898 1899 1899 1899 1899 18	12 3 4 5 6 Министр 7 Р Р Р Р Р Р Р 0 O GHz 07 dBm	Start Fre           2.491750000 GH           Start Fre           2.483500000 GH           Stop Fre           2.500000000 GH           1.650000 MH           Auto Tur
Center F     Conter F	Ref Offset 1 d Ref 20.00 d	AC 0000 GH IF( IB IBm	NO: Fast Gain:Low	Trig: Free #Atten: 40	e Run dB	Avg Type Avg Hold	e: Log-Pwr >200/200 Mkr1 2	1784 1794 1894 1898 1898 1899 1899 1899 1899 18	12 3 4 5 6 Министр 7 Р Р Р Р Р Р Р 0 O GHz 07 dBm	Start Fre           2.491750000 GH           Start Fre           2.483500000 GH           Stop Fre           2.500000000 GH           1.650000 MH           Auto           Mato           Freq Offs
10 dB/div           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0	Ref Offset 1 d Ref 20.00 d	AC 0000 GH IF( IB IBm	NO: Fast Gain:Low	Trig: Free #Atten: 40	e Run dB	Avg Type Avg Hold	e: Log-Pwr >200/200 Mkr1 2	1784 1794 1894 1898 1898 1899 1899 1899 1899 18	12 3 4 5 6 Министр 7 Р Р Р Р Р Р Р 0 O GHz 07 dBm	Start Fre           2.491750000 GH           Start Fre           2.483500000 GH           Stop Fre           2.500000000 GH           1.650000 MH           Auto Tur
10 dB/div           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0           10 0	Ref Offset 1 d Ref 20.00 d	AC 0000 GH IF( IB IBm	NO: Fast Gain:Low	Trig: Free #Atten: 40	e Run dB	Avg Type Avg Hold	e: Log-Pwr >200/200 Mkr1 2	1784 1794 1894 1898 1898 1899 1899 1899 1899 18	12 3 4 5 6 Министр 7 Р Р Р Р Р Р Р 0 O GHz 07 dBm	Start Fre           2.491750000 GH           Start Fre           2.483500000 GH           Stop Fre           2.500000000 GH           1.650000 MH           Auto           Mato           Freq Offs
Center F     Conter F	Ref Offset 1 d Ref 20.00 d	AC 0000 GH IF( IB IBm	NO: Fast Gain:Low	Trig: Free #Atten: 40	e Run dB	Avg Type Avg Hold	e: Log-Pwr >200/200 Mkr1 2	1784 1794 1894 1898 1898 1899 1899 1899 1899 18	12 3 4 5 6 Министр 7 Р Р Р Р Р Р Р 0 O GHz 07 dBm	Start Fre           2.491750000 GH           Start Fre           2.483500000 GH           Stop Fre           2.500000000 GH           1.650000 MH           Auto           Mato           Freq Offs
10         dB/div           -0         -0           10.0         -0           10.0         -0           10.0         -0           10.0         -0           10.0         -0           10.0         -0           10.0         -0           10.0         -0           10.0         -0           10.0         -0           10.0         -0           10.0         -0           20.0         -0           20.0         -0           40.0         -0           40.0         -0           40.0         -0           40.0         -0           40.0         -0           40.0         -0           40.0         -0           40.0         -0           40.0         -0           40.0         -0           40.0         -0           40.0         -0           40.0         -0           40.0         -0           40.0         -0           40.0         -0           40.0         -0           40.0	Ref Offset 1 d Ref 20.00 d	AC 0000 GH IF( IB IBm	NO: Fast Gain:Low	Trig: Free #Atten: 40	e Run dB	Avg Type Avg Hold	e: Log-Pwr >200/200 Mkr1 2	1784 1794 1894 1898 1898 1899 1899 1899 1899 18	12 2 4 5 6 Министр 7 Р Р Р Р Р Р Р 0 GHz 07 dBm	Start Fre           2.491750000 GH           Start Fre           2.483500000 GH           Stop Fre           2.500000000 GH           1.650000 MH           Auto           Mato           Freq Offs
Center F     Conter F	Ref Offset 1 d Ref 20.00 d	AC 0000 GH IF( IB IBm	NO: Fast Gain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold	e: Log-Pwr >200/200	1784 1790 100 100 100 100 100 100 100 100 100 1	1929456 ТРРРРРР 0 OGHz 0 GHz -15.62 dBn	Start Fre           2.491750000 GH           Start Fre           2.483500000 GH           Stop Fre           2.500000000 GH           1.650000 MH           Auto           Mato           Freq Offs

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and <u>urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@egs.com</u>





Report No.: ZR/2019/C002603 Page: 51 of 73

Agilent Spectrum Analyzer - Swept SA					
R RF 50 Ω AC     Center Freq 14.500000000	) GHz	Avg Type: I	og-Pwr TRAC		requency
	PNO: Fast Trig: Free F IFGain:Low #Atten: 40 o		D/10 TYF DE		
Ref Offset 1 dB 10 dB/div Ref 20.00 dBm			Mkr1 26.4 -39.0	97 GHz 77 dBm	Auto Tune
10.0					<b>Center Freq</b> 10000000 GHz
-10.0				2.50	Start Freq 00000000 GHz
-20.0				26.50	Stop Freq 00000000 GHz
-40.0		and the second secon			<b>CF Step</b> 0000000 GHz Man
-60.0					Freq Offset 0 Hz
-70.0					
Start 2.50 GHz #Res BW 100 kHz	#VBW 300 kHz		Stop 2 Sweep 2.294 s (	6.50 GHz 8001 pts)	
🛃 Start 🗾 🗊 Agilent Spectrum Ana					8 2 0

### 4.8.1.6

### GFSK 2M_Highest Channel



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





Report No.: ZR/2019/C002603 Page: 52 of 73

gilent Spect R	RF 50 Ω 🚹 DC		SENSE:INT	ALIGN OFF	02:54:59 下午 一月 03, 20:	F
enter F	req 79.500 kHz	PNO: Wide 🖵 IFGain:Low	Trig: Free Run #Atten: 26 dB	Avg Type: Log-Pwr Avg Hold:>50/50	TRACE 123456 TYPE MWWWWW DET PPPPP	Frequency
) dB/div	Ref Offset 1 dB Ref 0.00 dBm	II Gam.cow			Mkr1 9.000 kHz -50.844 dBm	Auto Tui
						Center Fre
0.0						79.500 ki
0.0						
						9.000 k
0.0					-34.58 dBm	
0.0						Stop Fr
0.0						150.000 k
0.0	⁴ h					CF St
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	N_0 6		whywahr Low Myll Byr		14.100 k <u>Auto</u> M
0.0		՟ՠ՟֎ՠֈՠֈՠ	Monoral	why and an an all .		
0.0				**************************************	W byd bary bory of the	Freq Offs 0
0.0						
tart 9.00					Stop 150.00 kHz	
	1.0 kHz	#VBW	3.0 kHz	Sweep	134.8 ms (601 pts)	
🛃 start	1.U KHZ	_	3.0 kHz	Sweep	134.8 ms (601 pts)	ا چ چ
y start jilent Spect	I Aglent Spectrum Ana	_				
y start ilent Spect	🗾 Agilent Spectrum Ana	Hz	SENSE:INT	ALIGN OFF	02:55:21 下午 一月 03:20	
y start ilent Spect	I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Ω ▲ DC		SENSE:INT	🛕 ALIGN OFF	02:5521 下午 一月 03, 20 IRACE 12345 6 TYPE MWWWW DET PPPPP	Frequency
start ilent Spect R enter F	I Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Ω ▲ DC	Hz PN0: Fast 🖵	SENSE:INT	ALIGN OFF	02:55:21 下午 一月 03:20	Frequency
y start ilent Spect R enter F	Tum Analyzer - Swept SA RF 50 Ω ▲ DC Freq 15.075000 MI Ref Offset 1 dB	Hz PN0: Fast 🖵	SENSE:INT	ALIGN OFF	02:55-21 下午 一月 03, 20 TRACE 12:31 45 0 TYPE MMMMMM DET P P P P P Mkr1 150 kHz	Frequency Auto Tu
start ilent Spect R enter F dB/div	Tum Analyzer - Swept SA RF 50 Ω ▲ DC Freq 15.075000 MI Ref Offset 1 dB	Hz PN0: Fast 🖵	SENSE:INT	ALIGN OFF	02:55-21 下午 一月 03, 20 TRACE 12:31 45 0 TYPE MMMMMM DET P P P P P Mkr1 150 kHz	Frequency Auto Tu Center Fr
start R enter F OdB/div Og	Tum Analyzer - Swept SA RF 50 Ω ▲ DC Freq 15.075000 MI Ref Offset 1 dB	Hz PN0: Fast 🖵	SENSE:INT	ALIGN OFF	02:55-21 下午 一月 03, 20 TRACE 12:31 45 0 TYPE MMMMMM DET P P P P P Mkr1 150 kHz	Frequency Auto Tu Center Fr 15.075000 M
start ilent Spect R enter F 0 dB/div 0 dB/div 0 dB/div	Tum Analyzer - Swept SA RF 50 Ω ▲ DC Freq 15.075000 MI Ref Offset 1 dB	Hz PN0: Fast 🖵	SENSE:INT	ALIGN OFF	02:55-21 下午 一月 03, 20 TRACE 12:31 45 0 TYPE MMMMMM DET P P P P P Mkr1 150 kHz	Frequency Auto Tu Center Fr 15.075000 M Start Fr
start start sector F odB/div odB/div odB/div odd odd odd odd odd odd odd od	Tum Analyzer - Swept SA RF 50 Ω ▲ DC Freq 15.075000 MI Ref Offset 1 dB	Hz PN0: Fast 🖵	SENSE:INT	ALIGN OFF	02:55-21 下午 一月 03, 20 TRACE 12:31 45 0 TYPE MMMMMM DET P P P P P Mkr1 150 kHz	Frequency Auto Tu Center Fr 15.075000 M Start Fr
start start sector F odB/div odB/div odB/div odd odd odd odd odd odd odd od	Tum Analyzer - Swept SA RF 50 Ω ▲ DC Freq 15.075000 MI Ref Offset 1 dB	Hz PN0: Fast 🖵	SENSE:INT	ALIGN OFF	02:55-21 下午 一月 03, 20 TRACE 12:31 45 0 TYPE MMMMMM DET P P P P P Mkr1 150 kHz	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr
start start enter F odB/div og 0.0 0.0 0.0 0.0 0.0 0.0	Tum Analyzer - Swept SA RF 50 Ω ▲ DC Freq 15.075000 MI Ref Offset 1 dB	Hz PN0: Fast 🖵	SENSE:INT	ALIGN OFF	02:55:21 F4 - Я 03,20 TRACE 12 23 4 5 6 Tyre: Мижими от PP PP PP Mkr1 150 kHz -41,738 dBm	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr
start start start sector F dB/div dB/div o o o o o o o o o o o o o	Tum Analyzer - Swept SA RF 50 Ω ▲ DC Freq 15.075000 MI Ref Offset 1 dB	Hz PN0: Fast 🖵	SENSE:INT	ALIGN OFF	02:55:21 F4 - Я 03,20 TRACE 12 23 4 5 6 Tyre: Мижими от PP PP PP Mkr1 150 kHz -41,738 dBm	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M
start start R enter F dB/div og 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Tum Analyzer - Swept SA RF 50 Ω ▲ DC Freq 15.075000 MI Ref Offset 1 dB	Hz PN0: Fast 🖵	SENSE:INT	ALIGN OFF	02:55:21 F4 - Я 03,20 TRACE 12 23 4 5 6 Tyre: Мижими от PP PP PP Mkr1 150 kHz -41,738 dBm	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M
start start start enter F od B/div od od od od od od od od od od	Tum Analyzer - Swept SA RF 50 Ω ▲ DC Freq 15.075000 MI Ref Offset 1 dB	Hz PN0: Fast 🖵	SENSE:INT	ALIGN OFF	02:55:21 F4 - Я 03,20 TRACE 12 23 4 5 6 Tyre: Мижими от PP PP PP Mkr1 150 kHz -41,738 dBm	Frequency Auto Tur Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF Sto 2.985000 M Auto M
start start R enter F dB/div g 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Tur Aglent Spectrum Ana Tur Analyzer - Swept SA RF 50 € ▲ DC Freq 15.075000 MI Ref Offset 1 dB Ref 20.00 dBm	Hz PNO: Fast IFGain:Low	SENSE:INT	Avg Type: Log-Pwr Avg Hold>50/50	02:55:21. F4 — Я 03, 20 TRACE 12 23 4 5 6 Туке Маничини Der P PP PP Mkr1 150 kHz -41.738 dBm	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M <u>CF Sto</u> 2.985000 M <u>Auto</u> M
start start R enter F dB/div g 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Tum Analyzer - Swept SA RF 50 Ω ▲ DC Freq 15.075000 MI Ref Offset 1 dB	Hz PNO: Fast IFGain:Low	SENSE:INT	Avg Type: Log-Pwr Avg Hold>50/50	02:55:21. F4 — Я 03, 20 TRACE 12 23 4 5 6 Туке Маничини Der P PP PP Mkr1 150 kHz -41.738 dBm	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M <u>CF Sto</u> 2.985000 M <u>Auto</u> M
start start senter F od B/div og 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Tur Aglent Spectrum Ana Tur Analyzer - Swept SA RF 50 € ▲ DC Freq 15.075000 MI Ref Offset 1 dB Ref 20.00 dBm	Hz PNO: Fast IFGain:Low	SENSE:INT	Avg Type: Log-Pwr Avg Hold>50/50	02:55:21. F4 — Я 03, 20 TRACE 12 23 4 5 6 Туке Маничини Der P PP PP Mkr1 150 kHz -41.738 dBm	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M <u>CF Sto</u> 2.985000 M <u>Auto</u> M
start start start start a b a b b b b b b c c c c c c c c	Tum Analyzer - Swept SA RF SO 2 A DC Treq 15.075000 MI Ref Offset 1 dB Ref 20.00 dBm	Hz PNO: Fast IFGain:Low	SENSE:INT	Avg Type: Log-Pwr Avg Hold>50/50	02:55:21. F4 — Я 03, 20 TRACE 12 23 4 5 6 Туке Маничини Der P PP PP Mkr1 150 kHz -41.738 dBm	Frequency Auto Tur Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M

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

邮编: 518057 t (86-755) 26012053 f (86-755) 26710594

中国・深圳・科技园中区M-10栋一号厂房

Member of the SGS Group (SGS SA)

sgs.china@sgs.com



Report No.: ZR/2019/C002603 Page: 53 of 73

R	rum Analyzer - Swept SA RF 50 Ω AC		SEN	SE:INT		ALIGN OFF	02:55:43 下	午一月 03,202	Eroquepey
enter F	req 1.1650000	DO GHZ PNO: Fast IFGain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold:	e: Log-Pwr :>50/50	TRAC TYF DE	E 1 2 3 4 5 6 E M M M M M M M M T P P P P P P	Frequency
dB/div	Ref Offset 1 dB Ref 20.00 dBm					Mkr	1 2.155 -46.4	57 GHz 63 dBm	Auto Tu
									Center Fr
0.0									1.165000000 G
.00									
									Start Fr
0.0								-14.58 dBm	30.000000 M
0.0									Stop Fr
									2.300000000 G
0.0									
0.0								1	CF St 227.000000 M
0.0	प्रतः अस्य स्वरं साम्प्रावृत्र ताः स्वरित् विकल् सं तर्जन्त् वि			الرواحة والمرومة والمرومة		Konanya Kawananya	en i hen an i sentin d	a attan a site	<u>Auto</u> M
SK BARRAN		aliti ya kata mana kata ani ana	An grant and a state of the sta	na sana sana sana sana sana sana sana s	linda, a horar da si Appoletik	n i siitei een da istroomalisii	i ja di Maisi di Mala		Freq Offs
0.0									0
0.0									
tart 30 M	447							.300 GHz	
		#\/	BW 300 PH2			Sween 2	171 mc/	9001 ntc)	
Res BW	100 kHz	_	BW 300 kHz			Sweep 2	17.1 ms (8001 pts)	2 🕄 📢
Res BW	100 kHz	a	BW 300 kHz			Sweep 2	17.1 ms (8001 pts)	2 🖁
Res BW start ilent Specto R	100 kHz Agilent Spectrum An rum Analyzer - Swept SA RF 50 Ω AC	a		SE:INT	<u>^</u>	ALIGN OFF	02:55:55 下	午一月 03,202	🔞 🧘 🔇
Res BW start ilent Specto	100 KHz I Agilent Spectrum An rum Analyzer - Swept SA	a DO GHz PNO: Fast	SEN	Run	<u>^</u>		02:55:55 T TRAC		
Res BW start ilent Specto R enter F	100 kHz Aglent Spectrum An rum Analyzer - Swept SA RF 50 Q AC ireq 2.35000000 Ref Offset 1 dB	a DO GHz PNO: Fast IFGain:Low	SEN	Run	Avg Type	ALIGN OFF : Log-Pwr >200/200	02:55:55 F TRAC TYM DE r1 2.37	午一月 03,202 年 123456 25 ММММИ ПРРРРРР 3 1 GHz	Frequency
Res BW	100 kHz PAglent Spectrum Am rum Analyzer - Swept SJ RF 50 Ω Ac req 2.35000000	a DO GHz PNO: Fast IFGain:Low	SEN	Run	Avg Type	ALIGN OFF : Log-Pwr >200/200	02:55:55 F TRAC TYM DE r1 2.37	午 →月 03,202 距 11 2 3 4 5 6 距 M WWWW 町 P P P P P P	Frequency Auto Tu
Res BW start ilent Spectr R enter F odB/div	100 kHz Aglent Spectrum An rum Analyzer - Swept SA RF 50 Q AC ireq 2.35000000 Ref Offset 1 dB	a DO GHz PNO: Fast IFGain:Low	SEN	Run	Avg Type	ALIGN OFF : Log-Pwr >200/200	02:55:55 F TRAC TYM DE r1 2.37	午一月 03,202 年 123456 25 ММММИ ПРРРРРР 3 1 GHz	Frequency Auto Tu Center Fr
Res BW start ilent Spect enter F enter F	100 kHz Aglent Spectrum An rum Analyzer - Swept SA RF 50 Q AC ireq 2.35000000 Ref Offset 1 dB	a DO GHz PNO: Fast IFGain:Low	SEN	Run	Avg Type	ALIGN OFF : Log-Pwr >200/200	02:55:55 F TRAC TYM DE r1 2.37	午一月 03,202 年 123456 25 ММММИ ПРРРРРР 3 1 GHz	Frequency Auto Tu Center Fr
Res BW start ilent Spect enter F enter F	100 kHz Aglent Spectrum An rum Analyzer - Swept SA RF 50 Q AC ireq 2.35000000 Ref Offset 1 dB	a DO GHz PNO: Fast IFGain:Low	SEN	Run	Avg Type	ALIGN OFF : Log-Pwr >200/200	02:55:55 F TRAC TYM DE r1 2.37	午一月 03,202 年 123456 25 ММММИ ПРРРРРР 3 1 GHz	Frequency Auto Tu Center Fr 2.35000000 G Start Fr
Res BW start ilent Specto enter F	100 kHz Aglent Spectrum An rum Analyzer - Swept SA RF 50 Q AC ireq 2.35000000 Ref Offset 1 dB	a DO GHz PNO: Fast IFGain:Low	SEN	Run	Avg Type	ALIGN OFF : Log-Pwr >200/200	02:55:55 F TRAC TYM DE r1 2.37		Frequency Auto Tu Center Fr 2.35000000 G Start Fr
Res BW start ilent Spect enter F 0 dB/div 0 0 0 0 0 0 0	100 kHz Aglent Spectrum An rum Analyzer - Swept SA RF 50 Q AC ireq 2.35000000 Ref Offset 1 dB	a DO GHz PNO: Fast IFGain:Low	SEN	Run	Avg Type	ALIGN OFF : Log-Pwr >200/200	02:55:55 F TRAC TYM DE r1 2.37	午一月 03,202 年 123456 25 ММММИ ПРРРРРР 3 1 GHz	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G
Res BW start ilent Spect enter F od B/div g 0.0 0 0.0	100 kHz Aglent Spectrum An rum Analyzer - Swept SA RF 50 Q AC ireq 2.35000000 Ref Offset 1 dB	a DO GHz PNO: Fast IFGain:Low	SEN	Run	Avg Type	ALIGN OFF : Log-Pwr >200/200	02:55:55 F TRAC TYM DE r1 2.37		Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr
Res BW start ilent Specto R	100 kHz Aglent Spectrum An rum Analyzer - Swept SA RF 50 Q AC ireq 2.35000000 Ref Offset 1 dB	a DO GHz PNO: Fast IFGain:Low	SEN	Run	Avg Type	ALIGN OFF : Log-Pwr >200/200	02:55:55 F TRAC TYM DE r1 2.37		
Res BW start ilent Spect R enter F 0 dB/div 9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	100 kHz Aglent Spectrum An rum Analyzer - Swept SA RF 50 Q AC ireq 2.35000000 Ref Offset 1 dB	a DO GHz PNO: Fast IFGain:Low	SEN	Run	Avg Type	ALIGN OFF : Log-Pwr >200/200 MIk	02:55:55 F TRAC TYM DE r1 2.37		Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G
Res BW	100 kHz	a DO GHZ PNO: Fast IFGain:Low	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN OF E: Log-Pwr >200/200 MIK	02:55.55 F TRAC TYP or r1 2.37: -48.3	年 — 月 03,202 至 12 3 4 5 6 空 Minore Alexandria # 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G
Res BW	100 kHz	a OO GHz PNO: Fast IFGain:Low	SEN	Run dB	Avg Type Avg Hold:	ALIGN OFF : Log-Pwr >200/200 MIk	02:55:55 F TRAC TYM DE r1 2.37	年 — 月 03,202 至 12 3 4 5 6 空 Minore Alexandria # 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.40000000 G CF St 10.000000 M Auto M
Res BW	100 kHz	a DO GHZ PNO: Fast IFGain:Low	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN OF E: Log-Pwr >200/200 MIK	02:55.55 F TRAC TYP or r1 2.37: -48.3	年 — 月 03,202 至 12 3 4 5 6 空 Minore Alexandria # 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.40000000 G CF St 10.000000 M Auto M
Res BW	100 kHz	a DO GHZ PNO: Fast IFGain:Low	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN OF E: Log-Pwr >200/200 MIK	02:55.55 F TRAC TYP or r1 2.37: -48.3	年 — 月 03,202 至 12 3 4 5 6 空 Minore Alexandria # 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.40000000 G CF St 10.000000 M Auto M
Res BW	100 kHz	a DO GHZ PNO: Fast IFGain:Low	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN OF E: Log-Pwr >200/200 MIK	02:55.55 F TRAC TYP or r1 2.37: -48.3	年 — 月 03,202 至 12 3 4 5 6 空 Minore Alexandria # 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.40000000 G CF St 10.000000 M Auto M
Res BW	100 kHz	and Contraction of the second se	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN OFF :: Log-Pwr >200/200 Mik	02:55.55 T TRAC TY or -48.3:	4	Frequency Auto Tu Center Fr 2.35000000 G Start Fr 2.30000000 G Stop Fr 2.40000000 G

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and <u>urisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: **CN_Doccheck@ess.com**</u>





Report No.: ZR/2019/C002603 Page: 54 of 73

nt Spectrum Analyzer - Swept SA 04 下午 一月 03, 202 TRACE 123456 TYPE MWWWWW DET PPPPP →目 03.20 R Frequency Avg Type: Log-Pwr Avg|Hold:>200/200 Center Freg 2.491750000 GHz Trig: Free Run PNO: Fast 😱 IFGain:Low #Atten: 40 dB Auto Tune Mkr1 2.497 415 0 GHz -48.986 dBm Ref Offset 1 dB Ref 20.00 dBm 10 dB/div **Center Freq** 2.491750000 GHz Start Freq 2 483500000 GHz Stop Freq 2.50000000 GHz **CF** Step 1.650000 MHz **N** Auto Man -v.J. Jurant Freq Offset 0 Hz Stop 2.500000 GHz Sweep 1.600 ms (601 pts) Start 2.483500 GHz #Res BW 100 kHz #VBW 300 kHz 0 2 0 🛃 Start 📄 💷 Agilent Spectrum Ana. gilent Spectrum Analyzer - Swept SA 02:56:39 下午 一月 03, 202 TRACE **1 2 3 4 5** 6 TYPE MWWWWW DET P P P P P P ALIGN OFF Avg Type: Log-Pwr Avg|Hold: 10/10 Frequency Center Freq 14.500000000 GHz Trig: Free Run PNO: Fast 😱 IFGain:Low #Atten: 40 dB Auto Tune Mkr1 26.470 GHz -38.745 dBm Ref Offset 1 dB Ref 20.00 dBm 10 dB/div _og **Center Freq** 14.50000000 GHz Start Fred 2.50000000 GHz Stop Freq 26.50000000 GHz **CF** Step 2.40000000 GHz يدرأ مقرر alaha . Auto Man Freq Offset 0 Hz Start 2.50 GHz #Res BW 100 <u>kHz</u> Stop 26.50 GHz #VBW 300 kHz Sweep 2.294 s (8001 pts) 0 : 0 Start Reilent Spectrum Ana..

Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



Report No.: ZR/2019/C002603 Page: 55 of 73

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 :2013 Sec	tion 11.12						
Test Site:	Measurement Distance:	3m (Semi-Anecho	oic Chambe	r)				
	Frequency	Detector	RBW	VBW	Remark			
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak			
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average			
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
Dessiver Cetury	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak			
Receiver Setup:	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average			
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak			
		Peak	1MHz	3MHz	Peak			
	Above 1GHz	Peak	1MHz	10Hz	Average			
	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)			
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30			
	1.705MHz-30MHz	30	-	-	30			
	30MHz-88MHz	100	40.0	Quasi-peak	3			
Limit:	88MHz-216MHz	150	43.5	Quasi-peak	3			
	216MHz-960MHz	200	46.0	Quasi-peak	3			
	960MHz-1GHz	500	54.0	Quasi-peak	3			
	Above 1GHz	500	54.0	Average	3			
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.							

4.9 Radiated Spurious Emission

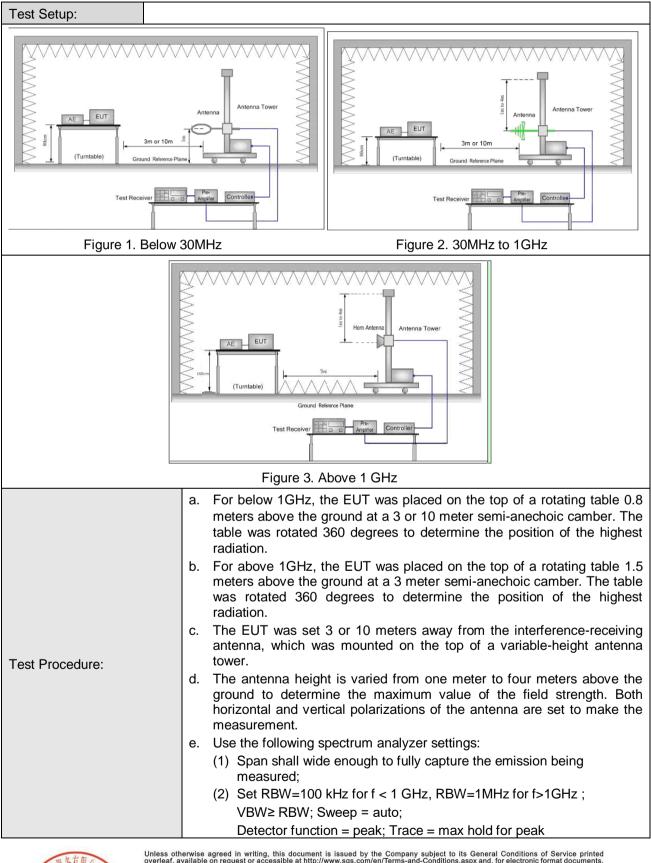
SG



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-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days on). Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email' CN.Docched@ass.com



Report No.: ZR/2019/C002603 Page: 56 of 73





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.ggs.com/en/Terms-and-Conditions_aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.ggs.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 faisification of the content or appearance of this document is unavful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

 No.1 Workhow, M-10 Midde Bection, Science & Technology Park, Shenzhen, China 518057
 t (86-755) 26012053 f (86-755) 26710594
 www.sgggroup.com.on

 ngl avertification and with and Genese and Science & Technology Park, Shenzhen, China 518057
 t (86-755) 26012053 f (86-755) 26710594
 www.sggsroup.com.on



Report No.: ZR/2019/C002603 Page: 57 of 73

	(3) For average measurement: use duty cycle correction factor method per 15 35(c)
	 per 15.35(c). Duty cycle = On time/100 milliseconds On time = N 1 *L 1 +N 2 *L 2 ++N n-1 *LN n-1 +N n *L n Where N 1 is number of type 1 pulses, L 1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle) f. 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. g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	 h. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. i. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz) j. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	k. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. 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 5.10 for details.
Test Results:	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-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email's **CN_Doccheck@sss.com**.

Report No.: ZR/2019/C002603 Page: 58 of 73

100

100

100

100

100

16.83

25.80

24.34

22.51

22.65

24

0

310

254

254

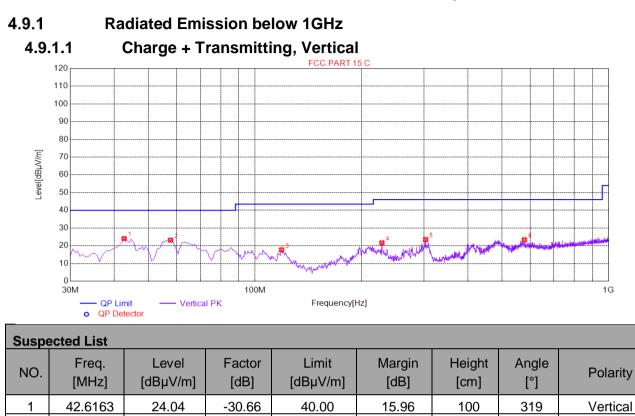
Vertical

Vertical

Vertical

Vertical

Vertical



40.00

43.50

46.00

46.00

46.00



2

3

4

5

6

57.6588

118.7994

228.4642

303.6768

577.8389

23.17

17.70

21.66

23.49

23.35

-31.31

-33.07

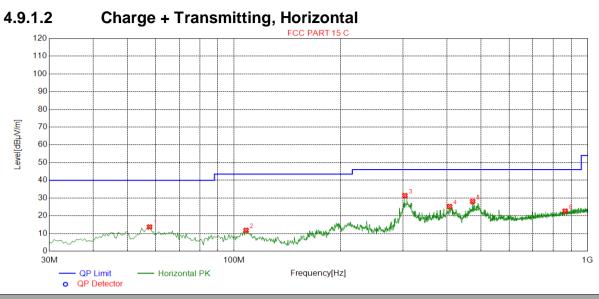
-30.02

-27.75

-20.69

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 faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, recomall'. ON posched/@spine.com.

Report No.: ZR/2019/C002603 Page: 59 of 73

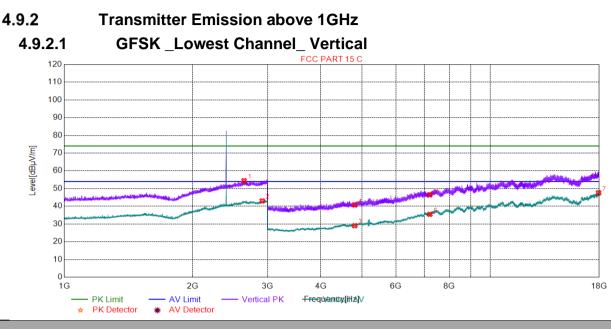


Suspe	ected List		_	_	_			
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	57.6588	13.64	-31.31	40.00	26.36	100	327	Horizontal
2	108.1241	11.75	-31.69	43.50	31.75	100	115	Horizontal
3	304.1621	31.37	-27.74	46.00	14.63	100	355	Horizontal
4	407.0335	25.21	-24.77	46.00	20.79	100	333	Horizontal
5	473.0265	28.03	-23.36	46.00	17.97	100	340	Horizontal
6	864.1321	22.61	-15.81	46.00	23.39	100	112	Horizontal



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

Report No.: ZR/2019/C002603 Page: 60 of 73

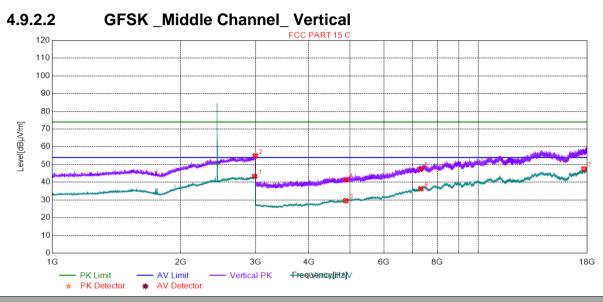


Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2642.4106	54.42	8.69	74.00	19.58	150	259	Vertical
2	2914.4786	43.01	9.30	54.00	10.99	150	259	Vertical
3	4804.0000	29.05	-18.30	54.00	24.95	150	260	Vertical
4	4804.0000	40.73	-18.30	74.00	33.27	150	152	Vertical
5	7206.0000	46.52	-10.09	74.00	27.48	150	119	Vertical
6	7206.0000	35.49	-10.09	54.00	18.51	150	169	Vertical
7	17934.5467	47.58	1.70	54.00	6.42	150	360	Vertical



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.ggs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.ggs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) test reation, forgery or faisification only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, scenard.

Report No.: ZR/2019/C002603 Page: 61 of 73

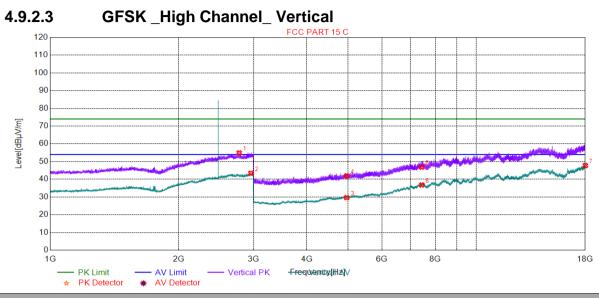


Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2983.4959	43.34	9.53	54.00	10.66	150	202	Vertical
2	2994.9988	54.91	9.47	74.00	19.09	150	272	Vertical
3	4882.0000	29.60	-17.96	54.00	24.40	150	260	Vertical
4	4882.0000	41.44	-17.96	74.00	32.56	150	13	Vertical
5	7323.0000	47.57	-9.71	74.00	26.43	150	119	Vertical
6	7323.0000	36.30	-9.71	54.00	17.70	150	18	Vertical
7	17680.9840	47.49	2.35	54.00	6.51	150	319	Vertical



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.ggs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.ggs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) test reation, forgery or faisification only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, scenard.

> Report No.: ZR/2019/C002603 Page: 62 of 73



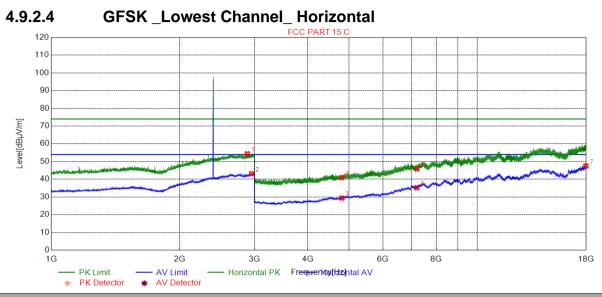
Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2774.4436	54.87	9.05	74.00	19.13	150	80	Vertical	
2	2956.4891	43.42	9.65	54.00	10.58	150	176	Vertical	
3	4960.0000	29.66	-17.47	54.00	24.34	150	70	Vertical	
4	4960.0000	41.93	-17.47	74.00	32.07	150	0	Vertical	
5	7440.0000	46.83	-9.35	74.00	27.17	150	119	Vertical	
6	7440.0000	36.79	-9.35	54.00	17.21	150	18	Vertical	
7	17998.3499	47.72	1.72	54.00	6.28	150	320	Vertical	



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

Report No.: ZR/2019/C002603 Page: 63 of 73

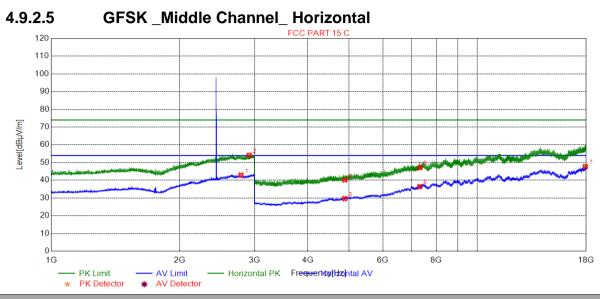


Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2883.4709	54.41	9.17	74.00	19.59	150	316	Horizontal	
2	2949.9875	43.17	9.68	54.00	10.83	150	356	Horizontal	
3	4804.0000	29.42	-18.30	54.00	24.58	150	342	Horizontal	
4	4804.0000	40.98	-18.30	74.00	33.02	150	150	Horizontal	
5	7206.0000	45.89	-10.09	74.00	28.11	150	219	Horizontal	
6	7206.0000	35.21	-10.09	54.00	18.79	150	360	Horizontal	
7	17957.0979	47.52	1.71	54.00	6.48	150	219	Horizontal	



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

Report No.: ZR/2019/C002603 Page: 64 of 73

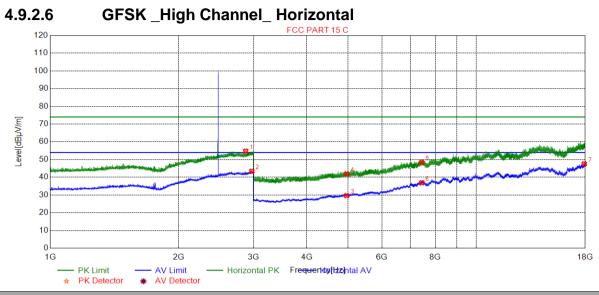


Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2787.4469	42.93	9.01	54.00	11.07	150	222	Horizontal
2	2913.9785	54.15	9.29	74.00	19.85	150	168	Horizontal
3	4882.0000	29.66	-17.96	54.00	24.34	150	232	Horizontal
4	4882.0000	40.17	-17.96	74.00	33.83	150	150	Horizontal
5	7323.0000	47.14	-9.71	74.00	26.86	150	118	Horizontal
6	7323.0000	36.41	-9.71	54.00	17.59	150	68	Horizontal
7	17905.9453	47.69	1.69	54.00	6.31	150	318	Horizontal



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

> Report No.: ZR/2019/C002603 Page: 65 of 73



Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2873.9685	54.72	9.19	74.00	19.28	150	58	Horizontal	
2	2970.9927	43.39	9.58	54.00	10.61	150	18	Horizontal	
3	4960.0000	29.66	-17.47	54.00	24.34	150	191	Horizontal	
4	4960.0000	41.91	-17.47	74.00	32.09	150	286	Horizontal	
5	7440.0000	48.30	-9.35	74.00	25.70	150	168	Horizontal	
6	7440.0000	36.88	-9.35	54.00	17.12	150	360	Horizontal	
7	17905.3953	47.56	1.69	54.00	6.44	150	269	Horizontal	

Remark:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.

中国·深圳·科技园中区M-10栋一号厂房



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/Terms-end-Condition/Terms-

邮编: 518057

sgs.china@sgs.com

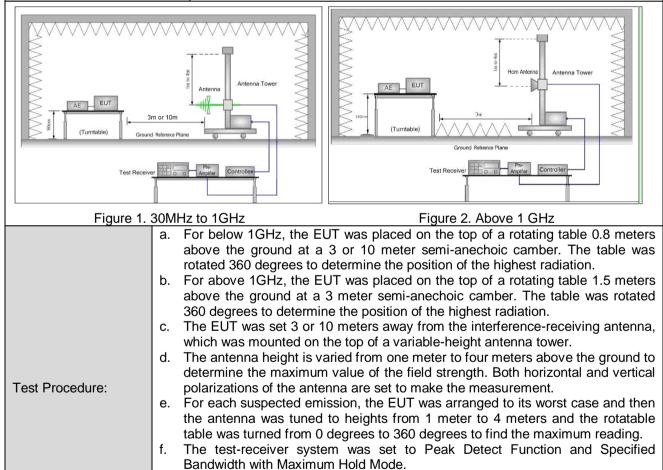
t (86-755) 26012053 f (86-755) 26710594

> Report No.: ZR/2019/C002603 Page: 66 of 73

4.10 Restricted bands around fundamental frequency

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

Test Setup:



g. Place a marker at the end of the restricted band closest to the transmit 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

h. Test the EUT in the lowest channel, the Highest channel

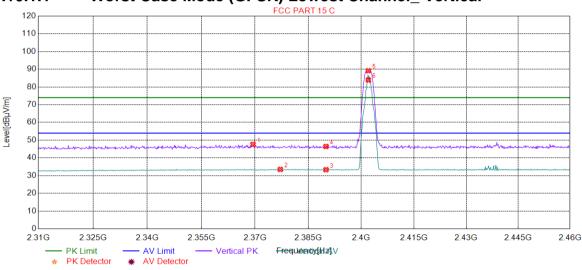




Report No.: ZR/2019/C002603 Page: 67 of 73

	 The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

4.10.1 Test plots



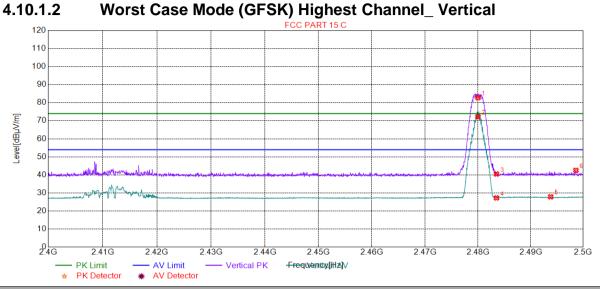
4.10.1.1 Worst Case Mode (GFSK) Lowest Channel_ Vertical

Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2369.4595	47.62	7.79	74.00	26.38	100	332	Vertical	
2	2377.1171	33.49	7.78	54.00	20.51	100	193	Vertical	
3	2390.0000	33.34	7.77	54.00	20.66	100	23	Vertical	
4	2390.0000	46.44	7.77	74.00	27.56	100	181	Vertical	
5	2402.0000	89.17	7.77	74.00	-15.17	100	280	Vertical	
6	2402.0000	83.98	7.77	54.00	-29.98	100	288	Vertical	



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

Report No.: ZR/2019/C002603 Page: 68 of 73

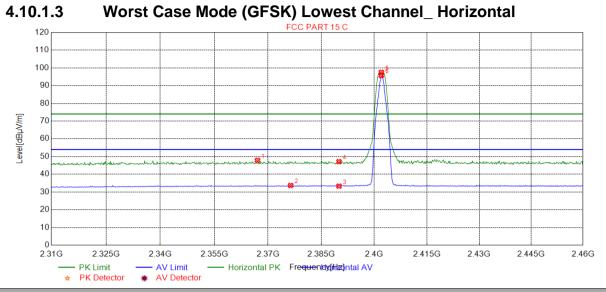


Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2480.0000	82.80	8.01	74.00	-8.80	150	235	Vertical	
2	2480.0000	72.20	8.01	54.00	-18.20	150	157	Vertical	
3	2483.5000	40.49	8.01	74.00	33.51	150	146	Vertical	
4	2483.5000	27.26	8.01	54.00	26.74	150	346	Vertical	
5	2493.7969	27.86	8.02	54.00	26.14	150	235	Vertical	
6	2498.5993	42.53	8.03	74.00	31.47	150	208	Vertical	



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

Report No.: ZR/2019/C002603 Page: 69 of 73



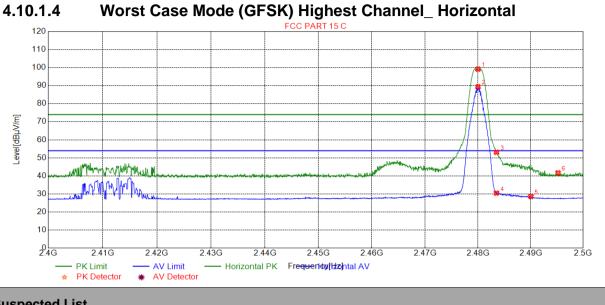
Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2367.0571	47.85	7.79	74.00	26.15	100	112	Horizontal		
2	2376.3664	33.68	7.78	54.00	20.32	200	337	Horizontal		
3	2390.0000	33.31	7.77	54.00	20.69	100	112	Horizontal		
4	2390.0000	47.13	7.77	74.00	26.87	200	223	Horizontal		
5	2402.0000	97.54	7.77	74.00	-23.54	100	145	Horizontal		
6	2402.0000	95.69	7.77	54.00	-41.69	100	149	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-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is content to enter 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) test reation, songer retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)8307 1443,



Report No.: ZR/2019/C002603 Page: 70 of 73



Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2480.0000	99.15	8.01	74.00	-25.15	150	143	Horizontal		
2	2480.0000	89.35	8.01	54.00	-35.35	150	143	Horizontal		
3	2483.5000	53.09	8.01	74.00	20.91	150	127	Horizontal		
4	2483.5000	30.48	8.01	54.00	23.52	150	143	Horizontal		
5	2490.0450	28.61	8.02	54.00	25.39	150	143	Horizontal		
6	2495.1976	41.69	8.02	74.00	32.31	150	213	Horizontal		

Remark:

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

Final Test Level =Receiver Reading + *Antenna Factor* + *Cable Factor* – *Preamplifier Factor* All Modes have been tested, but only the worst case data displayed in this report.



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

Report No.: ZR/2019/C002603 Page: 71 of 73

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

No.	Item	Measurement Uncertainty		
1	Total RF power, conducted	±0.75dB		
2	RF power density, conducted	±2.84dB		
3	Spurious emissions, conducted	±0.75dB		
4	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)		
4	Radiated Spundus emission test	±4.8dB (1GHz-25GHz)		
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)		
6	Temperature test	±1°C		
7	Humidity test	±3%		
8	DC and low frequency voltages	±0.5%		



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) test retainton, for document (86-755) 8307 1443, Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1



Report No.: ZR/2019/C002603 Page: 72 of 73

6 Equipment List

Conducted Emission										
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate					
	Manufacturer	Woder No.	inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)					
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9					
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019/7/14	2020/7/14					
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2019/4/1	2020/3/31					
Measurement Software	AUDIX SGS	e3 V5.4.1221d N/A		N/A	N/A					
Coaxial Cable	Fischer Custom	FCC-TLISN-T2-	SEM024-01	2019/6/12	2020/6/11					
2 Line ISN	Communications Inc.	02	EMC0122	2019/12/22	2020/12/21					
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019/12/22	2020/12/21					
RF conducted test										
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate					
	Manufacturer	Model No.	inventory ito.	(yyyy-mm-dd)	(yyyy-mm-dd)					
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2019/7/15	2020/7/15					
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/1/3	202/1/2					
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11					
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A					
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019/7/14	2020/7/14					
Temperature Chamber	GIANT FORCE	ICT-150-40-CP- AR	W027-03	2019/10/27	2020/10/27					
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14					
	RE	in Chamber								
			Inventory	Cal. date	Cal.Due date					
Test Equipment	Manufacturer	Model No.	No.	(yyyy-mm-dd)	(yyyy-mm-dd)					
3m Semi-Anechoic			-							
Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12					
Measurement Software	AUDIX	e3V8.2014-6-27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM026-01	2019/6/12	2020/6/11					
EXA Signal Analyzer (10Hz- 26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2019/3/12	2020/3/11					
BiConiLog Antenna (26- 3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26					
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12					
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2019/7/14	2020/7/14					
Low Noise	Black Diamond	BDLNA-0118-	0L10003-02	2013/1/14	2020/1/14					
Amplifier(100MHz-18GHz)		352810	SEM005-05	2019/9/3	2020/9/2					
	Series Schwarzbeck	BBHA 9170		2017/10/17	2020/10/16					
Horn Antenna (15-40GHz)			SEM003-15	2017/10/17	2020/10/16					
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019/12/22	2020/12/21					
Band filter	N/A	N/A	SEM023-01	N/A	N/A					
	REi	in Chamber			1					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)					
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4					
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM025-01	2019/6/12	2020/6/11					
MXE EMI Receiver (20Hz-		I W A		2010/0/12	2020/0/11					
8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019/7/14	2020/7/14					
BiConiLog Antenna (26- 3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26					



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days on). Attention. To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, results 1000 Dependences and testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, results the the prove the sample(s) testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, results the the prove the sample(s) testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, results the the prove the sample(s) testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, results the testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, results the testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, results the testing inspection report & certificate,



Report No.: ZR/2019/C002603 Page: 73 of 73

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2019/C0026.

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 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 exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days on). Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: (DI Doccheck/Goss.com).