Branch

Report No.: HR/2020/3002303 Page: 1 of 81

FCC TEST REPORT

Application No.:	HR/2020/30023
Applicant:	Reliance Communications, LLC
Address of Applicant	91 Colin Drive, Unit 1 Holbrook, NY 11741
Manufacturer:	Unimaxcomm
Address of Manufacturer	Room 602, Floor 6th, Building B, Software Park T3,Hi-Tech Park South, Nanshan District, Shenzhen, P.R. China 518057
EUT Description:	Smart phone
Model No.:	RC545L
Trade Mark:	Orbic
FCC ID:	2ABGH-RC545L
Standards:	47 CFR FCC Part 2, Subpart J 47 CFR Part 15, Subpart C
Test Method	ANSI C63.10 (2013) KDB558074 D01 15.247 Meas Guidance v05r02
Date of Receipt:	2020/4/16
Date of Test:	2020/4/16 to 2020/6/3
Date of Issue:	2020/7/13
Test Result:	PASS *

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

Authorized Signature:

Derde young

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

Report No.: HR/2020/3002303 Page: 2 of 81

1 Version

Revision Record							
Version	Chapter	Date	Modifier	Remark			
01		2020/7/13		Original			

Authorized by:		
Tested By	Mike Mu (Mike Hu)/Project Engineer	
Checked By	Dand Chen (David Chen) /Reviewer	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of 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@csas.com

Branch

Report No.: HR/2020/3002303 Page: 3 of 81

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 4.3	PASS
Conducted Peak Output Power	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.4	PASS
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.5	PASS
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.6	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.7	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.8	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.9	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.10	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 4.11	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 4.12	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-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 cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification on 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,

Branch

Report No.: HR/2020/3002303 Page: 4 of 81

Contents

1	VERSION	
2	TEST SUMMARY	
3	GENERAL INFORMATION	5
	3.1 CLIENT INFORMATION	5
	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	8
	4.1 ANTENNA REQUIREMENT	8
	4.2 OTHER REQUIREMENTS FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM HOPPING SEQUENCE	
	4.2.1 Test Requirement:	
	4.2.2 Conclusion	
	4.3 AC POWER LINE CONDUCTED EMISSIONS	11
	4.4 CONDUCTED PEAK OUTPUT POWER	15
	4.4.1 Test Results	16
	4.4.2 Test plots	17
	4.5 20DB EMISSION BANDWIDTH & 99% OCCUPIED BANDWIDTH	
	4.5.1 Test Results	22
	4.5.2 Test plots	23
	4.6 CARRIER FREQUENCIES SEPARATION	
	4.6.1 Test Results	33
	4.6.2 Test plots:	34
	4.7 HOPPING CHANNEL NUMBER	36
	4.7.1 Test Results	36
	4.7.2 Test plots	37
	4.8 DWELL TIME	
	4.8.1 Test Results	40
	4.8.2 Test plots	
	4.9 BAND-EDGE FOR RF CONDUCTED EMISSIONS	
	4.9.1 Test plots	
	4.10 Spurious RF Conducted Emissions	
	4.10.1 Test plots	
	4.11 RADIATED SPURIOUS EMISSION	
	4.11.1 Radiated Emission below 1GHz	
	4.11.2 Transmitter Emission above 1GHz	
	4.12 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	
	4.12.1 Test plots	74
5	MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2)	78
6	EQUIPMENT LIST	79
7	PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	81



Unless otherwise agreed 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 to exonerate parties to a 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 esample(s) tested and such sample(s) are relatined for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN_Doccheck@gss.com

or email: <u>CN_Deccheck@segs.com</u> No. Workshop,M-10, Midd esclino, Science & Technology Park, Shenzhen, China 518057 t (86–755) 26012053 f (86–755

Report No.: HR/2020/3002303 Page: 5 of 81

3 General Information

3.1 Client Information

Applicant:	Reliance Communications, LLC			
Address of Applicant:	91 Colin Drive, Unit 1 Holbrook, NY 11741			
Manufacturer:	Unimaxcomm			
Address of Manufacturer:	Room 602, Floor 6th, Building B, Software Park T3,Hi-Tech Park South, Nanshan District, Shenzhen, P.R. China 518057			

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.sgs</u> . subject to Terms and Conditions for Electronic Documents a Attention is drawn to the limitation of liability, indemnification advised that information contained hereon reflects the Comp client's instructions, if any. The Company's sole responsibil transaction from exercising all their rights and obligations u except in full, without prior written approval of the Company appearance of this document is unlawful and offenders may b results shown in this test report refer only to the sample(s) test Attention: To check the authenticity of testing /inspection or email: CN_Doccheck@eas.com	com/en/Tei t http://www and jurisd any's findir lity is to its nder the tr /. Any unau e prosecut ed and such	rms-and-Conditions. w.sgs.com/en/Terms- liction issues define ngs at the time of its s Client and this do ansaction documen uthorized alteration, ed to the fullest exte n samole(s) are retai	aspx and, for electror -and-Conditions/Tern d therein. Any holde s intervention only ar ocument does not es ts. This document c. forgery or falsificat ant of the law. Unless ned 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	
vinitary	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.: HR/2020/3002303 Page: 6 of 81

3.4 General Description of EUT

EUT Description:	Smart phone
Model No.:	RC545L
Trade Mark:	Orbic
Hardware Version:	V1.1
Software Version:	ORB545L_V.1.0.7_BVZPP
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 1 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 78.
Bluetooth Version:	Bluetooth V3.0 +EDR
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	⊠ Portable Device, □ Module
Antenna Type:	□ External, ⊠ Integrated
Antenna Gain:	0.85dBi
Power Supply	□ AC/DC Adapter; ⊠ Battery □ PoE:; □ Other:

	Operation Frequency each of channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz



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

Report No.: HR/2020/3002303

Page: 7 of 81

	19	2421MHz	39	2441MHz	59	2461MHz	
--	----	---------	----	---------	----	---------	--

Remark:

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	2402MHz
The Middle channel	2441MHz
The Highest channel	2480MHz

3.5 Test Environment

Operating Environment				
Temperature: 24.0 °C				
Humidity:	55 % RH			
Atmospheric Pressure:	101.30 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 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-end-Cond

Report No.: HR/2020/3002303 Page: 8 of 81

4 Test results and Measurement Data

4.1 Antenna Requirement

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

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 0.85dBi.



Unless otherwise agreed 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 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 Lesting (inspection report & certificate, please contact us at telephone: (86-755)8307 1443, Attention: To check the authenticity of Lesting (inspection report & certificate) at telephone: (86-755)8307 1443, Attention: To check the authenticity of Lesting (inspection report & certificate) at telephone: (86-755)8307 1443, Attention: To check the authenticity of Lesting (inspection report & certificate) at telephone: (86-755)8307 1443, Attention: To check the authenticity of Lesting (inspection report & certificate) at telephone: (86-755)8307 1443, Attention: To check the authenticity of Lesting (inspection report & certificate) at telephone: (86-755)8307 1443, Attention: To check the authenticity of Lesting (inspection report

Report No.: HR/2020/3002303 Page: 9 of 81

4.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

4.2.1 Test Requirement:

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

4.2.2 Conclusion

Standard Requirement:

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

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

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

Compliance for section 15.247(a)(1):

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

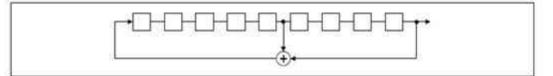
> Number of shift register stages: 9

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

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

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

0 62 46 77	7 64	8 73	16 75 1
	1 1 1		
			÷

Each frequency used equally on the average by each transmitter.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conc	litions of Service printed
overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for elect	stronic 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 h	
advised that information contained hereon reflects the Company's findings at the time of its intervention on	
Client's instructions, if any. The Company's sole responsibility is to its Client and this document does no	
transaction from exercising all their rights and obligations under the transaction documents. This docume	nt cannot be reproduced
except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsit	
appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Un	
results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days of	nly.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telep	hone: (86-755) 8307 1443,
or email: CN.Doccheck@sgs.com	

Report No.: HR/2020/3002303 Page: 10 of 81

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

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the RF system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system. Compliance for section 15.247(h):

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



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

Report No.: HR/2020/3002303 Page: 11 of 81

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
	Frequency range (MHz)	Limit (dBuV)			
		Quasi-peak	Average		
Limit:	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarith	nm of the frequency.			
Test Procedure:	 impedance. The power of connected to a second L reference plane in the sameasured. A multiple soor power cables to a single exceeded. 3) The tabletop EUT was placed on the horizontal 4) The test was performed work of the EUT shall be 0.4 m vertical ground reference plane. The LIS unit under test and bondomounted on top of the gr between the closest point the EUT and associated 5) In order to find the maxim 	to AC power source throug Network) which provides a ables of all other units of the ISN 2, which was bonded to me way as the LISN 1 for the cket outlet strip was used to LISN provided the rating of aced upon a non-metallic to And for floor-standing arran ground reference plane, with a vertical ground reference in from the vertical ground reference plane was bonded to the he N 1 was placed 0.8 m from ed to a ground reference plane. This ts of the LISN 1 and the EU equipment was at least 0.8 hum emission, the relative plane interface cables must be ch	gh a LISN 1 (Line $50\Omega/50\mu$ H + 5Ω linear the EUT were to the ground the unit being to connect multiple of the LISN was not able 0.8m above the figement, the EUT was the context plane. The rear reference plane. The rear reference plane. The horizontal ground the boundary of the ane for LISNs distance was JT. All other units of m from the LISN 2. positions of		

4.3 AC Power Line Conducted Emissions



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.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 retaintion, To Check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@asps.com

of mail: <u>CN_DocCinerAgesga.com</u> No.1 Workshop, M-10, Midd escloin, Science & Technology Park, Shenzhen, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国 · 梁圳 · 科技因中区M-10栋一号厂房 邮编: 518057 t (86–755) 26012053 f (86–755) 26710594 sgs.com

Report No.: HR/2020/3002303 Page: 12 of 81

Test Setup:	Shielding Room Test Receiver Test
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel. Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation at the lowest channel is the worst case. Charge + Transmitting mode 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 on ilability, 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 excore 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)

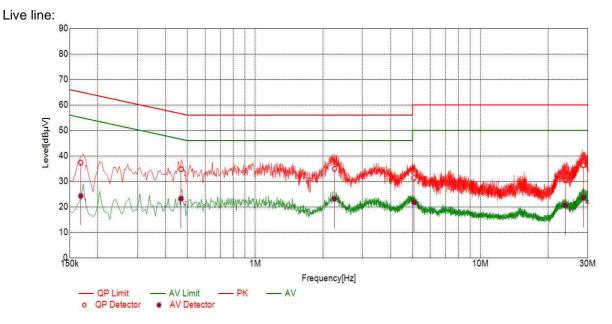
or email: <u>CN_Deccheck@segs.com</u> No. Workshop,M-10, Midd esclino, Science & Technology Park, Shenzhen, China 518057 t (86–755) 26012053 f (86–755

Report No.: HR/2020/3002303 Page: 13 of 81

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.



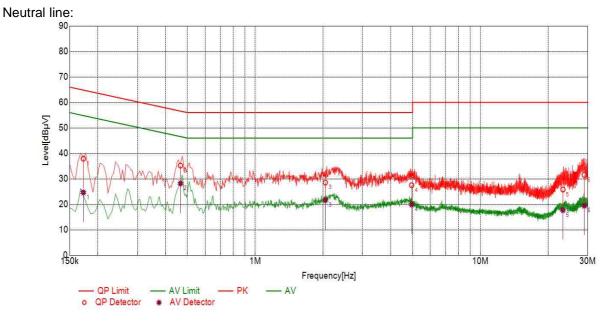
Test Graph

Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value	QP Limit	QP Margin	AV Value	AV Limit	AV Margin	Туре
1	0.1682	10.10	37.32	65.05	27.73	24.28	55.05	30.77	L
2	0.4687	10.10	34.76	56.54	21.78	23.26	46.54	23.28	L
3	2.2505	10.10	34.93	56.00	21.07	23.11	46.00	22.89	L
4	5.0649	10.10	31.35	60.00	28.65	21.73	50.00	28.27	L
5	23.8237	10.11	30.41	60.00	29.59	20.51	50.00	29.49	L
6	28.6643	10.11	36.34	60.00	23.66	23.56	50.00	26.44	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 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 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 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, imspection report & certificate, please contact us at telephone: (86-755)8307 1443,

Report No.: HR/2020/3002303 Page: 14 of 81





Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value	QP Limit	QP Margin	AV Value	AV Limit	AV Margin	Туре
1	0.1726	10.10	37.92	64.84	26.92	24.65	54.84	30.19	N
2	0.4662	10.10	35.20	56.58	21.38	28.22	46.58	18.36	N
3	2.0489	10.10	28.55	56.00	27.45	21.63	46.00	24.37	N
4	4.9524	10.10	27.51	56.00	28.49	19.92	46.00	26.08	N
5	23.2594	10.11	25.82	60.00	34.18	17.75	50.00	32.25	N
6	28.8967	10.11	31.58	60.00	28.42	19.49	50.00	30.51	N

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.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-enDocument.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 excense except in full, without prior written approval of the Company. Any unauthorized alteration, forgrey 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) its set retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)83071443, or email: (0.1000)

Report No.: HR/2020/3002303 Page: 15 of 81

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)			
Test Method:	ANSI C63.10:2013 Section 7.8.5			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Limit:	(20.97dBm) 125mW			
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.			
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.			
Instruments Used:	Refer to section 5.10 for details			
Test Results:	Pass			

4.4 Conducted Peak Output Power



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

Report No.: HR/2020/3002303 Page: 16 of 81

4.4.1 Test Results

Measurement Data of Average power:

GFSK mode					
Test channel	Average Output Power (dBm)	Result			
Lowest	9.06	Report purpose only			
Middle	9.60	Report purpose only			
Highest	8.02	Report purpose only			
	π/4DQPSK mode				
Test channel	Average Output Power (dBm)	Result			
Lowest	7.15	Report purpose only			
Middle	7.71	Report purpose only			
Highest	6.02	Report purpose only			
	8DPSK mode				
Test channel	Average Output Power (dBm)	Result			
Lowest	7.81	Report purpose only			
Middle	8.54	Report purpose only			
Highest	6.56	Report purpose only			

Measurement Data of Peak power:

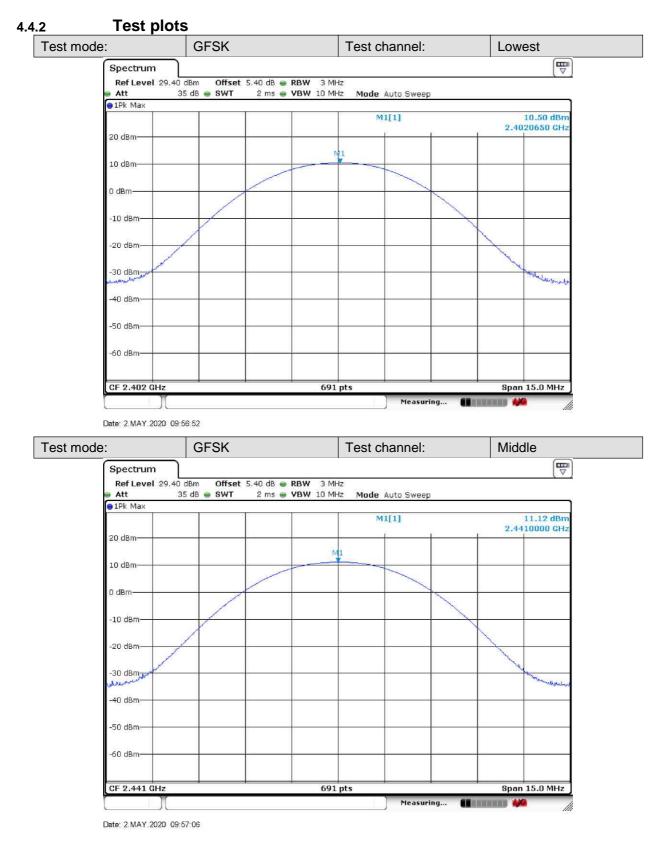
GFSK mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	10.50	20.97	Pass		
Middle	11.12	20.97	Pass		
Highest	9.05	20.97	Pass		
	π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	11.26	20.97	Pass		
Middle	11.89	20.97	Pass		
Highest	9.81	20.97	Pass		
	8DPSK mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	11.58	20.97	Pass		
Middle	12.12	20.97	Pass		
Highest	10.09	20.97	Pass		



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation on ilability, 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: (N_Doccheck@gss.com)

or email: <u>CN_Docenceck@sgs.com</u> No.1 Workshop, M-10, Midde 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.com

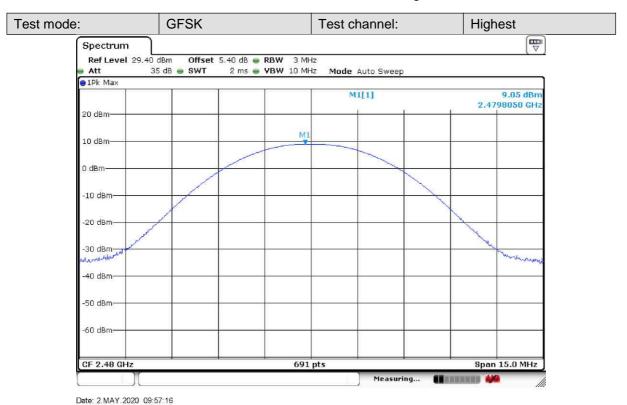
Report No.: HR/2020/3002303 Page: 17 of 81

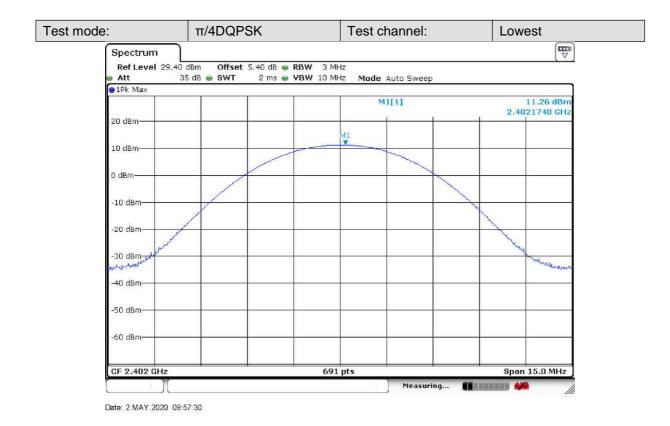




Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic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

Report No.: HR/2020/3002303 Page: 18 of 81

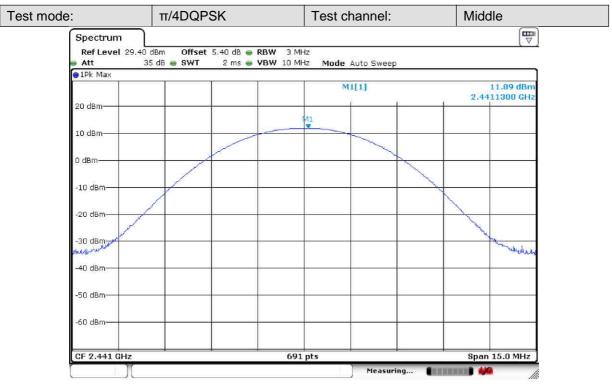




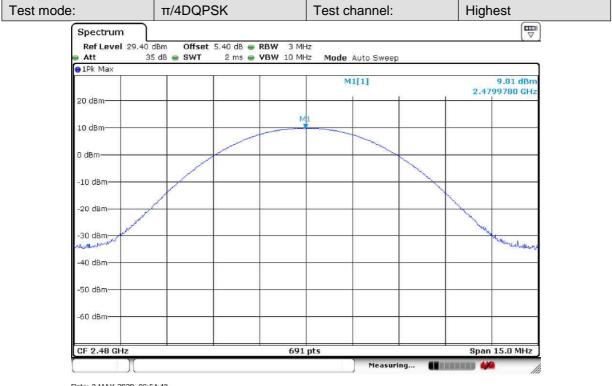


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic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

> Report No.: HR/2020/3002303 Page: 19 of 81



Date: 2.MAY.2020 09:54:58

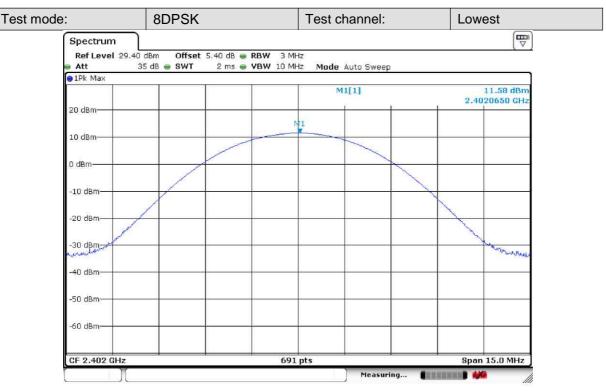


Date: 2 MAY 2020 09:54:43

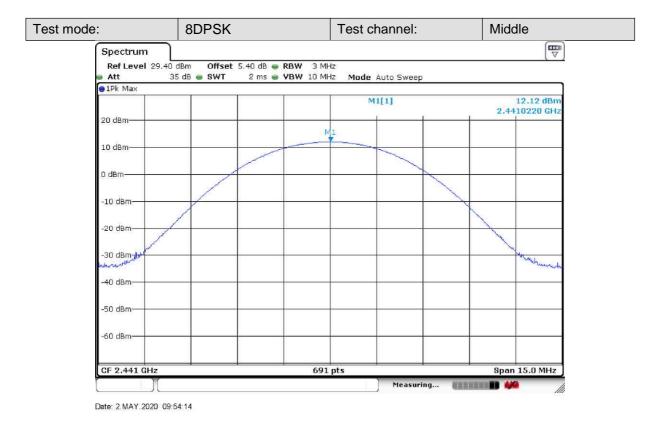


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic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

Report No.: HR/2020/3002303 Page: 20 of 81



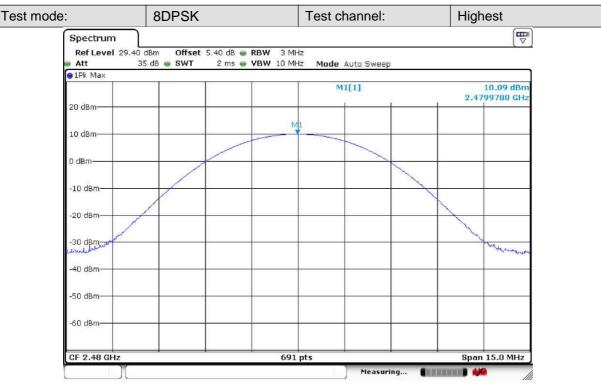
Date: 2.MAY.2020 09:53:21





Unless otherwise agreed 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 on ilability, 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 excore 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)

> Report No.: HR/2020/3002303 21 of 81 Page:



Date: 2 MAY 2020 09:54:30



Unless otherwise agreed 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 on ilability, 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 excore 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)

Report No.: HR/2020/3002303 Page: 22 of 81

4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013 Section 7.8.7				
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Limit:	NA				
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.				
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.				
Instruments Used:	Refer to section 5.10 for details				
Test Results:	Pass				
4.5.1 Test Resul	ts				

	1000100000			
Mode	Test Channel	99% Occupied Bandwidth (KHz)	20dB Emission Bandwidth (KHz)	Result
	Lowest	864.0	898.7	Pass
GFSK	Middle	859.6	898.7	Pass
	Highest	855.3	898.7	Pass
	Lowest	1167.8	1263.4	Pass
π/4DQPSK	Middle	1154.8	1263.4	Pass
	Highest	1154.8	1263.4	Pass
	Lowest	1176.6	1280.8	Pass
8DPSK	Middle	1159.2	1272.1	Pass
	Highest	1163.5	1272.1	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 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 on). Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.boccheck@ass.com

> Report No.: HR/2020/3002303 Page: 23 of 81

4.5.2 Test plots



CF 2,402 GHz Span 3.0 MHz 691 pts Marker Function Type Ref Trc X-value Y-value Function Result 2.4019392 GHz 898.7 kHz M1 10.95 dBm -8.97 dBm ndB down 2.4015224 GHz 20.00 dB Τ1 ndB 1 2 Τ2 .4024211 GHz -8.90 dBm Q factor 2672.7 Measuring... A REAL PROPERTY AND AND AND AND

Date: 2.MAY.2020 06:40:26



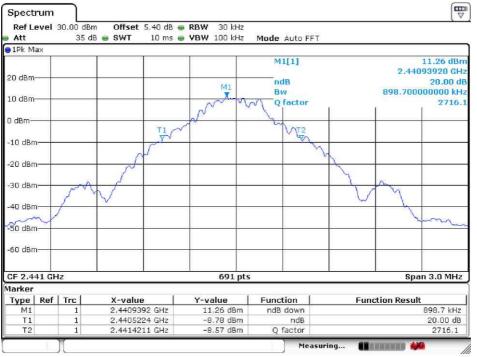
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic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

Report No.: HR/2020/3002303 Page: 24 of 81



Spectrum Ref Level 30.00 dBm Offset 5.40 dB 曼 RBW 30 kHz Att 35 dB 🥌 SWT 10 ms 🖷 VBW 100 kHz Mode Auto FFT ⊖1Pk Ma> M1[1] 11.26 dBn 2.44093920 GH Occ Bw 859.623733719 kH 20 dBm M1 10 dBm N 1 0 dBm T1~~ -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm Span 3.0 MHz CE 2,441 GHz 691 pts Measuring... •

Date: 2 MAY 2020 06:39:55

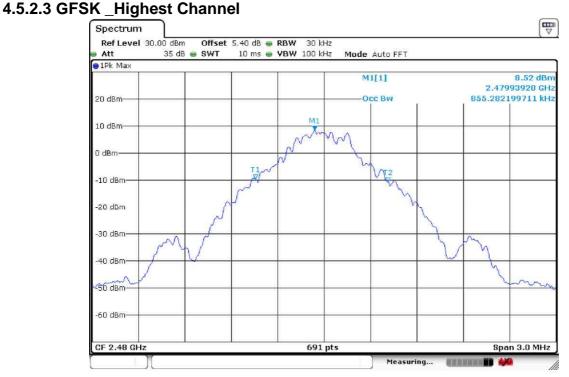


Date: 2.MAY.2020 06:39:46

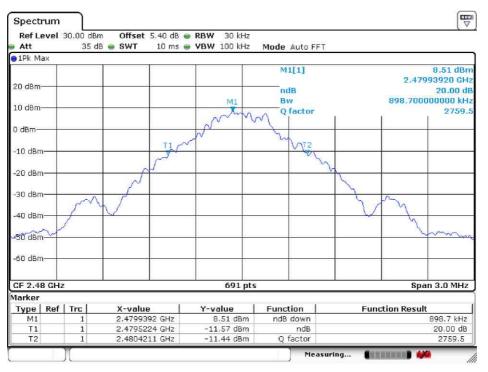


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic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

Report No.: HR/2020/3002303 Page: 25 of 81



Date: 2 MAY 2020 06:39:16

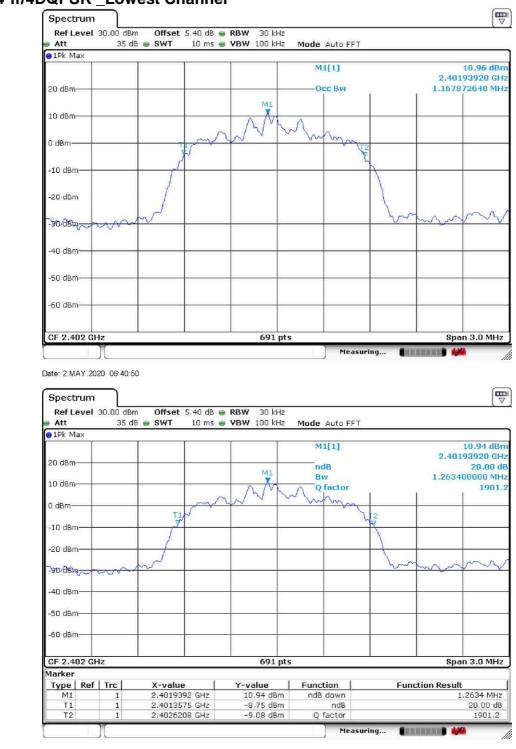


Date: 2.MAY.2020 06:39:33



Unless otherwise agreed 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 on ilability, 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 excore 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)

> Report No.: HR/2020/3002303 Page: 26 of 81



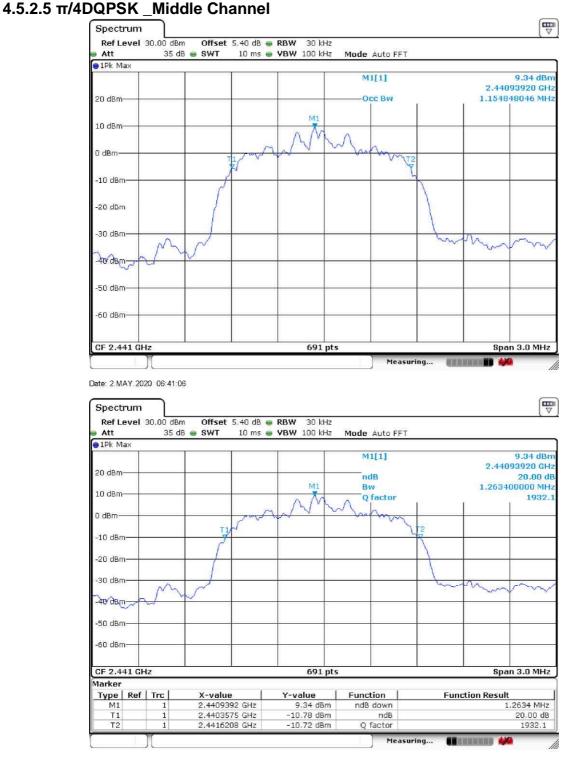
4.5.2.4 π/4DQPSK _Lowest Channel

Date: 2.MAY.2020 06:40:40



Unless otherwise agreed 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 on 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: (N_Doccheck@gss.com)

Report No.: HR/2020/3002303 Page: 27 of 81

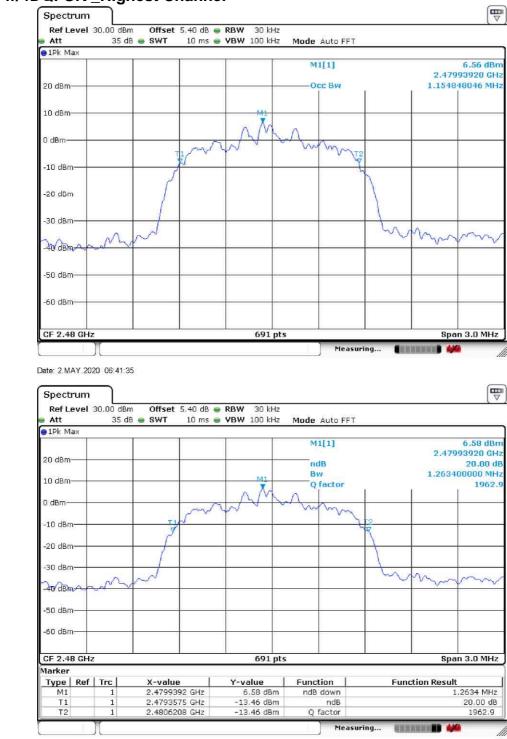


Date: 2.MAY.2020 06:41:15



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

Report No.: HR/2020/3002303 Page: 28 of 81



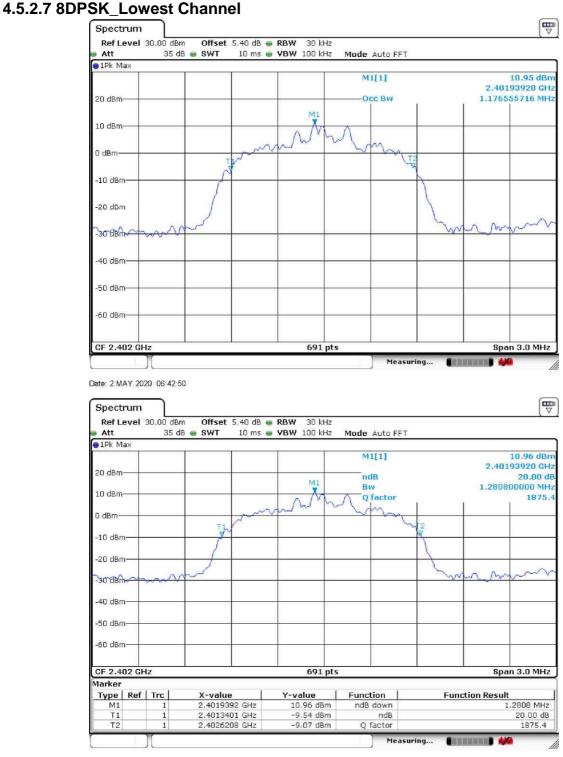
4.5.2.6 π/4DQPSK _Highest Channel

Date: 2.MAY.2020 06:41:27



Unless otherwise agreed 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 on 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: (N_Doccheck@gss.com)

Report No.: HR/2020/3002303 Page: 29 of 81



Date: 2.MAY.2020 06:42:58



Unless otherwise agreed 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 on 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: (N_Doccheck@gss.com)

Report No.: HR/2020/3002303 Page: 30 of 81



Date: 2.MAY.2020 06:42:26



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 on 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: (N_Doccheck@gss.com)

Report No.: HR/2020/3002303 Page: 31 of 81



Date: 2 MAY 2020 06:42:04



Unless otherwise agreed 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 on 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: (N_Doccheck@gss.com)

Report No.: HR/2020/3002303 Page: 32 of 81

Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) **Test Method:** ANSI C63.10:2013 Section 7.8.2 Spectrum Analyzer E.U.T Test Setup: Non-Conducted Table Ground Reference Plane 2/3 of the 20dB bandwidth Limit: Remark: the transmission power is less than 0.125W. Exploratory Test Mode: Hopping transmitting with all kind of modulation and all kind of data type. Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, Final Test Mode: 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Instruments Used: Refer to section 5.10 for details **Test Results:** Pass

4.6 Carrier Frequencies Separation



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

Report No.: HR/2020/3002303 Page: 33 of 81

4.6.1 Test Results

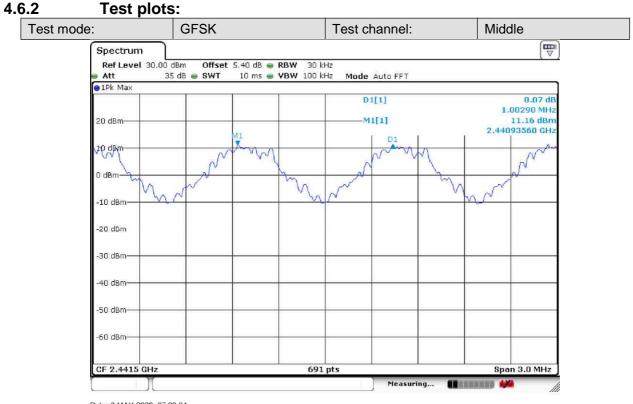
GFSK mode					
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result		
Middle	1002.9	599.1	Pass		
π/4DQPSK mode					
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result		
Middle	1002.9	842.3	Pass		
8DPSK mode					
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result		
Middle	1002.9	853.9	Pass		

Remark: According to section 6.4,

Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	898.7	599.1
π/4DQPSK	1263.4	842.3
8DPSK	1280.8	853.9



Report No.: HR/2020/3002303 Page: 34 of 81

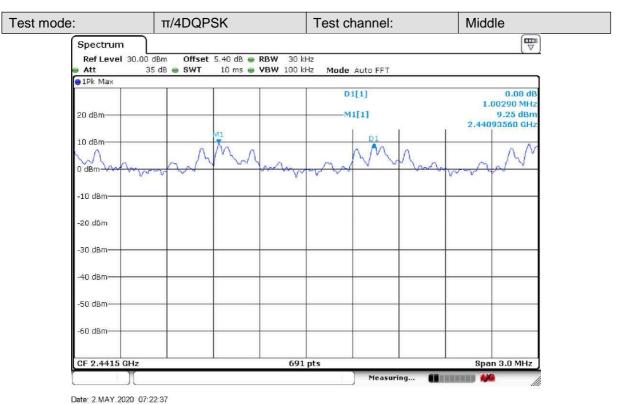


Date: 2.MAY.2020 07:23:04



Unless otherwise agreed 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 refor 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 email: CN.Doccheck@ags.com

> Report No.: HR/2020/3002303 Page: 35 of 81



Test mode: 8DPSK Test channel: Middle Spectrum Ref Level 30.00 dBm Offset 5.40 dB 曼 RBW 30 kHz Att 35 dB 🥌 SWT 10 ms 👄 VBW 100 kHz Mode Auto FFT 🖯 1Pk Max D1[1] 0.04 dE 1.00290 MHz 20 dBm M1[1] 9.24 dBn 2,44093560 GH 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm 40 dBm -50 dBm -60 dBm-CF 2.4415 GHz 691 pts Span 3.0 MHz Measuring... **ENDINA** -Date: 2 MAY 2020 07:22:05



Unless otherwise agreed 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 on 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: (N_Doccheck@gss.com)

Report No.: HR/2020/3002303 Page: 36 of 81

Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) **Test Method:** ANSI C63.10:2013 Section 7.8.3 Spectrum Analyzer 000 000 E.U.T 6 Test Setup: Non-Conducted Table Ground Reference Plane Limit: At least 15 channels Test Mode: Hopping transmitting with all kind of modulation Instruments Used: Refer to section 5.10 for details Test Results: Pass

4.7 Hopping Channel Number

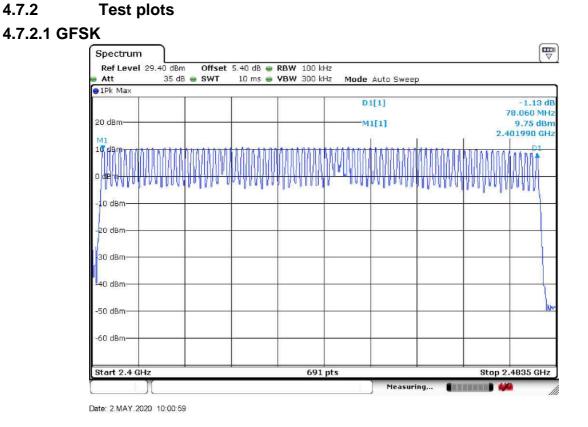
4.7.1 Test Results

Mode	Hopping channel numbers	Limit
GFSK	79	≥15
π/4DQPSK	79	≥15
8DPSK	79	≥15

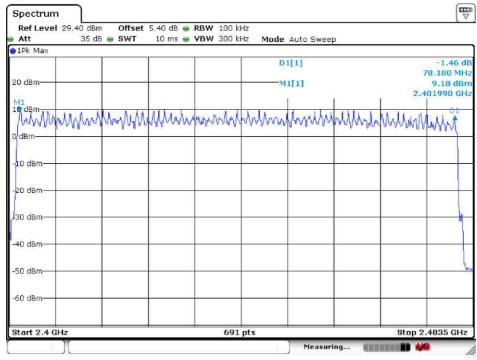


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/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 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.: HR/2020/3002303 Page: 37 of 81



4.7.2.2 π/4DQPSK



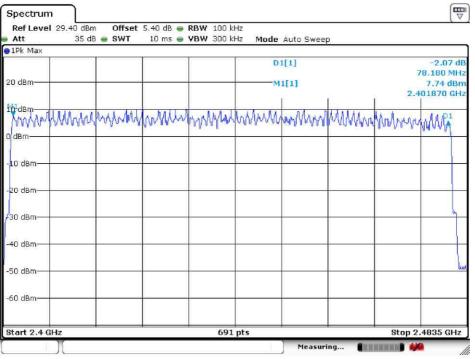
Date: 2.MAY.2020 09:58:29



Unless otherwise agreed 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 on 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: (N_Doccheck@gss.com)

Report No.: HR/2020/3002303 Page: 38 of 81

4.7.2.3 8DPSK



Date: 2.MAY.2020 09:59:25



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

Report No.: HR/2020/3002303 Page: 39 of 81

Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) ANSI C63.10:2013 Section 7.8.4 **Test Method:** Spectrum Analyzer 000 000 E.U.T 10 Test Setup: Non-Conducted Table Ground Reference Plane Instruments Used: Refer to section 5.10 for details Test Mode: Hopping transmitting with all kind of modulation and all kind of data type. Limit: 0.4 Second Test Results: Pass

4.8 Dwell Time



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at 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 excore a transaction from exercising all their rights and obligations under the transaction documents. This document is unawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this tercept re 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@ags.com

Report No.: HR/2020/3002303 Page: 40 of 81

4.8.1 Test Results	
Operation Modes	On time (ms) on one channel
DH1	0.375
DH3	1.641
DH5	2.901
2-DH1	0.386
2-DH3	1.644
2-DH5	2.906
3-DH1	0.388
3-DH3	1.644
3-DH5	2.899

Bluetooth Time of Occupancy Calculation

Typically, Bluetooth 1x/EDR mode has a channel hopping rate of 1600 hops/s, since 1x/EDR modes use 5 transmit and 1 receive slot, for a total of 6 slots, the Bluetooth transmitter is actually hopping at a rate of 1600/6=266.67 hops/slot

400ms x 79 Channel = 31.6 s (Time of Occupancy Limit)

Worst case BT has 266.67 hops/second (for 1x/EDR modes with 2-DH5 operation)

266.67 hops/second/79 channels=3.38 hops/second (# of hops/second on one channel)

3.38 hops/second/channel*31.6seconds=106.67 hops (#hops over a 31.6 second period)

106.67 hops *2.906 ms/channel =309.98 ms(worst case dwell time for one channel in 1x/EDR modes)

With AFH, the number of channels is reduced to a minimum of 20 channels and the channel hopping rate is reduced by 50% to 800hops/s, AFH mode also uses 6 slots so the Bluetooth transmitter hops at a rate of 800/6=133.3 hops/s/slot

400ms x 20 Channel = 8 s (Time of Occupancy Limit)

Worst case BT has 133.3 hops/second/slot (for AFH mode with 2-DH5 operation)

133.3 hops/second/20 channels=6.67 hops/second (#hops/second on one channel)

6.67 hops/second *8seconds=53.34 hops (#hops over a 8 seconds period)

53.34 hops x2.906 ms/channel=155.01 ms(worst case dwell time for one channel in AFH mode)

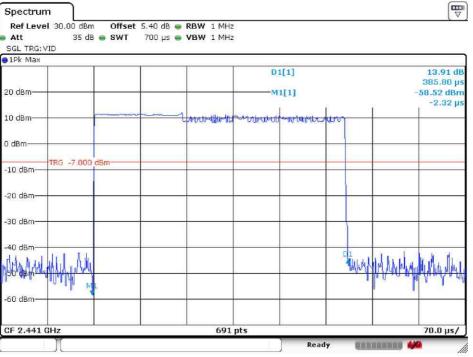


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic 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 excore the company. Sole responsibility is to its Cilent and this document does not excore the company. Any unauthorized alteration, forgery or faisification on 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 Lesting (inspection report & certificate, please contact us at lelephone: (86-755)8307 1443, Attention; To Check the authenticity of Lesting (inspection report & certificate) and to all the solences in the solence in the solences in the solence in the solence in the solences in the solence in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Report No.: HR/2020/3002303 Page: 41 of 81

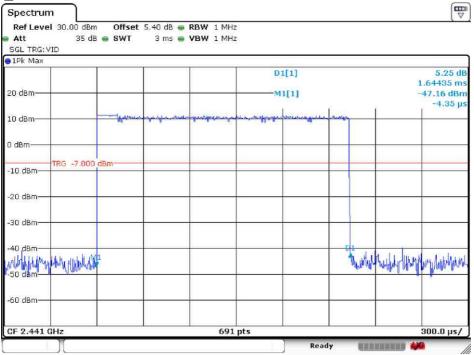
4.8.2 Test plots

4.8.2.1 DH1 _Middle Channel



Date: 2.MAY.2020 07:06:22

4.8.2.2 DH3 _ Middle Channel



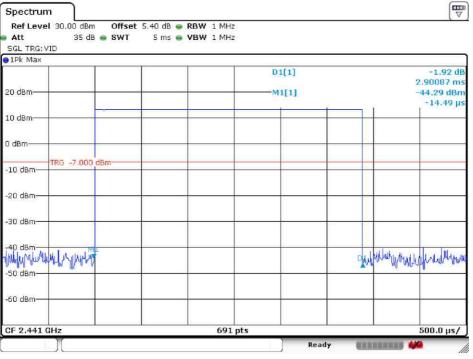
Date: 2.MAY.2020 07:07:30



Unless otherwise agreed 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 on 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: (N_Doccheck@gss.com)

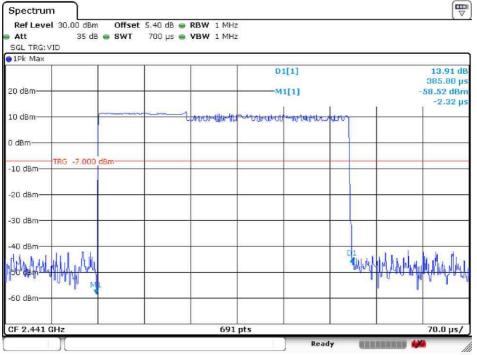
Report No.: HR/2020/3002303 Page: 42 of 81

4.8.2.3 DH5 _ Middle Channel



Date: 2.MAY.2020 07:08:04

4.8.2.4 2DH1 _Middle Channel



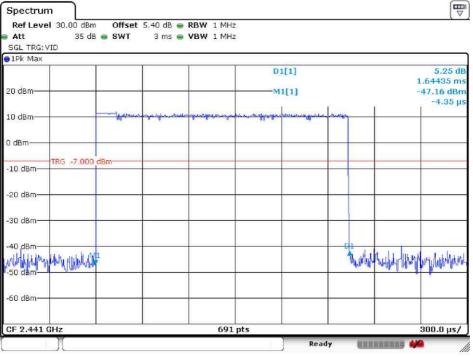
Date: 2.MAY.2020 07:06:22



Unless otherwise agreed 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 on 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: (N_Doccheck@gss.com)

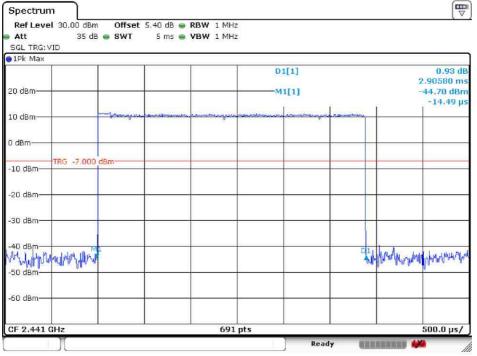
Report No.: HR/2020/3002303 Page: 43 of 81

4.8.2.5 2DH3 _ Middle Channel



Date: 2.MAY.2020 07:07:30

4.8.2.6 2DH5 _ Middle Channel



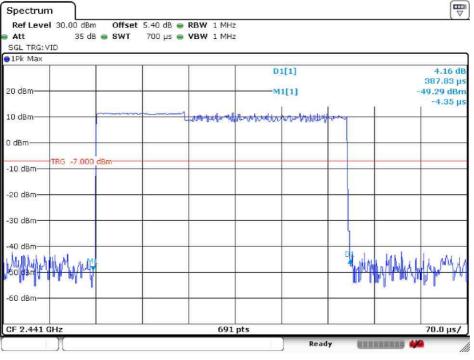
Date: 2.MAY.2020 07:05:50



Unless otherwise agreed 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 on 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: (N_Doccheck@gss.com)

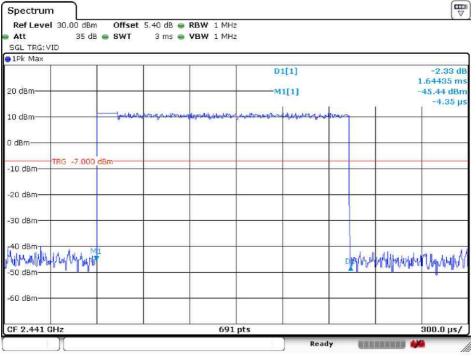
Report No.: HR/2020/3002303 Page: 44 of 81

4.8.2.7 3DH1 _Middle Channel



Date: 2.MAY.2020 07:06:46

4.8.2.8 3DH3 _ Middle Channel



Date: 2.MAY.2020 07:07:11



Unless otherwise agreed 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 on 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: (N_Doccheck@gss.com)

Report No.: HR/2020/3002303 Page: 45 of 81

4.8.2.9 3DH5 _ Middle Channel

Spectrum Offset 5.40 dB 🥃 RBW 1 MHz Ref Level 30.00 dBm Att 35 dB 🥌 SWT 5 ms 🖷 VBW 1 MHz SGL TRG: VID ●1Pk Max D1[1] 0.52 df 2.89855 m 20 dBm M1[1] -45.28 dBn -7.25 µs 10 dBm - Was 0 dBm TRG -7.000 dBn -10 dBm--20 dBm--30 dBm 40 dBn proting of a property the set D1 Man Swithley Million M. -50 dBm -60 dBm-CF 2.441 GHz 691 pts 500.0 µs/ Ready THE REAL PROPERTY.

Date: 2.MAY.2020 07:05:03



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

Branch

S

Report No.: HR/2020/3002303 Page: 46 of 81

Test Requirement:	47 CFR Part 15C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 Section 7.8.6					
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.					
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type					
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.					
Instruments Used:	Refer to section 5.10 for details					
Test Results:	Pass					

4.9 Band-edge for RF Conducted Emissions



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.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 cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification on 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,

Report No.: HR/2020/3002303 Page: 47 of 81

4.9.1 Test plots 4.9.1.1 GFSK _Lowest Channel_ Hopping ON Spectrum Ref Level 30.00 dBm Offset 5.40 dB RBW 100 kHz Att 35 dB SWT 10 ms VBW 300 kHz Mode Auto 5 PIPk Max

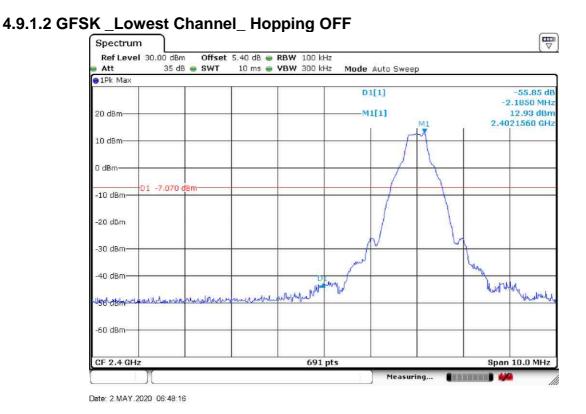
Mode Auto Sweep D1[1] -58.54 dE 4.1870 MHz 20 dBm -M1[1] 12.81 dBn 2.40#0390 GH: 10 dBm 0 dBm D1 -7 190 dBm -10 dBm--20 dBm -30 dBm 40 dBm -SUBBAN Menunan -60 dBm-Span 10.0 MHz CF 2.4 GHz 691 pts Measuring... in the size and the last th

Date: 2.MAY.2020 07:24:37



Unless otherwise agreed 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) 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)83071443,

> Report No.: HR/2020/3002303 Page: 48 of 81



4.9.1.3 GFSK _Highest Channel_ Hopping ON

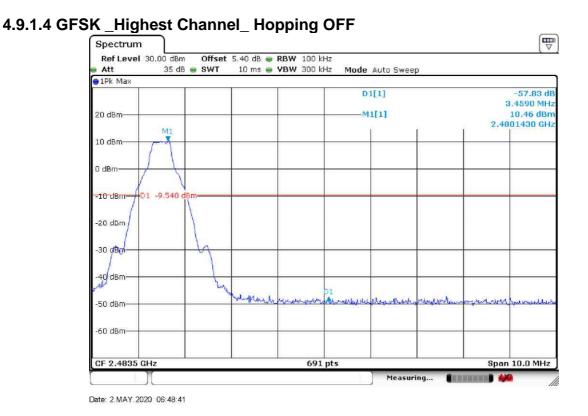
Spectrum Ref Level 30.00 dBm Offset 5.40 dB 👄 RBW 100 kHz 35 dB 🥌 SWT 10 ms 🖷 VBW 300 kHz Mode Auto Sweep Att 91Pk Ma D1[1] -57.81 df 4.6740 MHz M1[1] 10.12 dBn 20 dBm 2.4789700 GH 10 dem O/dB -10 dBr D1 -9.880 -20 dBm -30 dBm -40 dBm MPH hourses ap undertal guest and ALIN alust Augure to pa -50 dBm -60 dBm· Span 10.0 MHz CE 2,4835 GHz 691 pts Measuring... 1000

Date: 2.MAY.2020 07:25:23



Unless otherwise agreed 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 end sub aspme)(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.: HR/2020/3002303 Page: 49 of 81



4.9.1.5 π /4DQPSK _Lowest Channel_ Hopping ON

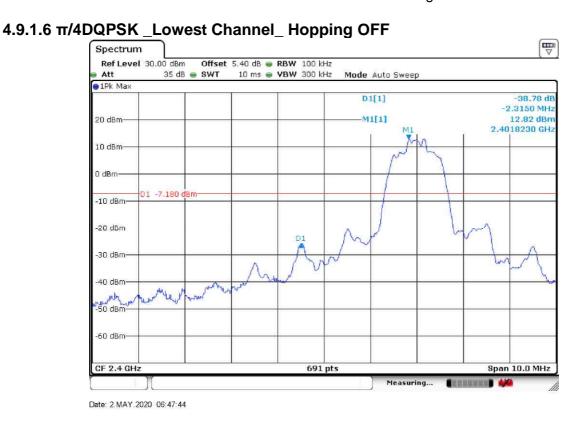
Spectrum Ref Level 30.00 dBm Offset 5.40 dB 曼 RBW 100 kHz 35 dB 🥃 SWT 10 ms 🖷 VBW 300 kHz Mode Auto Sweep Att 91Pk Ma D1[1] 43.21 df 2.7210 MHz M1[1] 12.76 dBn 20 dBm 2.4021560 GH 10 dBm W My www. work 0 dBm 01 -7.240 dBr -10 dBm -20 dBm -30 dBm Th MAN 40 dBm 450 Bernarden warden market Milleler NH -60 dBm· Span 10.0 MHz CE 2.4 GHz 691 pts Measuring...

Date: 2.MAY.2020 07:26:16



Unless otherwise agreed 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 excenter 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 reations, and sole and song. Attention: To check the authenticity of testing (inspection report & certificate, please contact us at telephone: (86-755)8307 1443.

Report No.: HR/2020/3002303 Page: 50 of 81



4.9.1.7 π /4DQPSK _Highest Channel_ Hopping ON

Branch

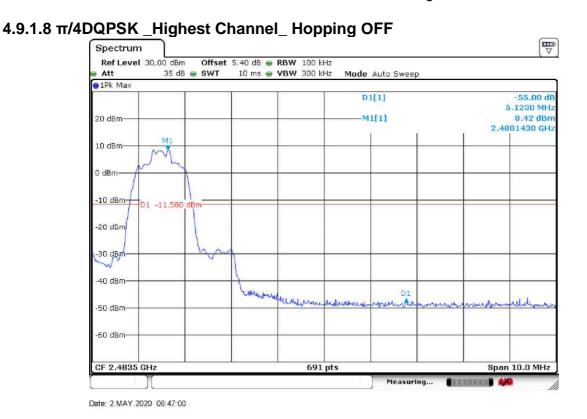
Spectrum Ref Level 30.00 dBm Offset 5.40 dB 曼 RBW 100 kHz 35 dB 🥃 SWT 10 ms 🖷 VBW 300 kHz Mode Auto Sweep Att 91Pk Ma D1[1] -55.26 dF 4.3560 MHz M1[1] 8.35 dBn 20 dBm 2.4801570 GH M. 10 dBm MAM 0 dBmashi -10 d8m 01 -11.650 dBm -20 dBm -30 dBm a. I -40 dBm milling -50 dBm -60 dBm· Span 10.0 MHz CE 2,4835 GHz 691 pts Measuring... -

Date: 2.MAY.2020 07:27:27



Unless otherwise agreed 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 end sub aspme)(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.: HR/2020/3002303 Page: 51 of 81



4.9.1.9 8DPSK _Lowest Channel_ Hopping ON

Spectrum Ref Level 30.00 dBm Offset 5.40 dB 曼 RBW 100 kHz 35 dB 🥃 SWT 10 ms 🖷 VBW 300 kHz Mode Auto Sweep Att 1Pk Ma D1[1] -39,48 df 2.6770 MHz M1[1] 12.93 dBn 20 dBm 2.4021420 GH 10 dBm 0 dBm D1 -7.070 dB -10 dBm -20 dBm D1 Mil -30 dBm il Ma 40 dBm worth hunder to warts -50 dBm -60 dBm· Span 10.0 MHz CE 2.4 GHz 691 pts Measuring...

Date: 2.MAY.2020 07:29:06

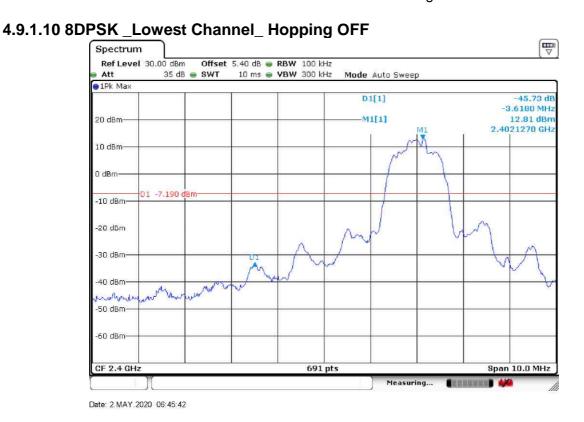


S

Branch

Unless otherwise agreed 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 end sub aspme)(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.: HR/2020/3002303 Page: 52 of 81



4.9.1.11 8DPSK _Highest Channel_ Hopping ON

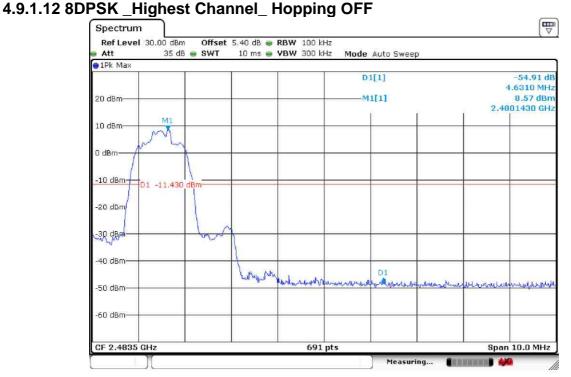
Spectrum Ref Level 30.00 dBm Offset 5.40 dB 曼 RBW 100 kHz 35 dB 🥌 SWT 10 ms 🖷 VBW 300 kHz Mode Auto Sweep Att 91Pk Ma -56.15 dF D1[1] 4.4280 MHz M1[1] 8.53 dBn 20 dBm 2.4791580 GH 10 dBm -why o dBm--10 dBm-D1 -11.470 -20 dBm -30 dBm Mar. -40 dBm Jade Alberta -50 dBm -60 dBm· Span 10.0 MHz CE 2,4835 GHz 691 pts Measuring...

Date: 2.MAY.2020 07:30:28



Unless otherwise agreed 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 excenter 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 reations, and sole and song. Attention: To check the authenticity of testing (inspection report & certificate, please contact us at telephone: (86-755)8307 1443.

Report No.: HR/2020/3002303 Page: 53 of 81



Date: 2.MAY.2020 06:46:18

S



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-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 excore rate 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, place retained for 30 days only. Attention: To check the authenticity of testing (inspection report & certificate, please contact us at telephone: (86-755)8307 1443.

Branch

S

Report No.: HR/2020/3002303 Page: 54 of 81

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 Section 7.8.8
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.
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

4.10 Spurious RF Conducted Emissions

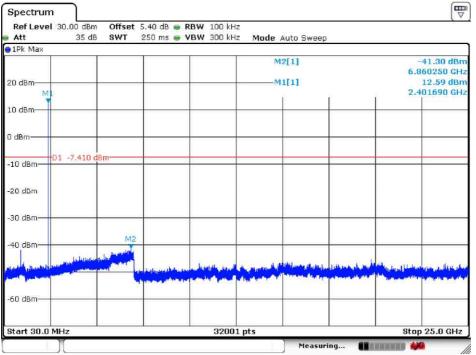


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic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

Report No.: HR/2020/3002303 Page: 55 of 81

4.10.1 Test plots



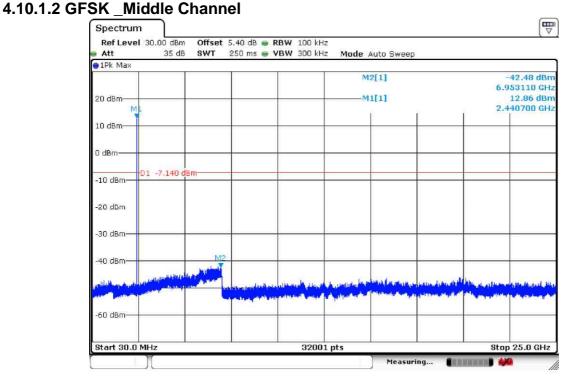


Date: 2 MAY 2020 06:51:38



Unless otherwise agreed 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 end sub aspme)(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.: HR/2020/3002303 Page: 56 of 81



Date: 2.MAY.2020 06:50:43

4.10.1.3 GFSK _Highest Channel

Branch

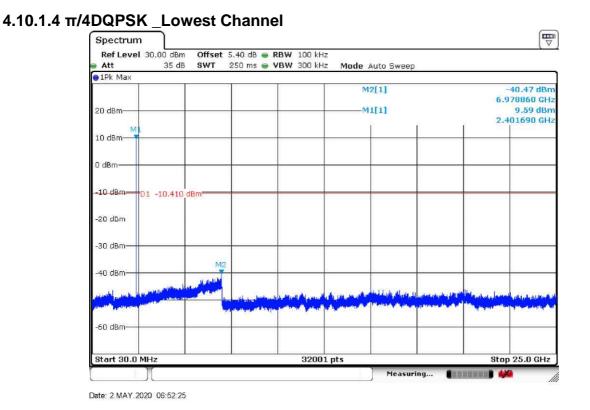
Spectrum Ref Level 30.00 dBm Offset 5.40 dB 曼 RBW 100 kHz 35 dB SWT 250 ms 曼 VBW 300 kHz Att Mode Auto Sweep 91Pk Ma 41.56 dBn M2[1] 6.562960 GHz M1[1] 10.30 dBn 20 dBm 2.479710 GH 10 dBm 0 dBm -10 d8m D1 -9 700 dB -20 dBm -30 dBm 40 dBm L. A. -60 dBm Stop 25.0 GHz Start 30.0 MHz 32001 pts Measuring... 100 Mar 100

Date: 2.MAY.2020 06:50:10



Unless otherwise agreed 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 end sub aspme)(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.: HR/2020/3002303 Page: 57 of 81



4.10.1.5 π /4DQPSK _Middle Channel

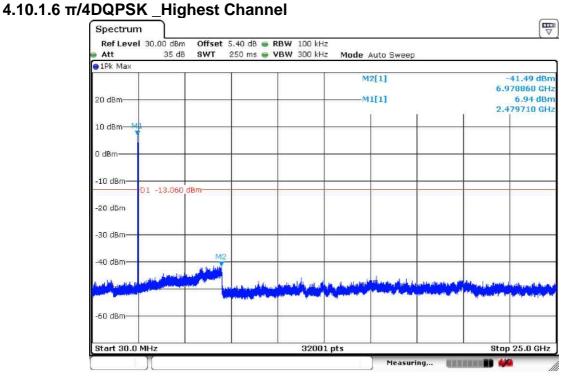
Spectrum Ref Level 30.00 dBm Offset 5.40 dB 曼 RBW 100 kHz 35 dB SWT 250 ms 曼 VBW 300 kHz Att Mode Auto Sweep 91Pk Ma M2[1] 42.07 dBn 6.762720 GHz M1[1] 9.53 dBn 20 dBm 2.441480 GH 10 dBm 0 dBm -10 d8m-D1 -10.470 dBm -20 dBm -30 dBm 40 dBm -60 dBm Stop 25.0 GHz Start 30.0 MHz 32001 pts Measuring...

Date: 2.MAY.2020 06:53:14



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-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 end 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.: HR/2020/3002303 Page: 58 of 81



Date: 2.MAY.2020 06:54:44

4.10.1.7 8DPSK_Lowest Channel

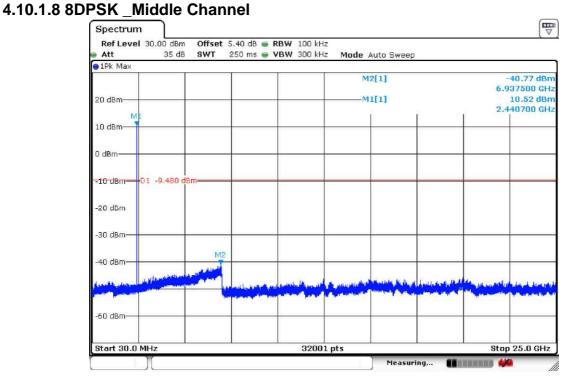
Spectrum Ref Level 30.00 dBm Offset 5.40 dB 曼 RBW 100 kHz 35 dB SWT 250 ms 曼 VBW 300 kHz Att Mode Auto Sweep 91Pk Ma M2[1] 41.57 dBn 6.956230 GHz M1[1] 11.67 dBn 20 dBm 2.401690 GH 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm 40 dBm Libite -60 dBm Stop 25.0 GHz Start 30.0 MHz 32001 pts Measuring... 100 Mar 100 M

Date: 2.MAY.2020 06:58:06



Unless otherwise agreed 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 end sub aspme)(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.: HR/2020/3002303 Page: 59 of 81



Date: 2.MAY.2020 07:00:16

4.10.1.9 8DPSK_Highest Channel

Branch

Spectrum Ref Level 30.00 dBm Offset 5.40 dB 曼 RBW 100 kHz 35 dB SWT 250 ms 曼 VBW 300 kHz Att Mode Auto Sweep 91Pk Ma 41.08 dBn M2[1] 5.845100 GHz M1[1] 8.12 dBn 20 dBm 2.479710 GH 10 dBm-0 dBm -10 d8m-01 -11.880 dBm--20 dBm -30 dBm MO 40 dBm -60 dBm Stop 25.0 GHz Start 30.0 MHz 32001 pts Measuring...

Date: 2 MAY 2020 07:04:11



Unless otherwise agreed 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 end sub aspme)(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.: HR/2020/3002303 Page: 60 of 81

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.



Unless otherwise agreed 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 Client and this document does not excore the excore the transaction from exercising all their rights and obligations under the transaction documents. This document to encore 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,

SGS SGS-CS

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

Report No.: HR/2020/3002303 Page: 61 of 81

4.11 Radiated Spurious Emission

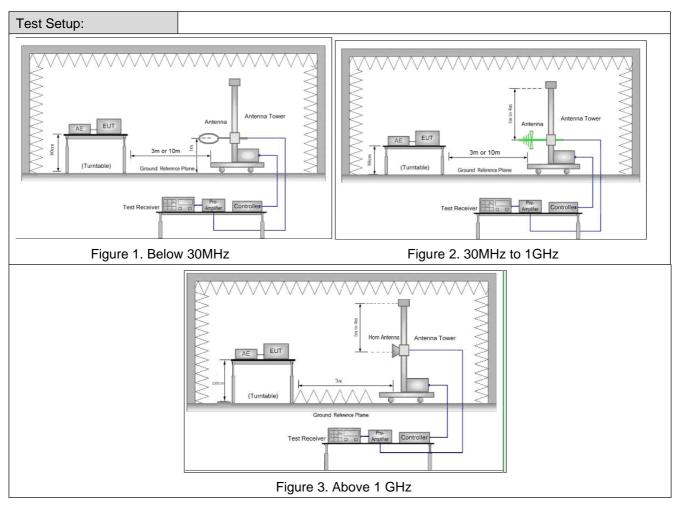
Test Requirement:	47 CFR Part 15C Sectior	15.209 and 15.205								
Test Method:	ANSI C63.10: 2013									
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)									
	Frequency	Detector	RBW	VBW	Remark					
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak					
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average					
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak					
	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					
	Above 1GHz	Peak	1MHz	3MHz	Peak					
		Peak	1MHz	10Hz	Average					
	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measuremen t 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.									



Unless otherwise agreed 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 on). Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,



Report No.: HR/2020/3002303 Page: 62 of 81





Unless otherwise agreed 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 excore a the 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 autenticity of testing inspection report & certificate, please contact us at telephone: (86-755)83071443,

SGS SGS-CS

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

Report No.: HR/2020/3002303 Page: 63 of 81

	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	e. Use the following spectrum analyzer settings:
	 Span shall wide enough to fully capture the emission being measured;
	(2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz ; VBW ≥ RBW; Sweep = auto;
	Detector function = peak; Trace = max hold for peak
	(3) For average measurement: use duty cycle correction factor method
Test Procedure:	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.
	 Test the EUT in the lowest channel (2402MHz), the middle channel (2441MHz), 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:	Non-hopping transmitting mode with all kind of modulation and all kind of data type



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document. To advised that information of meters reproduced a volgations under the transaction documents. This document to enote the approare of this document is advised that information and bulgations under the transaction documents. This document or appearance of this document is advised that 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 fulles textent 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_Docchack@ss.com

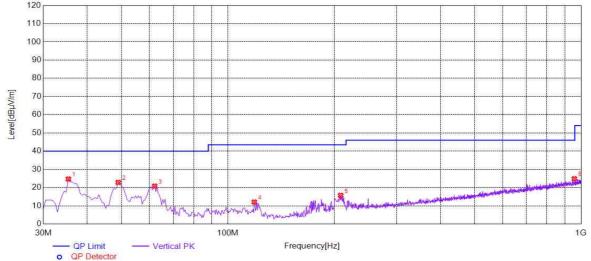


Report No.: HR/2020/3002303 Page: 64 of 81

	Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode 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

4.11.1 Radiated Emission below 1GHz

4.11.1.1 Charge + Transmitting, Vertical

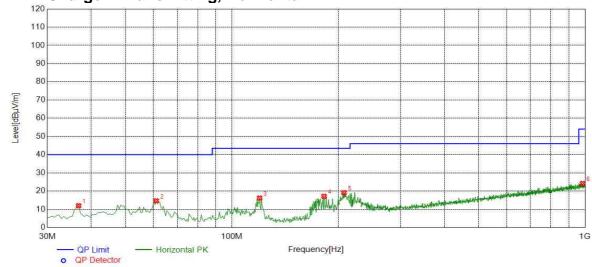


Suspe	Suspected List										
	Freq.	Level	Factor	Limit	Margin	Height	Angle	Delerity			
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity			
1	35.3377	24.70	-32.65	40.00	15.30	150	56	Vertical			
2	48.9245	22.83	-30.19	40.00	17.17	150	360	Vertical			
3	62.0260	20.81	-32.16	40.00	19.19	150	16	Vertical			
4	118.799	12.05	-33.07	43.50	31.45	150	360	Vertical			
5	208.569	15.73	-30.65	43.50	27.77	150	330	Vertical			
6	957.298	24.85	-14.38	46.00	21.15	150	67	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 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)83071443,

Report No.: HR/2020/3002303 Page: 65 of 81



4.11.1.2 Charge + Transmitting, Horizontal

Suspected List										
	Freq.	Level	Factor	Limit	Margin	Height	Angle	Deleritu		
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	36.7934	11.97	-32.19	40.00	28.03	150	261	Horizontal		
2	61.0555	14.64	-31.91	40.00	25.36	150	160	Horizontal		
3	119.769	16.19	-33.22	43.50	27.31	150	232	Horizontal		
4	182.366	17.11	-32.67	43.50	26.39	150	220	Horizontal		
5	207.598	19.09	-30.67	43.50	24.41	150	286	Horizontal		
6	983.501	24.17	-14.07	54.00	29.83	150	308	Horizontal		

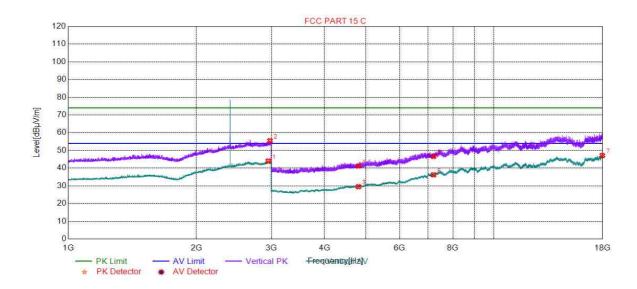


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic 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 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)83071443,

Report No.: HR/2020/3002303 Page: 66 of 81

4.11.2 Transmitter Emission above 1GHz 4.11.2.1 GFSK(DH5) _Lowest Channel _Vertical

S

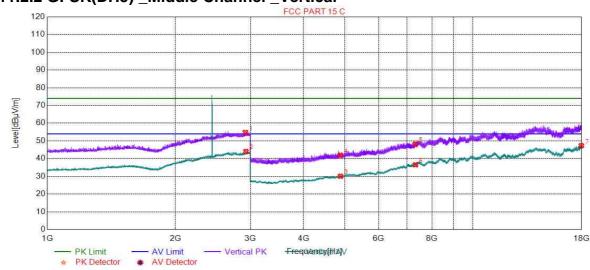


Suspe	Suspected List										
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Polarity			
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	rolanty			
1	2950.48	44.01	9.68	54.00	9.99	150	154	Vertical			
2	2976.99	55.45	9.56	74.00	18.55	150	181	Vertical			
3	4804.00	29.52	-18.30	54.00	24.48	150	123	Vertical			
4	4804.00	41.22	-18.30	74.00	32.78	150	260	Vertical			
5	7206.00	46.62	-10.09	74.00	27.38	150	169	Vertical			
6	7206.00	36.23	-10.09	54.00	17.77	150	18	Vertical			
7	17962.0	47.12	0.71	54.00	6.88	150	219	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 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)83071443,

Report No.: HR/2020/3002303 Page: 67 of 81



4.11.2.2 GFSK(DH5) _Middle Channel _Vertical

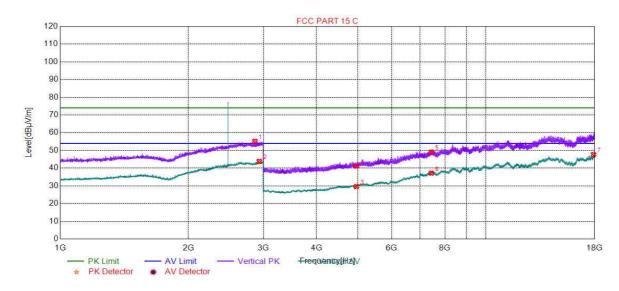
S(

Suspe	Suspected List										
NO	Freq.	Level	Factor	Limit	Margin	Height	Angle	Delevite			
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity			
1	2918.47	54.77	9.34	74.00	19.23	150	209	Vertical			
2	2928.98	44.08	9.45	54.00	9.92	150	140	Vertical			
3	4882.00	30.08	-17.96	54.00	23.92	150	97	Vertical			
4	4882.00	41.98	-17.96	74.00	32.02	150	287	Vertical			
5	7323.00	48.24	-9.71	74.00	25.76	150	219	Vertical			
6	7323.00	36.51	-9.71	54.00	17.49	150	360	Vertical			
7	17963.1	47.35	0.71	54.00	6.65	150	119	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 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)83071443,

Report No.: HR/2020/3002303 Page: 68 of 81



4.11.2.3 GFSK(DH5) _Highest Channel _Vertical

Suspe	Suspected List										
	Freq.	Level	Factor	Limit	Margin	Height	Angle	Delority			
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity			
1	2864.46	55.19	9.21	74.00	18.81	150	18	Vertical			
2	2933.48	43.83	9.50	54.00	10.17	150	18	Vertical			
3	496127.	29.64	-17.47	54.00	24.36	150	342	Vertical			
4	496127.	41.14	-17.47	74.00	32.86	150	150	Vertical			
5	744127.	49.04	-9.35	74.00	24.96	150	220	Vertical			
6	744127.	37.18	-9.35	54.00	16.82	150	18	Vertical			
7	17885.0	47.67	0.49	54.00	6.33	150	320	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 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)83071443,

Report No.: HR/2020/3002303 Page: 69 of 81



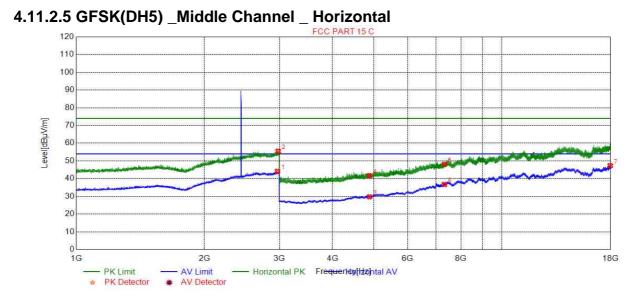
4.11.2.4 GFSK(DH5) _Lowest Channel _Horizontal

Suspe	Suspected List										
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Delerity			
INU.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity			
1	2945.98	55.04	9.64	74.00	18.96	150	55	Horizontal			
2	2966.99	43.94	9.60	54.00	10.06	150	0	Horizontal			
3	4804.00	29.71	-18.30	54.00	24.29	150	40	Horizontal			
4	4804.00	41.72	-18.30	74.00	32.28	150	96	Horizontal			
5	7206.00	46.15	-10.09	74.00	27.85	150	219	Horizontal			
6	7206.00	36.05	-10.09	54.00	17.95	150	269	Horizontal			
7	17986.7	47.16	0.72	54.00	6.84	150	319	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 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)83071443,

Report No.: HR/2020/3002303 Page: 70 of 81



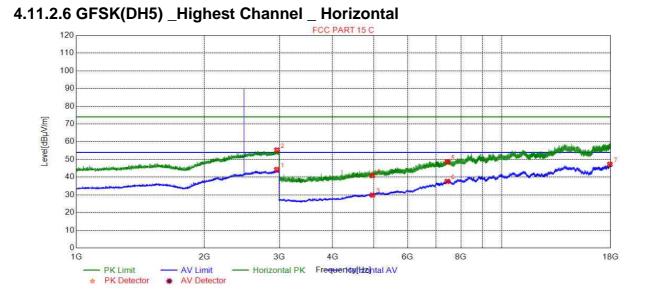
Suspe	Suspected List									
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Polarity		
110.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	rolanty		
1	2968.49	44.14	9.59	54.00	9.86	150	301	Horizontal		
2	2979.49	55.53	9.54	74.00	18.47	150	274	Horizontal		
3	4882.00	29.73	-17.96	54.00	24.27	150	150	Horizontal		
4	4882.00	41.67	-17.96	74.00	32.33	150	69	Horizontal		
5	7323.00	48.16	-9.71	74.00	25.84	150	360	Horizontal		
6	7323.00	36.71	-9.71	54.00	17.29	150	119	Horizontal		
7	17952.6	47.32	0.71	54.00	6.68	150	119	Horizontal		



S(

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-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) 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)83071443,

Report No.: HR/2020/3002303 Page: 71 of 81



Suspe	Suspected List									
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Polarity		
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Folanty		
1	2959.48	44.29	9.64	54.00	9.71	150	150	Horizontal		
2	2961.49	55.32	9.63	74.00	18.68	150	288	Horizontal		
3	496127.	29.86	-17.47	54.00	24.14	150	61	Horizontal		
4	496127.	40.85	-17.47	74.00	33.15	150	281	Horizontal		
5	744127.	48.54	-9.35	74.00	25.46	150	280	Horizontal		
6	744127.	37.62	-9.35	54.00	16.38	150	118	Horizontal		
7	17915.2	47.24	0.69	54.00	6.76	150	280	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 and 18GHz to 25GHz 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.



	Unless otherwise agreed in writing, this document is issued by the C overleaf, available on request or accessible at <u>http://www.sgs.com/en/Te</u> subject to Terms and Conditions for Electronic Documents at http://ww	rms-and-Conditions.aspx and, for e	electronic format documents,
	Attention is drawn to the limitation of liability, indemnification and juris advised that information contained hereon reflects the Company's findi Client's instructions, if any. The Company's sole responsibility is to it	ngs at the time of its intervention	only and within the limits of
	transaction from exercising all their rights and obligations under the t except in full, without prior written approval of the Company. Any una appearance of this document is unlawful and offenders may be prosecul results shown in this test report refer only to the sample(s) tested and suc Attention: To check the authenticity of testing /inspection report & c	ansaction documents. This docu uthorized alteration, forgery or fa ed to the fullest extent of the law. n sample(s) are retained for 30 day	nent cannot be reproduced Isification of the content or Unless otherwise stated the s only.
Ltd.	or email: CN.Doccheck@sgs.com [No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057	t (86-755) 26012053 f (86-755) 2671	10594 www.sgsgroup.com.cn
ry.	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) 2671	10594 sgs.china@sgs.com

Branch

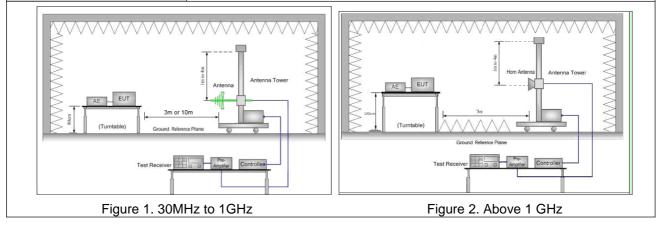
Report No.: HR/2020/3002303 Page: 72 of 81

4.12 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Sec	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10: 2013	ANSI C63.10: 2013							
Test Site:	Measurement Distanc	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						
	Above 10Uz	54.0	Average Value						
	Above 1GHz	74.0	Peak Value						
Test Setup		·	·						

Test Setup:

S





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-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 Client and this document does not excore the excore the transaction from exercising all their rights and obligations under the transaction documents. This document to encore 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) test meretained for 30 days only. Attention: To check the authenticity of testing (inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,



Branch

Report No.: HR/2020/3002303 Page: 73 of 81

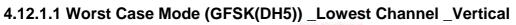
Test Procedure:	 a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. 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 i. The radiation measurements are performed in X, Y, Z axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode, Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

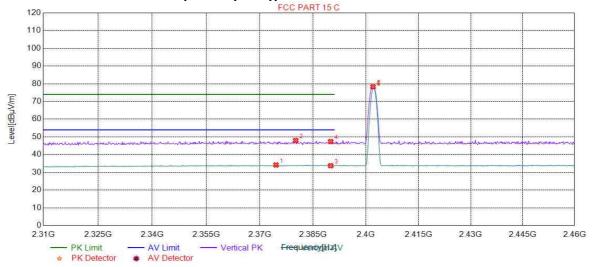


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic 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 content cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification on 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,

Report No.: HR/2020/3002303 Page: 74 of 81





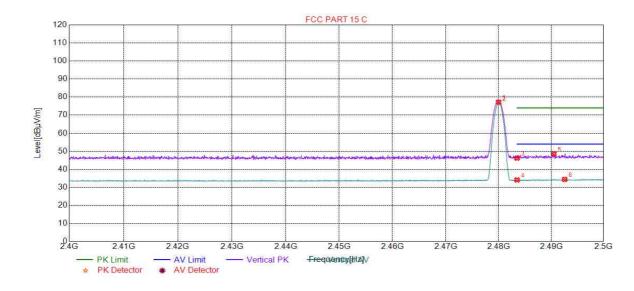


Suspe	Suspected List									
NO	Freq.	Level	Factor	Limit	Margin	Height	Angle	Delevitu		
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	2374.56	34.17	7.79	54.00	19.83	150	130	Vertical		
2	2380.12	47.98	7.78	74.00	26.02	150	54	Vertical		
3	2390.00	33.76	7.77	54.00	20.24	150	18	Vertical		
4	2390.00	47.39	7.77	74.00	26.61	150	339	Vertical		
5	2402.00	78.30	7.77	127.96	-	150	151	Vertical		
6	2402.00	77.71	7.77	127.96	-	150	146	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 excore 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 refor only to the sample(s) test reation, forger volume to 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)83071443,

Report No.: HR/2020/3002303 Page: 75 of 81



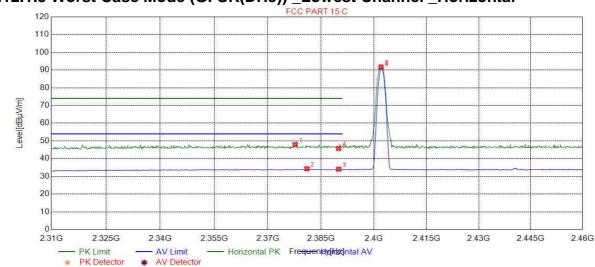
4.12.1.2 Worst Case Mode (GFSK(DH5)) _Highest Channel _Vertical

Suspected List									
NO	Freq.	Level	Factor	Limit	Margin	Height	Angle	Dalaritu	
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	248127.	77.19	8.01	127.96	-	150	24	Vertical	
2	248127.	76.70	8.01	127.96	-	150	24	Vertical	
3	2483.50	46.18	8.01	74.00	27.82	150	271	Vertical	
4	2483.50	34.09	8.01	54.00	19.91	150	227	Vertical	
5	2490.49	48.57	8.02	74.00	25.43	150	112	Vertical	
6	2492.54	34.39	8.02	54.00	19.61	150	14	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 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)83071443,

> Report No.: HR/2020/3002303 Page: 76 of 81



4.12.1.3 Worst Case Mode (GFSK(DH5)) _Lowest Channel _Horizontal

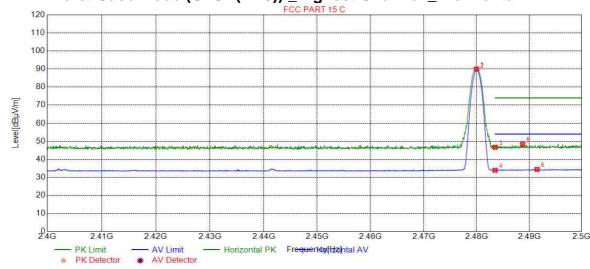
Suspe	Suspected List									
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Polarity		
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Folanty		
1	2377.71	47.94	7.78	74.00	26.06	150	170	Horizontal		
2	2381.02	34.27	7.78	54.00	19.73	150	170	Horizontal		
3	2390.00	34.03	7.77	54.00	19.97	150	39	Horizontal		
4	2390.00	45.75	7.77	74.00	28.25	150	274	Horizontal		
5	2402.00	91.76	7.77	127.96	-	150	294	Horizontal		
6	2402.00	91.20	7.77	127.96	-	150	294	Horizontal		



S

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-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 end sub aspme)(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.: HR/2020/3002303 Page: 77 of 81



4.12.1.4 Worst Case Mode (GFSK(DH5)) _Highest Channel _ Horizontal

Suspe	Suspected List									
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Polarity		
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Folanty		
1	2480.00	89.99	8.01	127.96	-	150	302	Horizontal		
2	2480.00	89.55	8.01	127.96	-	150	302	Horizontal		
3	2483.50	46.63	8.01	74.00	27.37	150	87	Horizontal		
4	2483.50	33.89	8.01	54.00	20.11	150	319	Horizontal		
5	2488.74	48.28	8.02	74.00	25.72	150	204	Horizontal		
6	2491.49	34.39	8.02	54.00	19.61	150	346	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 excore the excore at runsaction 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) is re 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.: HR/2020/3002303 Page: 78 of 81

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	Padiated Spurious omission test	±4.5dB (30MHz-1GHz)		
4	Radiated Spurious 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%		



S

Branch

Unless otherwise agreed 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 on). Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

Report No.: HR/2020/3002303 Page: 79 of 81

6 Equipment List

Branch

SG

Conducted Emission									
Test Equipment	Manufacturer	Model No.	Inventory	Cal. date (yyyy-mm-	Cal.Duedate				
			No.	dd)	dd)				
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12				
LISN	Rohde & Schwarz	ENV216	SEM007-01	N/A	N/A				
LISN	ETS-LINDGREN	3816/2	SEM007-02	2019-07-11	2020-07-10				
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	2019-09-24	2020-09-23				
Coaxial Cable	SGS	N/A	SEM024-01	2020-04-01	2021-03-31				
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T2-02	EMC0122	2020-03-24	2021-03-23				
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019-06-13	2022-06-12				

RF conducted test									
			Inventory	Cal. date	Cal.Duedate				
Test Equipment	Manufacturer	Model No.	No.	(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	2021/1/2				
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				



Unless otherwise agreed 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 on). Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

Report No.: HR/2020/3002303 Page: 80 of 81

RE in Chamber									
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-	Cal.Due date (yyyy-mm-				
				dd)	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	2020/3/22	2021/3/21				
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 Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2019/9/3	2020/9/2				
Horn Antenna (15- 40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16				
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2020/3/22	2021/3/21				
Band filter	N/A	N/A	SEM023-01	N/A	N/A				
	R	E in Chamber							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date				
				(yyyy-mm- dd)	(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-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				
Pre-amplifier (0.1- 1.3GHz)	Agilent Technologies	8447D	SEM005- 01	2020/3/22	2021/3/21				



SG

Branch

Unless otherwise agreed 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 cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification on 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,

Report No.: HR/2020/3002303 Page: 81 of 81

RE in Chamber								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm- dd)	Cal. Due date (yyyy- mm-dd)			
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001- 03	2018/3/31	2021/3/30			
EMI Test Receiver (9k- 7GHz)	Rohde & Schwarz	ESR	SEM004- 03	2020/3/22	2021/3/21			
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003- 18	2020/3/22	2022/3/21			
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005- 03	2020/3/22	2021/3/21			
Loop Antenna (9kHz- 30MHz)	ETS-Lindgren	6502	SEM003- 08	2017/8/22	2020/8/21			
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM029- 01	2019/6/12	2020/6/11			

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for HR/2020/30023.

The End



SG

Branch

Unless otherwise agreed 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 excenter the 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) test restations, progress only. Attention: To check the authenticity of testing (inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,