

Report No.: SEWM2312000527RG02

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TEST REPORT

Application No.: SEWM2312000527RG

HONG KONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED Applicant: **Address of Applicant:** Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road,

Kowloon, Hong Kong

HONG KONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED Manufacturer:

Address of Manufacturer: Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road,

Kowloon, Hong Kong

EUT Description: Revolutionary Intelligent KeyChain

Model No.: GLMT23A01 Trade Mark: GlocalMe

FCC ID: 2AC88-GLMT23A01

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2023/12/22

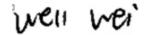
Date of Test: 2024/01/04 to 2024/01/08

Date of Issue: 2024/01/09

PASS * Test Result:

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

Authorized Signature:



Wireless Laboratory Manager



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1 Version

Revision Record						
Version Chapter Date Modifier Remark						
01		2024/01/09		Original		

Prepared By	(King-p Li) / Test Engineer		
Checked By	Stone JM (Stone Gu) / Reviewer		



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	Reference report XEWM2305000213RG02
AC Power Line Conducted Emission 15.207		ANSI C63.10 (2013) Section 6.2	Clause 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013) Section 11.9.1.3	Clause 4.4	
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013) Section 6.9.2/6.9.3	Clause 4.5	
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.2	Clause 4.6	
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.3	Clause 4.7	Reference report XEWM2305000213RG02
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.4	Clause 4.8	
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.2	Clause 4.9	
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.1	Clause 4.10	
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013) Section 6.4 / 6.5 / 6.6	Clause 4.11	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013) Section 6.10.5	Clause 4.12	PASS



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Remark for report SEWM2312000527RG02 issue on 2024/01/09:

This test report (Report No.: SEWM2312000527RG02 issue on 2024/01/09) is based on the original test report (Report No.: XEWM2305000213RG02 issued by SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. on 2023/06/20).

Review this report and original report, this report just changing the parts according to the declaration letter

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report AC Power Line Conducted Emission were tested, Radiated Spurious emissions and Restricted bands around fundamental frequency were performed based on the worst case of the original report with report number XEWM2305000213RG02 issued by SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. on 2023/06/20 and other test data please refer to the test report with report number XEWM2305000213RG02 issued by SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. on 2023/06/20.



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3 General Information

3.1 Details of Client

Applicant:	HONG KONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED	
Address of Applicant:	Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, Hong Kong	
Manufacturer:	HONG KONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED	
Address of Manufacturer:	Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, Hong Kong	

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.		
Address: South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park Area, China (Jiangsu) Pilot Free Trade Zone			
Post code:	215000		
Test engineer:	King-p Li		

3.3 Test Facility

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

• A2LA (Certificate No. 6336.01)

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

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

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Revolutionary Intelligent KeyChain		
•			
Model No.:	GLMT23A01		
Trade Mark:	GlocalMe		
Hardware Version:	P020_V3		
Software Version:	T10_HTSV1.0.001.002.230601		
IMEI:	353682680170493		
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 V4.2		
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, π/4DQPSK, 8DPSK		
Number of Channel: 79			
Hopping Channel Type:	Adaptive Frequency Hopping systems		
Antenna Type:	☐ External, ⊠ Integrated		
	1.22dBi		
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
Remark:			
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	Operation Frequency of each 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
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(CH0)	2402MHz	
The Middle channel(CH39)	2441MHz	
The Highest channel(CH78)	2480MHz	



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3.5 Test Environment

Environment Parameter	101.0kPa Selected Values During Tests		
Relative Humidity	44-46 % RH Ambient		
Value	Temperature(°C)	Voltage(V)	
NTNV	22~23	3.85	

Remark:

NV: Normal Voltage NT: Normal Temperature

3.6 Description of Support Units

Equipment Manufacturer		Model No.	Inventory No.	
Adapter Huawei		HW-050200C02	SUWI-03-33-06	



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4 Test results and Measurement Data

4.1 Antenna Requirement

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

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

15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is Integrated Antenna and no consideration of replacement.

The best case gain of the antenna is1.22dBi.*

*Note:

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

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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 Pseudo randomly 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.

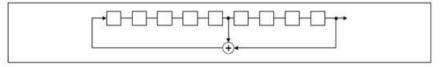
Compliance for section 15.247(a)(1):

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

- > Number of shift register stages: 9
- > Length of pseudo-random sequence: 29 -1 = 511 bits
- > Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

20 62 46 77	7 64	8 73	16 75 1
	1 1		111
	111		111

Each frequency used equally on the average by each transmitter.



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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):

Compliance for section 15.247(h):

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.

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.



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4.3 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2013 Section 6.2					
Test Frequency Range:	150kHz to 30MHz					
Receiver Setup:	RBW = 9kHz, VBW = 30kHz					
Limit:	Fragues average (MIII-)	Limit (dl	BuV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the loga	arithm of the frequency.				
Test Procedure:	room. 2) The EUT was connect Impedance Stabilizati impedance. The power connected to a secon plane in the same was multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plane placed on the horizon of the EUT shall be 0.4 revertical ground reference plane. The unit under test and be mounted on top of the the closest points of the and associated equip 5) In order to find the mand all of the interface.	ed to AC power source throused to AC power source throusen Network) which provides a cer cables of all other units of the LISN 2, which was bonded year the LISN 1 for the unit be strip was used to connect must the rating of the LISN was not applicated upon a non-metallic the. And for floor-standing arrantal ground reference plane. The ded with a vertical ground reference plane was bonded to the LISN 1 was placed 0.8 m from the LISN 1 was placed 0.8 m from the LISN 1 and the EUT. All of ment was at least 0.8 m from the LISN 1 and the EUT. All of ment was at least 0.8 m from the cables must be changed and doucted measurement.	gh a LISN 1 (Line a 50Ω/50μH + 5Ω linear the EUT were to the ground reference eing measured. A ultiple power cables to a at exceeded. Table 0.8m above the angement, the EUT was ence plane. The rear of ference plane. The horizontal ground m the boundary of the plane for LISNs s distance was between ther units of the EUT the LISN 2.			



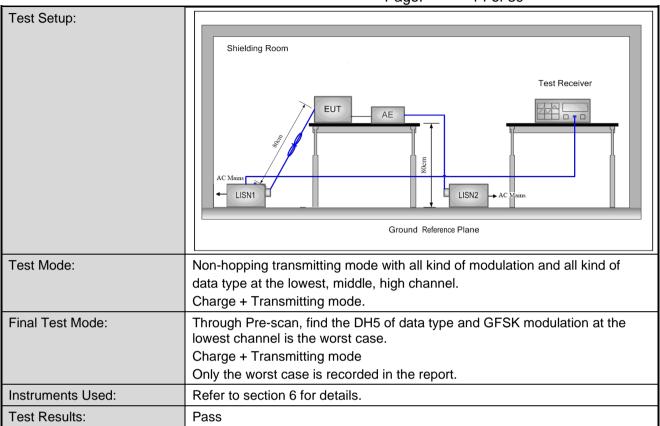
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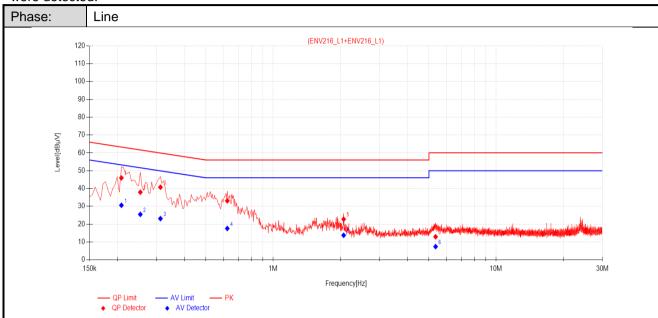
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Measurement Data

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.



Data I	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2085	11.81	34.16	45.97	63.26	17.29	18.80	30.61	53.26	22.65	PASS
2	0.2535	11.69	26.26	37.95	61.64	23.69	13.83	25.52	51.64	26.12	PASS
3	0.3120	11.57	29.18	40.75	59.92	19.17	11.56	23.13	49.92	26.79	PASS
4	0.6225	11.48	21.62	33.10	56.00	22.90	6.12	17.60	46.00	28.40	PASS
5	2.0715	11.55	11.27	22.82	56.00	33.18	2.24	13.79	46.00	32.21	PASS
6	5.3565	11.63	1.32	12.95	60.00	47.05	-4.20	7.43	50.00	42.57	PASS

Remark

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dBµV] Value[dBµV]



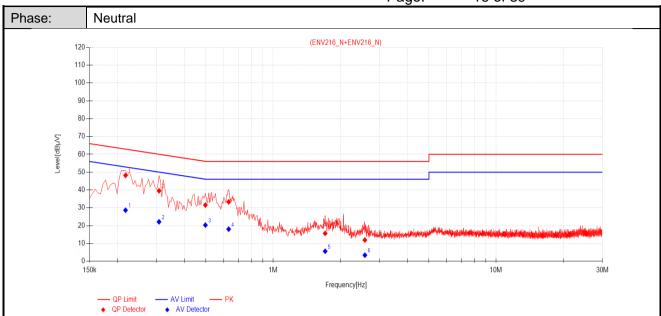
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Data	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2175	11.78	36.38	48.16	62.91	14.75	16.88	28.66	52.91	24.25	PASS
2	0.3075	11.57	27.98	39.55	60.04	20.49	10.57	22.14	50.04	27.90	PASS
3	0.4965	11.50	20.05	31.55	56.06	24.51	8.81	20.31	46.06	25.75	PASS
4	0.6315	11.48	21.82	33.30	56.00	22.70	6.57	18.05	46.00	27.95	PASS
5	1.7115	11.53	4.15	15.68	56.00	40.32	-5.87	5.66	46.00	40.34	PASS
6	2.5800	11.56	0.38	11.94	56.00	44.06	-8.11	3.45	46.00	42.55	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value = Reading[dB μ V] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



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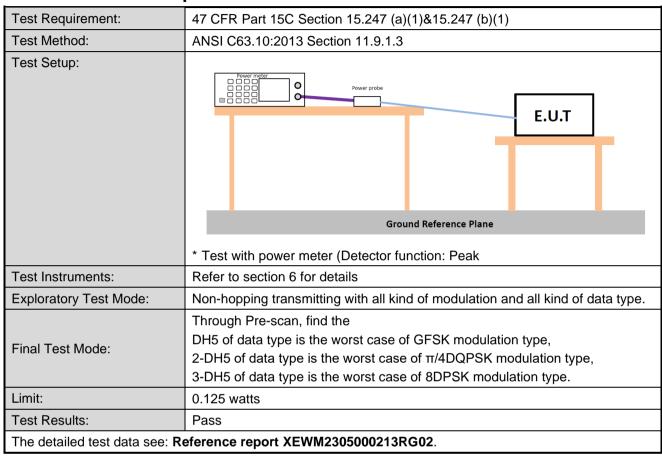
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4.4 Conducted Output Power





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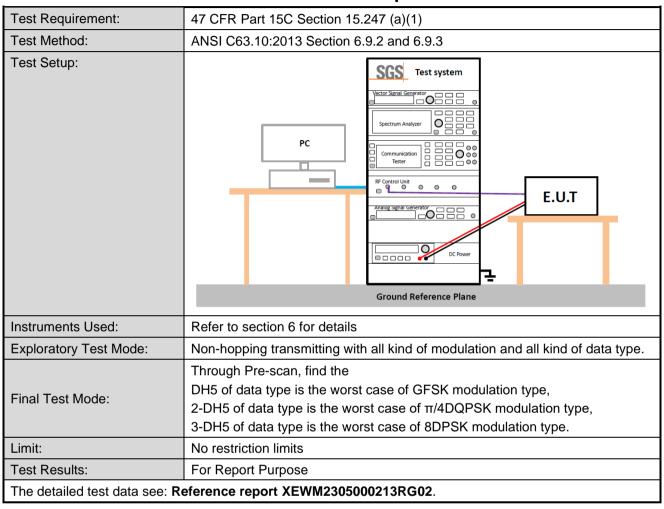
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4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth





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4.6 Carrier Frequencies Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)					
Test Method:	ANSI C63.10:2013 Section 7.8.2					
Test Setup:	PC Spectrum Analyzer O O O O O O O O O					
Test Instruments:	Refer to section 6 for details					
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.					
Final Test Mode:	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.					
Limit:	2/3 of the 20dB bandwidth					
	Remark: the transmission power is less than 0.125W.					
Test Results:	Pass					
The detailed test data see: Re	eference report XEWM2305000213RG02.					



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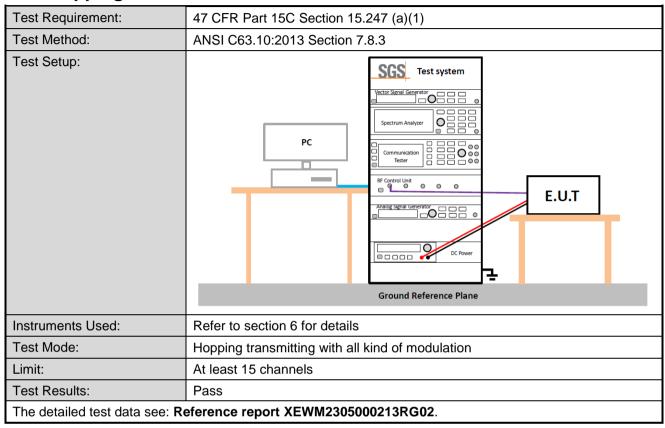


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4.7 Hopping Channel Number





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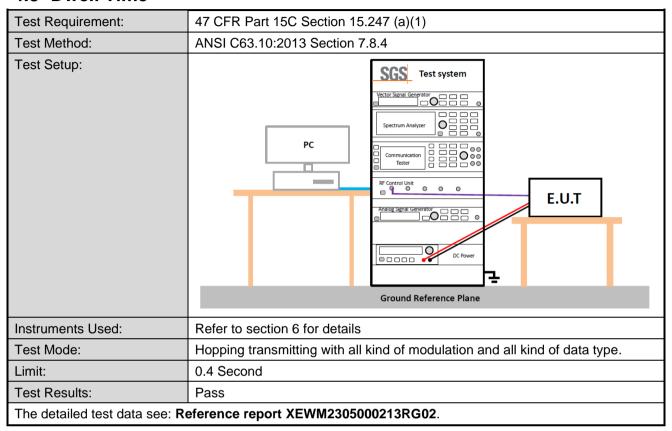


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4.8 Dwell Time





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4.9 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)						
Test Method:	ANSI C63.10:2013 Section 7.8.7.2						
Test Setup:	PC Spectrum Analyzer S						
Instruments Used:	Refer to section 6 for details						
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type.						
Final Test Mode:	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.						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.						
Test Results:	Pass						
The detailed test data see: R	teference report XEWM2305000213RG02.						



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4.10 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 Section 7.8.7.1					
Test Setup:	PC Spectrum Analyzer Communication RF Control Unit Communication RF Control Unit Communication Communication Communication Communication Communication Communication Communication RF Control Unit Communication Communi					
Instruments Used:	Refer to section 6 for details					
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.					
Final Test Mode:	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.					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test Results:	Pass					
The detailed test data see: Re	eference report XEWM2305000213RG02.					



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4.11 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 :2013 Section 6.4 / 6.5 / 6.6								
Test Site:	Measurement Distance: 3	m (Semi-Anechoic	: Chamber)						
Test Frequency:	9kHz ~ 25GHz	·	-						
Limit:	Frequency	Frequency Field strength Limit Remark (microvolt/meter) (dBuV/m) Remark distance (m)							
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30				
	1.705MHz-30MHz	30	-	-	30				
	30MHz-88MHz	100	40.0	Quasi-peak	3				
	88MHz-216MHz	150	43.5	Quasi-peak	3				
	216MHz-960MHz	200	46.0	Quasi-peak	3				
	960MHz-1GHz	500	54.0	Quasi-peak	3				
	Above 1GHz	Above 1GHz 500 54.0 Average 3							
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.								

Test Setup:

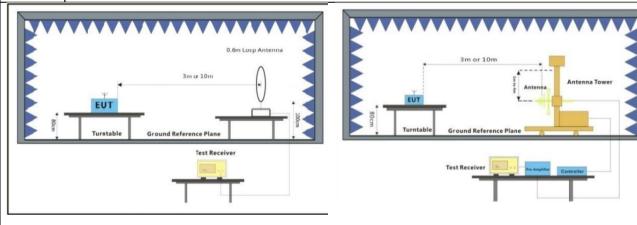


Figure 1. Below 30MHz





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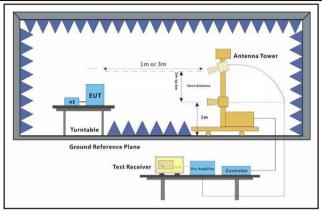


Figure 3. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.
- The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.
- The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
- At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.

Test Configuration:

Measurements below 30MHz

- RBW = 10 kHz
- VBW = 30 kHz
- Detector = Peak & Average & Quasi-peak
- Trace mode = max hold

Measurements Below 1000MHz



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1 age. 20 01 00
• RBW = 120 kHz
• VBW = 300 kHz
Detector = Quasi-peak
Trace mode = max hold
Peak Measurements Above 1000 MHz
• RBW = 1 MHz
• VBW ≥ 3 MHz
Detector = Peak
Sweep time = auto
Trace mode = max hold
Average Measurements Above 1000MHz
Use duty cycle correction factor method per 15.35(c).
Duty cycle = On time / 100 milliseconds
On time = $N_1*L_1 + N_2*L_2+N_{N-1}*L_{N-1} + N_N*L_N$
Where N_1 is number of type 1 pulese, L_1 is length of type 1 pulses, etc.
Average Value = Peak Value +20*log(Duty cycle).
Non-hopping transmitting mode with all kind of modulation and all kind of
data type
Charge + Transmitting 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.
Refer to section 6 for details
Pass
a see: Appendix



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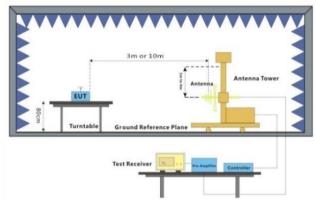
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4.12Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 1	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:		ANSI C63.10: 2013 Section 6.10.5						
Test Site:		Measurement Distance: 3m (Semi-Anechoic Chamber)						
Limit:	Frequency							
	30MHz-88MHz	40.0	Quasi-peak					
	88MHz-216MHz	43.5	Quasi-peak					
	216MHz-960MHz	46.0	Quasi-peak					
	960MHz-1GHz	54.0	Quasi-peak					
	Above 4011-	54.0	Average Value					
	Above 1GHz	74.0	Peak Value					

Test Setup:



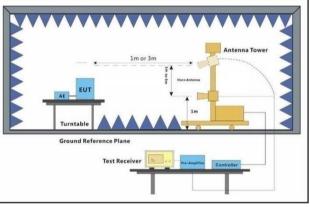


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Place a marker at the end of the restricted band closest to the transmit



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	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.
	 The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
	j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz
	• RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Quasi-peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	Use duty cycle correction factor method per 15.35(c).
	Duty cycle = On time / 100 milliseconds
	On time = $N_1*L_1 + N_2*L_2+N_{N-1}*L_{N-1} + N_N*L_N$
	Where N_1 is number of type 1 pulese, L_1 is length of type 1 pulses, etc.
	Average Value = Peak Value +20*log(Duty cycle).
Frankrich Toek Moder	Non-hopping transmitting mode with all kind of modulation and all kind of
Exploratory Test Mode:	data type
	Charge + Transmitting mode.
Final Tast Made	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode,
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	e: Appendix



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

	y (· /		
No.	Item	Measurement Uncertainty		
1	Conduction Emission	± 2.90dB (150kHz to 30MHz)		
		± 3.13dB (9k -30MHz)		
2	Dodistad Emission	± 4.8dB (30M -1GHz)		
2	Radiated Emission	± 4.8dB (1GHz to 18GHz)		
		± 4.80dB (Above 18GHz)		

Remark.

The Ulab (lab Uncertainty) is less than Ucispr/ETSI Uncertainty), so the test results

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

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



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6 Equipment List

o =qanpment =.et								
Conduction Test Equipment								
Equipment Manufacturer Model No. Inventory No. Cal Date (yyyy/mm/dd)								
Test receiver	ROHDE &SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06			
Artificial network	ROHDE &SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07			
Artificial network	ROHDE &SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07			
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR			

Remark: NCR=No Calibration Requirement.



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RSE Test System									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)				
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07				
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06				
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10				
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2023/11/21	2024/11/20				
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07				
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2023/05/13	2024/05/12				
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2023/05/13	2024/05/12				
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11				
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12				
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05				
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05				
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2023/02/08	2024/02/07				
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR				

Remark: NCR=No Calibration Requirement.



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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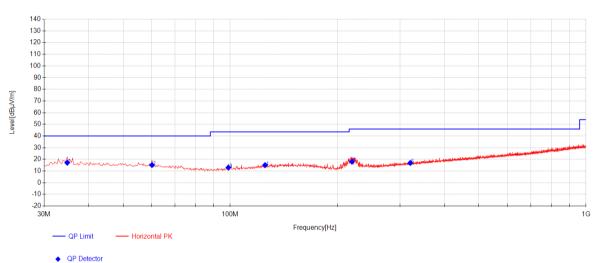
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Test on the worst case:

Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: GFSK_Channel 00



Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity			
1	34.85	32.65	-34.00	18.48	17.13	40.00	22.87	Horizontal			
2	60.3125	30.24	-33.86	18.75	15.13	40.00	24.87	Horizontal			
3	98.87	31.05	-33.49	15.41	12.97	43.50	30.53	Horizontal			
4	125.3025	30.68	-33.31	17.64	15.01	43.50	28.49	Horizontal			
5	219.8775	34.28	-32.58	16.29	18.00	46.00	28.00	Horizontal			
6	320.7575	29.86	-32.04	19.08	16.90	46.00	29.10	Horizontal			



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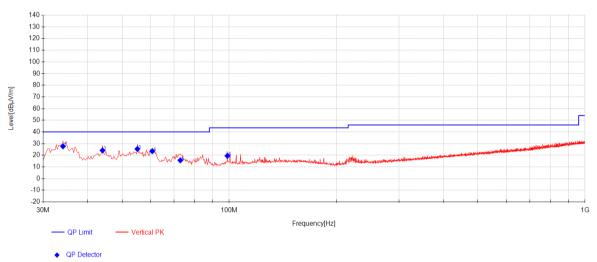
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity				
1	34.1225	43.28	-34.00	18.39	27.67	40.00	12.33	Vertical				
2	44.065	38.68	-33.99	19.50	24.19	40.00	15.81	Vertical				
3	55.22	40.35	-33.92	18.99	25.42	40.00	14.58	Vertical				
4	60.7975	38.68	-33.85	18.66	23.49	40.00	16.51	Vertical				
5	72.9225	32.85	-33.72	16.54	15.68	40.00	24.32	Vertical				
6	98.87	37.63	-33.49	15.41	19.55	43.50	23.95	Vertical				

Remark

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

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

AF = Antenna Factor(dB/m)

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

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

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



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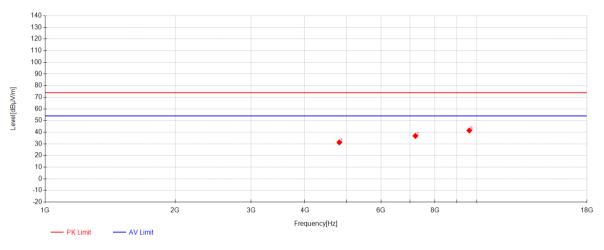
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Transmitter emission Above 1GHz

GFSK_Channel 00



Data	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	4804	40.01	32.77	-41.49	31.29	74.00	42.71	Horizontal		
2	7206	38.62	36.25	-38.02	36.85	74.00	37.15	Horizontal		
3	9608	37.18	37.78	-33.45	41.51	74.00	32.49	Horizontal		



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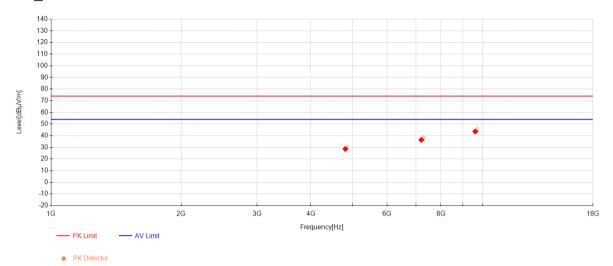


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GFSK_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	4804	37.33	32.77	-41.49	28.61	74.00	45.39	Vertical		
2	7206	38.21	36.25	-38.02	36.44	74.00	37.56	Vertical		
3	9608	39.32	37.78	-33.45	43.65	74.00	30.35	Vertical		

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

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



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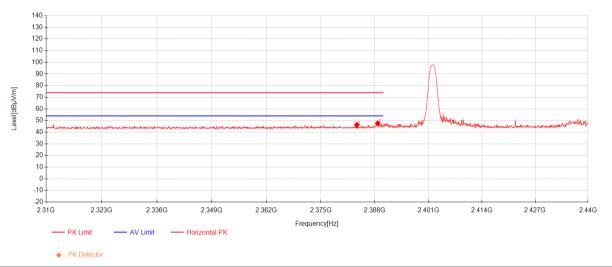
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Restricted bands around fundamental frequency

GFSK Channel 00



Data	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2383.6912	41.31	27.14	-22.13	46.32	74.00	27.68	Horizontal		
2	2388.7196	42.57	27.16	-22.11	47.61	74.00	26.39	Horizontal		



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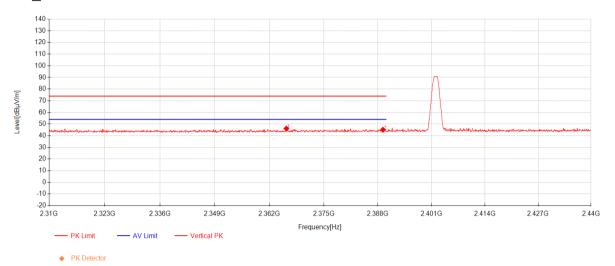


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GFSK_Channel 00



Data	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2366.0487	41.19	27.11	-22.19	46.11	74.00	27.89	Vertical		
2	2389.2397	40.06	27.16	-22.11	45.10	74.00	28.90	Vertical		

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

---End of Report---



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