

Report No.: SEWM2306000197RG01

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TEST REPORT

Application No.: SEWM2306000197RG

Applicant: Quectel Wireless Solutions Co., Ltd.

Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,

Minhang District, Shanghai, China 200233

Manufacturer: Quectel Wireless Solutions Co., Ltd.

Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,

Minhang District, Shanghai, China 200233

EUT Description: Wi-Fi & Bluetooth Module

Model No.: FCS950R
Trade Mark: Quectel

FCC ID: XMR2023FCS950R

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2023/06/13

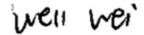
Date of Test: 2023/06/13 to 2023/07/12

Date of Issue: 2023/07/13

Test Result : PASS *

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

Authorized Signature:



Well Wei Wireless Laboratory Manager



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Version

Revision Record						
Version	Version Chapter Date Modifier Remark					
01		2023/07/13		Original		

Prepared By	(Ives Cheng) / Test Engineer
Checked By	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	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10-2020 Section 6.2	Clause 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10-2020 Section 11.9.1.2	Clause 4.4	PASS
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10-2020 Section 6.9.2/6.9.3	Clause 4.5	For Report Purpose
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10-2020 Section 7.8.2	Clause 4.6	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10-2020 Section 7.8.3	Clause 4.7	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10-2020 Section 7.8.4	Clause 4.8	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 7.8.7.2	Clause 4.9	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 7.8.7.1	Clause 4.10	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10-2020 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 C63.10-2020 Section 6.10.5	Clause 4.12	PASS



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3 General Information

3.1 Details of Client

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

3.2 Test Location

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

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

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Test Firm Registration Number: 717327



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3.4 General Description of EUT

suitability, reliability or/and integrity of the information.

EUT Description:	Wi-Fi & Bluetooth Module
Model No.:	FCS950R
Trade Mark:	Quectel
Hardware Version:	R1.0
Software Version:	NA
SN:	E1N23DT07000059
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:	Dipole Antenna
	0.73dBi (Ant0)
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.
RF Cable:	1.0dB
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	101.0 kPa Selected Values During Tests			
Relative Humidity	44-46 % RH Ambient			
Value	Temperature(°C)	Voltage(V)		
NTNV	22~23	3.3		
Remark:				

NV: Normal Voltage NT: Normal Temperature

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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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 Dipole Antenna on the main PCB and no consideration of replacement.

The best case gain of the antenna is 0.73dBi (Ant0). *

*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.

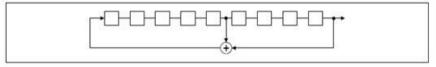
Compliance for section 15.247(a)(1):

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		8 1 1 1
	1 1	1 1 1	: 1 1 1

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):

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.



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4.3 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10-2020 Section 6.2				
Test Frequency Range:	150kHz to 30MHz				
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz			
Limit:	Francisco (MIII-)	Limit (d	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 log	arithm of the frequency.			
Test Procedure:	 Decreases with the logarithm of the frequency. The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI 				



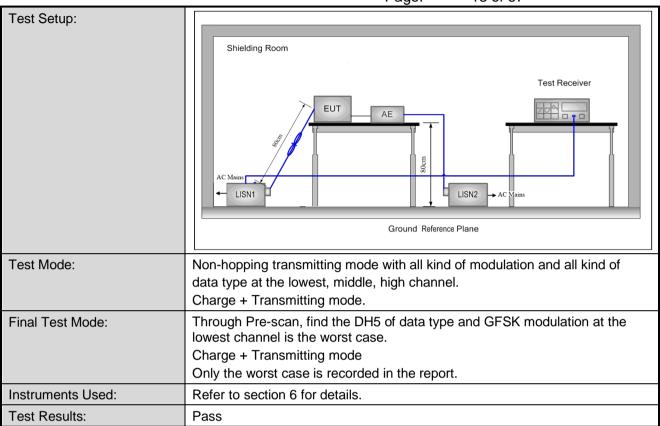
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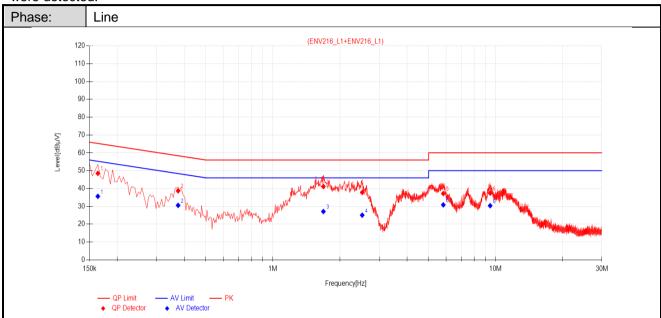
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Measurement Data

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	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	0.1635	10.69	37.83	48.52	65.28	16.76	24.95	35.64	55.28	19.64	PASS
2	0.3750	10.50	28.21	38.71	58.39	19.68	20.06	30.56	48.39	17.83	PASS
3	1.6845	10.74	30.38	41.12	56.00	14.88	16.37	27.11	46.00	18.89	PASS
4	2.5170	10.66	27.16	37.82	56.00	18.18	14.41	25.07	46.00	20.93	PASS
5	5.8200	10.67	26.54	37.21	60.00	22.79	20.18	30.85	50.00	19.15	PASS
6	9.4515	10.65	26.76	37.41	60.00	22.59	19.72	30.37	50.00	19.63	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[dBµV] Value[dBµV]



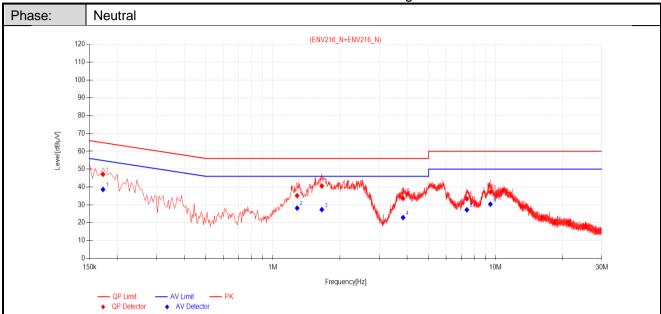
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Data	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1725	10.71	36.41	47.12	64.84	17.72	27.93	38.64	54.84	16.20	PASS
2	1.2840	10.78	24.35	35.13	56.00	20.87	17.36	28.14	46.00	17.86	PASS
3	1.6575	10.77	29.81	40.58	56.00	15.42	16.56	27.33	46.00	18.67	PASS
4	3.8400	10.72	22.90	33.62	56.00	22.38	12.13	22.85	46.00	23.15	PASS
5	7.4265	10.54	22.89	33.43	60.00	26.57	16.66	27.20	50.00	22.80	PASS
6	9.4740	10.64	26.59	37.23	60.00	22.77	19.72	30.36	50.00	19.64	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[$dB\mu V$] Value[$dB\mu V$]



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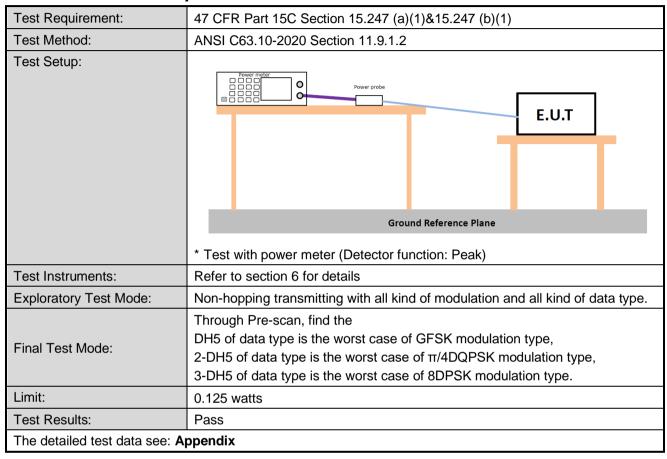
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4.4 Conducted Output Power





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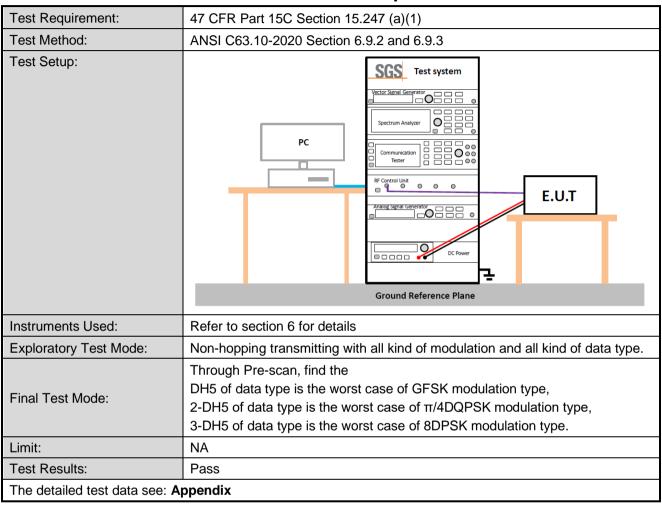
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4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth





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4.6 Carrier Frequencies Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)					
Test Method:	ANSI C63.10-2020 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: A	ppendix					



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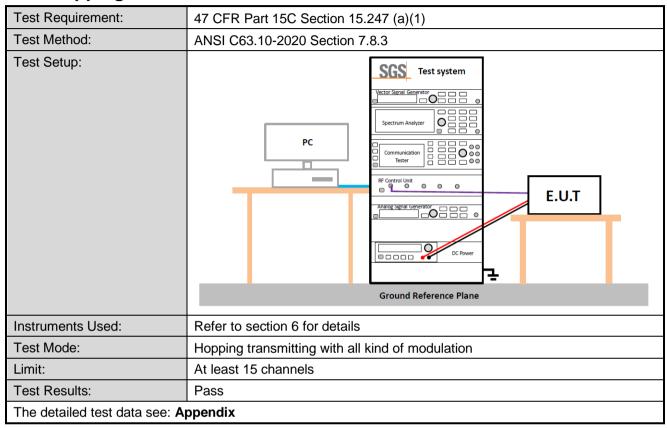
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4.7 Hopping Channel Number





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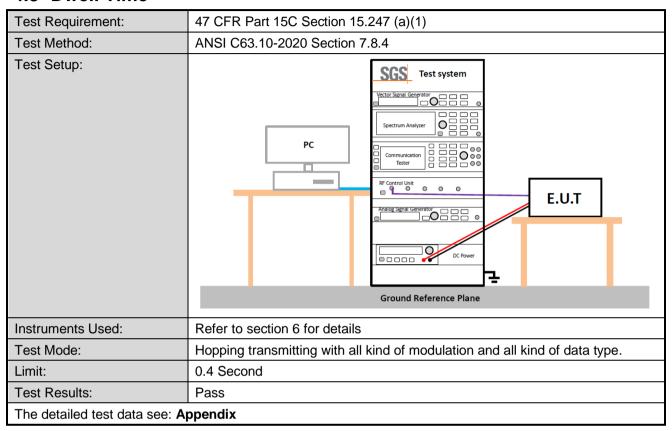
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4.8 Dwell Time





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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 C63.10-2020 Section 7.8.7.2				
	ANSI C03. 10-2020 Section 7.8.7.2				
Test Setup:	PC Spectrum Analyzer O O O O O O O O O				
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: A	ppendix				



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4.10 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
Test Method:	ANSI C63.10-2020 Section 7.8.7.1				
Test Setup:	PC Sector Signal Generator Spectrum Analyzer Spectrum Analy				
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: A	ppendix				



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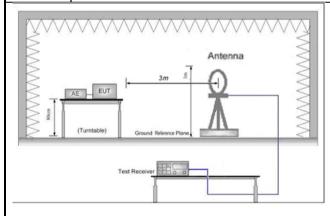
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4.11 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10-2020 Section 6.4 / 6.5 / 6.6							
Test Site:	Measurement Distance: 3	m (Semi-Anechoic	Chamber)					
Test Frequency:	9kHz ~ 25GHz							
Limit:	Frequency Field strength Limit Remark (microvolt/meter) (dBuV/m) Remark distance (m)							
	-	300						
0.490MHz-1.705MHz 24000/F(kHz)								
	30	-	-	30				
	30MHz-88MHz 100 40.0 Quasi-peak							
	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.							

Test Setup:



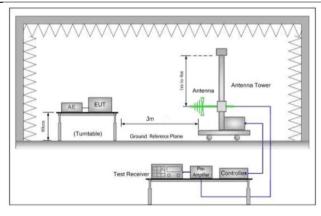


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz



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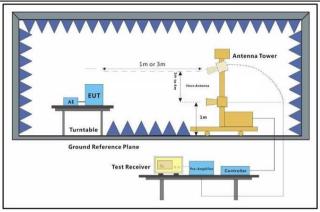


Figure 3. Above 1 GHz

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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	Fage. 23 01 07
	 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).
Exploratory Test	Non-hopping transmitting mode with all kind of modulation and all kind of data type
Mode:	Charge + Transmitting mode.
	Through Pre-scan, find the
	DH5 of data type and GFSK modulation is the worst case.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode
	For below 1GHz part, through pre-scan, the worst case is the lowest channel.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data	a see: Appendix



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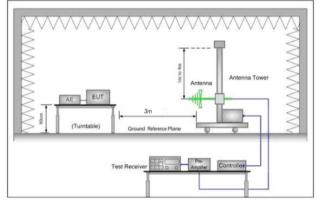
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4.12 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10-2020 Section	ANSI C63.10-2020 Section 6.10.5						
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Limit:	Frequency	Limit (dBuV/m)	Remark					
	30MHz-88MHz	40.0	Quasi-peak					
	88MHz-216MHz	43.5	Quasi-peak					
	216MHz-960MHz	46.0	Quasi-peak					
	960MHz-1GHz	54.0	Quasi-peak					
	Above 1GHz	54.0	Average Value					
	Above IGHZ	74.0	Peak Value					

Test Setup:



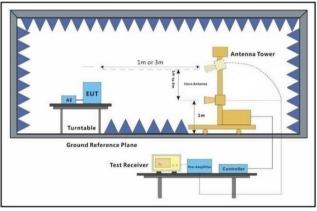


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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



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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
	 i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
T 10 (1 1)	
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 N₁ is number of type 1 pulese, L₁ is length of type 1 pulses, etc.
	Average Value = Peak Value +20*log(Duty cycle).
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode,
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	e: Appendix



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

	11000010110111011111111111111111111111						
No.	Item	Measurement Uncertainty					
1	Total RF power, conducted	±0.54dB					
2	RF power density, conducted	±1.03dB					
3	Spurious emissions, conducted	±0.54dB					
4	Radio Frequency	±1.0 %					
5	Duty Cycle	±0.37%					
6	Occupied Bandwidth	±1.0 %					
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)					
		± 3.13dB (9k to 30MHz)					
0	Dodisted Emission	± 4.88dB (30M to 1GHz)					
8	Radiated Emission	± 4.75dB (1GHz to 18GHz)					
		± 4.77dB (Above 18GHz)					

Remark:

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

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

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



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6 Equipment List

<u> </u>	RF Test Equipment							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)			
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05			
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	NCR	NCR			
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10			
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05			
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22			
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22			
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05			
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05			

Conduction Test Equipment							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07		
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 V4.0.0.2	SUWI-02-09-05	NCR	NCR		



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PSF Took System								
RSE Test System								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)			
Semi- Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	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-01-02-06	2022/11/23	2023/11/22			
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07			
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	2021/12/05	2023/12/04			
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04			
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	TAP9K3G32	SUWI-01-14-06	2022/11/23	2023/11/22			
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22			
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22			
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR			



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant0	2402	0.95	2401.54	2402.49	
DH5	Ant0	2441	0.95	2440.54	2441.49	
DH5	Ant0	2480	0.95	2479.54	2480.49	
2DH5	Ant0	2402	1.22	2401.39	2402.61	For Donort
2DH5	Ant0	2441	1.22	2440.39	2441.61	For Report Purpose
2DH5	Ant0	2480	1.23	2479.39	2480.62	Purpose
3DH5	Ant0	2402	1.21	2401.41	2402.62	
3DH5	Ant0	2441	1.20	2440.42	2441.62]
3DH5	Ant0	2480	1.21	2479.42	2480.62	



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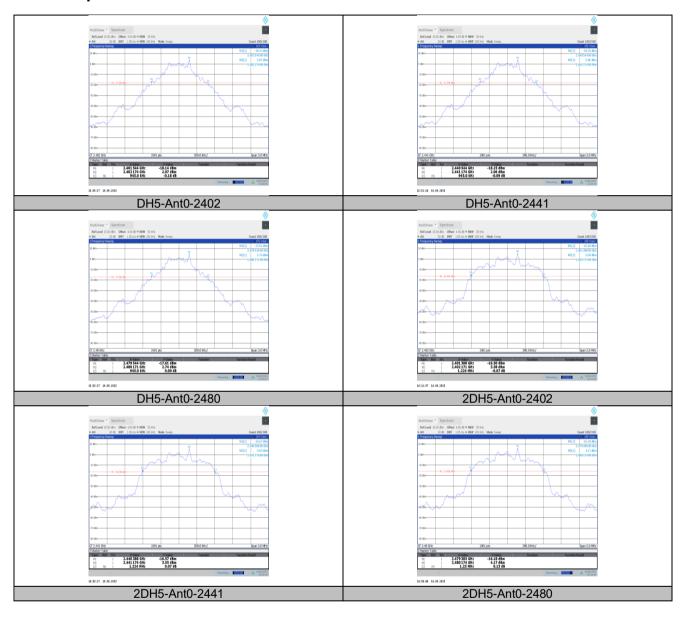
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Test Graphs





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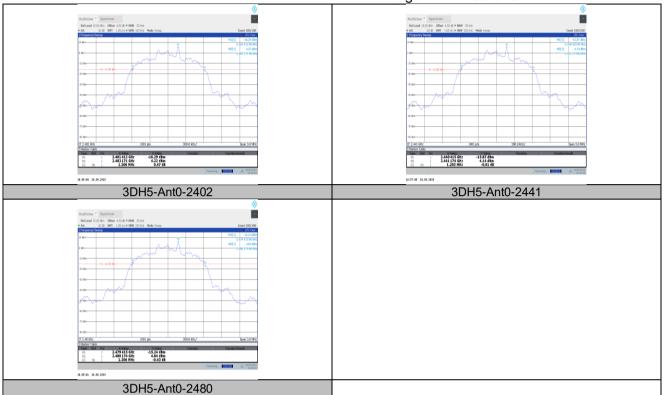
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Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant0	2402	0.851	2401.5786	2402.4298	
DH5	Ant0	2441	0.851	2440.5783	2441.4291	
DH5	Ant0	2480	0.852	2479.5776	2480.4296	
2DH5	Ant0	2402	1.129	2401.4387	2402.5679	For
2DH5	Ant0	2441	1.129	2440.4389	2441.5684	Report
2DH5	Ant0	2480	1.13	2479.4385	2480.5682	Purpose
3DH5	Ant0	2402	1.126	2401.4450	2402.5711	
3DH5	Ant0	2441	1.126	2440.4447	2441.5711	
3DH5	Ant0	2480	1.126	2479.4448	2480.5709	



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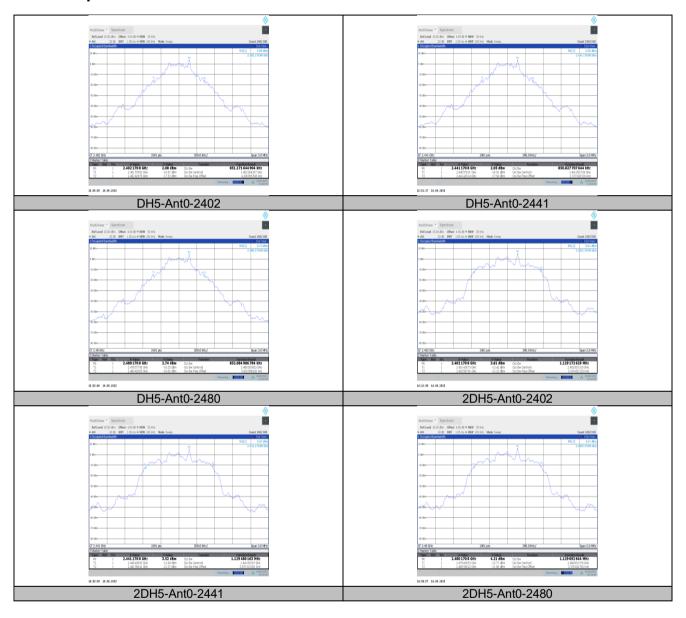
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Test Graphs





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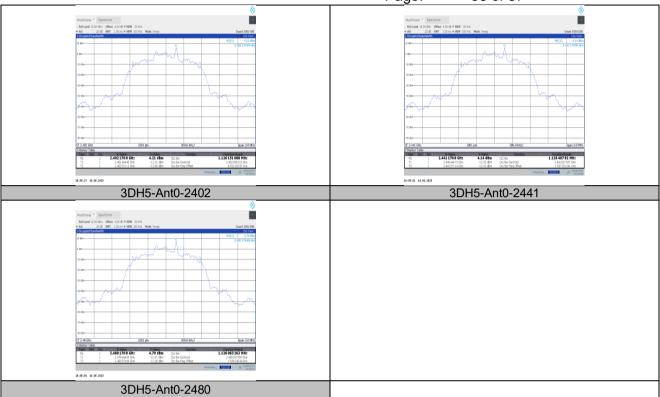
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Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant0	2402	8.09	≤20.97	PASS
DH5	Ant0	2441	8.36	≤20.97	PASS
DH5	Ant0	2480	8.65	≤20.97	PASS
2DH5	Ant0	2402	9.76	≤20.97	PASS
2DH5	Ant0	2441	10.16	≤20.97	PASS
2DH5	Ant0	2480	10.23	≤20.97	PASS
3DH5	Ant0	2402	9.69	≤20.97	PASS
3DH5	Ant0	2441	10.32	≤20.97	PASS
3DH5	Ant0	2480	10.12	≤20.97	PASS



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Carrier frequency separation

Test Result

	TestMode	Antenna	Hop/No Hop	Result[MHz]	Limit[MHz]	Verdict
Ī	DH5	Ant0	Нор	0.982	≥0.633	PASS
Ī	2DH5	Ant0	Нор	1.000	≥0.820	PASS
Ī	3DH5	Ant0	Нор	0.992	≥0.807	PASS



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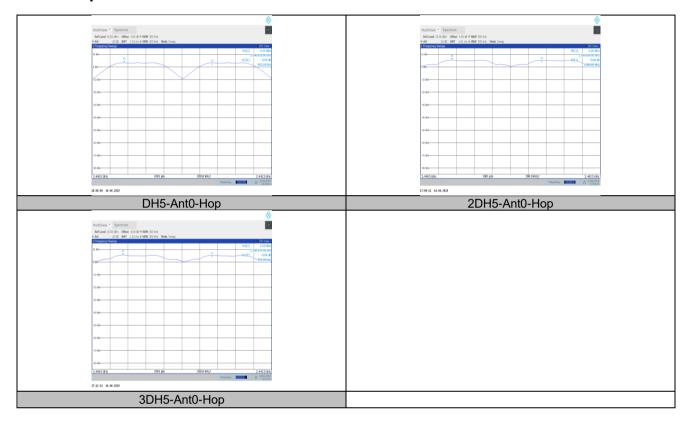
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Test Graphs





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Time of occupancy

Test Result

TestMode	Antenna	Hop/No Hop	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant0	Нор	2.870	110	0.316	≤0.4	PASS
DH1	Ant0	Нор	0.360	320	0.115	≤0.4	PASS
DH3	Ant0	Нор	1.620	130	0.211	≤0.4	PASS
2DH5	Ant0	Нор	2.880	100	0.288	≤0.4	PASS
2DH1	Ant0	Нор	0.370	320	0.118	≤0.4	PASS
2DH3	Ant0	Нор	1.630	190	0.31	≤0.4	PASS
3DH5	Ant0	Нор	2.880	130	0.374	≤0.4	PASS
3DH1	Ant0	Нор	0.380	330	0.125	≤0.4	PASS
3DH3	Ant0	Нор	1.620	140	0.227	≤0.4	PASS



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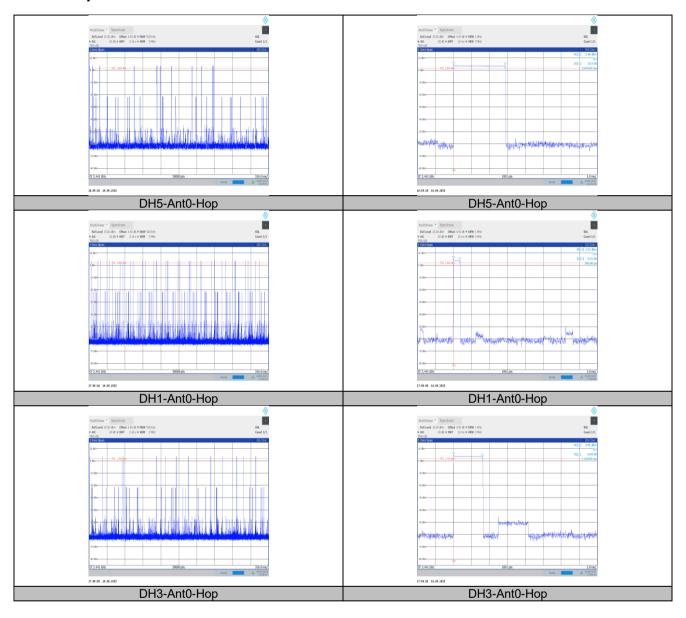
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Test Graphs





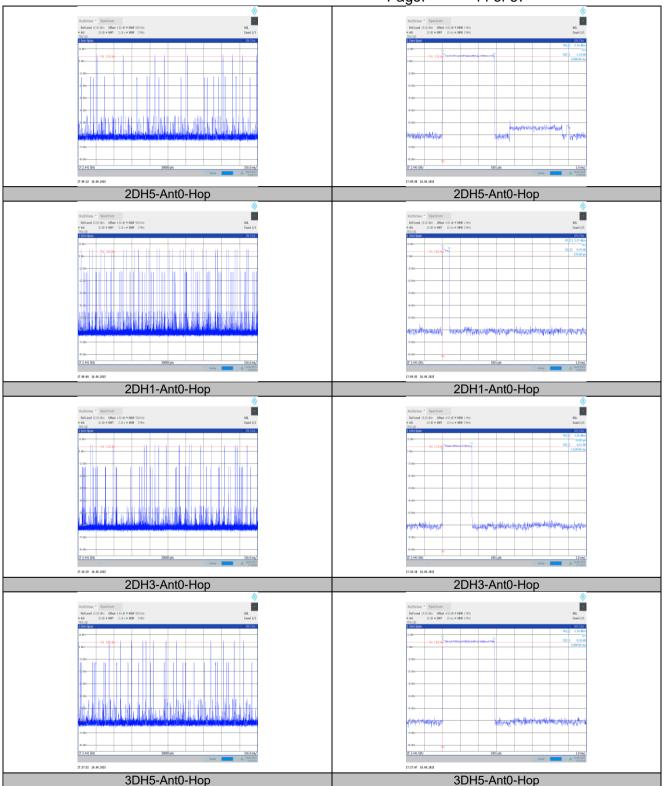
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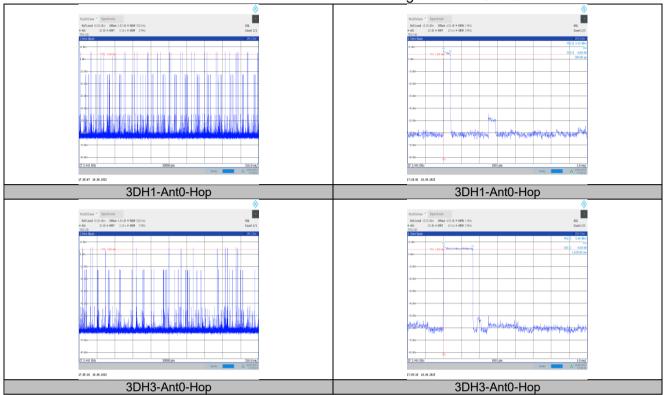
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Number of hopping channels

Test Result

TestMode	Antenna	Hop/No Hop	Result[Num]	Limit[Num]	Verdict
DH5	Ant0	Нор	79	≥15	PASS
2DH5	Ant0	Нор	79	≥15	PASS
3DH5	Ant0	Нор	79	≥15	PASS



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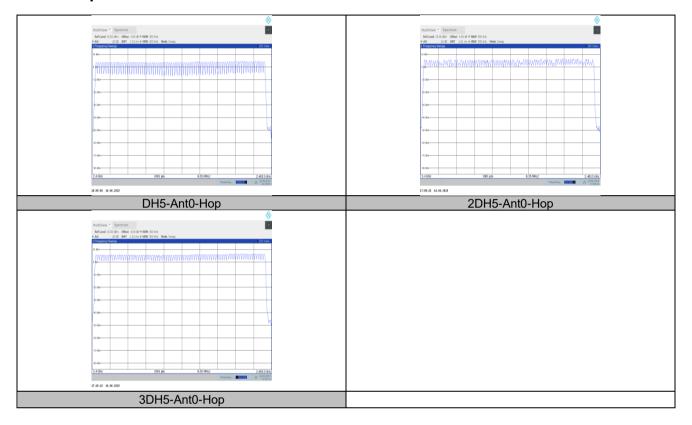
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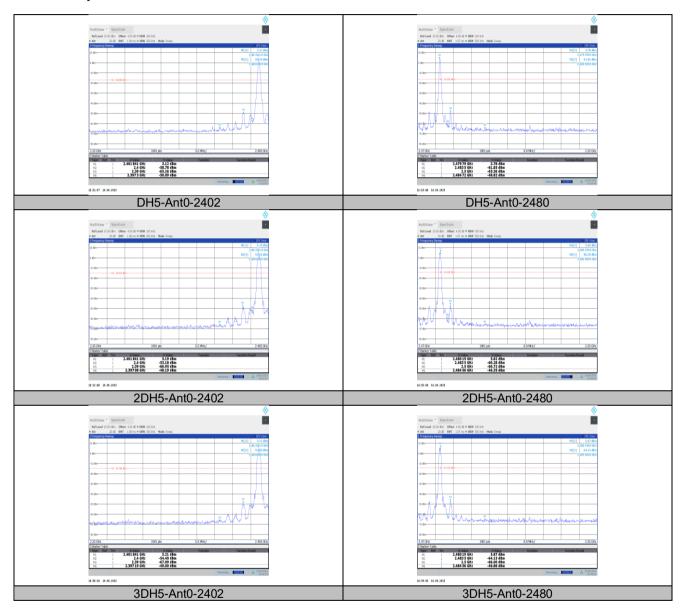


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Band edge measurements

Test Graphs





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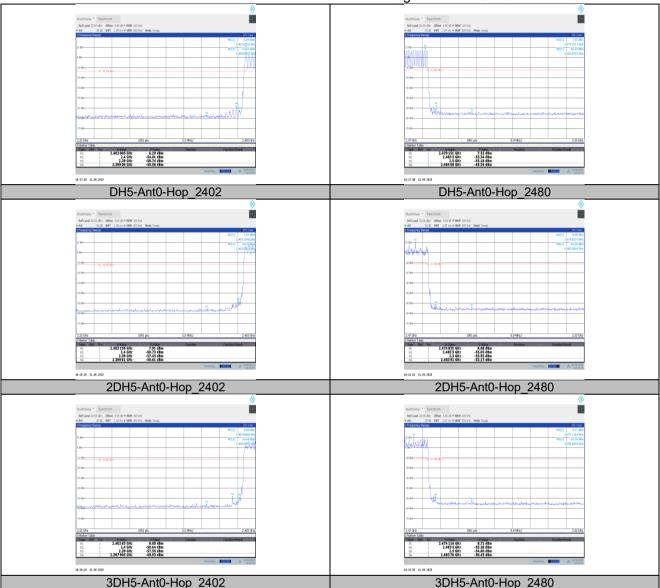
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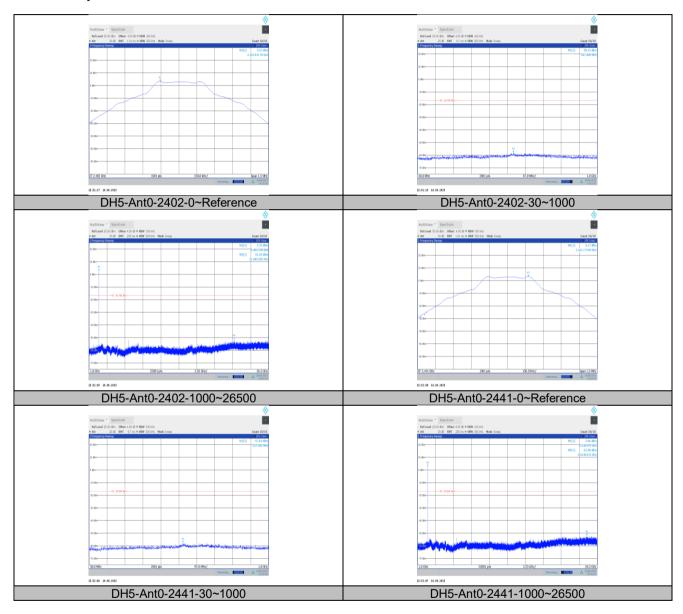


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Conducted Spurious Emission

Test Graphs





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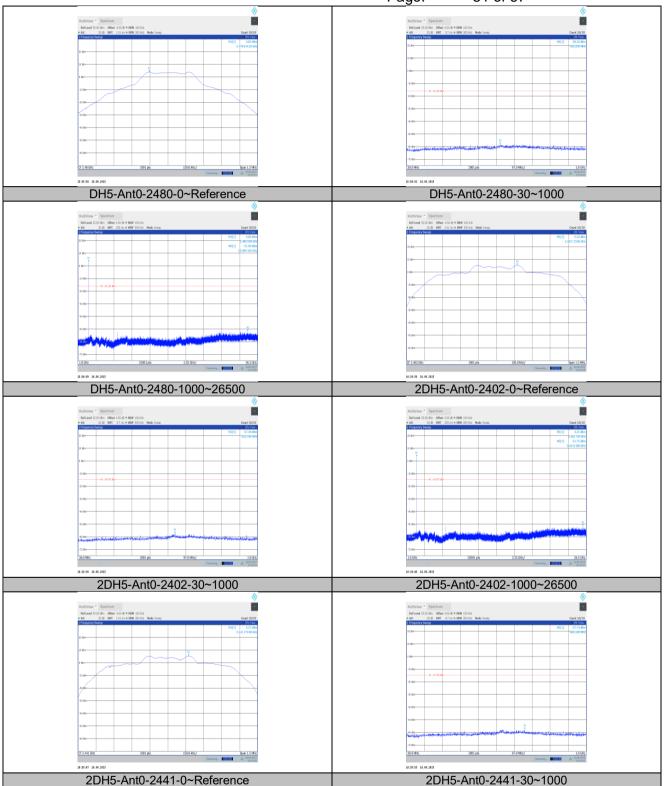
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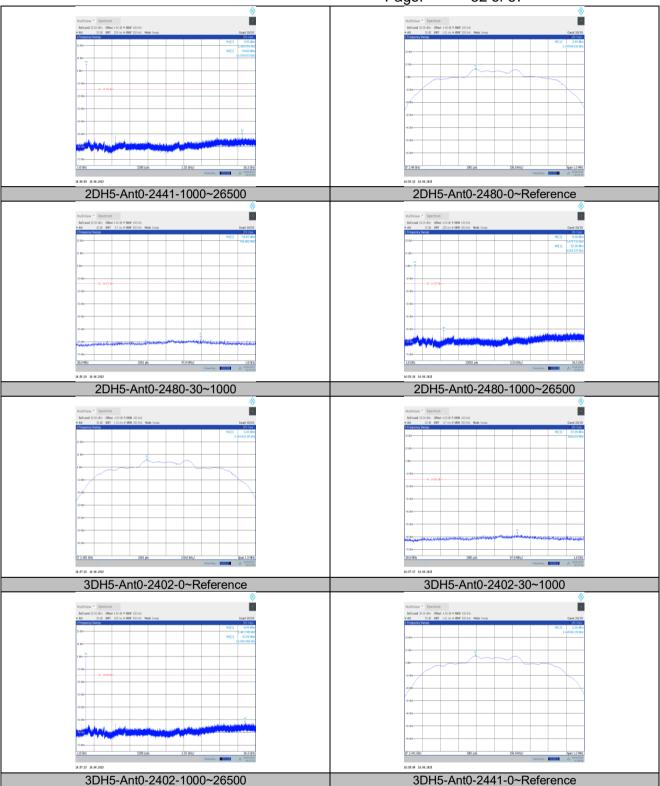
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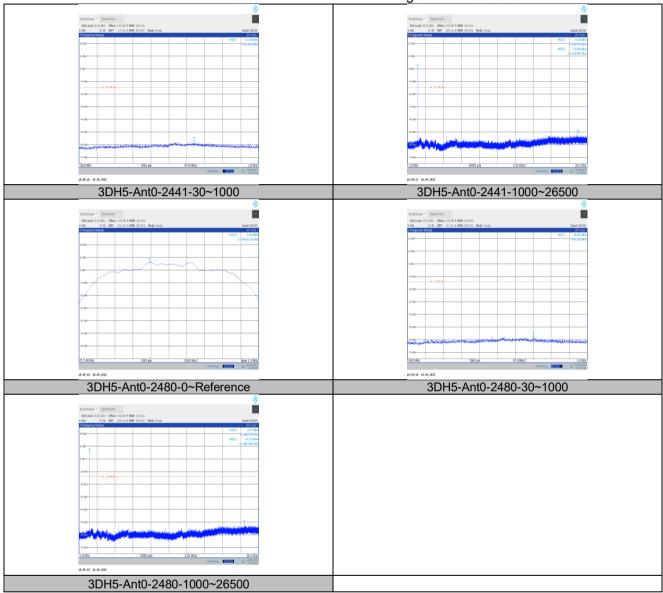
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant0	2402	2.89	3.76	76.86	1.14
DH5	Ant0	2441	2.89	3.76	76.86	1.14
DH5	Ant0	2480	2.89	3.75	77.07	1.13

Note:

Duty cycle = on time / 100ms = 2 * 2.89 / 100 = 5.78% Duty cycle Correction factor = 20*log(Duty cycle) = -24.76dB



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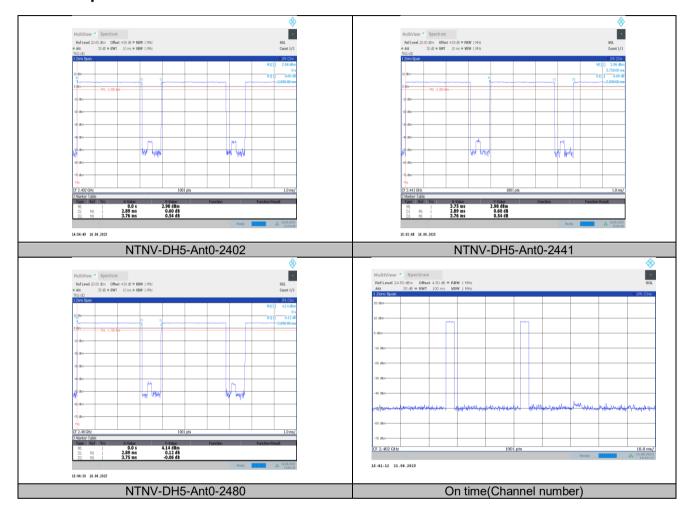
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Test Graphs





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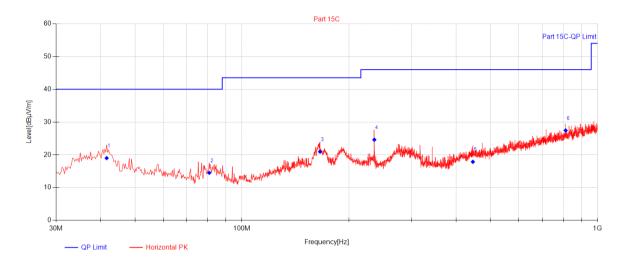


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Radiated Spurious Emissions Radiated emission below 1GHz

Worst case Mode: GFSK_Channel 78



Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.64	41.33	-36.25	13.93	19.01	40.00	20.99	159	161	Horizontal
2	80.925	40.92	-35.70	9.30	14.52	40.00	25.48	241	323	Horizontal
3	165.8	41.88	-35.22	14.30	20.96	43.50	22.54	183	357	Horizontal
4	235.64	48.35	-34.83	11.09	24.61	46.00	21.39	264	50	Horizontal
5	446.13	35.19	-33.19	15.87	17.87	46.00	28.13	155	61	Horizontal
6	813.5175	37.83	-31.19	20.79	27.44	46.00	18.56	123	61	Horizontal

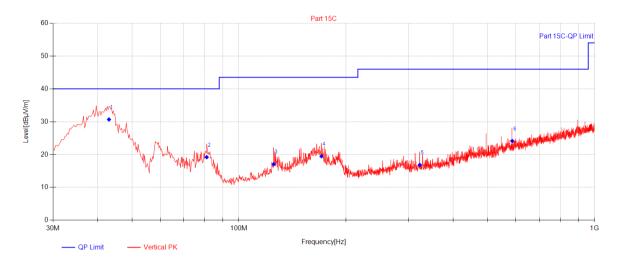


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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	43.095	53.11	-36.23	13.81	30.69	40.00	9.31	156	198	Vertical		
2	81.1675	45.63	-35.72	9.31	19.21	40.00	20.79	231	260	Vertical		
3	125.3025	40.44	-35.88	12.53	17.09	43.50	26.41	188	55	Vertical		
4	170.65	40.19	-35.15	14.43	19.47	43.50	24.03	214	260	Vertical		
5	322.455	38.04	-34.45	13.26	16.85	46.00	29.15	106	178	Vertical		
6	586.78	38.56	-32.49	18.07	24.14	46.00	21.86	189	207	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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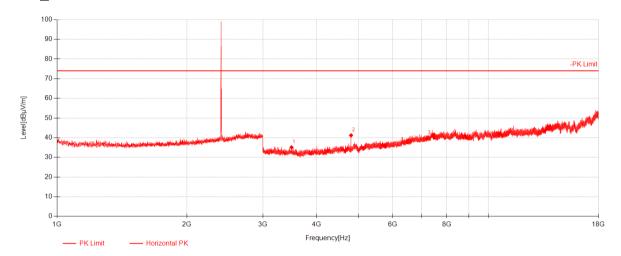
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Transmitter emission Above 1GHz GFSK_Channel 00



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3496.5	52.76	28.60	-46.26	35.10	74.00	38.90	223	179	Horizontal	
2	3496.5	-	-	-	10.34	54.00	43.66	-	-	Horizontal	
3	4804.0000	55.77	30.97	-45.54	41.20	74.00	32.80	169	358	Horizontal	
4	4804.0000	-	-	-	16.44	54.00	37.56	-		Horizontal	
5	7206.0000	47.24	35.78	-43.44	39.58	74.00	34.42	249	16	Horizontal	
6	7206.0000	-	-	-	14.82	54.00	39.18	-	-	Horizontal	



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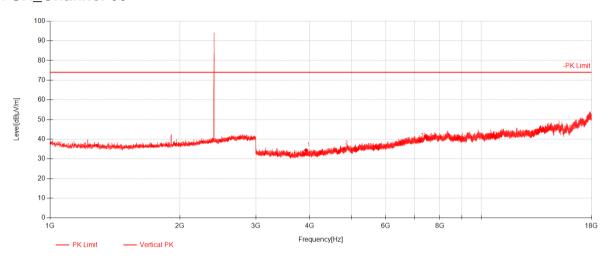
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GFSK_Channel 00



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3921	51.56	29.02	-46.23	34.35	74.00	39.65	115	219	Vertical	
2	3921	-	-	-	9.59	54.00	44.41	-	-	Vertical	
3	4804.0000	49.72	30.97	-45.54	35.15	74.00	38.85	269	360	Vertical	
4	4804.0000	-	-	-	10.39	54.00	43.61	-	-	Vertical	
5	7206.0000	46.70	35.78	-43.44	39.04	74.00	34.96	187	300	Vertical	
6	7206.0000	-	-	-	14.28	54.00	39.72	-	-	Vertical	



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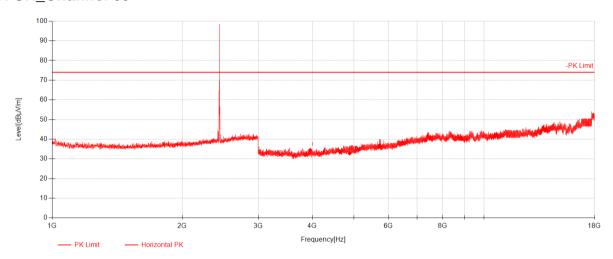
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GFSK_Channel 39



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3957.5	51.54	29.06	-46.14	34.46	74.00	39.54	110	166	Horizontal	
2	3957.5	-	-	-	9.70	54.00	44.30	-	-	Horizontal	
3	4882.0000	47.23	31.14	-45.53	32.84	74.00	41.16	156	139	Horizontal	
4	4882.0000	-	-	-	8.08	54.00	45.92	-	-	Horizontal	
5	7323.0000	47.03	36.10	-43.67	39.46	74.00	34.54	291	16	Horizontal	
6	7323.0000	-	-	1	14.70	54.00	39.30	ı	-	Horizontal	



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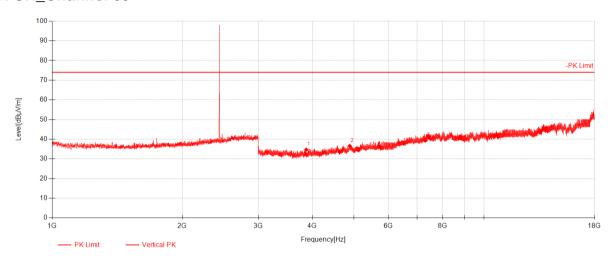
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GFSK_Channel 39



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3872.5	51.86	28.97	-46.18	34.65	74.00	39.35	255	288	Vertical	
2	3872.5	-	ı	1	9.89	54.00	44.11	ı	ı	Vertical	
3	4882.0000	50.98	31.14	-45.53	36.59	74.00	37.41	163	233	Vertical	
4	4882.0000	-	ı	1	11.83	54.00	42.17	ı	ı	Vertical	
5	7323.0000	47.00	36.10	-43.67	39.43	74.00	34.57	213	327	Vertical	
6	7323.0000	-	ı	1	14.67	54.00	39.33	ı	-	Vertical	



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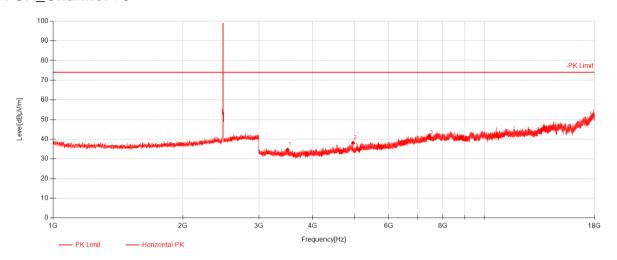
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GFSK_Channel 78



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3497	52.26	28.60	-46.26	34.60	74.00	39.40	142	358	Horizontal	
2	3497	-	-	-	9.84	54.00	44.16	-	-	Horizontal	
3	4960.0000	52.35	31.31	-45.60	38.07	74.00	35.93	156	220	Horizontal	
4	4960.0000	-	-	-	13.31	54.00	40.69	-	-	Horizontal	
5	7440.0000	47.47	36.43	-43.30	40.60	74.00	33.40	298	70	Horizontal	
6	7440.0000	-	-	-	15.84	54.00	38.16	-	-	Horizontal	



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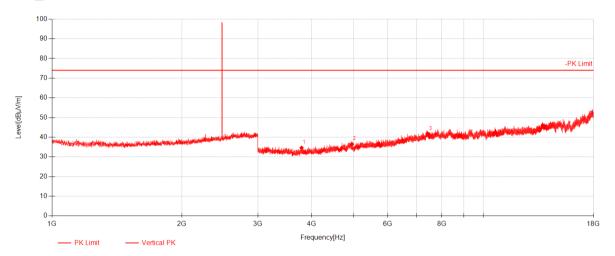
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GFSK_Channel 78



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	3789	51.62	28.89	-45.87	34.64	74.00	39.36	254	327	Vertical		
2	3789	-	-	-	9.88	54.00	44.12	-	-	Vertical		
3	4960.0000	50.75	31.31	-45.60	36.47	74.00	37.53	199	96	Vertical		
4	4960.0000	-	-	-	11.71	54.00	42.29	-	-	Vertical		
5	7440.0000	48.42	36.43	-43.30	41.55	74.00	32.45	203	178	Vertical		
6	7440.0000	-	-	-	16.79	54.00	37.21	-	-	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($dB\mu V/m$)

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



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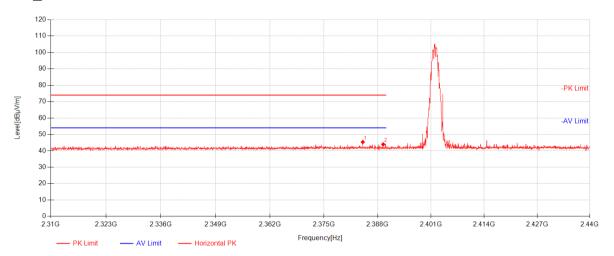


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Restricted bands around fundamental frequency

GFSK_Channel 00



Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2384.4033	41.95	26.98	-23.57	45.35	74.00	28.65	210	188	Horizontal	
2	2384.4033	ı	-	ı	20.59	54.00	33.41	ı	ı	Horizontal	
3	2389.3433	40.54	26.99	-23.57	43.96	74.00	30.04	210	188	Horizontal	
4	2389.3433	-	-	-	19.20	54.00	34.80	-	-	Horizontal	



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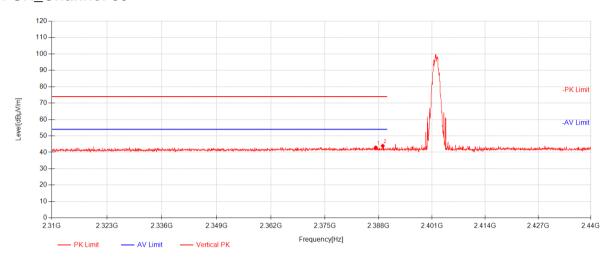
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GFSK_Channel 00



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2387.3067	39.54	26.98	-23.57	42.95	74.00	31.05	269	210	Vertical		
2	2387.3067	-	-	-	18.19	54.00	35.81	-	-	Vertical		
3	2388.9967	40.53	26.99	-23.57	43.95	74.00	30.05	269	210	Vertical		
4	2388.9967	-	-	-	19.19	54.00	34.81	-	-	Vertical		



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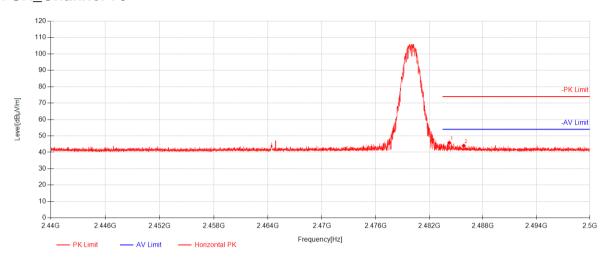
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GFSK_Channel 78



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2484.2275	42.05	27.26	-23.54	45.76	74.00	28.24	187	332	Horizontal		
2	2484.2275	-	-	-	21.00	54.00	33.00	-	-	Horizontal		
3	2485.8475	40.27	27.26	-23.54	43.99	74.00	30.01	187	332	Horizontal		
4	2485.8475	ı		-	19.23	54.00	34.77	ı		Horizontal		



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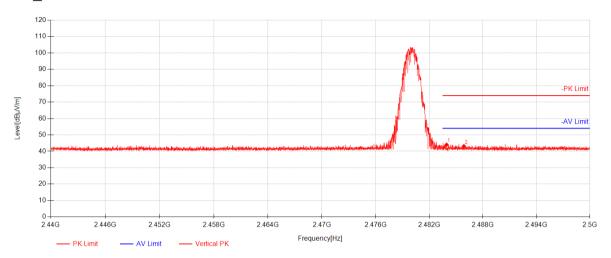
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GFSK_Channel 78



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2483.9275	40.33	27.25	-23.54	44.04	74.00	29.96	153	62	Vertical		
2	2483.9275	-	-	-	19.28	54.00	34.72	-	-	Vertical		
3	2485.8625	39.43	27.26	-23.54	43.15	74.00	30.85	153	62	Vertical		
4	2485.8625	-	-	-	18.39	54.00	35.61	-	-	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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