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TEST REPORT

Test Result :	PASS *
Date of Issue:	2023/12/15
Date of Test:	2023/11/14 to 2023/12/01
Date of Receipt:	2023/11/13
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C
FCC ID:	2AFZZN87G
Trade Mark:	Redmi
Model No.:	23124RN87G
EUT Description:	Mobile Phone
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Applicant:	Xiaomi Communications Co., Ltd.
Application No.:	SEWM2311000456RG

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

Authorized Signature:

лен

Well Wei Wireless Laboratory Manager



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1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2023/12/15		Original

Prepared By	(Ives Cheng) / Test Engineer
Checked By	Stone Ju (Stone Gu) / Reviewer



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2 Test Summary

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



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3 General Information

3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.	
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085	
Manufacturer:	Xiaomi Communications Co., Ltd.	
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085	

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, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, 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

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EUT Description:	Mobile Phone			
Model No.:	23124RN87G			
Trade Mark:	Redmi			
Hardware Version:	13510C3V			
Software Version:	MIUI 14			
Power Supply:	DC 3.84V from internal adapter.	I rechargeable battery which can be charged by AC/DC		
	RF Conducted	IMEI1:865408060039848 IMEI2:865408060039855		
IMEI:	RSE & AC power line	IMEI1:865408060041505 IMEI2:865408060041513		
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 1 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 78.			
Bluetooth version:	Bluetooth V5.3			
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)			
Modulation Type:	GFSK, π/4DQPSK, 8DPSK			
Number of Channel:	79			
Hopping Channel Type:	Adaptive Frequency He	Adaptive Frequency Hopping systems		
Antenna Type:	PIFA Antenna	PIFA Antenna		
	-1.25dBi (Ant6)			
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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				Rep Rev Pag	-		456RG03
		Opera	ation Frequen	cy of each cl	nannel		
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:

S

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

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH39)	2441MHz
The Highest channel(CH78)	2480MHz



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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	3.84		
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 PIFA Antenna and no consideration of replacement. The best case gain of the antenna is -1.25dBi (Ant6). *

*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.

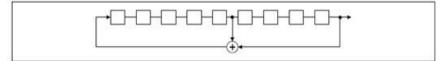
> Number of shift register stages: 9

> 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

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

SG

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:		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:	 room. 2) The EUT was connect Impedance Stabilizat impedance. The pow connected to a secon plane in the same way multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plan placed on the horizon 4) The test was perform the EUT shall be 0.4 vertical ground reference reference plane. The unit under test and b mounted on top of th the closest points of and associated equip 5) In order to find the m and all of the interfate 	sturbance voltage test was contend to AC power source throut ion Network) which provides a per cables of all other units of the tast of LISN 2, which was bonded ay as the LISN 1 for the unit b the rating of the LISN was not splaced upon a non-metallic ne. And for floor-standing arrant the rating of the LISN was not splaced upon a non-metallic ne. And for floor-standing arrant the avertical ground reference the vertical ground reference and for floor-standing arrant the strip was bonded to the LISN 1 was placed 0.8 m fro onded to a ground reference plane. The the LISN 1 and the EUT. All of the LISN 1 and the EUT. All of the LISN 1 and the changed and aximum emission, the relative ce cables must be changed and ducted measurement.	igh a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear the EUT were to the ground reference eing measured. A ultiple power cables to a bet exceeded. table 0.8m above the angement, the EUT was rence plane. The rear of ference plane. The e horizontal ground m the boundary of the plane for LISNs is distance was between ther units of the EUT o the LISN 2.			



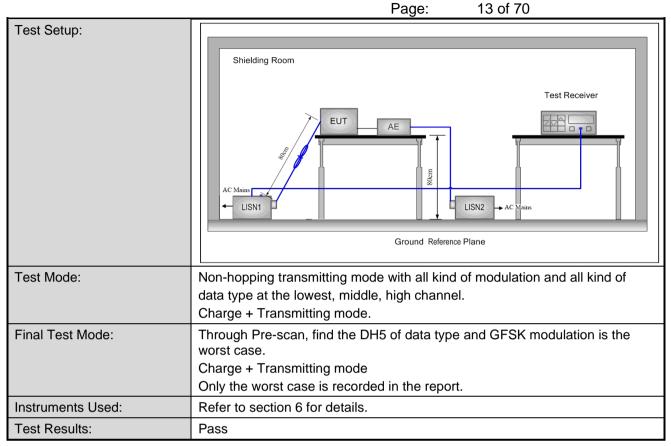
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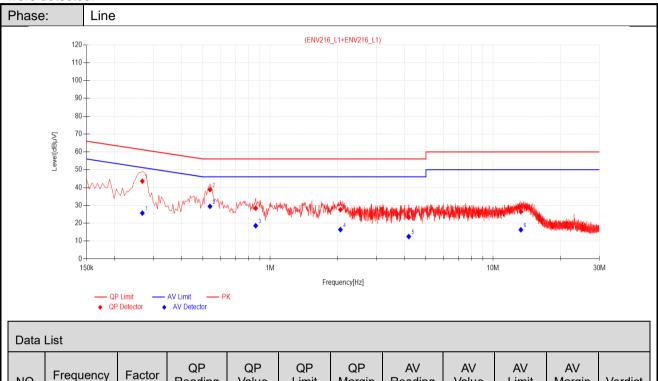
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Measurement Data

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.



	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	0.2670	11.64	31.92	43.56	61.21	17.65	14.02	25.66	51.21	25.55	PASS
	2	0.5370	11.61	27.23	38.84	56.00	17.16	17.83	29.44	46.00	16.56	PASS
	3	0.8610	11.71	16.72	28.43	56.00	27.57	6.88	18.59	46.00	27.41	PASS
	4	2.0670	11.73	15.86	27.59	56.00	28.41	4.67	16.40	46.00	29.60	PASS
	5	4.1865	11.77	11.53	23.30	56.00	32.70	0.73	12.50	46.00	33.50	PASS
	6	13.3350	11.90	14.53	26.43	60.00	33.57	4.42	16.32	50.00	33.68	PASS
I	Rema	rk:										

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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	150k				GP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdic
	st Frequency	P Detector	AV Detector	k QP Value	QP Limit	QP Margin	Reading	AV Value	AV Limit	AV Margin	
NO.	st [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdic
NO. F	st Frequency [MHz] 0.2670	P Detector [dB] 11.64	QP Reading [dBµV] 32.37	k QP Value [dBμV] 44.01	QP Limit [dBµV] 61.21	QP Margin [dB] 17.20	Reading [dBµV] 14.13	AV Value [dBμV] 25.77	ΑV Limit [dBµV] 51.21	AV Margin [dB] 25.44	Verdic PASS PASS
NO. F	st Frequency [MHz] 0.2670 0.5325	P Detector [dB] 11.64 11.61	AV Detector QP Reading [dBµV] 32.37 20.06	QP Value [dBμV] 44.01 31.67	QP Limit [dBµV] 61.21 56.00	QP Margin [dB] 17.20 24.33	Reading [dBµV] 14.13 9.48	ΑV Value [dBμV] 25.77 21.09	ΑV Limit [dBμV] 51.21 46.00	AV Margin [dB] 25.44 24.91	Verdic PASS PASS PASS
NO. F	150k st Frequency [MHz] 0.2670 0.5325 1.1400	P Detector Factor [dB] 11.64 11.61 11.72	AV Detector QP Reading [dBµV] 32.37 20.06 12.96	 QP Value [dBμV] 44.01 31.67 24.68 	QP Limit [dBµV] 61.21 56.00 56.00	QP Margin [dB] 17.20 24.33 31.32	Reading [dBµV] 14.13 9.48 0.50	ΑV Value [dBμV] 25.77 21.09 12.22	AV Limit [dBμV] 51.21 46.00 46.00	AV Margin [dB] 25.44 24.91 33.78	Verdic

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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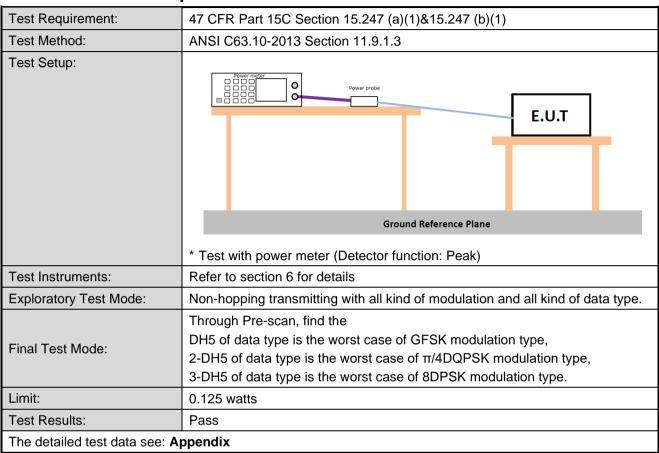
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4.4 Conducted Output Power





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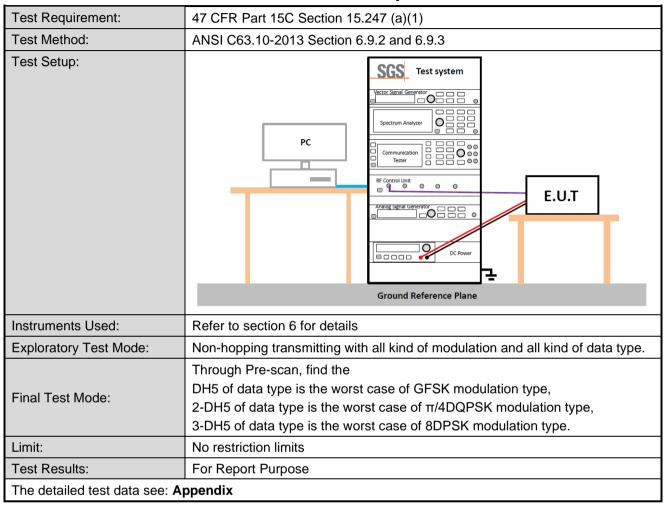
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4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth





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Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) Test Method: ANSI C63.10-2013 Section 7.8.2 Test Setup: SGS Test system lector Signal General \cap PC -RF Control Unit 0 0 0 E.U.T Analog Signal Gen DC Powe Ground Reference Plane **Test Instruments:** Refer to section 6 for details Exploratory Test Mode: Hopping transmitting with all kind of modulation and all kind of data type. Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, Final Test Mode: 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Limit: 2/3 of the 20dB bandwidth Remark: the transmission power is less than 0.125W. **Test Results:** Pass The detailed test data see: Appendix

4.6 Carrier Frequencies Separation



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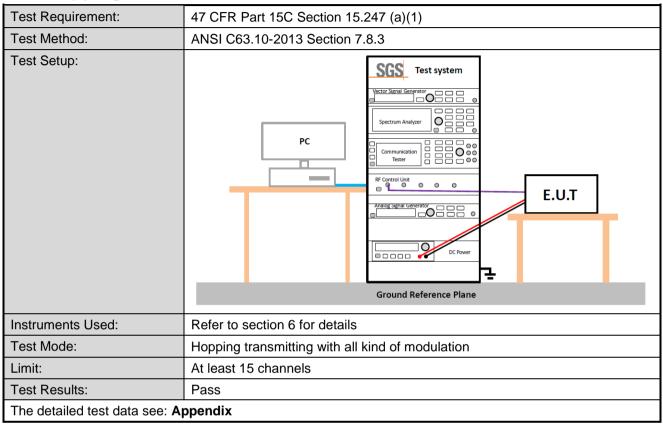
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4.7 Hopping Channel Number





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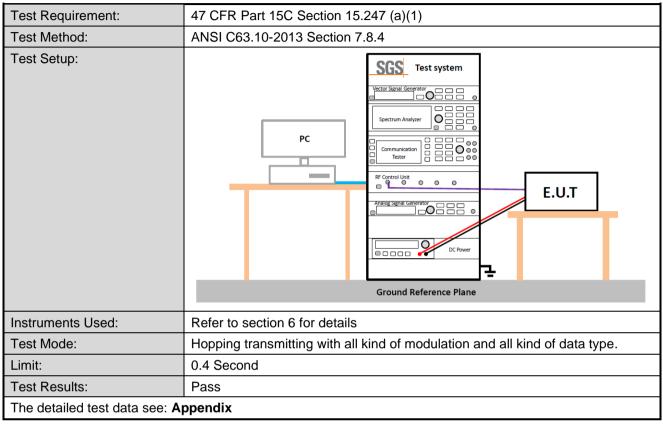
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4.8 Dwell Time





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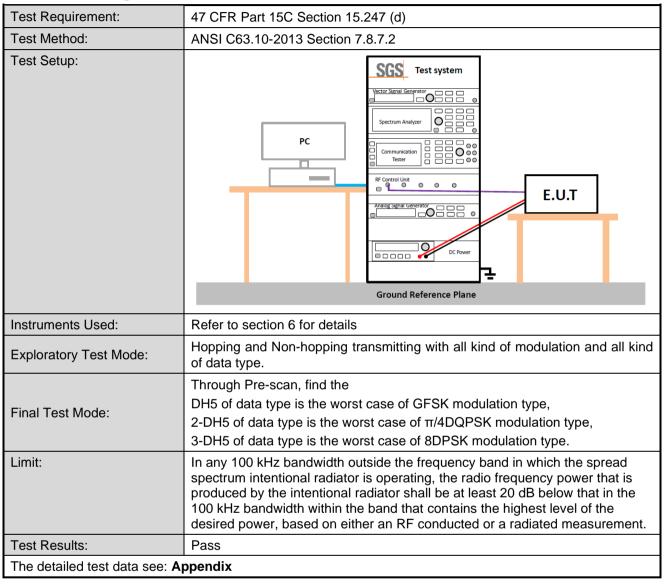
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4.9 Band-edge for RF Conducted Emissions





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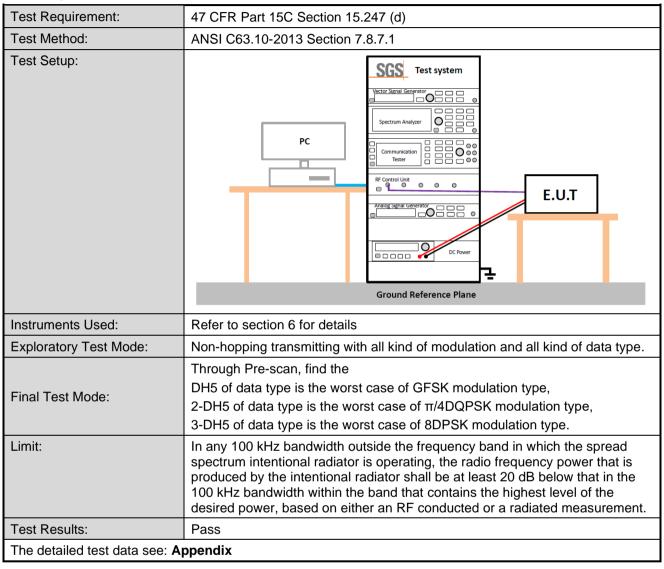
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4.10 Spurious RF Conducted Emissions





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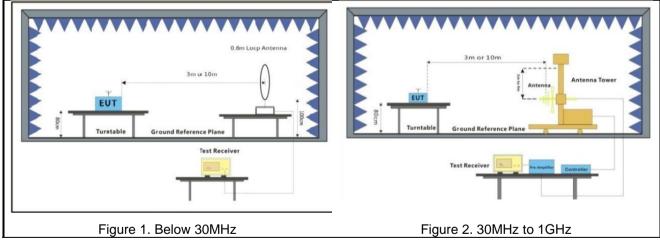
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4.11 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10-2013 Sectio	on 6.4 / 6.5 / 6.6				
Test Site:	Measurement Distance: 3	m (Semi-Anechoic	: Chamber)			
Test Frequency:	9kHz ~ 25GHz					
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)	
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300	
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30	
	1.705MHz-30MHz	30		-	30	
	30MHz-88MHz	100	40.0	Quasi-peak	3	
	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 pern	nitted averag	e emission lim	it	
	applicable to the equipme level radiated by the device		peak limit ap	oplies to the tot	al peak emission	

Test Setup:

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	Im or 3m Im or 3m FUT Turntable Ground Reference Plane Test Receiver
	Figure 3. 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 2 meter semi-anechoic camber. The table was rotated 200
	 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.
	 d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.h. The radiation measurements are performed in X, Y, Z axis positioning for
	Transmitting mode, And found the X axis positioning which it is worse case.Repeat above procedures until all frequencies measured was complete.
	 j. 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.
	k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
	I. At a measurement distance of 1 meter the limit line was increased by $20*LOG(3/1) = 9.54 \text{ dB}.$
Test Configuration:	Measurements below 30MHz
	• RBW = 10 kHz
	 VBW = 30 kHz Detector = Peak & Average & Quasi-peak
	 Detector – Peak & Average & Quasi-peak Trace mode = max hold
	Measurements Below 1000MHz
	1



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	• RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz Use duty cycle correction factor method Duty cycle = On time / 100 milliseconds On time = N ₁ *L ₁ + N ₂ *L ₂ +N _{N-1} *L _{N-1} + N _N Where N ₁ is number of type 1 pulese, L ₁ Average Value = Peak Value +20*log(Du	z per 15.35(c). ^{"*} L _N is length of typ	
Exploratory Test Mode:	Non-hopping transmitting mode with all k data type Charge + Transmitting mode.	ind of modulat	ion and all kind of
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation Pretest the EUT at Charge + Transmittin For below 1GHz part, through pre-scan a recorded in the report.	g mode	
Instruments Used:	Refer to section 6 for details		
Test Results:	Pass		
The detailed test data	a see: Appendix		



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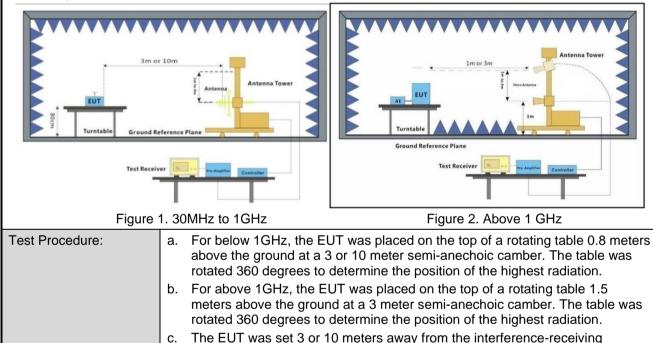
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4.12Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10-2013 Section	ANSI C63.10-2013 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:



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.
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 \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz Use duty cycle correction factor method per 15.35(c). Duty cycle = On time / 100 milliseconds On time = N1*L1 + N2*L2+NN-1*LN-1 + NN*LN Where N1 is number of type 1 pulses, 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



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

		<u>, </u>			
No.	Item	Measurement Uncertainty			
1	Total RF power, conducted	±0.54dB			
2	RF power density, conducted	±1.03dB			
3	Spurious emissions, conducted	±0.54dB			
4	Radio Frequency	±1.0 %			
5	Duty Cycle	±0.37%			
6	Occupied Bandwidth	±1.0 %			
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)			
		± 3.13dB (9k -30MHz)			
0	Dedicted Emission	± 4.8dB (30M -1GHz)			
8	Radiated Emission	± 4.8dB (1GHz to 18GHz)			
		± 4.80dB (Above 18GHz)			
Domark:					

Remark:

S

The Ulab (lab Uncertainty) is less than Ucispr/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

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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		
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2023/05/11	2024/05/10		
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		
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05		
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		
Dowermeter	Antitory			2022/11/23	2023/11/22		
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2023/11/21	2024/11/20		
Pulse power	Anritsu	MA2411B		2022/11/23	2023/11/22		
sensor	Annisu	IVIAZ4TTB	SUWI-01-32-01	2023/11/21	2024/11/20		
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05		

CE Test System							
Equipment	Manufacturer	Model No. Inventory No. Cal Date (yyyy/mm/dd)		Cal Due Date (yyyy/mm/dd)			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07		
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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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		
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		



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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	Ant6	2402	0.87	2401.54	2402.41	
DH5	Ant6	2441	0.86	2440.55	2441.41	
DH5	Ant6	2480	0.86	2479.55	2480.41	
2DH5	Ant6	2402	1.26	2401.37	2402.63	For
2DH5	Ant6	2441	1.26	2440.37	2441.63	Report
2DH5	Ant6	2480	1.27	2479.37	2480.64	Purpose
3DH5	Ant6	2402	1.26	2401.36	2402.62	
3DH5	Ant6	2441	1.26	2440.36	2441.62	
3DH5	Ant6	2480	1.26	2479.36	2480.62	

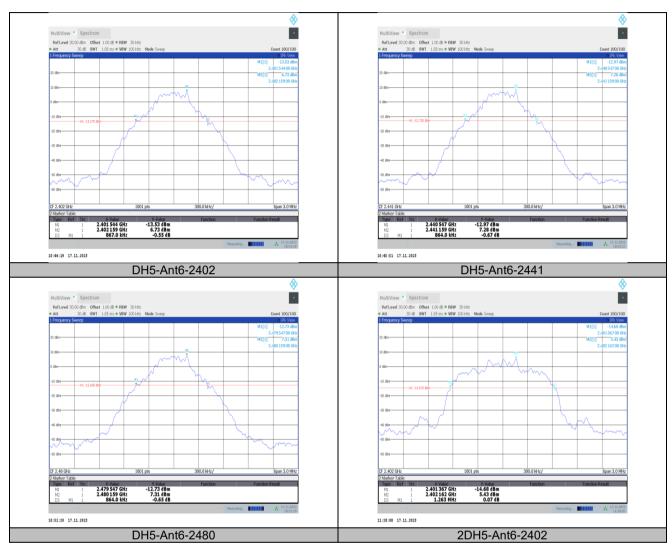


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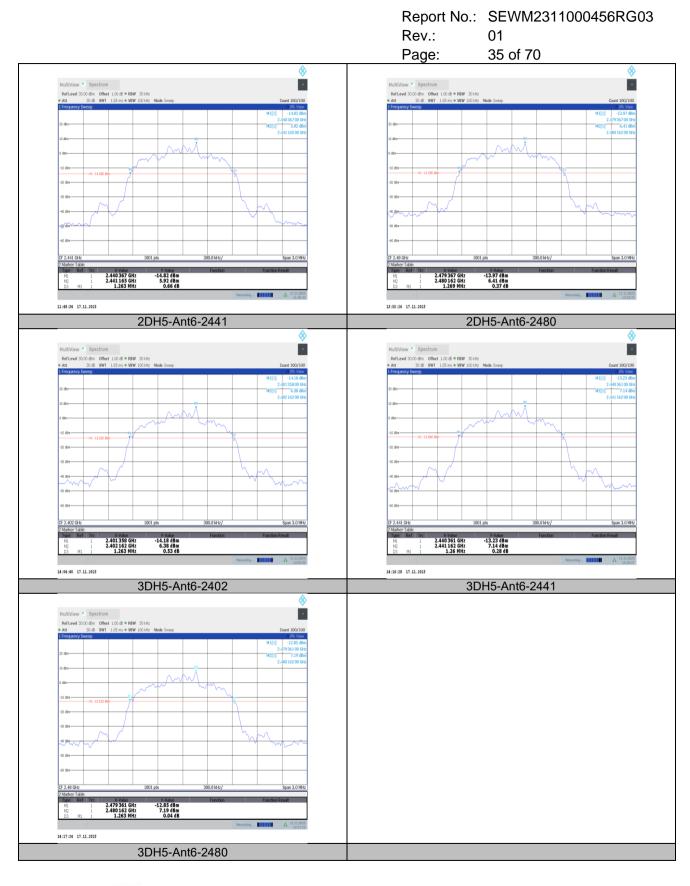
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Test Graphs







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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant6	2402	0.755	2401.6206	2402.3753	
DH5	Ant6	2441	0.754	2440.6211	2441.3754	
DH5	Ant6	2480	0.755	2479.6212	2480.3766	
2DH5	Ant6	2402	1.143	2401.4213	2402.5644	For
2DH5	Ant6	2441	1.141	2440.4239	2441.5646	Report
2DH5	Ant6	2480	1.151	2479.4185	2480.5690	Purpose
3DH5	Ant6	2402	1.145	2401.4259	2402.5712	
3DH5	Ant6	2441	1.143	2440.4284	2441.5710]
3DH5	Ant6	2480	1.155	2479.4226	2480.5777	



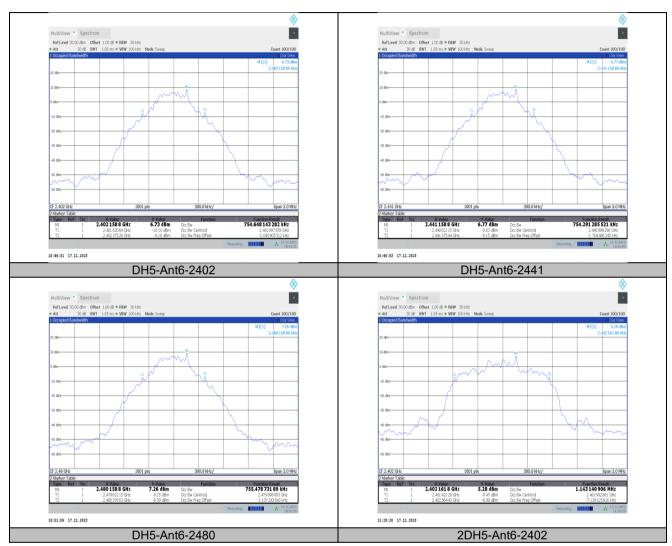
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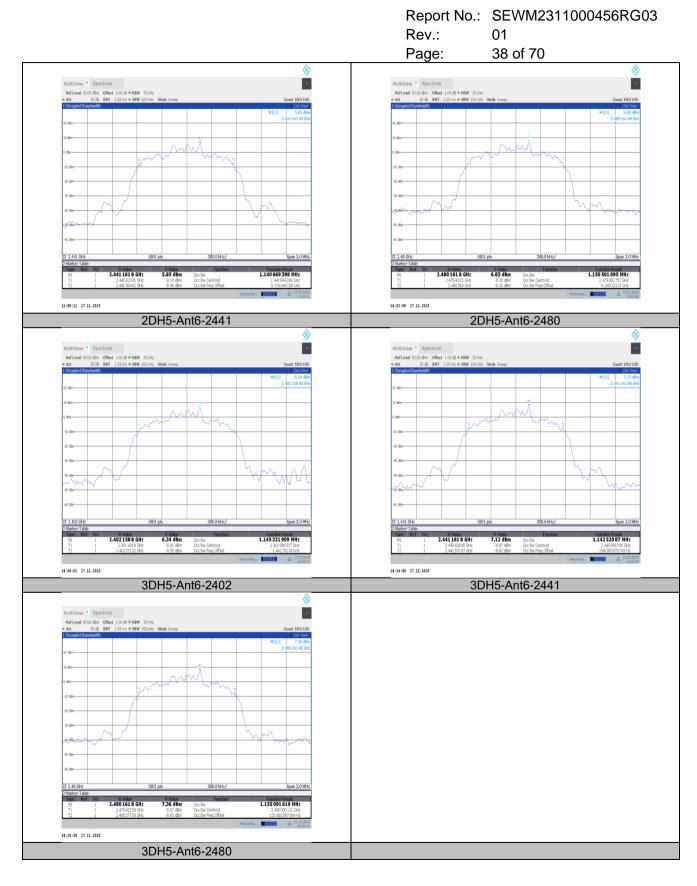
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Maximum conducted output power Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant6	2402	10.28	≤20.97	PASS
DH5	Ant6	2441	10.64	≤20.97	PASS
DH5	Ant6	2480	11.03	≤20.97	PASS
2DH5	Ant6	2402	9.56	≤20.97	PASS
2DH5	Ant6	2441	9.89	≤20.97	PASS
2DH5	Ant6	2480	10.31	≤20.97	PASS
3DH5	Ant6	2402	9.62	≤20.97	PASS
3DH5	Ant6	2441	9.98	≤20.97	PASS
3DH5	Ant6	2480	10.34	≤20.97	PASS



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Carrier frequency separation Test Result

TestMode	Antenna	Hop/No Hop	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant6	Нор	1.004	≥0.580	PASS
2DH5	Ant6	Нор	0.996	≥0.847	PASS
3DH5	Ant6	Нор	1.006	≥0.840	PASS



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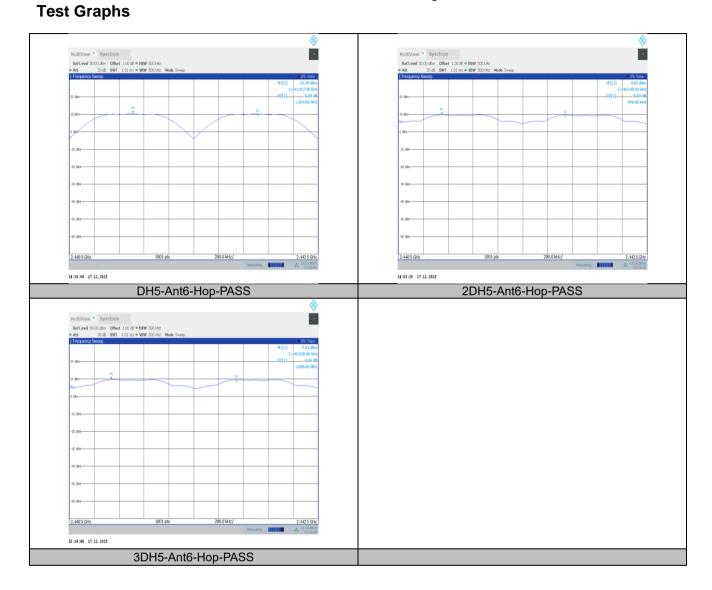
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Time of occupancy **Test Result**

TestMode	Antenna	Hop/No Hop	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant6	Нор	0.360	330	0.119	≤0.4	PASS
DH3	Ant6	Нор	1.610	170	0.274	≤0.4	PASS
DH5	Ant6	Нор	2.860	110	0.315	≤0.4	PASS
2DH1	Ant6	Нор	0.370	320	0.118	≤0.4	PASS
2DH3	Ant6	Нор	1.620	160	0.259	≤0.4	PASS
2DH5	Ant6	Нор	2.870	120	0.344	≤0.4	PASS
3DH1	Ant6	Нор	0.370	300	0.111	≤0.4	PASS
3DH3	Ant6	Нор	1.620	140	0.227	≤0.4	PASS
3DH5	Ant6	Нор	2.870	90	0.258	≤0.4	PASS



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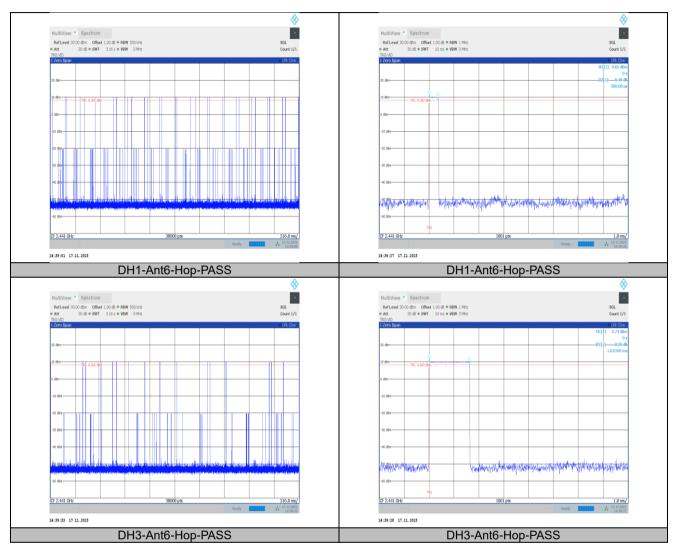
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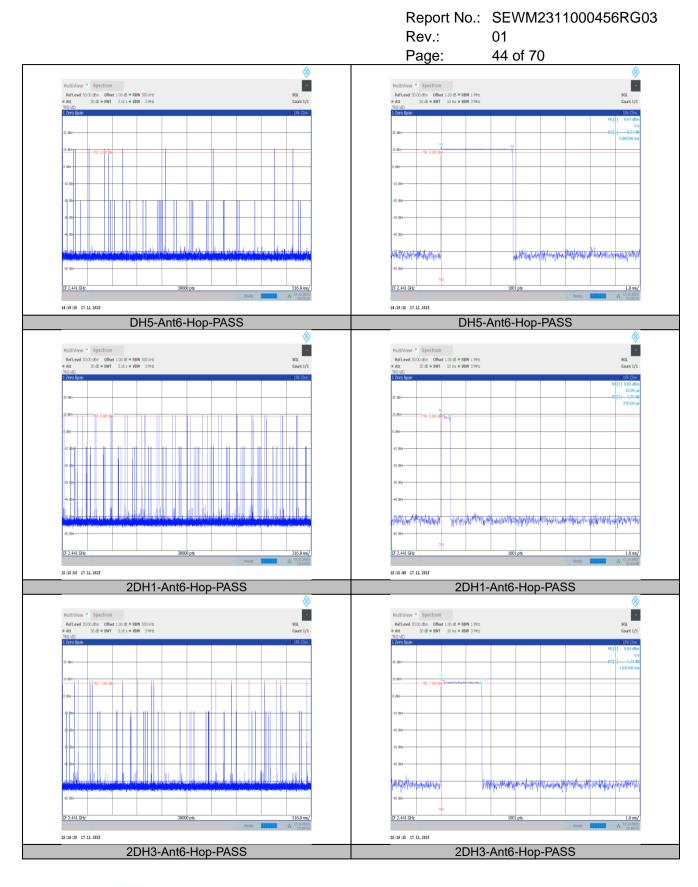


Test Graphs



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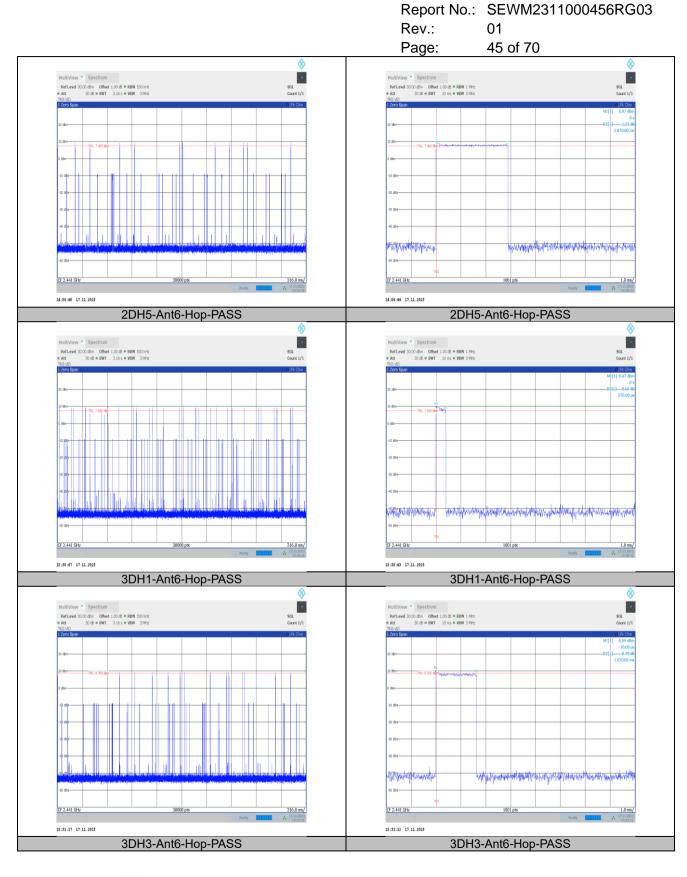
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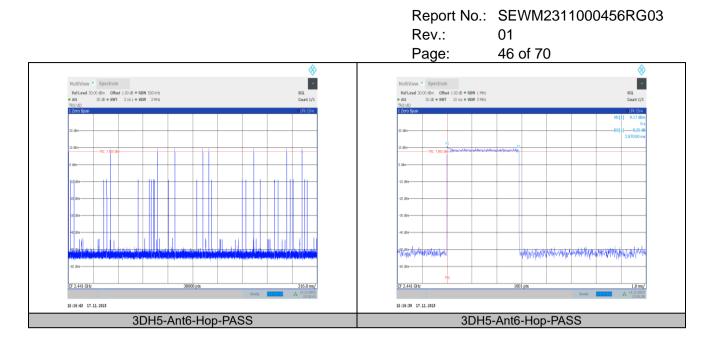
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Number of hopping channels Test Result

TestMode	Antenna	Hop/No Hop	Result[Num]	Limit[Num]	Verdict
DH5	Ant6	Нор	79	≥15	PASS
2DH5	Ant6	Нор	79	≥15	PASS
3DH5	Ant6	Нор	79	≥15	PASS



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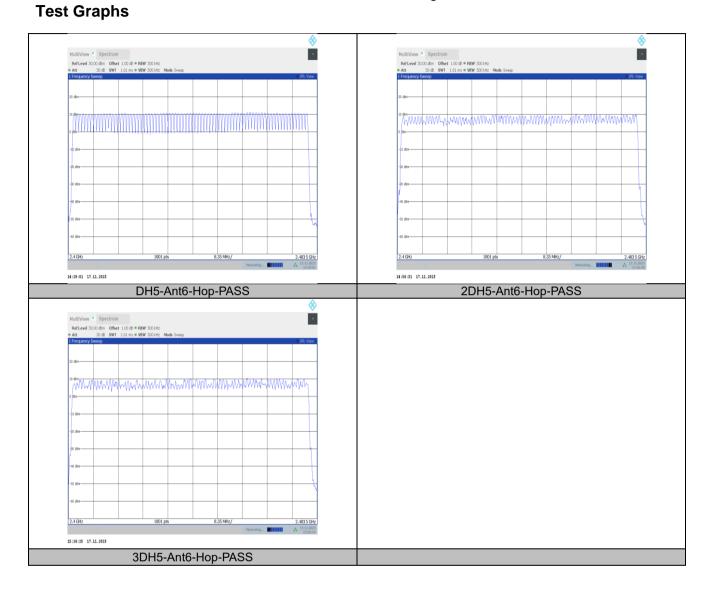
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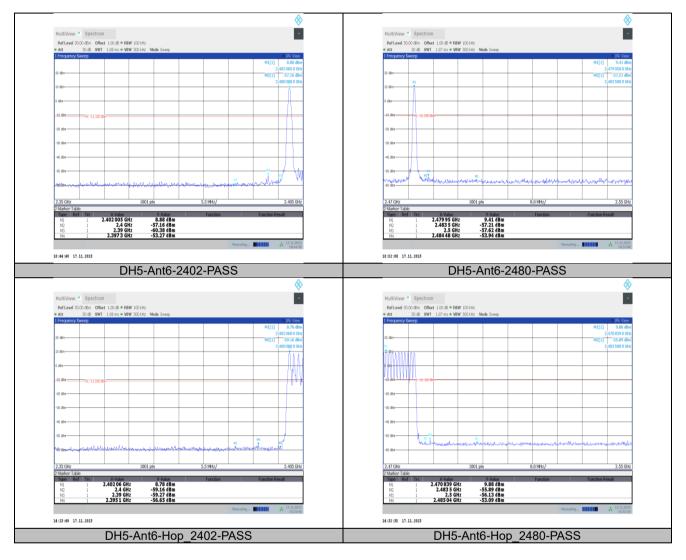


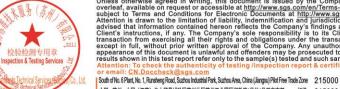
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Report No.: SEWM2311000456RG03 Rev.: 01 49 of 70 Page:

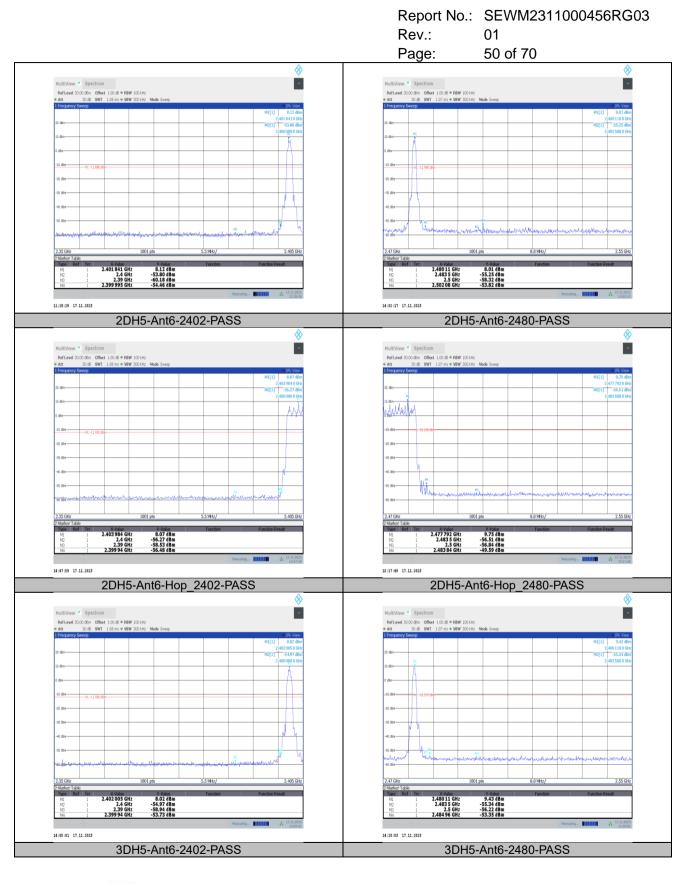
Band edge measurements Test Graphs





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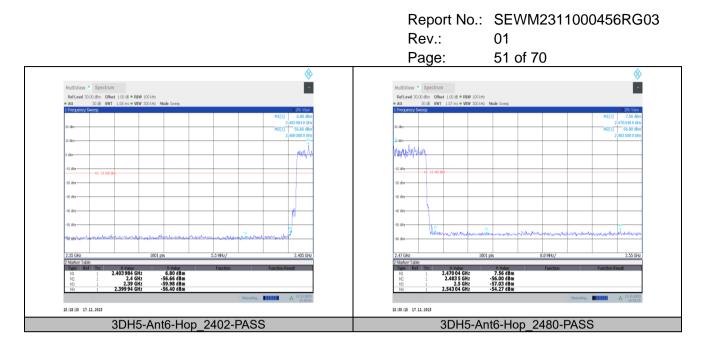
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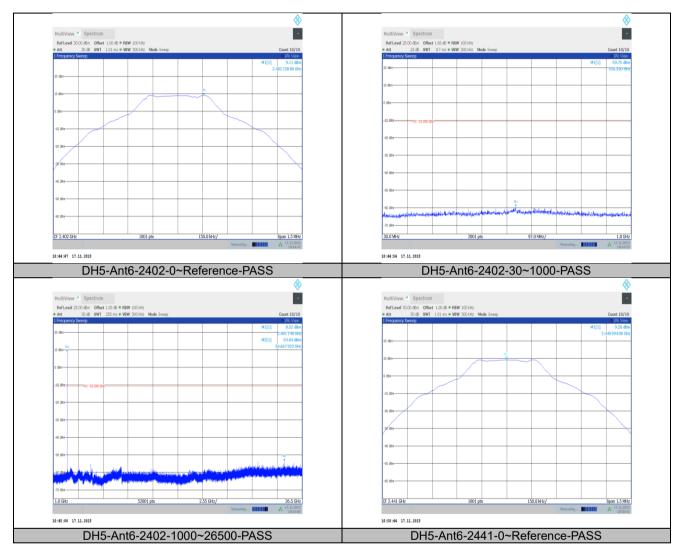
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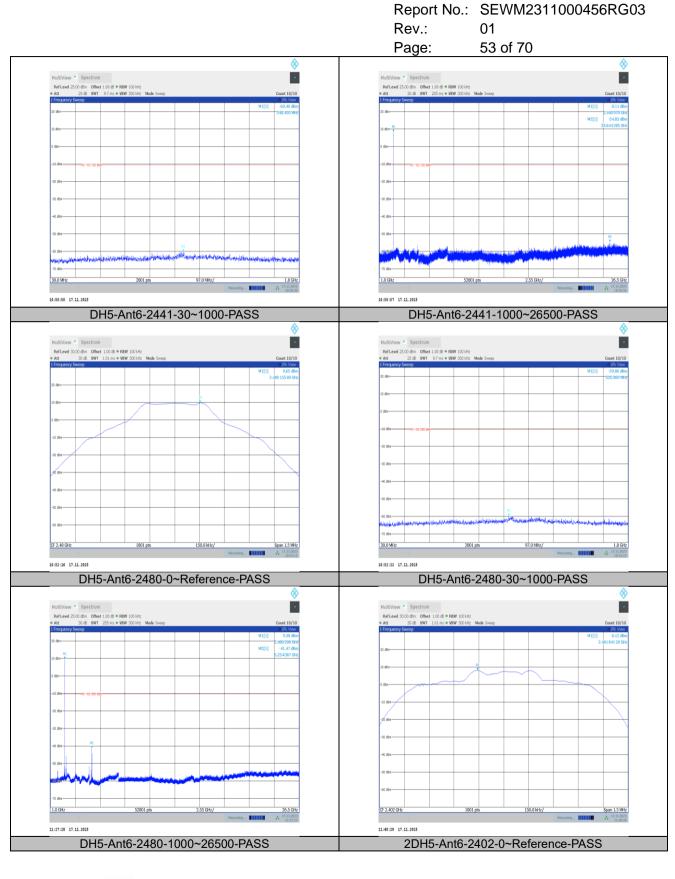
Conducted Spurious Emission Test Graphs





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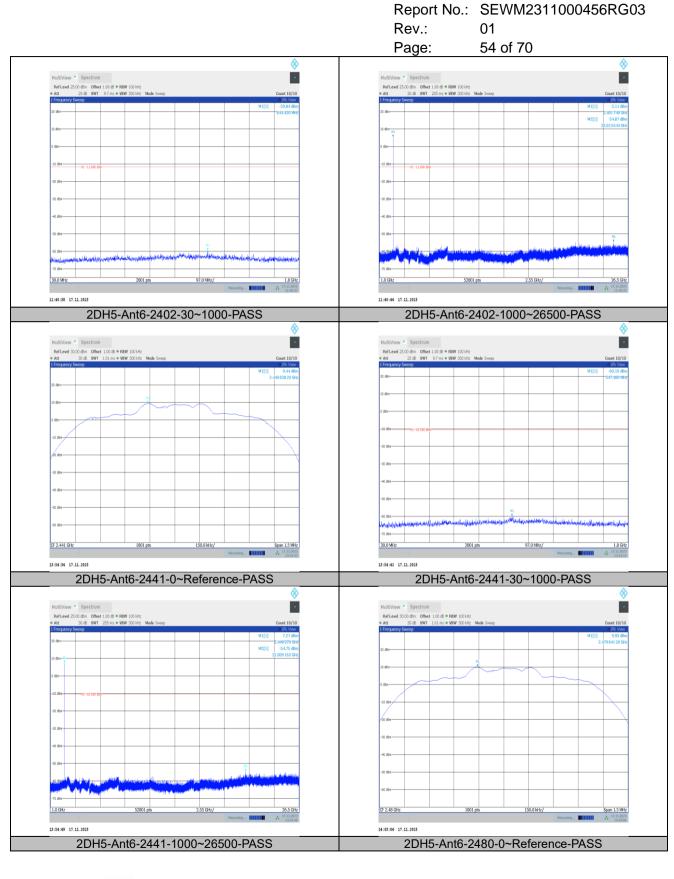
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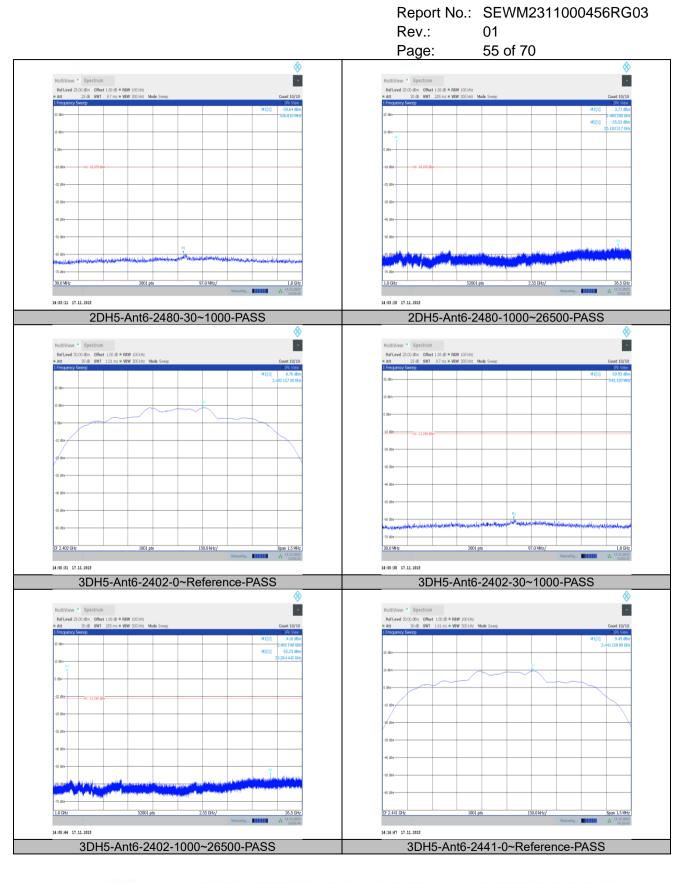
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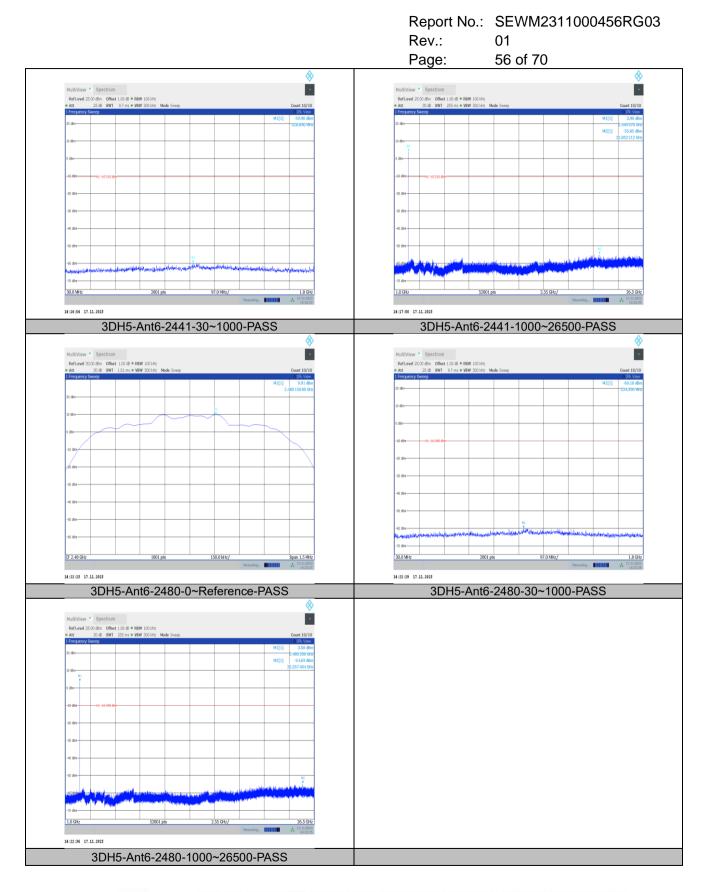
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant6	2402	2.88	3.75	76.80	1.15
2DH5	Ant6	2402	2.89	3.76	76.86	1.14
3DH5	Ant6	2402	2.89	3.75	77.07	1.13

Note:

Duty cycle = on time / 100ms = 2 * 2.88 / 100 = 5.76% Duty cycle Correction factor = 20*log(Duty cycle) = -24.79dB



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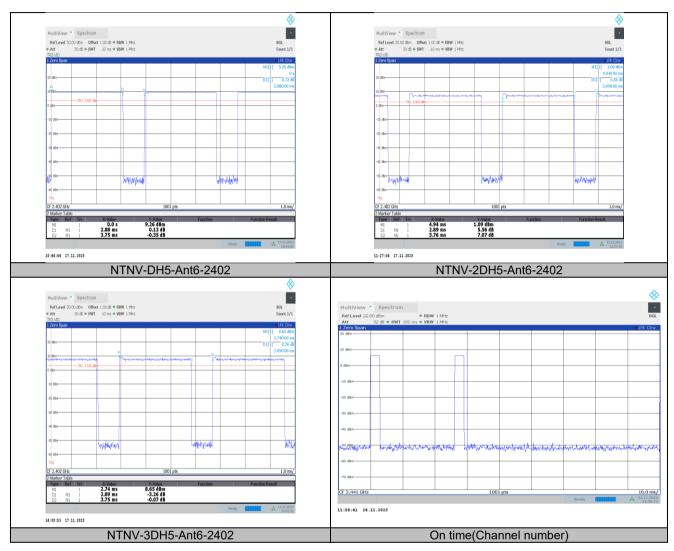
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Test Graphs



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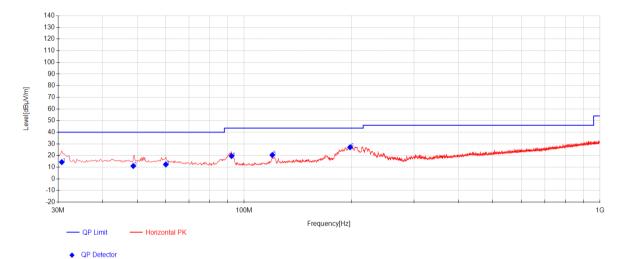
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: GFSK_Channel 78

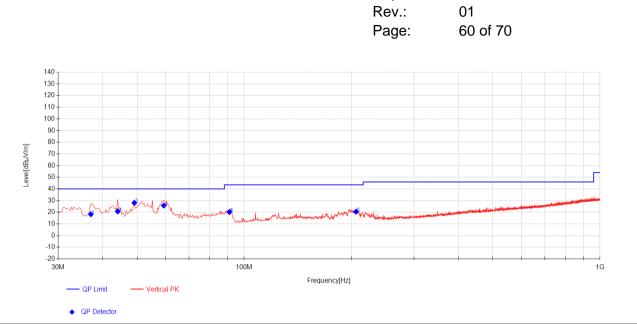


Data	List							
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	30.7275	30.39	-34.01	17.99	14.37	40.00	25.63	Horizontal
2	48.7978	25.75	-33.98	19.25	11.02	40.00	28.98	Horizontal
3	60.2449	27.50	-33.86	18.75	12.39	40.00	27.61	Horizontal
4	92.1460	38.28	-33.55	14.87	19.60	43.50	23.90	Horizontal
5	120.0022	36.48	-33.34	17.30	20.44	43.50	23.06	Horizontal
6	198.4839	44.50	-32.74	15.33	27.09	43.50	16.41	Horizontal



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Data	a List							
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	37.0797	33.33	-34.00	18.99	18.32	40.00	21.68	Vertical
2	44.1383	35.24	-33.99	19.50	20.75	40.00	19.25	Vertical
3	49.1454	42.86	-33.98	19.24	28.12	40.00	11.88	Vertical
4	59.4470	40.84	-33.86	18.82	25.80	40.00	14.20	Vertical
5	90.8997	38.99	-33.56	14.79	20.22	43.50	23.28	Vertical
6	206.1707	37.61	-32.66	15.55	20.50	43.50	23.00	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(dBµV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

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

Margin = Limit(dBµV/m) – Value(dBµV/m)

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



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Report No.: SEWM2311000456RG03

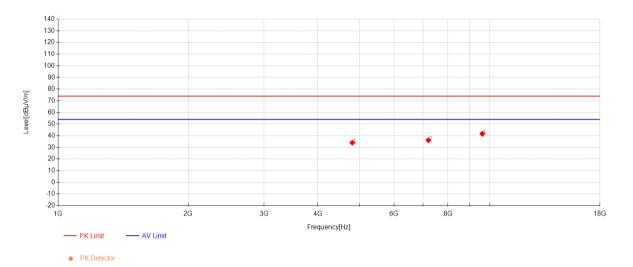
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Transmitter emission Above 1GHz

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	42.75	32.77	-41.49	34.03	74.00	39.97	Horizontal				
	4804	-	-	-	9.24	54.00	44.76	-				
2	7206	37.90	36.25	-38.02	36.13	74.00	37.87	Horizontal				
	7206	-	-	-	11.34	54.00	42.66	-				
3	9608	37.33	37.78	-33.45	41.66	74.00	32.34	Horizontal				
	9608	-	-	-	16.87	54.00	37.13	-				



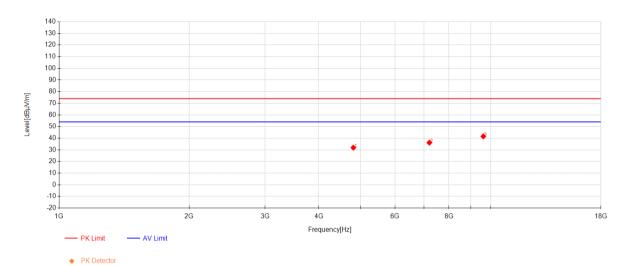
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GFSK_Channel 00

Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	4804	40.62	32.77	-41.49	31.90	74.00	42.10	Vertical				
	4804	-	-	-	7.11	54.00	46.89	-				
2	7206	37.95	36.25	-38.02	36.18	74.00	37.82	Vertical				
	7206	-	-	-	11.39	54.00	42.61	-				
3	9608	37.23	37.78	-33.45	41.56	74.00	32.44	Vertical				
	9608	-	-	-	16.77	54.00	37.23	-				



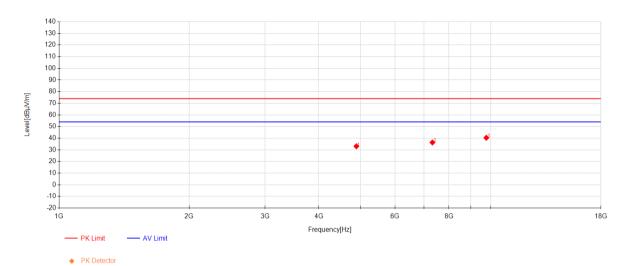
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GFSK_Channel 39

Data	List							
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4882	41.38	32.94	-41.25	33.07	74.00	40.93	Horizontal
	4882	-	-	-	8.28	54.00	45.72	-
2	7323	37.42	36.39	-37.48	36.33	74.00	37.67	Horizontal
	7323	-	-	-	11.54	54.00	42.46	-
3	9764	35.61	37.83	-33.07	40.37	74.00	33.63	Horizontal
	9764	-	-	-	15.58	54.00	38.42	-



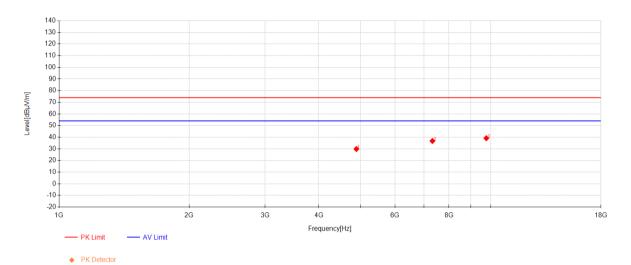
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GFSK_Channel 39

Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	4882	38.18	32.94	-41.25	29.87	74.00	44.13	Vertical				
	4882	-	-	-	5.08	54.00	48.92	-				
2	7323	37.87	36.39	-37.48	36.78	74.00	37.22	Vertical				
	7323	-	-	-	11.99	54.00	42.01	-				
3	9764	34.37	37.83	-33.07	39.13	74.00	34.87	Vertical				
	9764	-	-	-	14.34	54.00	39.66	-				



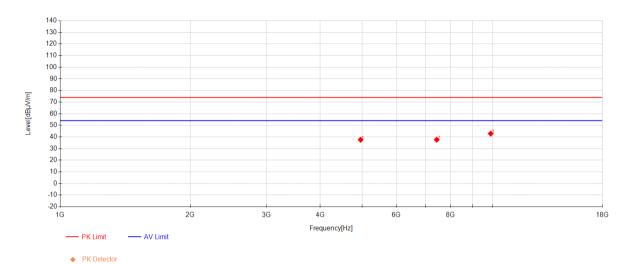
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GFSK_Channel 78

Data	Data List							
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4960	45.85	33.11	-41.36	37.60	74.00	36.40	Horizontal
	4960	-	-	-	12.81	54.00	41.19	-
2	7440	38.98	36.53	-37.85	37.66	74.00	36.34	Horizontal
	7440	-	-	-	12.87	54.00	41.13	-
3	9920	37.55	37.88	-32.55	42.88	74.00	31.12	Horizontal
	9920	-	-	-	18.09	54.00	35.91	-



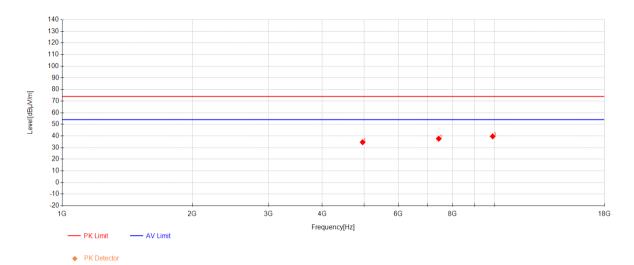
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GFSK_Channel 78

Data	Data List							
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4960	42.87	33.11	-41.36	34.62	74.00	39.38	Vertical
	4960	-	-	-	9.83	54.00	44.17	-
2	7440	38.97	36.53	-37.85	37.65	74.00	36.35	Vertical
	7440	-	-	-	12.86	54.00	41.14	-
3	9920	34.31	37.88	-32.55	39.64	74.00	34.36	Vertical
	9920	-	-	-	14.85	54.00	39.15	-

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(dBµV/m) – Level(dBµV/m)

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



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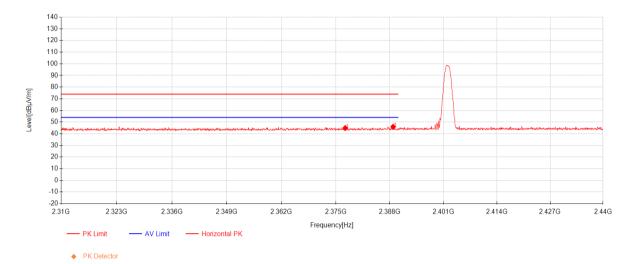
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Restricted bands around fundamental frequency

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	2377.2758	39.92	27.13	-22.15	44.90	74.00	29.10	Horizontal
	2377.2758	-	-	-	20.11	54.00	33.89	-
2	2388.8063	40.95	27.16	-22.11	45.99	74.00	28.01	Horizontal
	2388.8063	-	-	-	21.20	54.00	32.80	-



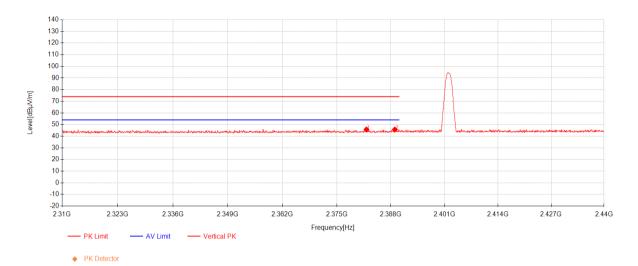
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GFSK_Channel 00

Data	Data List							
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2382.1307	40.77	27.14	-22.14	45.78	74.00	28.22	Vertical
	2382.1307	-	-	-	20.99	54.00	33.01	-
2	2388.9797	40.74	27.16	-22.11	45.78	74.00	28.22	Vertical
	2388.9797	-	-	-	20.99	54.00	33.01	-



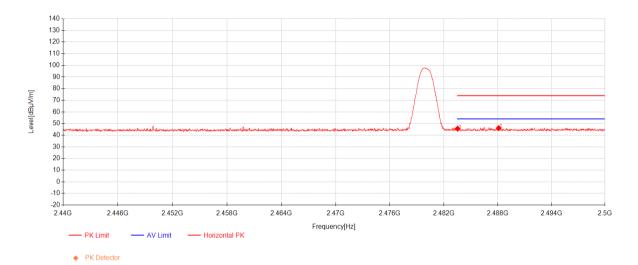
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Data	Data List							
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.5345	40.17	27.36	-21.91	45.62	74.00	28.38	Horizontal
	2483.5345	-	-	-	20.83	54.00	33.17	-
2	2488.116	40.62	27.37	-21.90	46.09	74.00	27.91	Horizontal
	2488.116	-	-	-	21.30	54.00	32.70	-



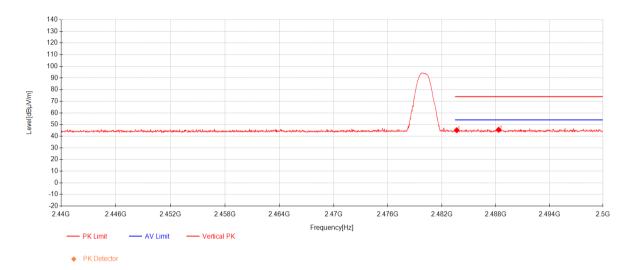
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GFSK_Channel 78

Data	Data List							
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.6546	39.71	27.36	-21.91	45.16	74.00	28.84	Vertical
	2483.6546	-	-	-	20.37	54.00	33.63	-
2	2488.3361	40.09	27.37	-21.90	45.56	74.00	28.44	Vertical
	2488.3361	-	-	-	20.77	54.00	33.23	-

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(dBµV/m) – Level(dBµV/m)

---End of Report---



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