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TEST REPORT

Application No.:	SEWM2308000314RG
Applicant:	Shenzhen Tinno Mobile Technology Corp.
Address of Applicant:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC
Manufacturer:	Shenzhen Tinno Mobile Technology Corp.
Address of Manufacturer:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC
EUT Description:	Smart Phone
Model No.:	Celero3 5G
FCC ID:	XD6U653DS
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C
Date of Receipt:	2023/08/19
Date of Test:	2023/08/22 to 2023/10/12
Date of Issue:	2023/10/13
Test Result :	PASS *

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

Authorized Signature:

лeн

Well Wei Wireless Laboratory Manager



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1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2023/10/13		Original

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



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2 Test Summary

SG

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:	Shenzhen Tinno Mobile Technology Corp.		
Address of Applicant:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzher PRC		
Manufacturer:	Shenzhen Tinno Mobile Technology Corp.		
Address of Manufacturer:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC		

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

EUT Description:	Smart Phone	Smart Phone		
Model No.:	Celero3 5G	Celero3 5G		
Hardware Version:	V1.0			
Software Version:	N/A			
Power Supply:	Lithium Battery (3.85V)			
IMEI:	RF Conducted	860284060002432		
IIVI⊏I.	RSE & AC power line	860284060010906		
Operation Frequency:	-fc = "Operating Freque	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 V5.1	Bluetooth V5.1		
Modulation Technique:	Frequency Hopping Spr	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, π/4DQPSK, 8DF	GFSK, π/4DQPSK, 8DPSK		
Number of Channel:	79	79		
Hopping Channel Type:	Adaptive Frequency Ho	pping systems		
Antenna Type:	Fixed Internal Antenna	Fixed Internal Antenna		
	1.0dBi (Ant7)			
Antenna Gain:	Note: The antenna gain are do by the manufacturer.	The antenna gain are derived from the gain information report provided		
RF Cable:	1.0dB	1.0dB		
Remark:				

Remark:

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	Report No.: SEWM2308000314RG03 Rev.: 01 Page: 7 of 70				14RG03		
		Opera	ation Frequen				
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 3.85			
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 Fixed Internal Antenna and no consideration of replacement. The best case gain of the antenna is 1.0dBi (Ant7). *

*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.

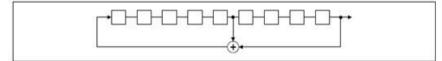
> Number of shift register stages: 9

> 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 3	111	
	1 3	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

S

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	lkHz			
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 performed 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 throu- tion Network) which provides are cables of all other units of and LISN 2, which was bonded as the LISN 1 for the unit be to strip was used to connect me the rating of the LISN was no splaced upon a non-metallic ne. And for floor-standing arrant and for floor-standing arrant and for floor-standing arrant that ground reference plane. The was bonded to the LISN 1 was placed 0.8 m from onded to a ground reference e ground reference plane. The the LISN 1 and the EUT. All coment was at least 0.8 m from aximum emission, the relative conded to measurement.	igh a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear the EUT were I to the ground reference being measured. A ultiple power cables to a bit 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 other units of the EUT in the LISN 2.		



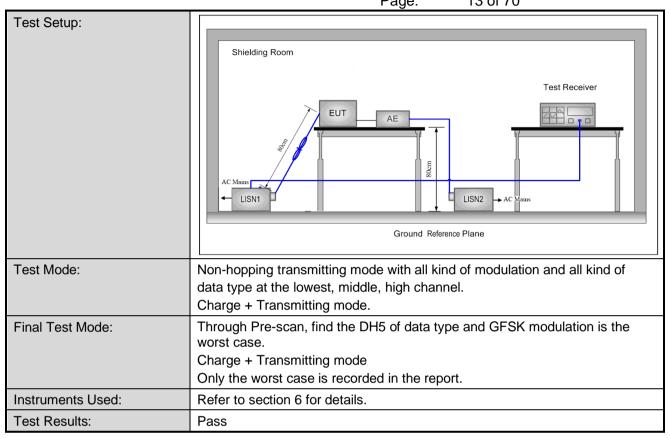
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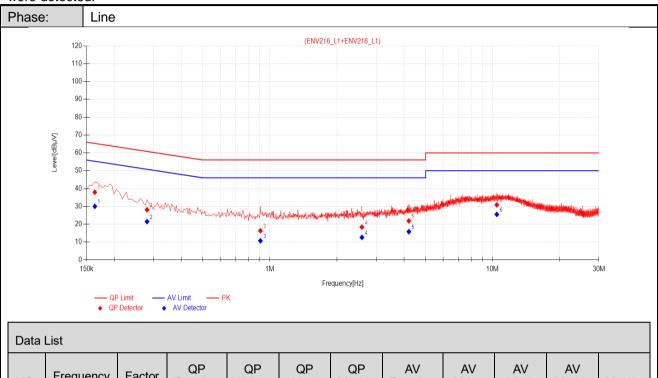
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Measurement Data

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	0.1635	11.80	26.12	37.92	65.28	27.36	18.20	30.00	55.28	25.28	PASS
2	0.2805	11.62	16.45	28.07	60.80	32.73	9.86	21.48	50.80	29.32	PASS
3	0.9060	11.71	4.59	16.30	56.00	39.70	-1.03	10.68	46.00	35.32	PASS
4	2.5890	11.73	6.65	18.38	56.00	37.62	0.88	12.61	46.00	33.39	PASS
5	4.2045	11.77	10.06	21.83	56.00	34.17	4.06	15.83	46.00	30.17	PASS
6	10.4415	11.88	18.94	30.82	60.00	29.18	13.61	25.49	50.00	24.51	PASS
Remai	rk.										

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dBµV] - Value[dBµV]



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NO. 1 2 3	List Frequ [MH 0.17 0.38 0.85	50k ency 1z] 770 385 565 760	Factor [dB] 11.73 11.61 11.71	AV Detector QP Reading [dBµV] 31.69 15.48 6.75	QP Value [dBμV] 43.42 27.09 18.46	QP Limit [dBµV] 64.63 58.10 56.00	QP Margin [dB] 21.21 31.01 37.54	AV Reading [dBμV] 26.70 10.52 1.45	AV Value [dBµV] 38.43 22.13 13.16	ΑV Limit [dBμV] 54.63 48.10 46.00	AV Margin [dB] 16.20 25.97 32.84	Verdic PASS PASS PASS

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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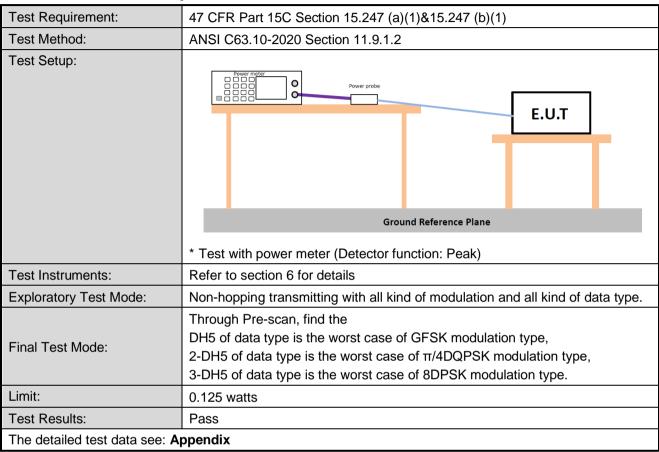
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4.4 Conducted Output Power





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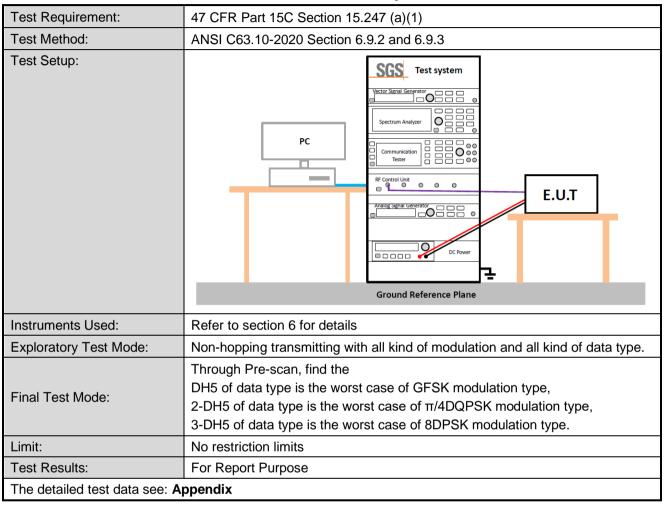
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4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth





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Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) **Test Method:** ANSI C63.10-2020 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 Gene 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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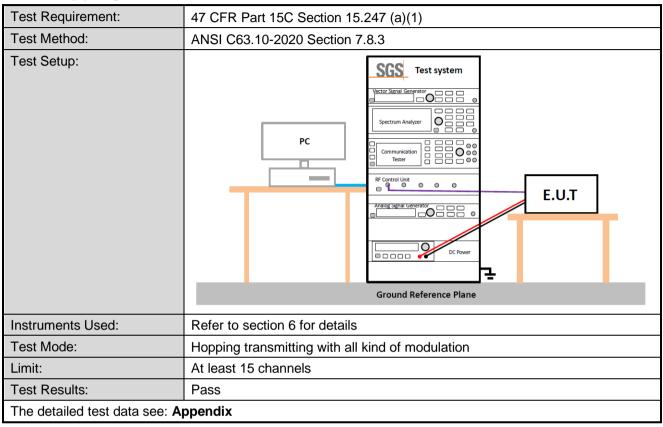
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4.7 Hopping Channel Number





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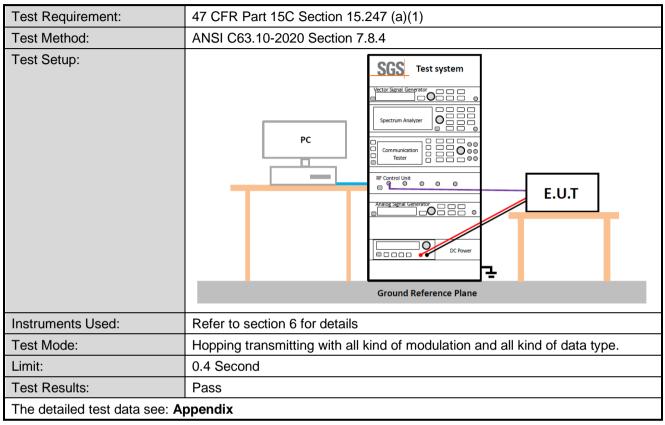
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4.8 Dwell Time





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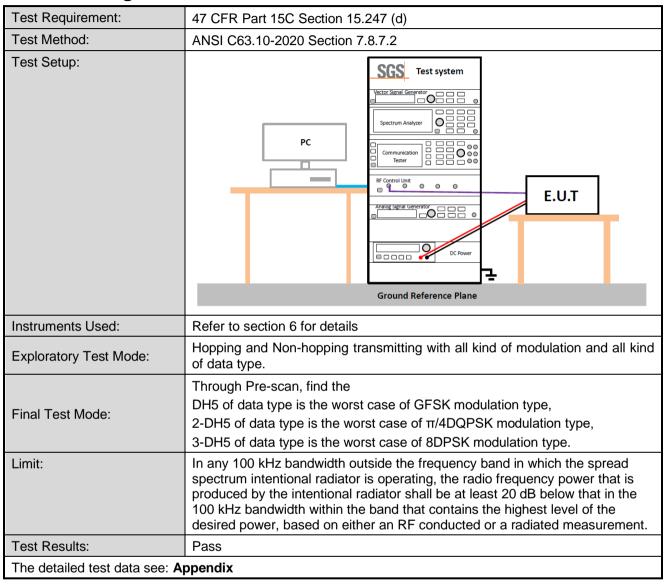
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4.9 Band-edge for RF Conducted Emissions





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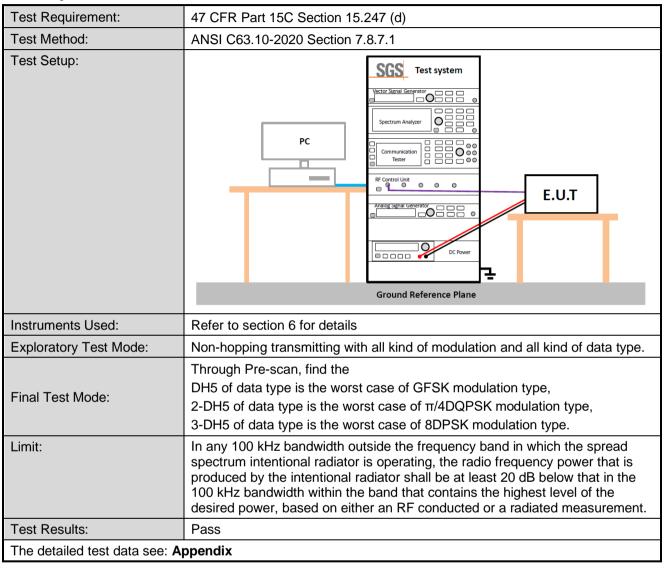
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4.10 Spurious RF Conducted Emissions





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 Report No.:
 SEWM2308000314RG03

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 01

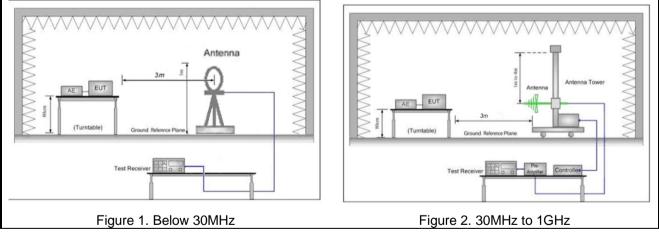
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4.11 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10-2020 Section	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 (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 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:

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	Im or 3m F Hurn Antenna Tower 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 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.
	 i. 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.
	 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 = Reak & Average & Quasi peak
	 Detector = Peak & Average & Quasi-peak Trace mode = max hold
	Measurements Below 1000MHz



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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 ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000M Use duty cycle correction factor method Duty cycle = On time / 100 milliseconds On time = N1*L1 + N2*L2+NN-1*LN-1 + Where N1 is number of type 1 pulese, I Average Value = Peak Value +20*log(E 	Hz d per 15.35(c). s Nぃ*Lぃ ₋ı is length of t	ype 1 pulses, etc.
Exploratory Test Mode:	Non-hopping transmitting mode with al data type Charge + Transmitting mode.	kind of modul	ation and all kind of
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation Pretest the EUT at Charge + Transmitt For below 1GHz part, through pre-scar recorded in the report.	ing mode	
Instruments Used:	Refer to section 6 for details		
Test Results:	Pass		
The detailed test dat	a see: Appendix		



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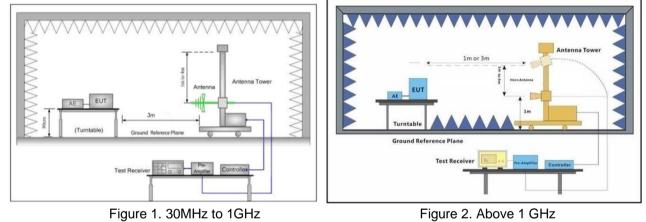
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4.12Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10-2020 Section	6.10.5			
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Cham	iber)		
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		
		74.0	Peak Value		

Test Setup:

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F	Figure 1. 30	MHz to 1GHz	Figure 2. Above 1 GHz
Test Procedure:	a.	above the ground at a	EUT was placed on the top of a rotating table 0.8 meters a 3 or 10 meter semi-anechoic camber. The table was o determine the position of the highest radiation.
	b.	meters above the gro	EUT was placed on the top of a rotating table 1.5 und at a 3 meter semi-anechoic camber. The table was o determine the position of the highest radiation.
	C.		10 meters away from the interference-receiving nounted on the top of a variable-height antenna tower.
	d.	to determine the max	varied from one meter to four meters above the ground mum value of the field strength. Both horizontal and of the antenna are set to make the measurement.
	e.	then the antenna was	mission, the EUT was arranged to its worst case and tuned to heights from 1 meter to 4 meters and the rned from 0 degrees to 360 degrees to find the
	f.	The test-receiver syst Bandwidth with Maxir	em was set to Peak Detect Function and Specified num Hold Mode.
	g.	Place a marker at the	end of the restricted band closest to the transmit



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Test Configuration:	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. Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz Use duty cycle correction factor method per 15.35(c). Duty cycle = On time / 100 milliseconds On time = N ₁ *L ₁ + N ₂ *L ₂ +N _{N-1} *L _{N-1} + N _N *L _N Where N ₁ is number of type 1 pulses, etc.
Exploratory Test Mode:	Average Value = Peak Value +20*log(Duty cycle). Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.
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	
The detailed test data see	



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

No.	Item Measurement Uncertai			
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)		
8		± 3.13dB (9k -30MHz)		
	Radiated Emission	± 4.8dB (30M -1GHz)		
		± 4.8dB (1GHz to 18GHz)		
		± 4.80dB (Above 18GHz)		
Pomark:				

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		
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		
Signal Generator	ROHDE&SCHWARZ	SMM100A	SN: 101716	2023/02/22	2024/02/21		

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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Rev.: 01 Page: 30 of 70 **RSE Test System** Cal Date Cal Due Date Equipment Manufacturer Model No. **Inventory No.** (yyyy/mm/dd) (yyyy/mm/dd) Semi-Anechoic N/A 2021/05/08 2024/05/07 Brilliant-emc SUWI-04-02-01 Chamber Temperature TH101B and humidity MingGao SUWI-01-01-05 2023/02/07 2024/02/06 meter Signal Analyzer **KEYSIGHT** N9020A SUWI-01-02-05 2022/11/23 2023/11/22 Test receiver ROHDE&SCHWARZ ESR7 SUWI-01-10-01 2023/02/08 2024/02/07 DC Power HYELEC HY3005B SUWI-01-18-01 2023/02/06 2024/02/05 Supply SCHWRZBECK Receiving MESS-**VULB 9163** SUWI-01-11-01 2023/05/13 2024/05/12 antenna **ELEKTRONIK** SCHWRZBECK Receiving MESS-**BBHA 9120D** SUWI-01-11-02 2023/05/13 2024/05/12 antenna **ELEKTRONIK** SCHWRZBECK Receiving **BBHA 9170** SUWI-01-11-03 2023/05/12 2024/05/11 MESSantenna ELEKTRONIK SCHWRZBECK Active Loop **FMZB 1519B** SUWI-01-21-01 2023/05/13 2024/05/12 MESS-Antenna **ELEKTRONIK** 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 JS32-RE Measurement Tonscend SUWI-02-09-04 NCR NCR Software 4.0.0.0



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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	Ant7	2402	0.87	2401.54	2402.41	
DH5	Ant7	2441	0.86	2440.55	2441.41	
DH5	Ant7	2480	0.87	2479.54	2480.41	
2DH5	Ant7	2402	1.32	2401.34	2402.66	For
2DH5	Ant7	2441	1.32	2440.34	2441.66	Report
2DH5	Ant7	2480	1.32	2479.33	2480.66	Purpose
3DH5	Ant7	2402	1.30	2401.35	2402.65	
3DH5	Ant7	2441	1.30	2440.35	2441.65	
3DH5	Ant7	2480	1.30	2479.35	2480.65	



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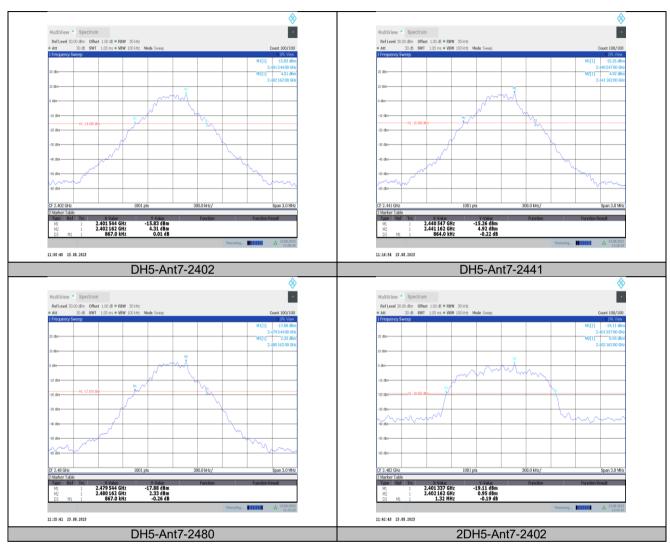
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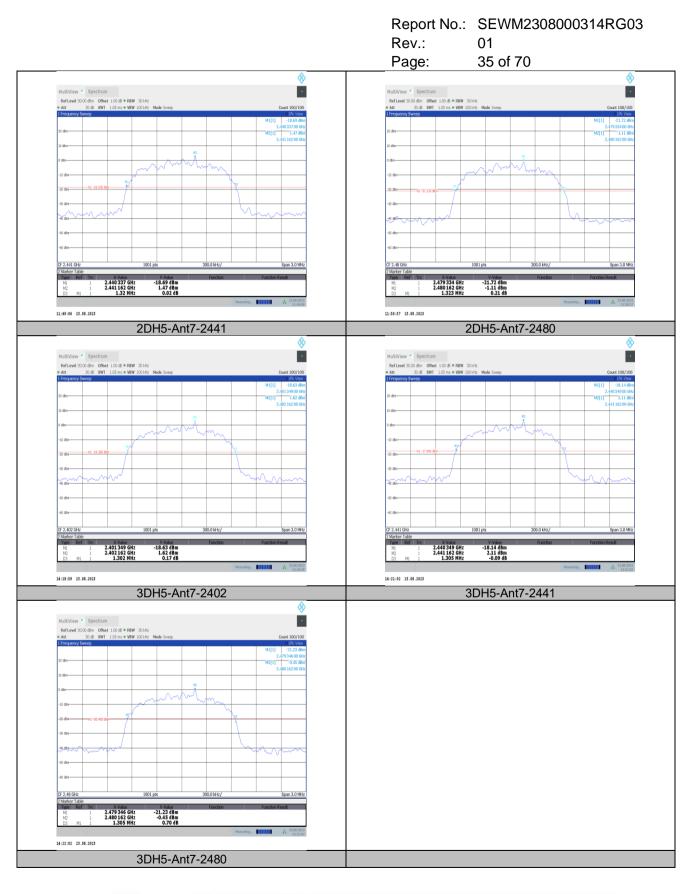


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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant7	2402	0.767	2401.6163	2402.3831	
DH5	Ant7	2441	0.761	2440.6200	2441.3810	
DH5	Ant7	2480	0.758	2479.6196	2480.3775	
2DH5	Ant7	2402	1.182	2401.4059	2402.5882	For
2DH5	Ant7	2441	1.18	2440.4072	2441.5868	Report
2DH5	Ant7	2480	1.176	2479.4063	2480.5825	Purpose
3DH5	Ant7	2402	1.185	2401.4062	2402.5913	
3DH5	Ant7	2441	1.184	2440.4076	2441.5912	
3DH5	Ant7	2480	1.183	2479.4056	2480.5882	



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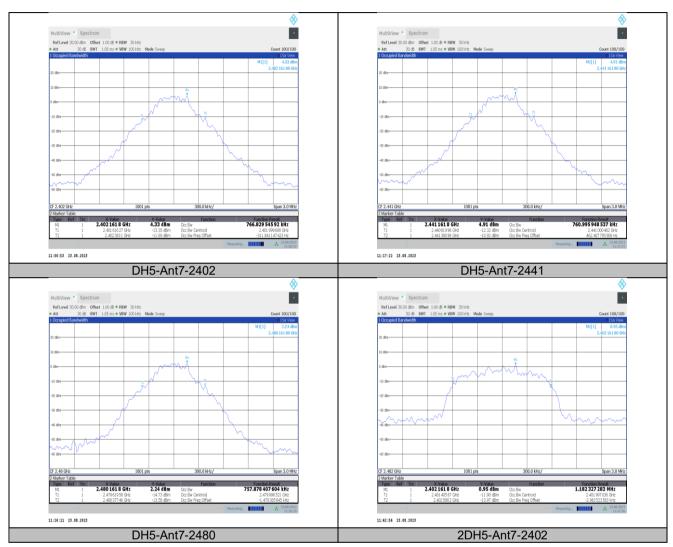
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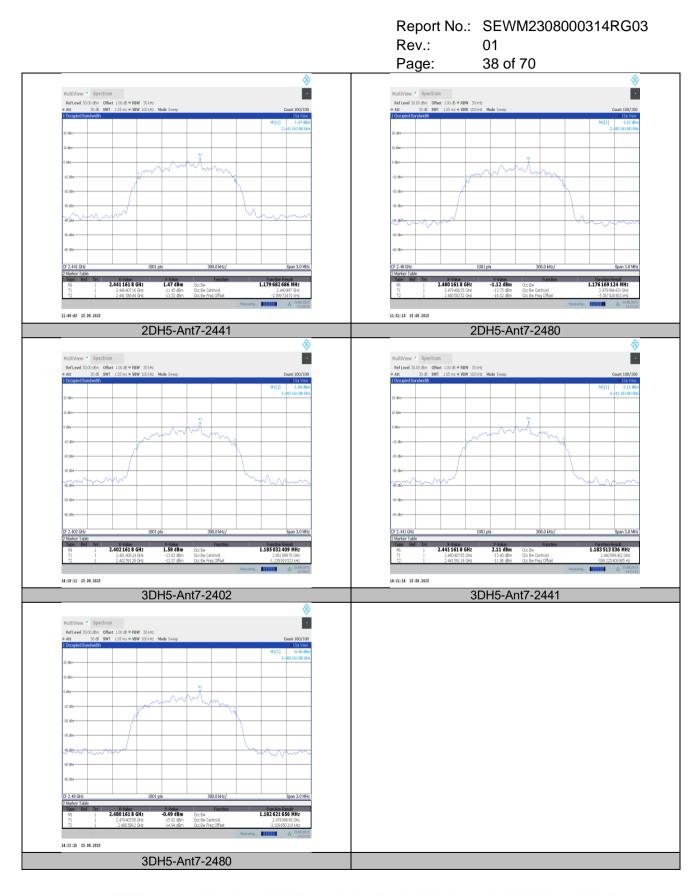
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Maximum conducted output power Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant7	2402	7.39	≤20.97	PASS
DH5	Ant7	2441	7.61	≤20.97	PASS
DH5	Ant7	2480	6.49	≤20.97	PASS
2DH5	Ant7	2402	6.63	≤20.97	PASS
2DH5	Ant7	2441	6.98	≤20.97	PASS
2DH5	Ant7	2480	5.52	≤20.97	PASS
3DH5	Ant7	2402	6.94	≤20.97	PASS
3DH5	Ant7	2441	7.02	≤20.97	PASS
3DH5	Ant7	2480	5.49	≤20.97	PASS



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Carrier frequency separation Test Result

TestMode	Antenna	Hop/No Hop	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant7	Нор	1.000	≥0.580	PASS
2DH5	Ant7	Нор	0.998	≥0.880	PASS
3DH5	Ant7	Нор	1.008	≥0.867	PASS



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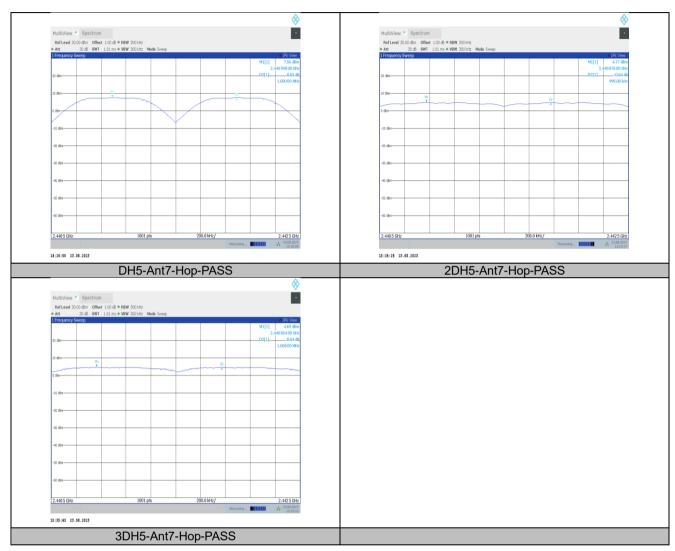
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Time of occupancy Test Result

TestMode	Antenna	Hop/No Hop	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant7	Нор	0.720	330	0.238	≤0.4	PASS
DH3	Ant7	Нор	1.610	150	0.242	≤0.4	PASS
DH5	Ant7	Нор	2.860	130	0.372	≤0.4	PASS
2DH1	Ant7	Нор	0.370	320	0.118	≤0.4	PASS
2DH3	Ant7	Нор	1.620	180	0.292	≤0.4	PASS
2DH5	Ant7	Нор	2.870	70	0.201	≤0.4	PASS
3DH1	Ant7	Нор	0.370	320	0.118	≤0.4	PASS
3DH3	Ant7	Нор	1.620	160	0.259	≤0.4	PASS
3DH5	Ant7	Нор	2.870	100	0.287	≤0.4	PASS



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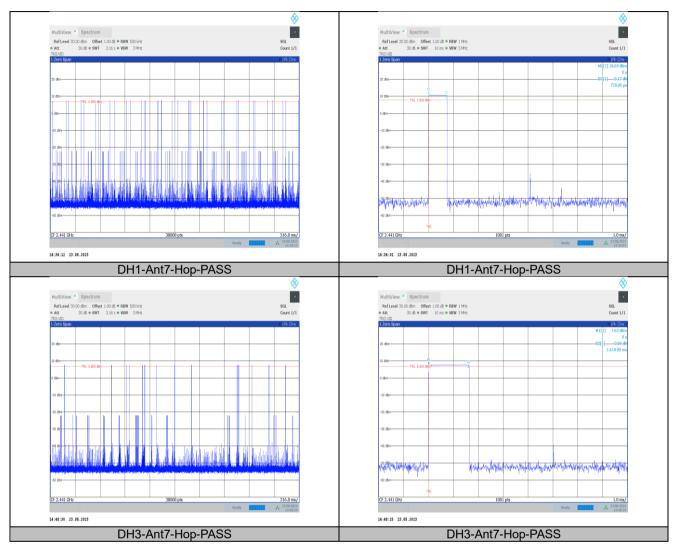
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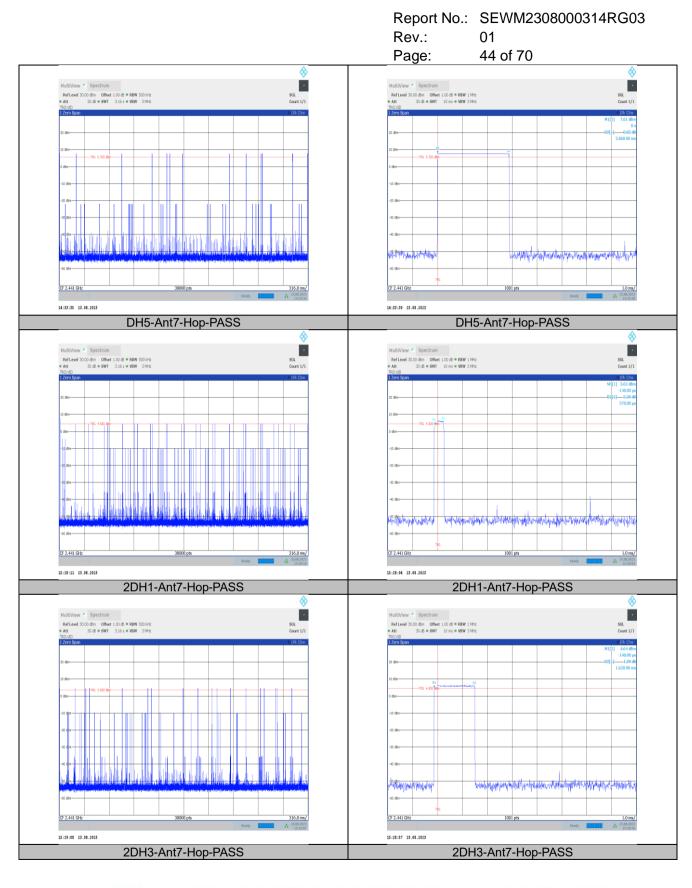
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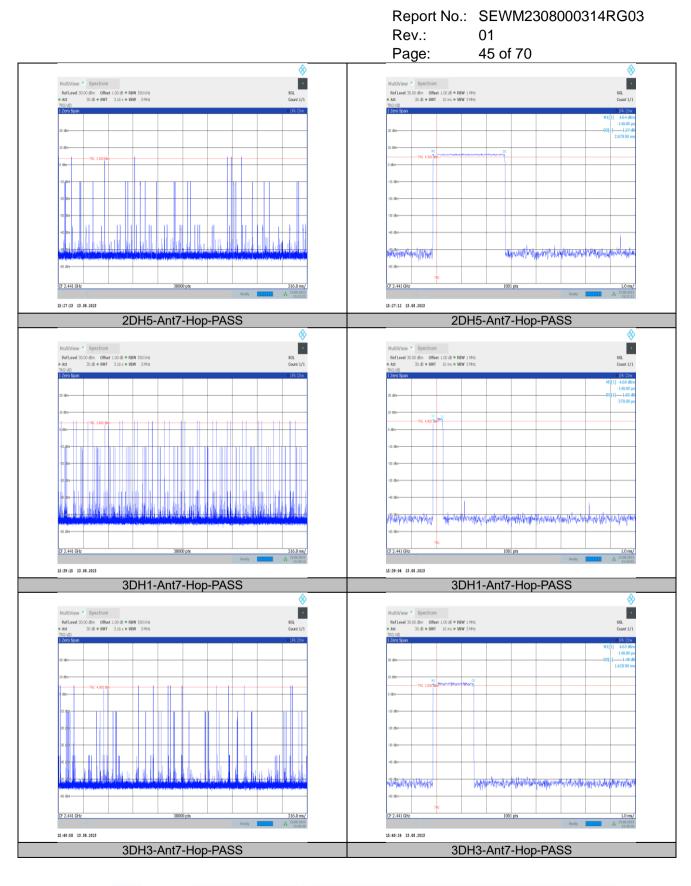
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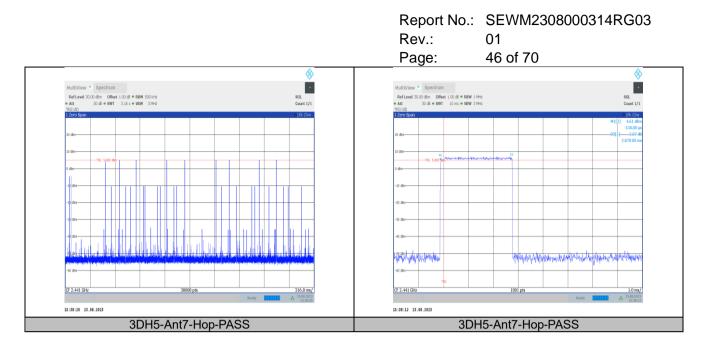
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Number of hopping channels Test Result

TestMode	Antenna	Hop/No Hop	Result[Num]	Limit[Num]	Verdict
DH5	Ant7	Нор	79	≥15	PASS
2DH5	Ant7	Нор	79	≥15	PASS
3DH5	Ant7	Нор	79	≥15	PASS



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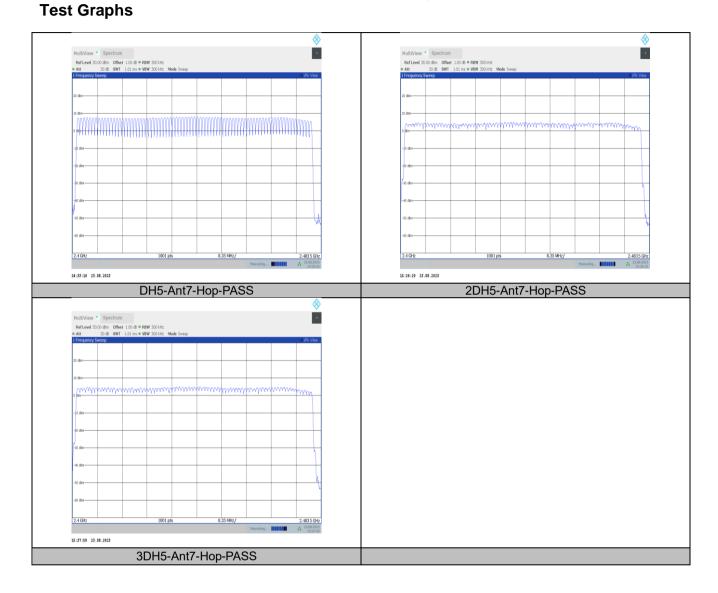
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Band edge measurements Test Graphs

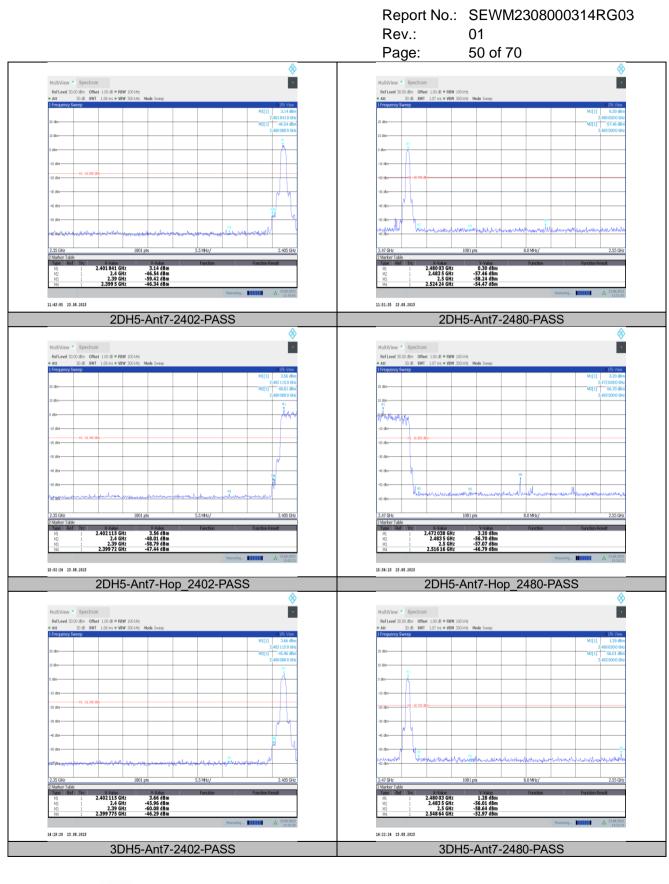




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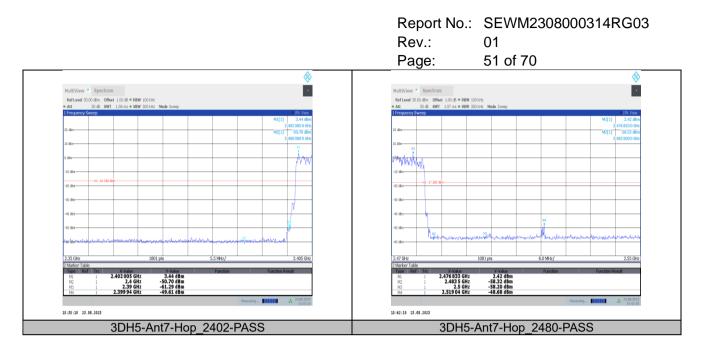
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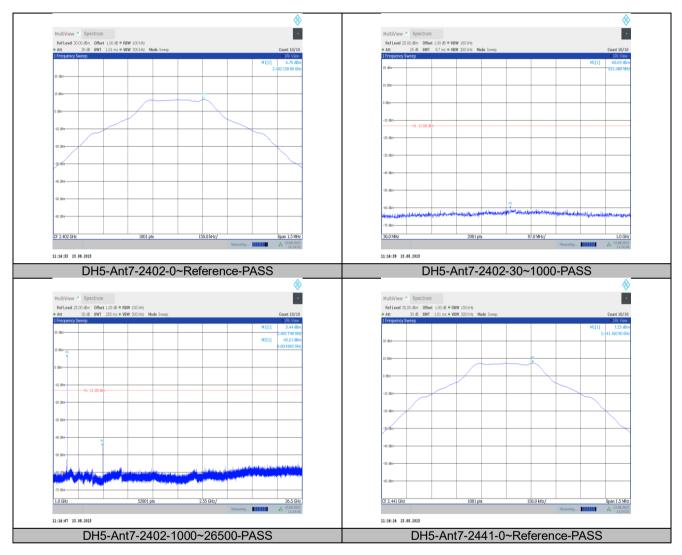
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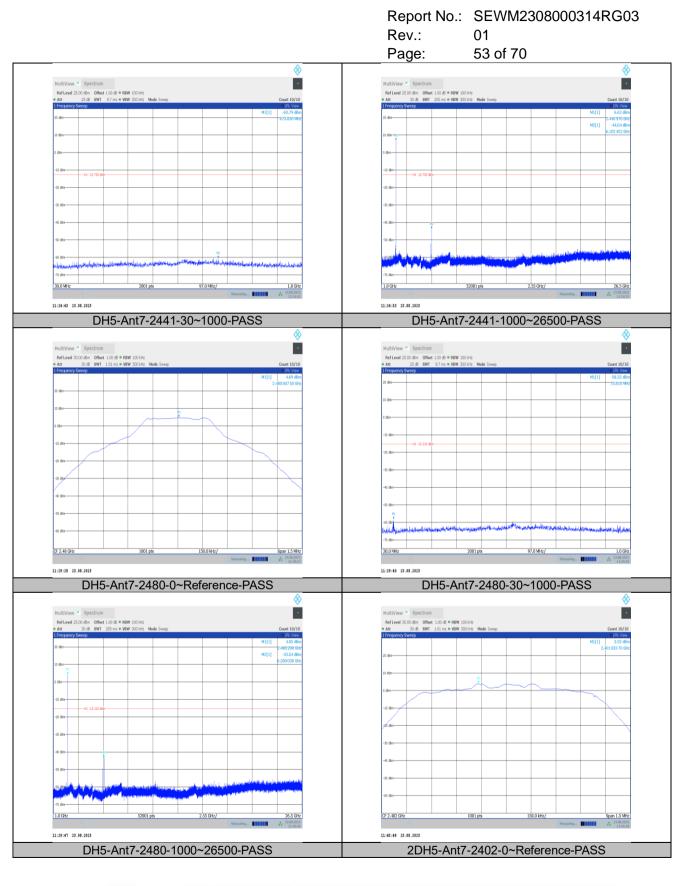
Conducted Spurious Emission Test Graphs





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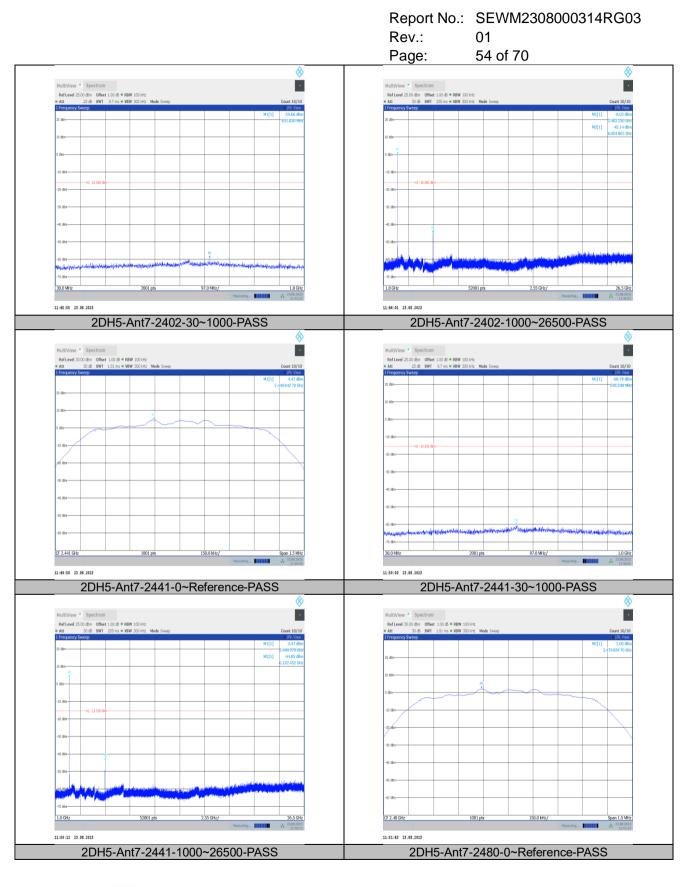
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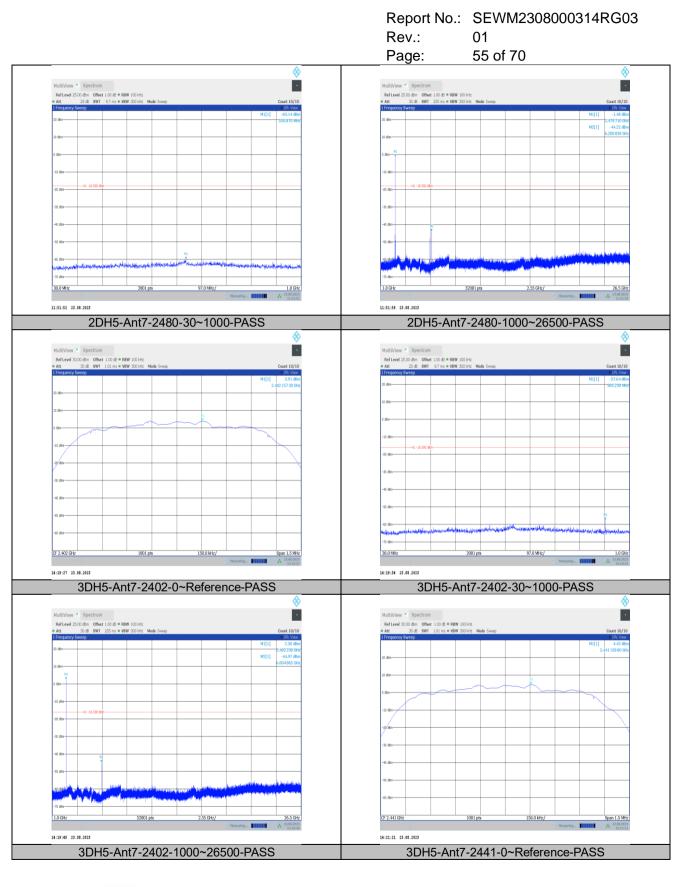
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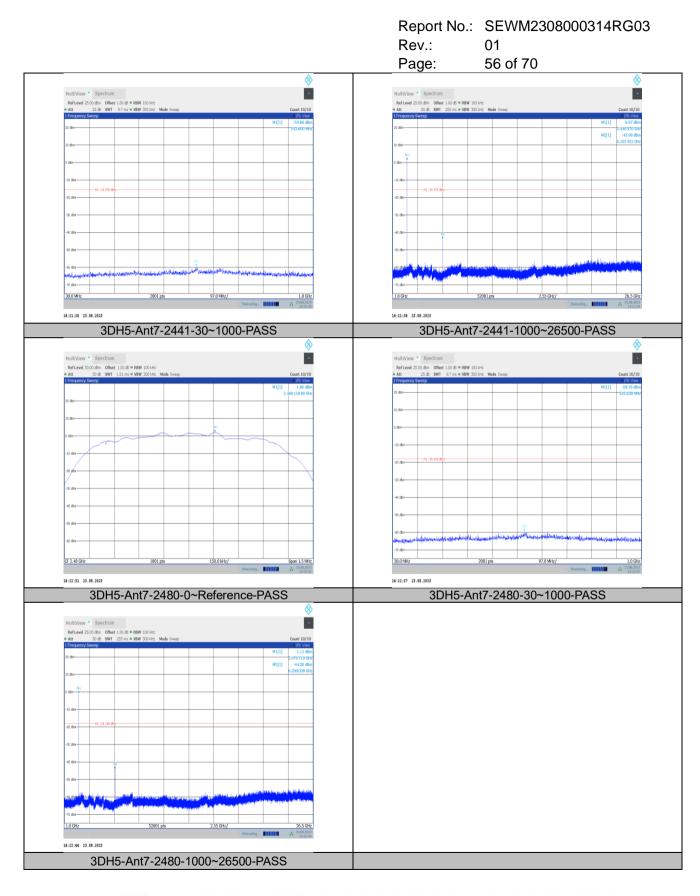


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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant7	2402	2.88	3.75	76.80	1.15
3DH5	Ant7	2402	2.89	3.76	76.86	1.14
2DH5	Ant7	2402	2.88	3.75	76.80	1.15

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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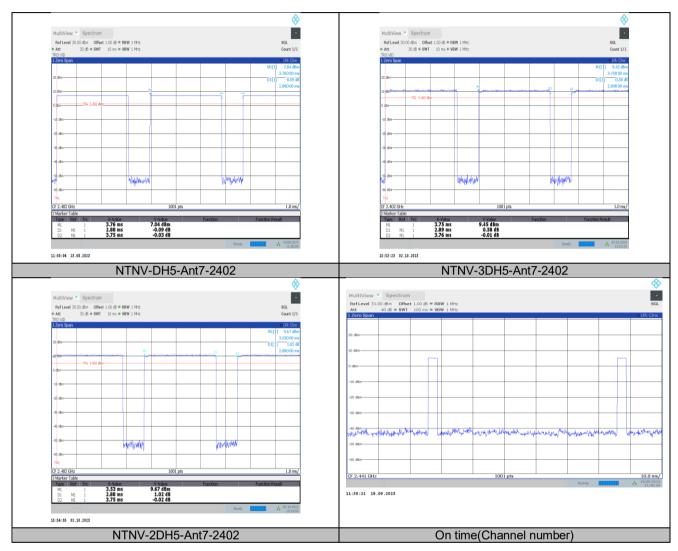
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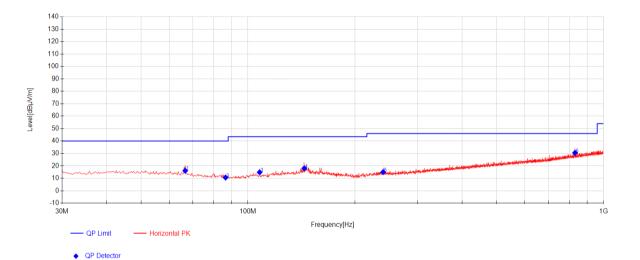
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: GFSK_Channel 78



Data	ı List							
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	66.6175	32.24	-33.78	17.68	16.13	40.00	23.87	Horizontal
2	86.5025	29.35	-33.60	14.87	10.63	40.00	29.37	Horizontal
3	107.8425	32.06	-33.41	16.21	14.86	43.50	28.64	Horizontal
4	143.975	32.68	-33.22	18.54	18.00	43.50	25.50	Horizontal
5	240.005	30.21	-32.49	17.30	15.01	46.00	30.99	Horizontal
6	831.4625	31.25	-29.68	28.94	30.51	46.00	15.49	Horizontal



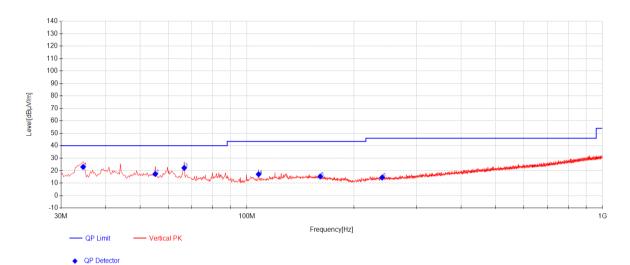
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Data	a List							
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	34.6075	38.51	-34.00	18.45	22.96	40.00	17.04	Vertical
2	55.22	32.25	-33.92	18.99	17.32	40.00	22.68	Vertical
3	66.6175	38.32	-33.78	17.68	22.21	40.00	17.79	Vertical
4	107.8425	34.28	-33.41	16.21	17.08	43.50	26.42	Vertical
5	160.7075	30.15	-33.06	18.24	15.33	43.50	28.17	Vertical
6	240.005	29.68	-32.49	17.30	14.48	46.00	31.52	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($dB\mu V/m$) – 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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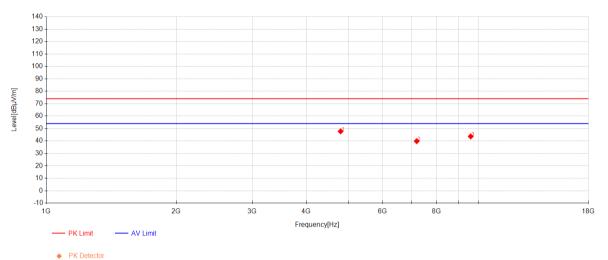
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Transmitter emission Above 1GHz

GFSK_Channel 0



Data	List							
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4804	56.49	32.77	-41.49	47.77	74.00	26.23	Horizontal
	4804	-	-		22.98	54.00	31.02	Horizontal
2	7206	41.63	36.25	-38.02	39.86	74.00	34.14	Horizontal
	7206	-	-		15.07	54.00	38.93	Horizontal
3	9608	39.34	37.78	-33.45	43.67	74.00	30.33	Horizontal
	9608	-	-		18.88	54.00	35.12	Horizontal



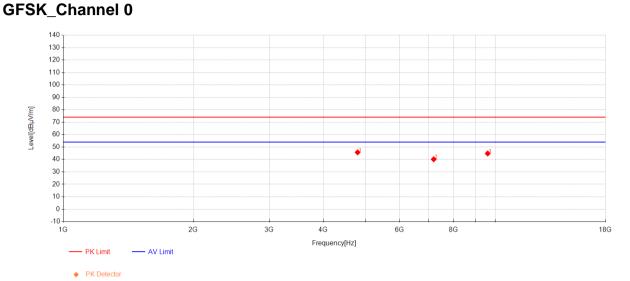
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Data	List							
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4804	54.45	32.77	-41.49	45.73	74.00	28.27	Vertical
	4804	-	-		20.94	54.00	33.06	Vertical
2	7206	41.93	36.25	-38.02	40.16	74.00	33.84	Vertical
	7206	-	-		15.37	54.00	38.63	Vertical
3	9608	40.48	37.78	-33.45	44.81	74.00	29.19	Vertical
	9608	-	-		20.02	54.00	33.98	Vertical



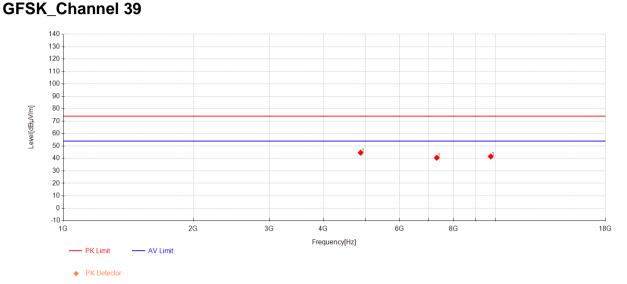
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Data	List							
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4882	52.97	32.94	-41.25	44.66	74.00	29.34	Horizontal
	4882	-	-		19.87	54.00	34.13	Horizontal
2	7323	41.67	36.39	-37.48	40.58	74.00	33.42	Horizontal
	7323	-	-		15.79	54.00	38.21	Horizontal
3	9764	36.84	37.83	-33.07	41.60	74.00	32.40	Horizontal
	9764	-	-		16.81	54.00	37.19	Horizontal



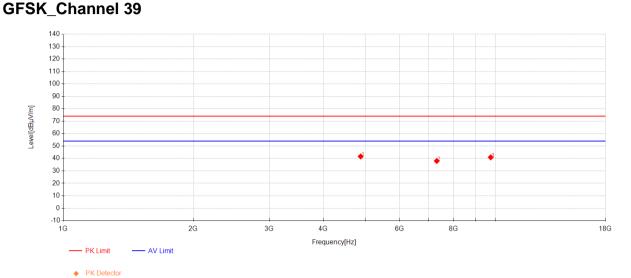
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	4882	49.93	32.94	-41.25	41.62	74.00	32.38	Vertical				
	4882	-	-		16.83	54.00	37.17	Vertical				
2	7323	39.06	36.39	-37.48	37.97	74.00	36.03	Vertical				
	7323	-	-		13.18	54.00	40.82	Vertical				
3	9764	36.16	37.83	-33.07	40.92	74.00	33.08	Vertical				
	9764	-	-		16.13	54.00	37.87	Vertical				



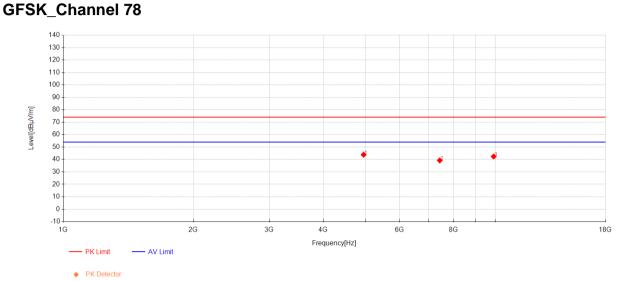
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	4960	52.09	33.11	-41.36	43.84	74.00	30.16	Horizontal		
	4960	-	-		19.05	54.00	34.95	Horizontal		
2	7440	40.56	36.53	-37.85	39.24	74.00	34.76	Horizontal		
	7440	-	-		14.45	54.00	39.55	Horizontal		
3	9920	37.07	37.88	-32.55	42.40	74.00	31.60	Horizontal		
	9920	-	-		17.61	54.00	36.39	Horizontal		



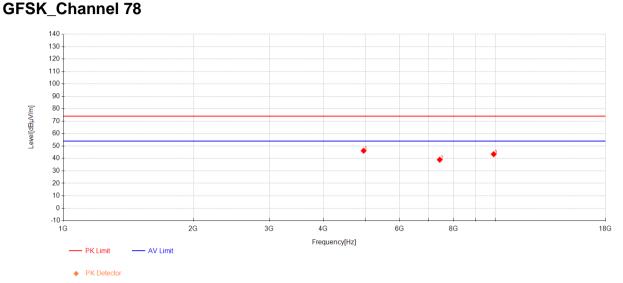
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Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4960	54.47	33.11	-41.36	46.22	74.00	27.78	Vertical			
	4960	-	-		21.43	54.00	32.57	Vertical			
2	7440	40.31	36.53	-37.85	38.99	74.00	35.01	Vertical			
	7440	-	-		14.20	54.00	39.80	Vertical			
3	9920	38.11	37.88	-32.55	43.44	74.00	30.56	Vertical			
	9920	-	-		18.65	54.00	35.35	Vertical			

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

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



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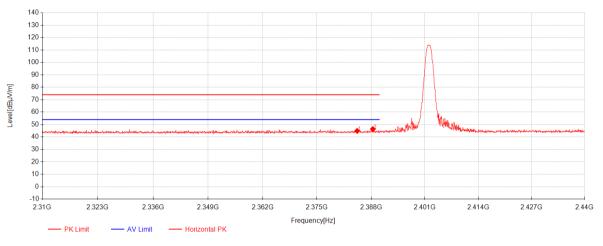
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Restricted bands around fundamental frequency

GFSK_Channel 0



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2384.6449	39.86	27.15	-22.13	44.88	74.00	29.12	Horizontal			
	2384.6449	-	-	-	20.09	54.00	33.91	Horizontal			
2	2388.4161	41.31	27.15	-22.12	46.35	74.00	27.65	Horizontal			
	2388.4161	-	-		21.56	54.00	32.44	Horizontal			



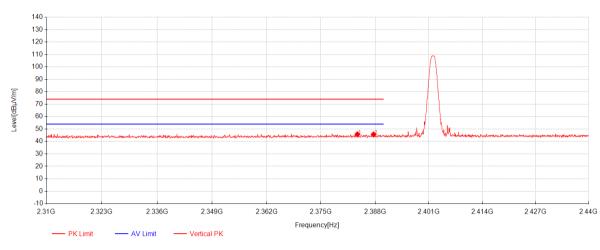
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PK Detector

GFSK_Channel 0

Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2383.7346	40.78	27.14	-22.13	45.79	74.00	28.21	Vertical		
	2383.7346	-	-		21.00	54.00	33.00	Vertical		
2	2387.6359	40.66	27.15	-22.12	45.69	74.00	28.31	Vertical		
	2387.6359	-	-		20.90	54.00	33.10	Vertical		



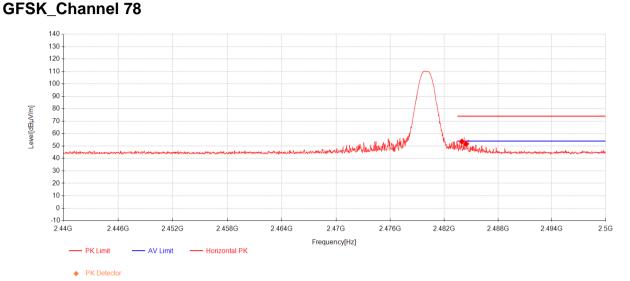
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2483.9747	48.15	27.36	-21.91	53.60	74.00	20.40	Horizontal		
	2483.9747	-	-		28.81	54.00	25.19	Horizontal		
2	2484.4348	46.16	27.37	-21.91	51.61	74.00	22.39	Horizontal		
	2484.4348	-	-		26.82	54.00	27.18	Horizontal		

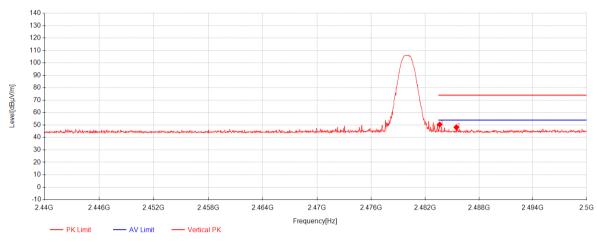


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PK Detector

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	2483.6145	44.98	27.36	-21.91	50.43	74.00	23.57	Vertical			
	2483.6145	-	-		25.64	54.00	28.36	Vertical			
2	2485.4752	42.71	27.37	-21.91	48.17	74.00	25.83	Vertical			
	2485.4752	-	-		23.38	54.00	30.62	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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