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TEST REPORT

Application No.:	SEWM2207000107RG
Applicant:	Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address of Applicant:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer:	Lenovo PC HK Limited
Address of Manufacturer:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China
EUT Description:	Portable Tablet Computer
Model No.:	TB350FU
Trade Mark:	Lenovo
FCC ID:	O57TB350FU
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C
Date of Receipt:	2022/07/11
Date of Test:	2022/07/16 to 2022/08/12
Date of Issue:	2022/08/16
Test Result :	PASS *

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

Authorized Signature:

Sun anta

Panta Sun Wireless Laboratory Manager



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1 Version

		Revision Record		
Version Chapter		Date	Modifier	Remark
01		2022/08/16		Original

Prepared By	Tiny Song
Checked By	(Well Wei) / Reviewer



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2 Test Summary

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Test Item	FCC Rule No.	Test Mathed	Test Result	Result
Test item	FUU RUIE 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 11.9.2.3	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	Reporting only
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 7.8.8.3	Clause 4.12	PASS



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3 General Information

3.1 Details of Client

Applicant:	Lenovo (Shanghai) Electronics Technology Co., Ltd.		
Address of Applicant:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone		
Manufacturer:	Lenovo PC HK Limited		
Address of Manufacturer:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China		

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:	Lves Cheng, Tizzy Song

3.3 Test Facility

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

A2LA (Certificate No. 6336.01)
SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.
Innovation, Science and Economic Development Canada
SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.
CAB identifier: CN0120.
IC#: 27594.
FCC –Designation Number: CN1312
SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

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EUT Description:	Portable Tablet Computer
Model No.:	TB350FU
Trade Mark:	Lenovo
Hardware Version:	TB350FU
Software Version:	TB350FU_RF01_220729
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 V5.2
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type:	PIFA Antenna
Antonno Coin*:	⊠Provided by client
Antenna Gain*:	-1.2dBi(Ant4)
RF Cable:	1.0dB
Note: *Since the above data and/o	or information is provided by the client relevant results or conclusions of this

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	Operation Frequency of each channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		
Domark:							

Remark:

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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	3.86	
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 -1.2dBi(Ant4). (Provided by client)*.

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. 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 Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

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

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

Compliance for section 15.247(a)(1):

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

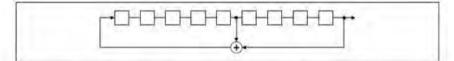
> Number of shift register stages: 9

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

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

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

20 62 46 77	7 64	8 73	16 75 1
	14 14 1		
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Each frequency used equally on the average by each transmitter.

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: 2013 Section 6.2				
Test Frequency Range:	150kHz to 30MHz				
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz			
Limit:	Frequency range (MHz)	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 connected impedance Stabilizati impedance. The porconnected to a second plane in the same of multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plane placed on the horizor 4) The test was performed the EUT shall be 0. vertical ground reference plane. The unit under test and mounted on top of the the closest points of and associated equip 5) In order to find the mand all of the interfate 	ected to AC power source to ion Network) which provides ower cables of all other up ad LISN 2, which was bonded way as the LISN 1 for the up strip was used to connect mut the rating of the LISN was not as placed upon a non-metalling ne. And for floor-standing arra- ntal ground reference plane. ed with a vertical ground refer 4 m from the vertical ground rence plane was bonded to a LISN 1 was placed 0.8 m fr bonded to a ground refer e ground reference plane. This the LISN 1 and the EUT. All oment was at least 0.8 m from aximum emission, the relative conducted measurement.	hrough a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear nits of the EUT were to the ground reference unit being measured. A ultiple power cables to a of exceeded. In table 0.8m above the angement, the EUT was rence plane. The rear of d reference plane. The the horizontal ground om the boundary of the rence plane for LISNs s distance was between I other units of the EUT the LISN 2.		

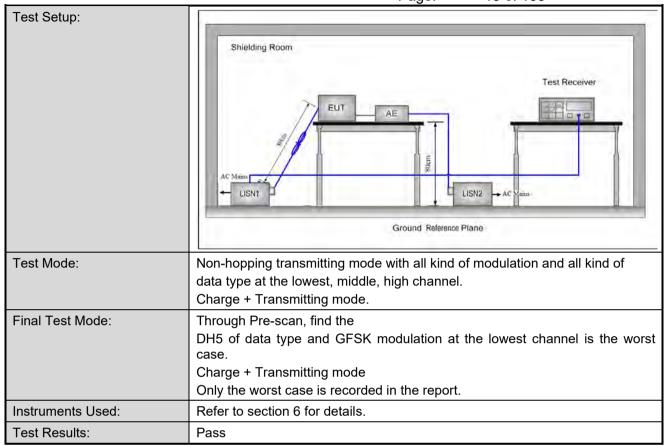


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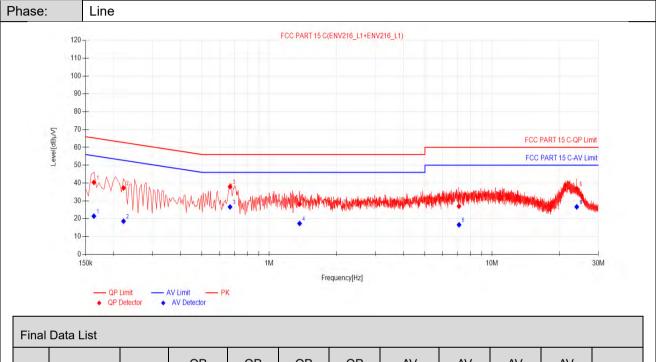
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

For Sample #1:



NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1635	10.69	29.70	40.39	65.28	24.89	10.75	21.44	55.28	33.84	PASS
2	0.2220	10.81	26.43	37.24	62.74	25.50	7.77	18.58	52.74	34.16	PASS
3	0.6675	10.56	27.42	37.98	56.00	18.02	16.06	26.62	46.00	19.38	PASS
4	1.3695	10.78	17.38	28.16	56.00	27.84	6.56	17.34	46.00	28.66	PASS
5	7.1115	10.70	16.30	27.00	60.00	33.00	5.87	16.57	50.00	33.43	PASS
6	24.0000	10.31	26.57	36.88	60.00	23.12	16.34	26.65	50.00	23.35	PASS
Domor	·k·										

Remark:

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

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

3. Margin = Limit[$dB\mu V$] – Value[$dB\mu V$]

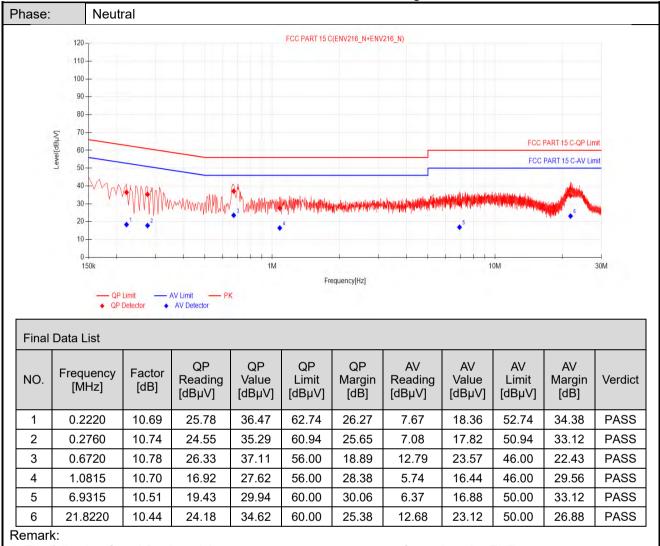


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1. The following Quasi-Peak and Average measurements were performed on the EUT:

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

3. Margin = Limit[dBµV] – Value[dBµV]



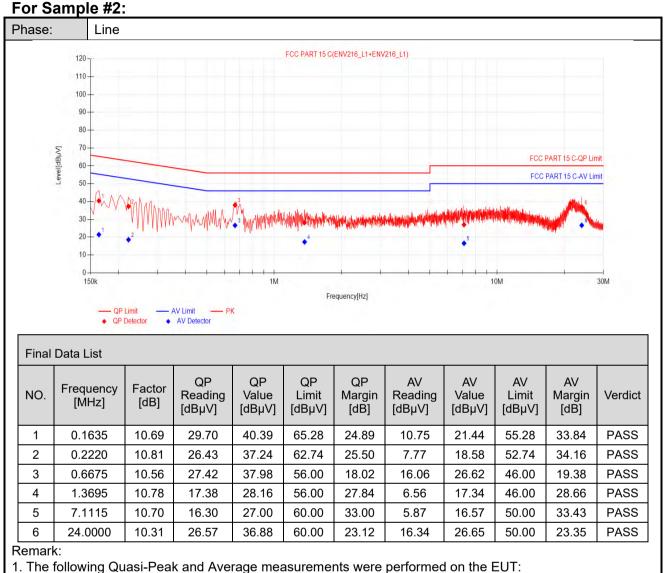
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2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[$dB\mu V$] – Value[$dB\mu V$]

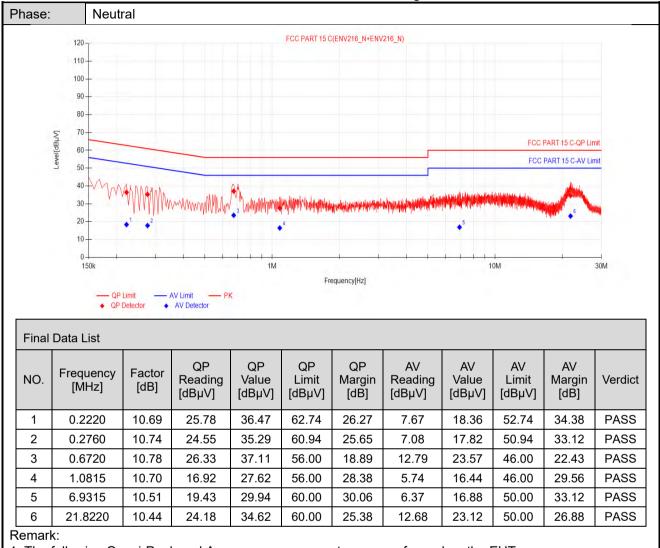


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1. The following Quasi-Peak and Average measurements were performed on the EUT:

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

3. Margin = Limit[dBµV] – Value[dBµV]



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Test Requirement: 47 CFR Part 15C Section 15.247 (b)(1) Test Method: ANSI C63.10:2013 Section 11.9.2.3 Test Setup: 0 õ E.U.T Ground Reference Plane * Test with power meter (Detector function: Peak) **Test Instruments:** Refer to section 6 for details Non-hopping transmitting with all kind of modulation and all kind of data type. Exploratory Test Mode: 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: For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts. Test Results: Pass The detailed test data see: Appendix

4.4 Conducted Output Power



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4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth

S

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)			
Test Method:	ANSI C63.10:2013 Section 6.9.2 and 6.9.3			
Test Setup:	PC			
Instruments Used:	Refer to section 6 for details			
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.			
Final Test Mode: Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.				
Limit:	NA			
Test Results:	Pass			
The detailed test data see: A	ppendix			



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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 Vector Signal Generator 0 PC munication RF Control Unit 0 0 0 E.U.T Analog Signal Gene DC Powe 00000 **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 Separationy



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Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) Test Method: ANSI C63.10:2013 Section 7.8.3 Test Setup: SGS Test system Vector Signal Genera 0 Spectrum Analyzer PC 000 Communication Terter Control Unit 0 0 0 m E.U.T Analog Signal Gene 0 DC Powe 00000 **Ground Reference Plane** Instruments Used: Refer to section 6 for details Test Mode: Hopping transmitting with all kind of modulation At least 15 channels Limit: Test Results: Pass The detailed test data see: Appendix

4.7 Hopping Channel Number



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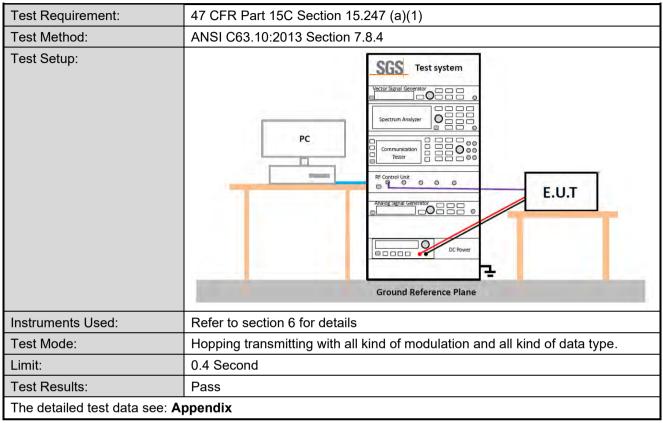
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4.8 Dwell Time





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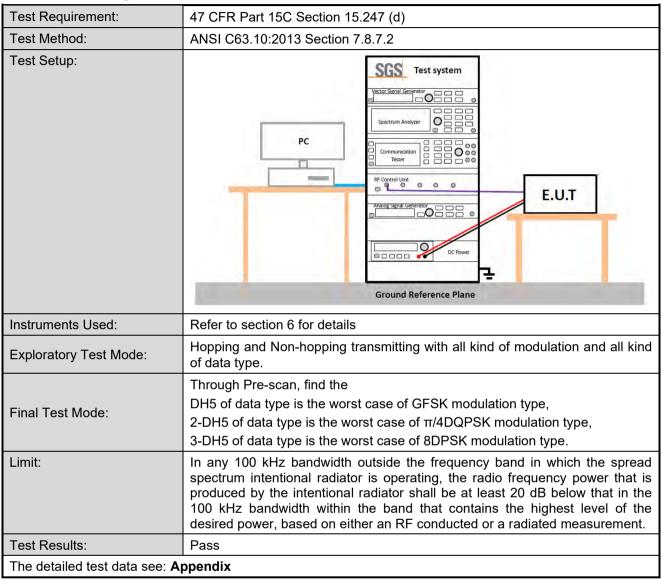
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4.9 Band-edge for RF Conducted Emissions





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4.10 Spurious RF Conducted Emissions

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Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10:2013 Section 7.8.7.1			
Test Setup:	PC PC PC Control Link Control Link Cont			
Instruments Used:	Refer to section 6 for details			
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.			
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.			
Test Results:	Pass			
The detailed test data see: A	ppendix			



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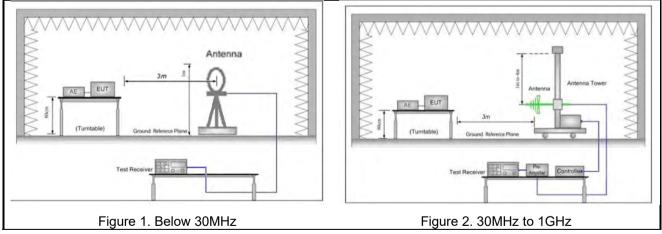
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4.11 Radiated Spurious Emissions

	-						
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10 :2013 Section	ANSI C63.10 :2013 Section 6.4 / 6.5 / 6.6					
Test Site:	Measurement Distance: 3	m (Semi-Anechoic	Chamber)				
Test Frequency:	9kHz ~ 25GHz						
Limit:	Frequency	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			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 emissio level radiated by the device.						

Test Setup:

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	Im or 3m Im or 3m F Hum atoms 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 20 dB lower than the limit line was not reported.
	 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 1000MHz
	• RBW = 120 kHz
	• VBW = 300 kHz
	• Detector = Peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz



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	rage. 27 01 103				
	• RBW = 1 MHz				
	• VBW ≥ 3 MHz				
	• Detector = Peak				
	Sweep time = auto				
	 Trace mode = max hold 				
	Average Measurements Above 1000MHz				
	Use duty cycle correction factor method per 15.35(c).				
	Duty cycle = On time / 100 milliseconds				
	On time = $N_1*L_1 + N_2*L_2+N_{N-1}*L_{N-1} + N_N*L_N$				
	Where N_1 is number of type 1 pulese, L_1 is length of type 1 pulses, etc.				
	Average Value = Peak Value +20*log(Duty cycle).				
Evelopeton / Test	Non-hopping transmitting mode with all kind of modulation and all kind of				
Exploratory Test Mode:	data type				
wode.	Charge + Transmitting mode.				
	Through Pre-scan, find the				
	DH5 of data type and GFSK modulation is the worst case.				
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode				
	For below 1GHz part, through pre-scan, the worst case is the lowest channel.				
	Only the worst case is recorded in the report.				
Instruments Used:	Refer to section 6 for details				
Test Results:	Pass				
The detailed test data see: Appendix					



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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	7.8.8.3				
Test Site:	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			
		54.0	Average Value			
	Above 1GHz	74.0	Peak Value			

Test Setup:

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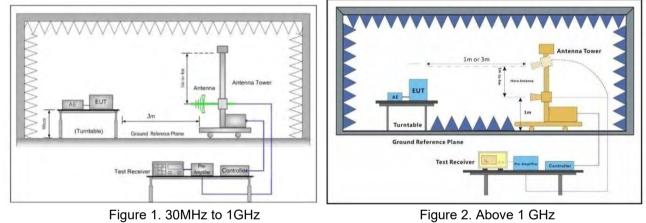


	Figure 1.	30MHz to 1GHz	Figure 2. Above 1 GHz
Test Procedure:	6	above the ground at	EUT was placed on the top of a rotating table 0.8 meters a 3 or 10 meter semi-anechoic camber. The table was to determine the position of the highest radiation.
	k	meters above the gr	EUT was placed on the top of a rotating table 1.5 ound at a 3 meter semi-anechoic camber. The table was to determine the position of the highest radiation.
	C		or 10 meters away from the interference-receiving mounted on the top of a variable-height antenna tower.
	C	to determine the ma	s varied from one meter to four meters above the ground kimum value of the field strength. Both horizontal and of the antenna are set to make the measurement.
		then the antenna wa	emission, the EUT was arranged to its worst case and s tuned to heights from 1 meter to 4 meters and the urned from 0 degrees to 360 degrees to find the
	f	. The test-receiver system Bandwidth with Max	stem was set to Peak Detect Function and Specified mum Hold Mode.
	g	J. Place a marker at th	e 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 = 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 = 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
Test Results:	Pass
The detailed test data see	



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

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)		
8		± 3.13dB (9k -30MHz)		
	Radiated Emission	± 4.80dB (30M -1GHz)		
		± 4.80dB (1GHz to 18GHz)		
		± 4.80dB (Above 18GHz)		

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						
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 2022/02/10		2022/02/16	2023/02/15	
Signal Analyzer	KEYSIGHT	KEYSIGHT N9020A SUWI-01-02-07 2021/12/22		2021/12/22	2022/12/21	
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16	
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR	
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14	
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27	
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03	
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03	
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14	

CE Test System						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)	
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18	
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15	



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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	2022/02/16	2023/02/15	
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27	
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13	
Amplifier	Tonscend TAP9K3G40 SUWI-01-14-01 2022/02/14		2022/02/14	2023/02/13		
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13	
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18	
Active Loop Antenna ELEKTRONI		FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09	
Measurement Software	Tonscend	JS32-RSE V4.0.0.0	SUWI-02-09-06	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	Ant4	2402	0.87	2401.50	2402.36	
		2441	0.87	2440.49	2441.36	
		2480	0.87	2479.49	2480.36	
2DH5	Ant4	2402	1.26	2401.32	2402.58	Poporting
		2441	1.26	2440.32	2441.58	 Reporting only
		2480	1.26	2479.32	2480.58	Offiy
3DH5	Ant4	2402	1.27	2401.31	2402.58	
		2441	1.27	2440.31	2441.57	
		2480	1.26	2479.31	2480.57	



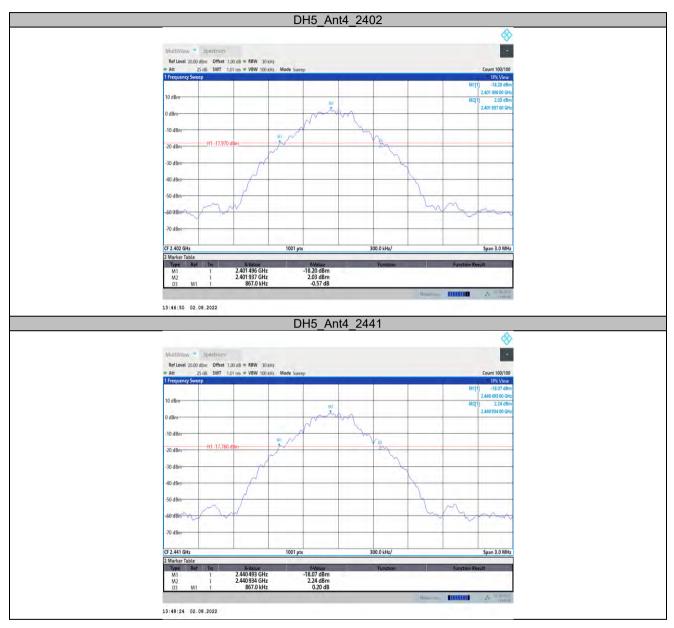
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Test Graphs

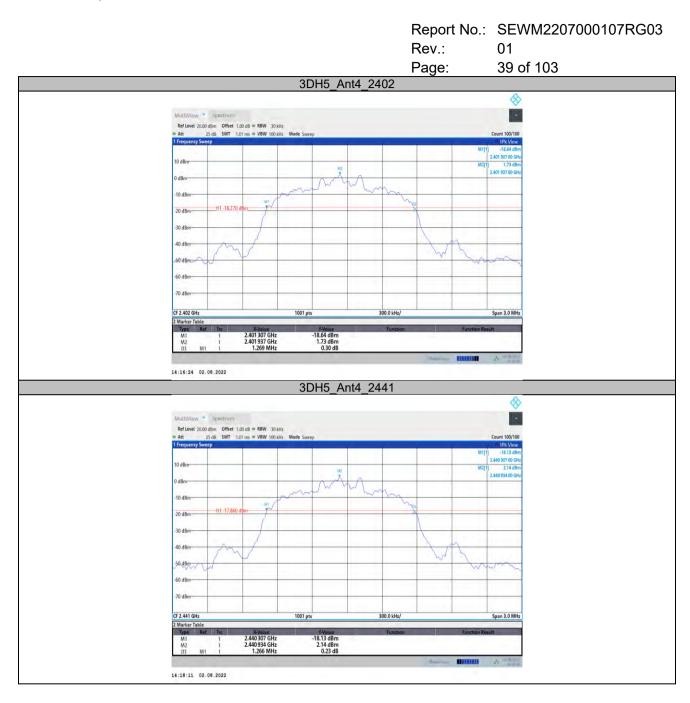










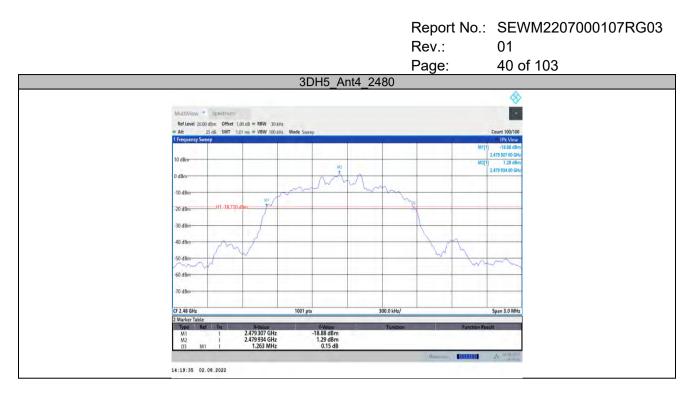




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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
		2402	0.757	2401.574	2402.331	
DH5	Ant4	2441	0.755	2440.573	2441.329	
		2480	0.757	2479.572	2480.328	
		2402	1.141	2401.373	2402.514	Penarting
2DH5	Ant4	2441	1.139	2440.373	2441.512	Reporting only
		2480	1.138	2479.372	2480.511	Only
3DH5 Ant	2402	2402	1.144	2401.377	2402.521	
	Ant4	2441	1.143	2440.376	2441.519	
		2480	1.142	2479.375	2480.517	



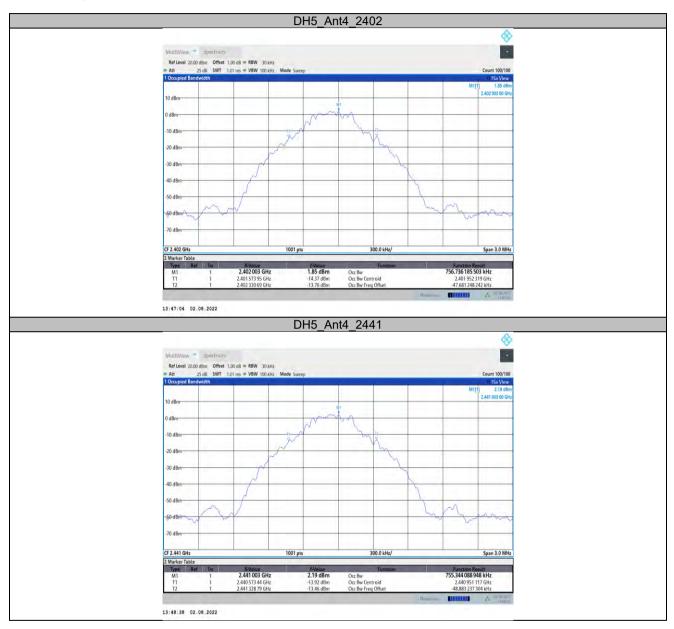
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Test Graphs



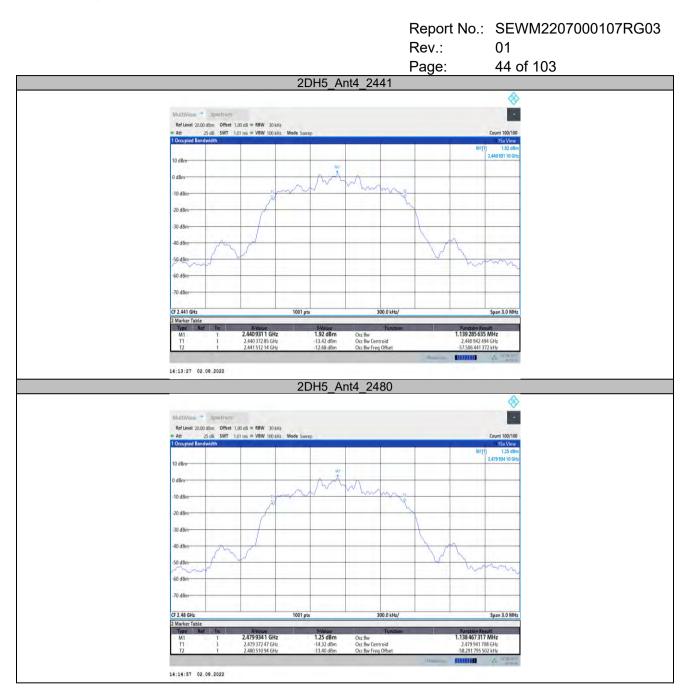




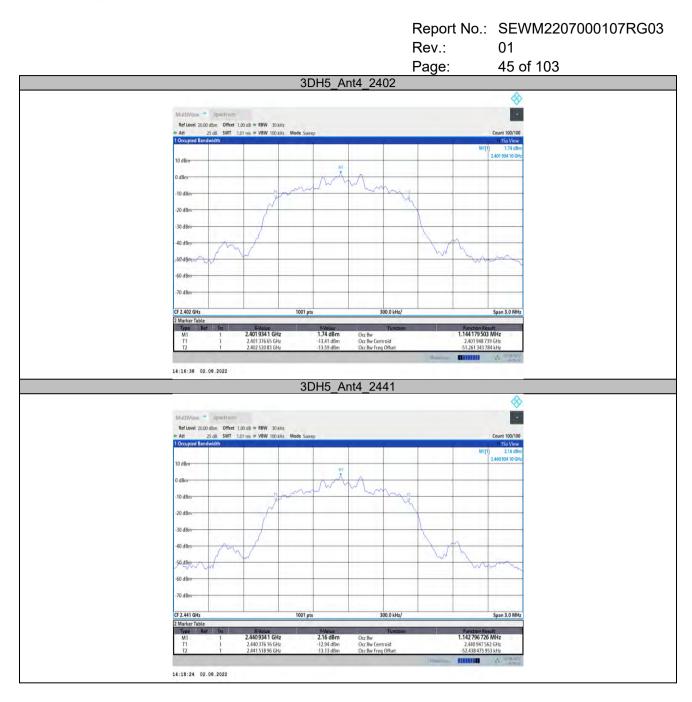
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Maximum conducted output power Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
		2402	9.15	≤30.00	PASS
DH5	Ant4	2441	9.45	≤30.00	PASS
		2480	8.57	≤30.00	PASS
		2402	8.83	≤20.97	PASS
2DH5	Ant4	2441	9.05	≤20.97	PASS
		2480	8.23	≤20.97	PASS
		2402	8.68	≤20.97	PASS
3DH5	Ant4	2441	8.99	≤20.97	PASS
		2480	8.20	≤20.97	PASS



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Carrier frequency separation Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant4	Нор	1.010	≥0.870	PASS
2DH5	Ant4	Нор	1.004	≥0.840	PASS
3DH5	Ant4	Нор	1.004	≥0.847	PASS



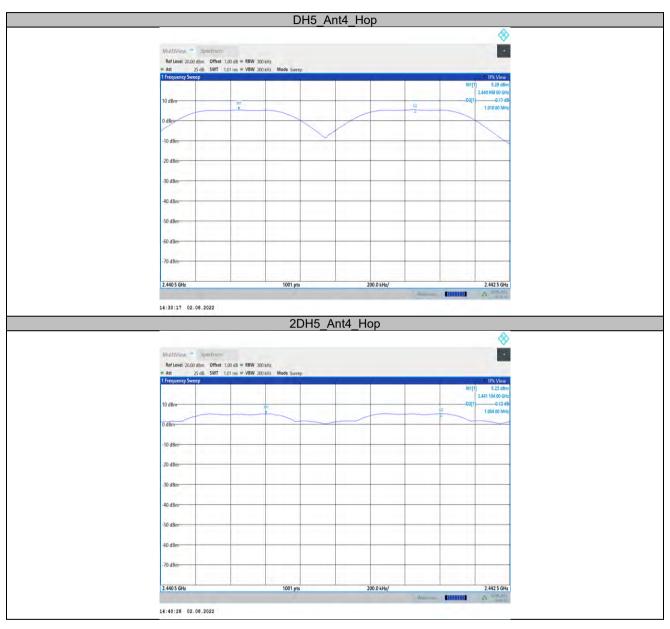
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	3DH5	_Ant4_Hop	i ugo:	
	02.10			
Att 25	Bm Offset 1.00 dB = RBW 300 kHz dB SWT 1.01 ms = VBW 300 kHz Mode Sweep			
1 Frequency Swee			MID	5.12 dBm
10 dBm			D2/11	2.441 098 00 GHz
10 UNIT				1.004 00 MHz
0 dBm			-	
-10 dBm				
-20 dBm				
-30 dBm				
-40 dBm -50 dBm				
-60 dBm				
-70 dBm				
2.440 5 GHz	1001 pts	200.0 kHz/		2.4425 GHz
			Maximum CHREEKE	A. mana
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Time of occupancy Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant4	Нор	0.35	320	0.112	≤0.4	PASS
DH3	Ant4	Нор	1.62	160	0.259	≤0.4	PASS
DH5	Ant4	Нор	2.86	106.67	0.305	≤0.4	PASS
2DH1	Ant4	Нор	0.36	320	0.115	≤0.4	PASS
2DH3	Ant4	Нор	1.62	160	0.259	≤0.4	PASS
2DH5	Ant4	Нор	2.87	106.67	0.306	≤0.4	PASS
3DH1	Ant4	Нор	0.36	320	0.115	≤0.4	PASS
3DH3	Ant4	Нор	1.62	160	0.259	≤0.4	PASS
3DH5	Ant4	Нор	2.86	106.67	0.305	≤0.4	PASS



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DH1 Ant4 Hop \otimes + Trianess. Ref Level 20.00 dBm Offset 1.00 dB RBW 1.MHz Att 25 dB SWIT 10 ms VBW 3 MHz 501 Count 1/1 10 dBr 102 350.00 TRG 3.300 a dB 10 dBr -20 dB -30 dBn -40 dB 50 dB YTHAM MUNHUN he contribution of a provide the state of the second state of the NO dBm -70 dB CF 2.441 GHz 1001 pts 1.0 ms/ 14:30:50 02.08.2022 DH3 Ant4 Hop + Ref Level 20.00 dBm Offset 1.00 dB RBW 1.MHz # Att 25 dB SWT 10 ms VBW 3 MHz Count 1/1 10 dBr 1 520 D TRG 3.20 10 dBe -20 dBm -30 dB -40 dBr i0 dBr nongrous an anongroupout ous and the day any mendous and an again -60 dBm 70 dBm CF 2.441 GHz 1001 pts 1.0 ms/ 14:31:09 02.08.2022

Test Graphs



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	DH5 A	Ant4_Hop	55 01 105
		<u>_</u> p	
Ref Level 20.	Digenterum 00 dBm Offhet 1.00 dB = RBW 1.MHz 25 dB = SWT 10 ms = VBW 3.MHz		56L Count 1/1
1 Zero Span			0.1PK.Crw M1[1] 5.07 dBm
10 dBm	A!	m	0 s 92[1]0 59 dB-
0 dBm	TRG 3.400 dBm	7	2.860.00 ms
-10 dBm			1.4 million of
-20 dBm			
-30 dBm			
-40 dBm			
-50 dBm			
	Mandalayeth	hardward many wall have been more all his land	upper-physics
160 dBm			
-70 dBm	TRG		
CF 2.441 GHz		1001 pts	1.0 ms/
		Latr.	0
14:28:01, 0;		Ant4_Hop	
	2011		*
Ref Level 20. # Att TRE-VID	Spectrum 00 dBm Offset 1.00 dB = RBW 1 MHz 25 dB = SWT 10 ms = VBW 3 MHz		564. Count 1/1
1 Zero Span			M1(1) 491 dBm
10 dBm	Mr.		0 s —D2[1] —1.66 dB 360.00 µs
0 dBm	TRG 3.200 dbm		Transford Pro-
-10 dBm			
-20 dBm			
-30 dBm			
-40 dBm			
-50 dBm			
-50 dBm	warden	and a house of the second and the second	naufrest with
-70 dBm	TRG		
	194		
CF 2.441 GHz		1001 pts	1.0 ms/
G*2.441 GHr 14:45:11 0:		1001 pts	1.0 ms/



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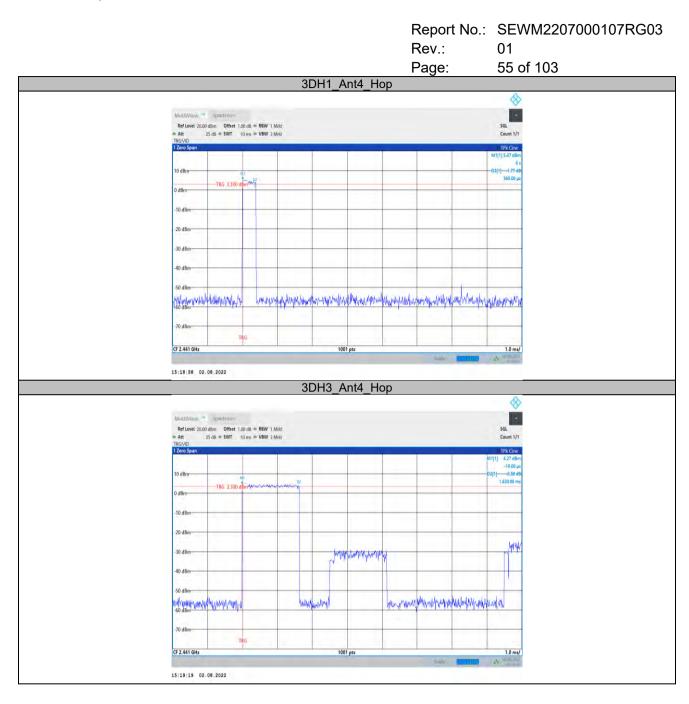
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			Report No.: Rev.: Page:	SEWM2207000107RG03 01 54 of 103
	21	DH3_Ant4_Hop		
NultiVerse Ref Level 2007 # Att TrackVU U Zero Span	Spectream dBm Offset 1.00 dB = RBW 1 MHz SdB + SWT 10 ms = VBW 3 MHz			56L Count 1/1 3 The Cine
10 dBm 0 dBm	TRG 3.100 dBm ²			(1) 520 dam 0 1 (1)
-10 dBm				
-40 dBm	Here Managers 100	Manghupulan shakarada	andandel mathamount of a conservation	and the
-70 dBm- (F 2.441 GHz	TRG	1001 pts	Late Contract	1.0 my
14:45:48 02.				
	21	DH5_Ant4_Hop		
bluttiview Reference # At TREAVUD 10 Zero Span	Spectrum dBm Offset 1.00 dB = RBW 1 MHz 5 dB = SWT 10 ms = VBW 3 MHz			562. Count 1/1 •• 18% Offer
10 dBm				1(1) -252 d8m -10 00 µs 1(1) - 5.71 d8-
0 dBm	TRG 3.300 dBm	102		2.870.00 ms
-10 dBm				
-30 d8m -40 d8m				
-50 dłem- 	N/h-Mummh	Shipudhidi, dagaranna	the providence of the second	est-lawalt's
-70 dBm	TRG	1001 pts		1.0 mJ
CF 2.441 GH2		iver po		1.0 msy



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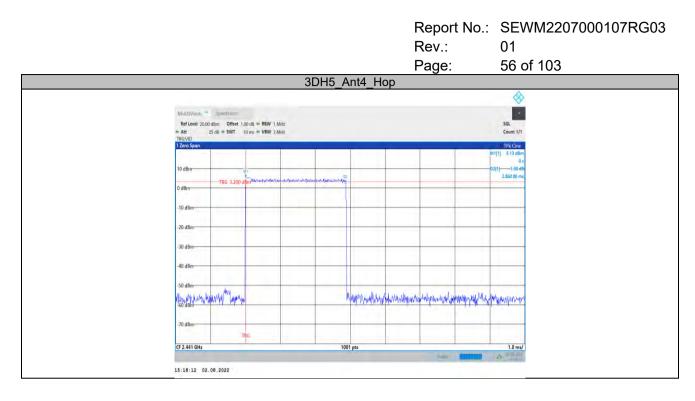




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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
		2402	2.88	3.75	76.80	1.15
DH5	Ant4	2441	2.88	3.75	76.80	1.15
		2480	2.88	3.75	76.80	1.15
	Ant4	2402	2.88	3.75	76.80	1.15
2DH5		2441	2.89	3.76	76.86	1.14
		2480	2.89	3.76	76.86	1.14
		2402	2.89	3.76	76.86	1.14
3DH5	Ant4	2441	2.89	3.76	76.86	1.14
		2480	2.89	3.76	76.86	1.14



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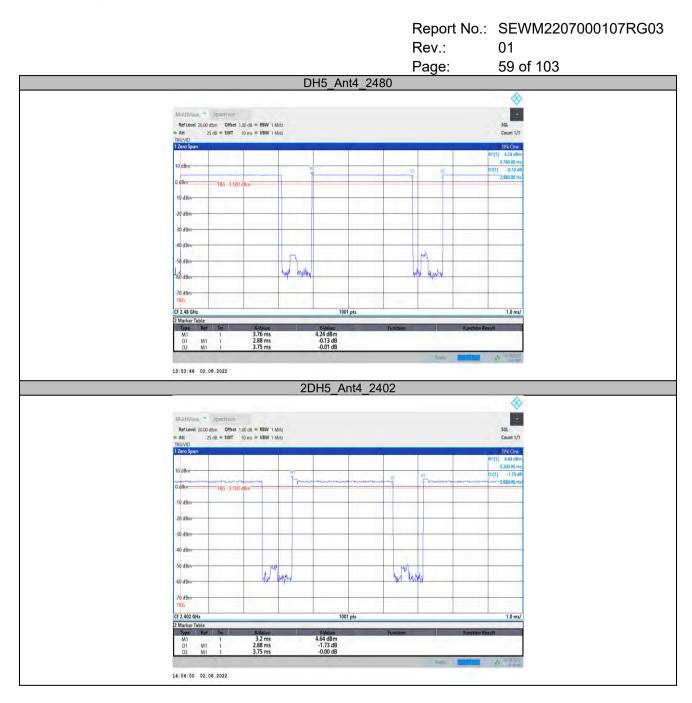
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Test Graphs





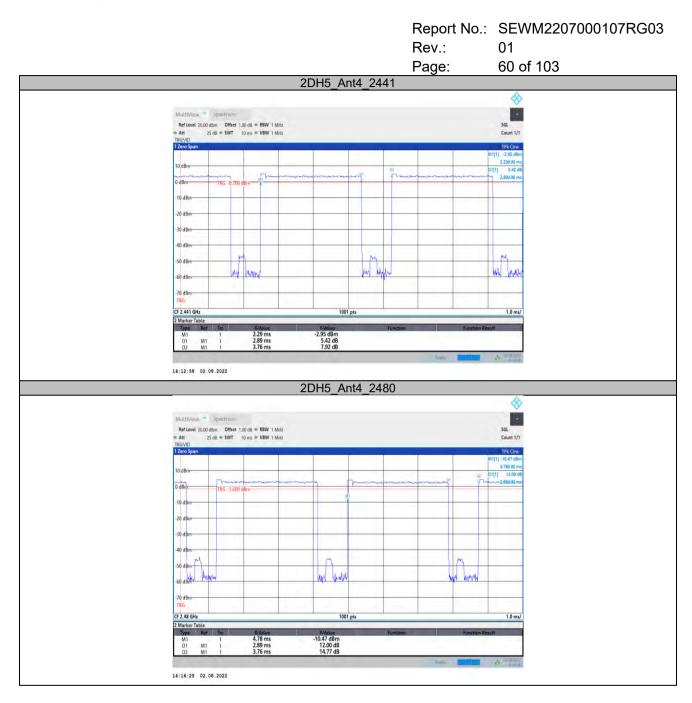


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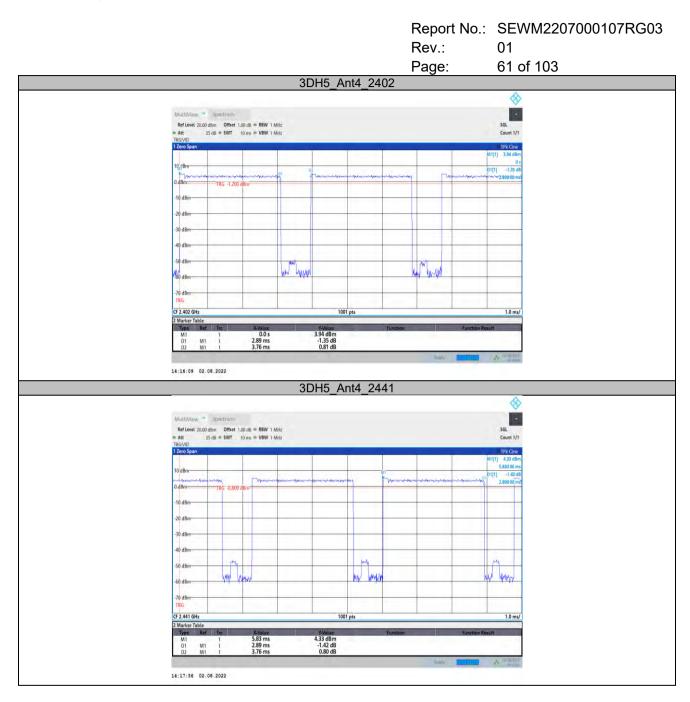


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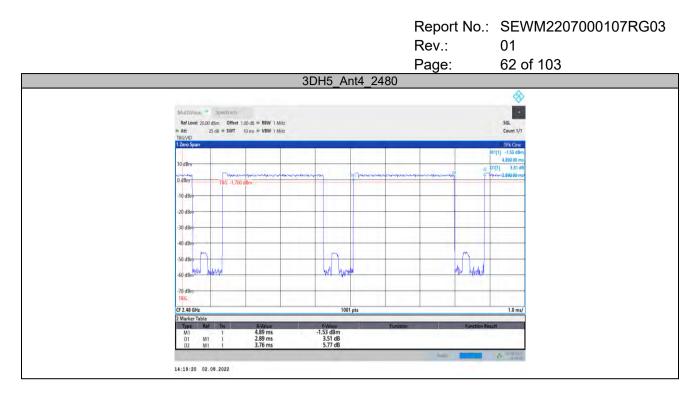


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Number of hopping channels Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant4	Нор	79	≥15	PASS
2DH5	Ant4	Нор	79	≥15	PASS
3DH5	Ant4	Нор	79	≥15	PASS



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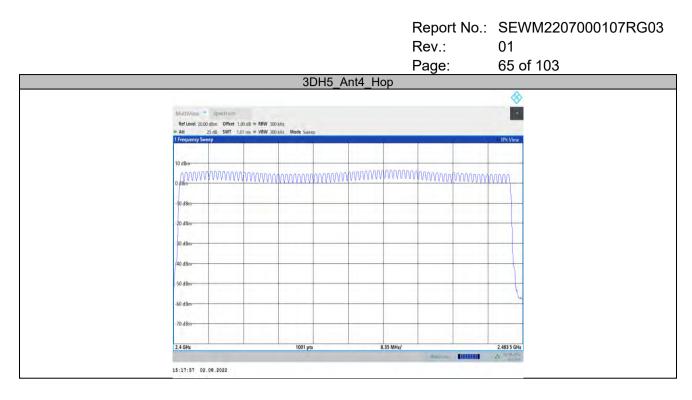
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Test Graphs







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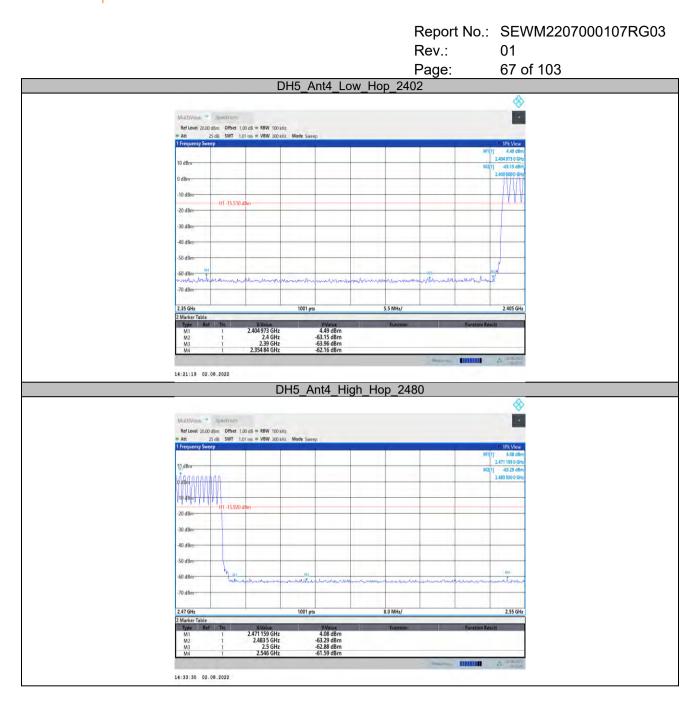
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Band edge measurements

Test Graphs







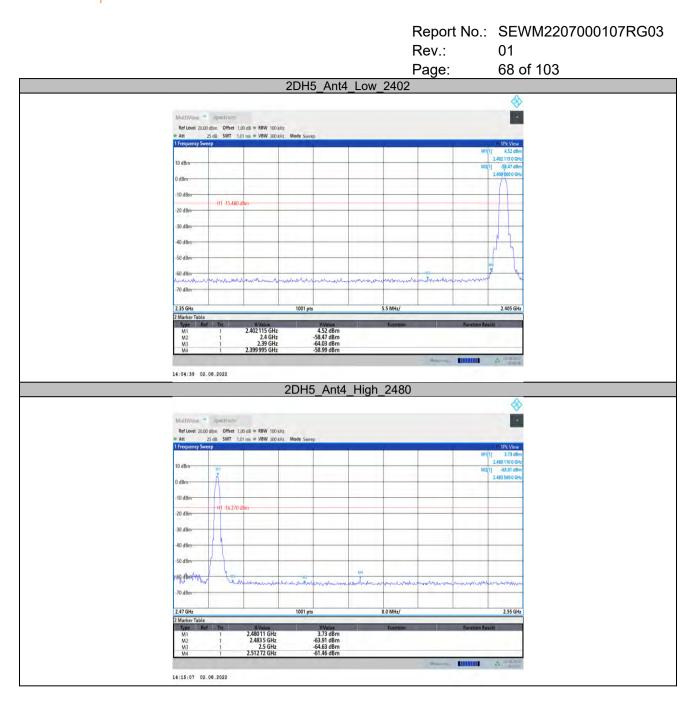


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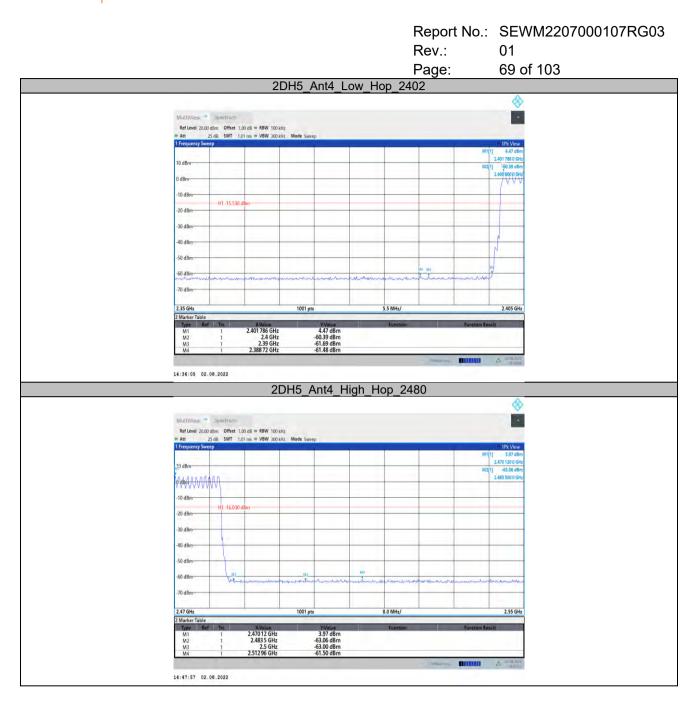


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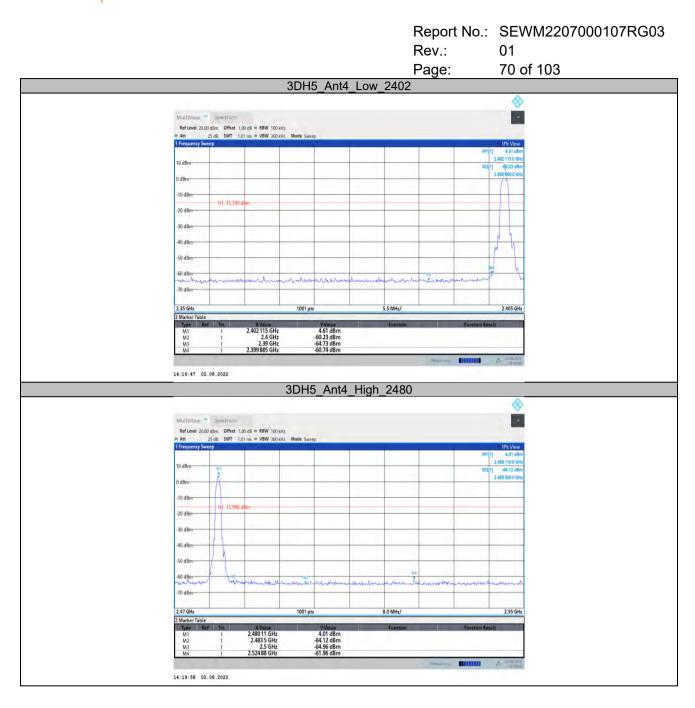


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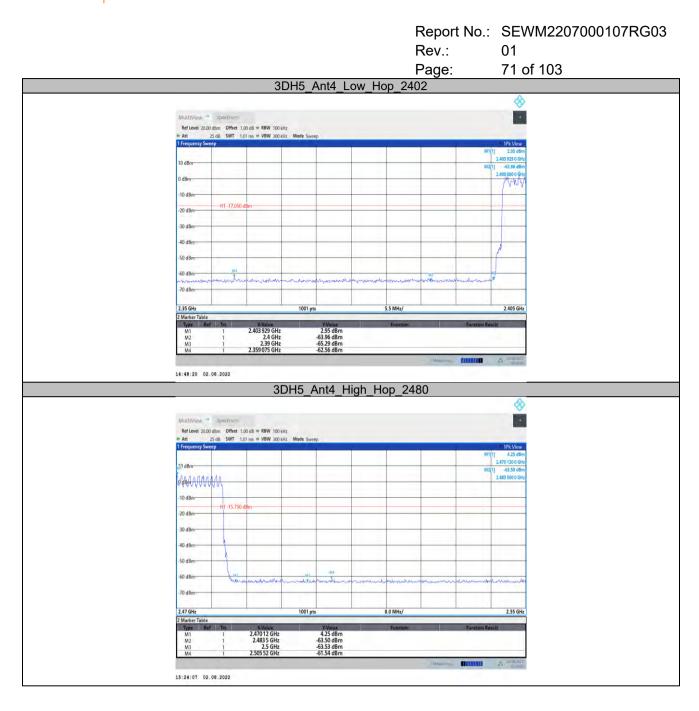
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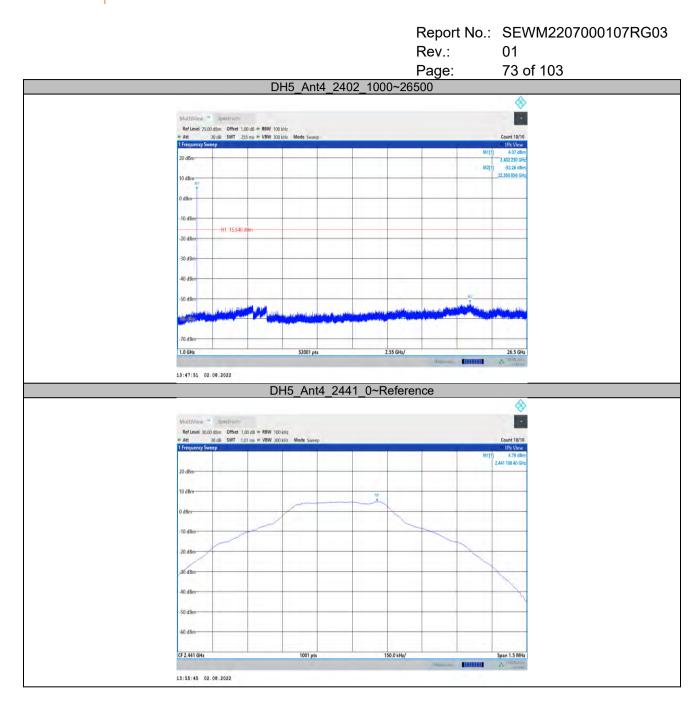
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Conducted Spurious Emission Test Graphs







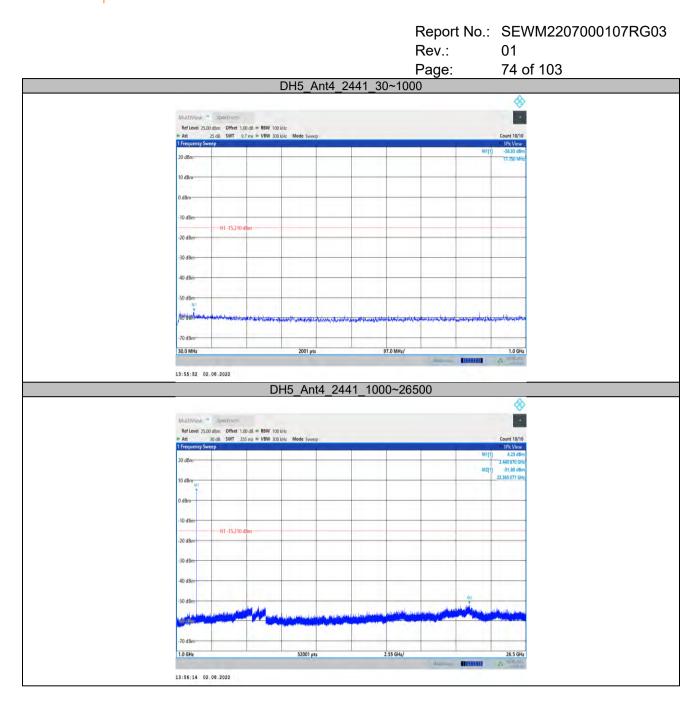


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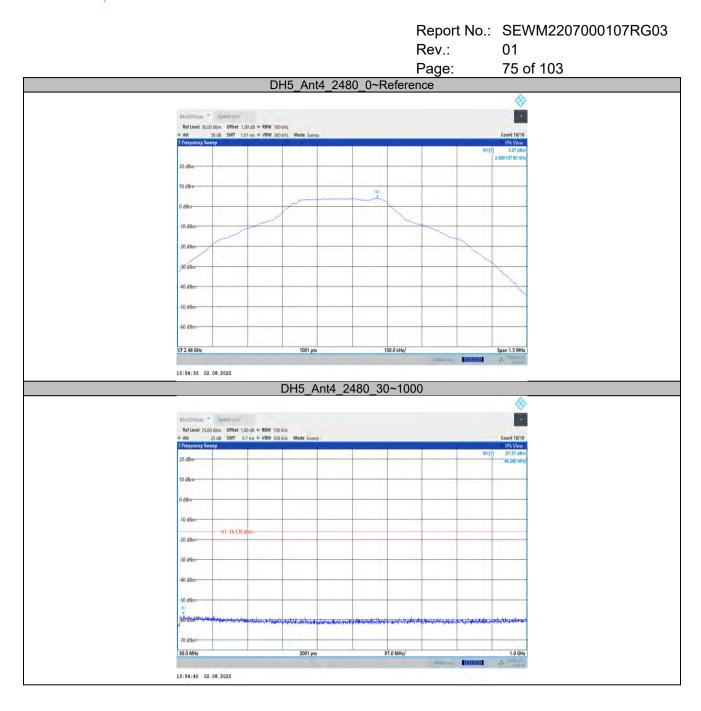




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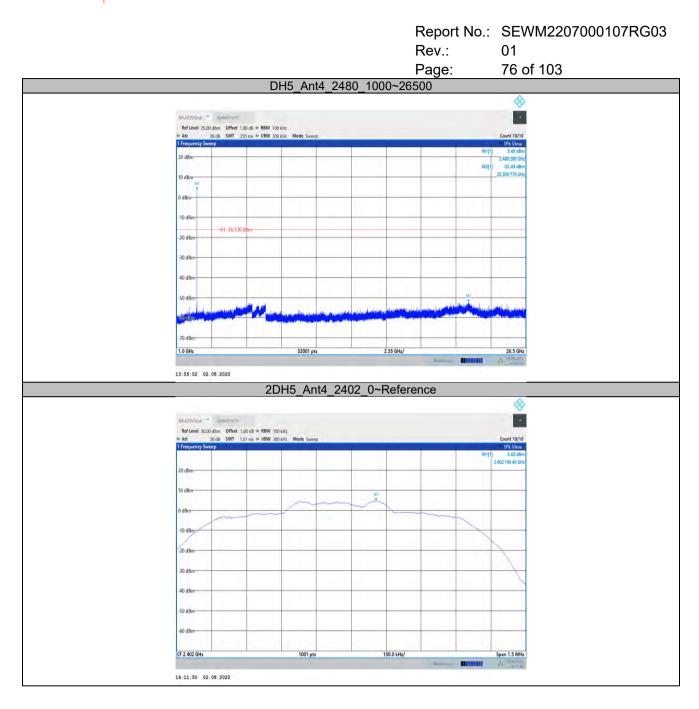


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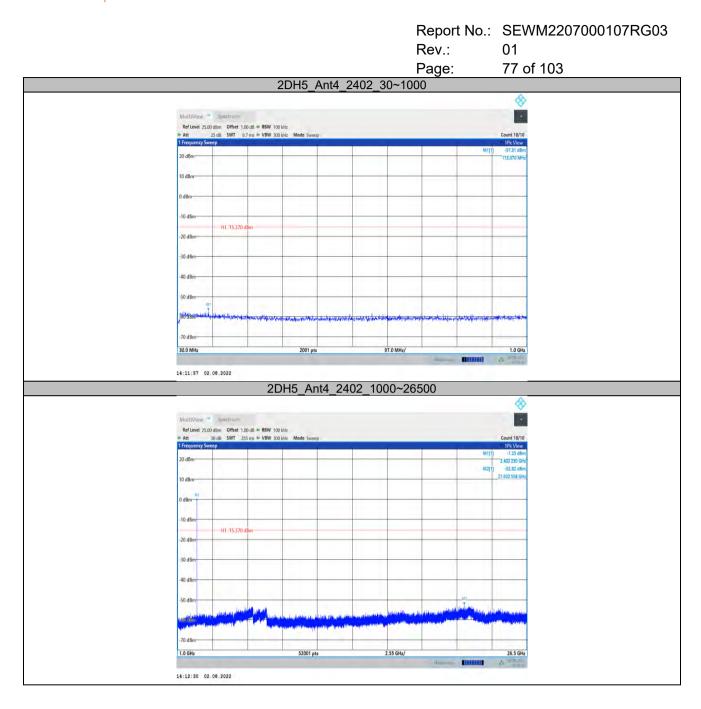


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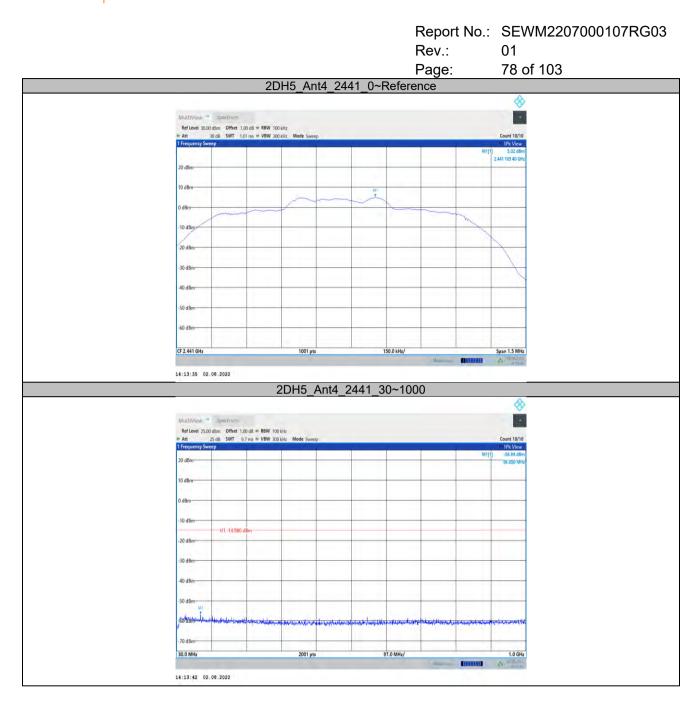


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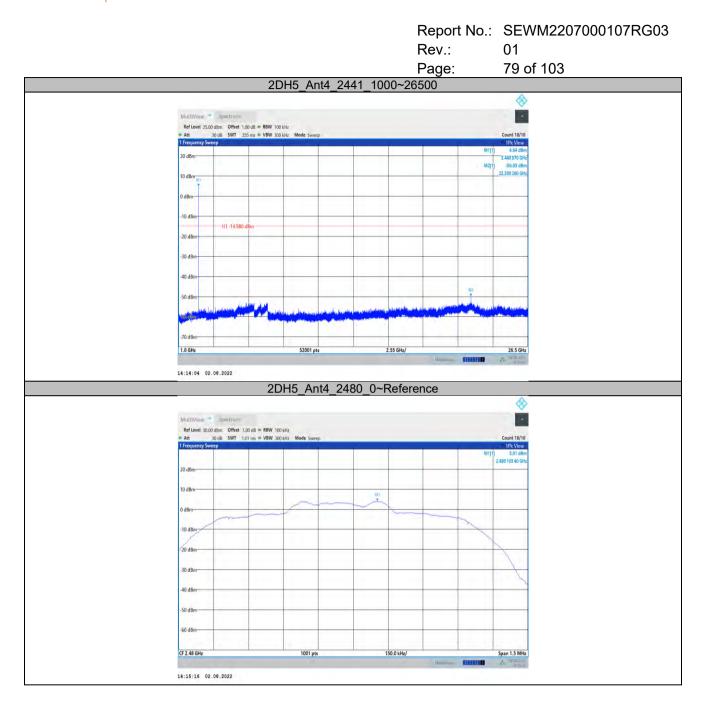
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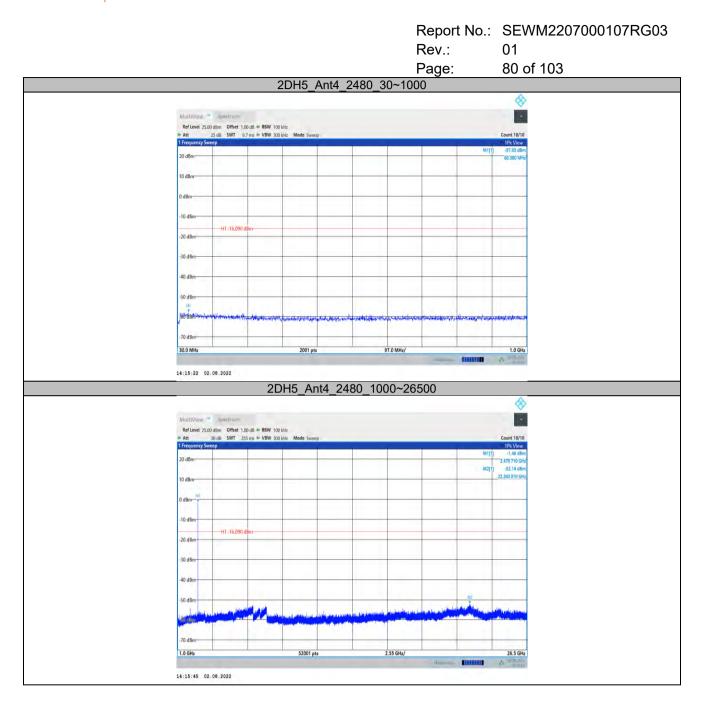




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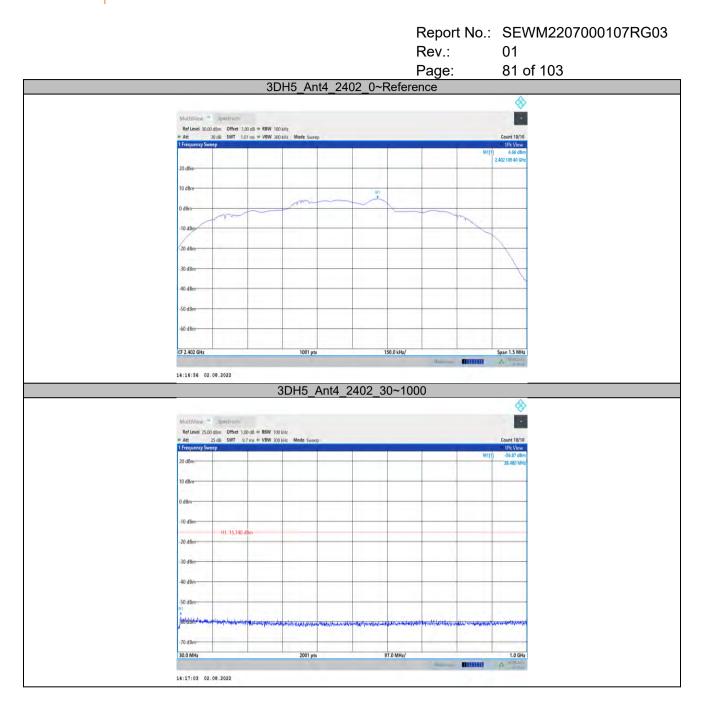


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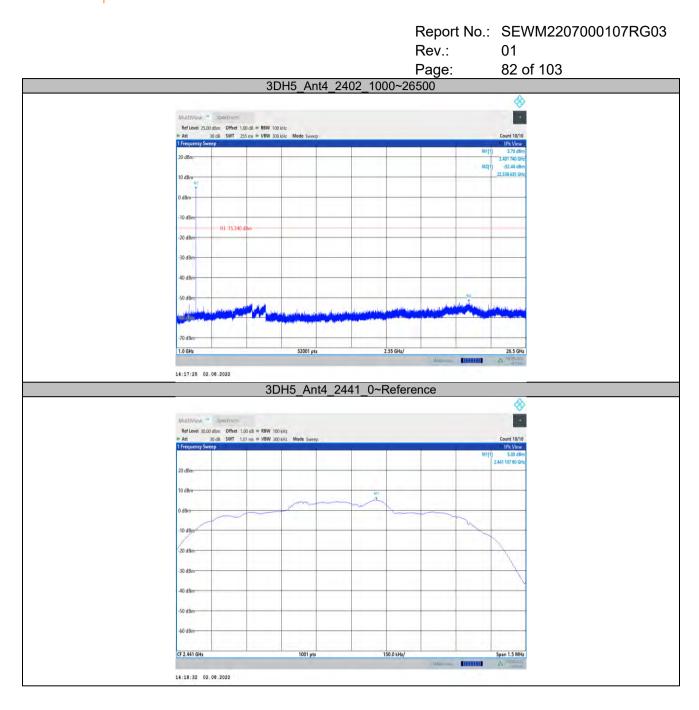


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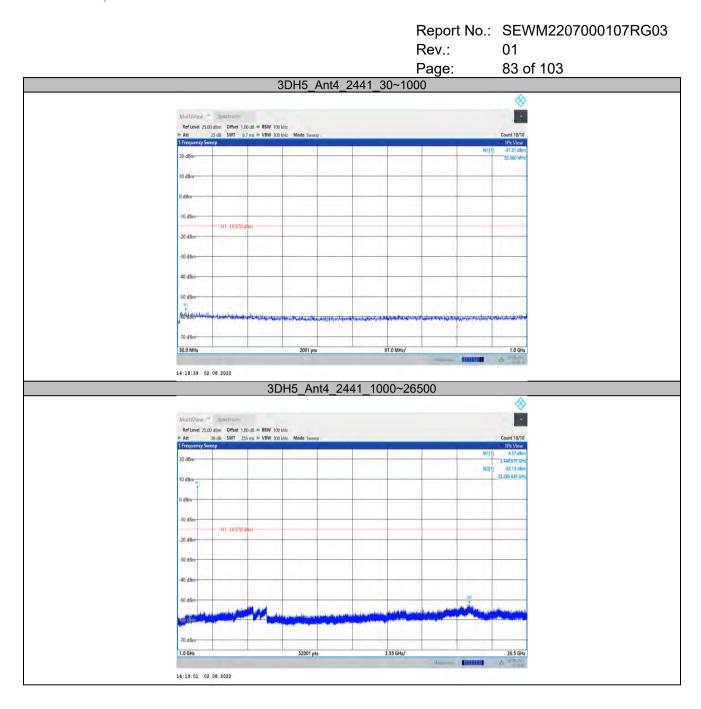
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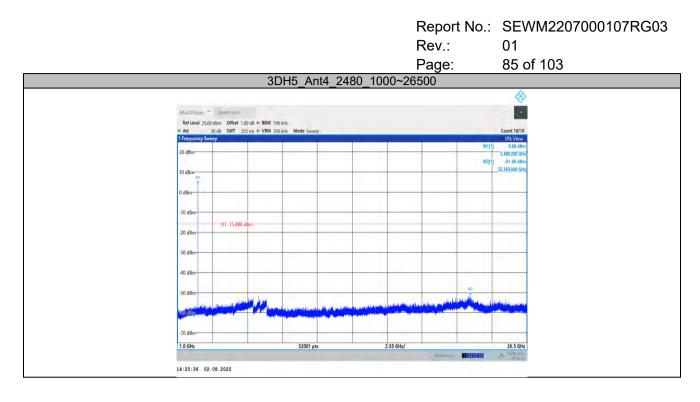


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 SEWM2207000107RG03

 Rev.:
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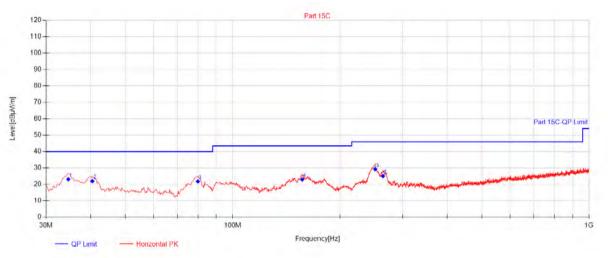
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Radiated Spurious Emissions

Radiated emission below 1GHz

For Sample #1:

Worst case Mode: GFSK _ Channel 78



Final	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.6075	46.23	-36.50	13.38	23.10	40.00	16.90	215	184	Horizontal
2	40.4275	44.19	-36.26	14.03	21.96	40.00	18.04	236	123	Horizontal
3	79.955	48.13	-35.63	9.30	21.79	40.00	18.21	261	145	Horizontal
4	156.8275	44.22	-35.29	14.04	22.97	43.50	20.53	188	298	Horizontal
5	251.4025	51.89	-34.26	11.60	29.24	46.00	16.76	149	193	Horizontal
6	264.255	47.19	-34.11	11.92	25.00	46.00	21.00	172	182	Horizontal



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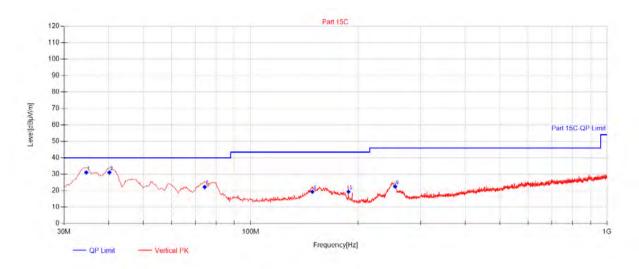
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Fina	I Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.6075	54.19	-36.50	13.38	31.06	40.00	8.94	125	123	Vertical
2	40.185	53.29	-36.27	14.05	31.08	40.00	8.92	236	154	Vertical
3	74.3775	48.19	-36.13	10.15	22.21	40.00	17.79	291	256	Vertical
4	149.0675	40.78	-35.26	13.80	19.32	43.50	24.18	148	165	Vertical
5	188.3525	42.03	-35.39	12.68	19.33	43.50	24.17	175	83	Vertical
6	254.555	45.00	-34.21	11.68	22.47	46.00	23.53	111	4	Vertical



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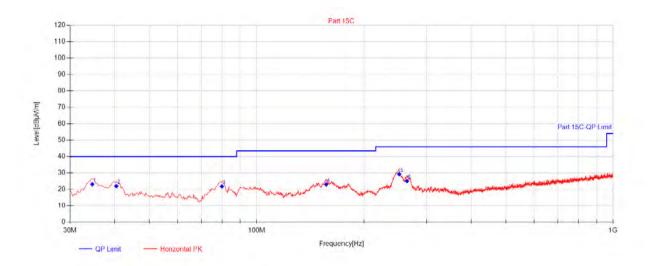
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For Sample #2:

Worst case Mode: GFSK _ Channel 78



Final	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.6075	46.23	-36.50	13.38	23.10	40.00	16.90	215	184	Horizontal
2	40.4275	44.19	-36.26	14.03	21.96	40.00	18.04	236	123	Horizontal
3	79.955	48.13	-35.63	9.30	21.79	40.00	18.21	261	145	Horizontal
4	156.8275	44.22	-35.29	14.04	22.97	43.50	20.53	188	298	Horizontal
5	251.4025	51.89	-34.26	11.60	29.24	46.00	16.76	149	193	Horizontal
6	264.255	47.19	-34.11	11.92	25.00	46.00	21.00	172	182	Horizontal



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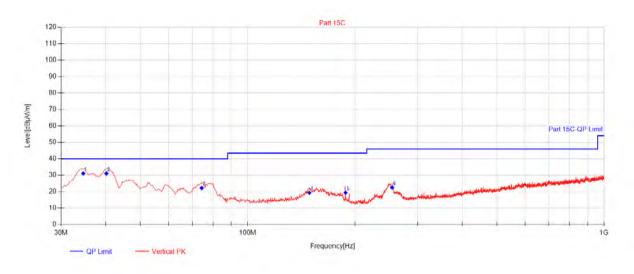
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Fina	I Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.6075	54.19	-36.50	13.38	31.06	40.00	8.94	125	123	Vertical
2	40.185	53.29	-36.27	14.05	31.08	40.00	8.92	236	154	Vertical
3	74.3775	48.19	-36.13	10.15	22.21	40.00	17.79	291	256	Vertical
4	149.0675	40.78	-35.26	13.80	19.32	43.50	24.18	148	165	Vertical
5	188.3525	42.03	-35.39	12.68	19.33	43.50	24.17	175	83	Vertical
6	254.555	45.00	-34.21	11.68	22.47	46.00	23.53	111	4	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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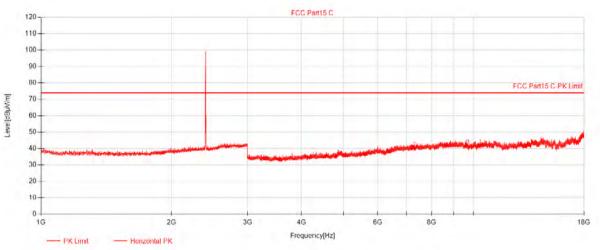
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Transmitter emission Above 1GHz

For Sample #1:

GFSK_Channel 00



Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	48.45	32.33	-45.54	35.24	74.00	38.76	142	144	Horizontal
2	4804.0000	-	-	-	11.54	54.00	42.46	-	-	Horizontal
3	7206.0000	47.12	36.60	-43.44	40.28	74.00	33.72	165	305	Horizontal
4	7206.0000	-	-	-	16.58	54.00	37.42	-	-	Horizontal
5	9608.0000	42.81	38.43	-39.65	41.59	74.00	32.41	185	269	Horizontal
6	9608.0000	-	-	-	17.89	54.00	36.11	-	-	Horizontal



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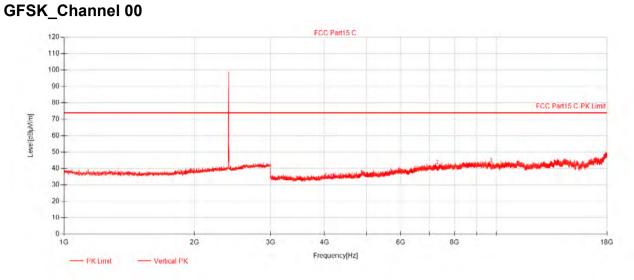
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Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	48.64	32.33	-45.54	35.43	74.00	38.57	185	288	Vertical
2	4804.0000	-	-	-	11.73	54.00	42.27	-	-	Vertical
3	7206.0000	48.02	36.60	-43.44	41.18	74.00	32.82	146	36	Vertical
4	7206.0000	-	-	-	17.48	54.00	36.52	-	-	Vertical
5	9608.0000	43.66	38.43	-39.65	42.44	74.00	31.56	191	4	Vertical
6	9608.0000	-	-	-	18.74	54.00	35.26	-	-	Vertical



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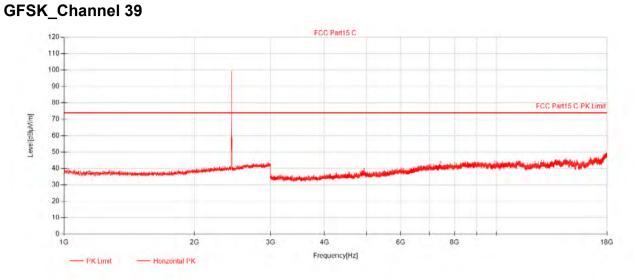
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Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4882.0000	49.63	32.55	-45.53	36.65	74.00	37.35	172	324	Horizontal
2	4882.0000	-	-	-	12.95	54.00	41.05	-	-	Horizontal
3	7323.0000	47.52	36.53	-43.67	40.38	74.00	33.62	164	198	Horizontal
4	7323.0000	-	-	-	16.68	54.00	37.32	-	-	Horizontal
5	9764.0000	42.24	38.26	-39.47	41.03	74.00	32.97	189	154	Horizontal
6	9764.0000	-	-	-	17.33	54.00	36.67	-	-	Horizontal



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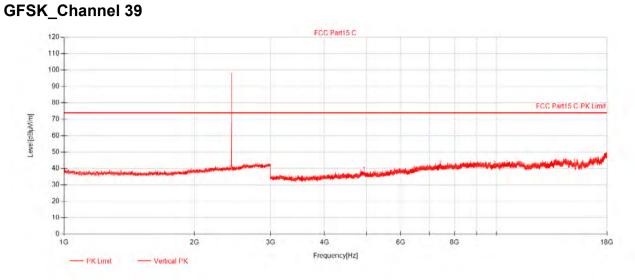
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Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4882.0000	50.02	32.55	-45.53	37.04	74.00	36.96	126	306	Vertical
2	4882.0000	-	-	-	13.34	54.00	40.66	-	-	Vertical
3	7323.0000	48.10	36.53	-43.67	40.96	74.00	33.04	146	250	Vertical
4	7323.0000	-	-	-	17.26	54.00	36.74	-	-	Vertical
5	9764.0000	42.27	38.26	-39.47	41.06	74.00	32.94	236	124	Vertical
6	9764.0000	-	-	-	17.36	54.00	36.64	-	-	Vertical



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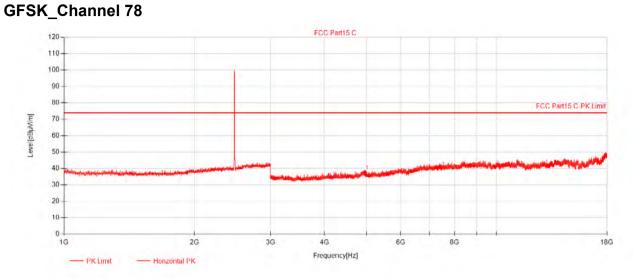
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Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4960.0000	50.61	32.77	-45.60	37.78	74.00	36.22	126	142	Horizontal				
2	4960.0000	-	-	-	14.08	54.00	39.92	-	-	Horizontal				
3	7440.0000	47.07	36.47	-43.30	40.24	74.00	33.76	251	35	Horizontal				
4	7440.0000	-	-	-	16.54	54.00	37.46	-	-	Horizontal				
5	9920.0000	41.85	38.38	-39.31	40.92	74.00	33.08	148	71	Horizontal				
6	9920.0000	-	-	-	17.22	54.00	36.78	-	-	Horizontal				



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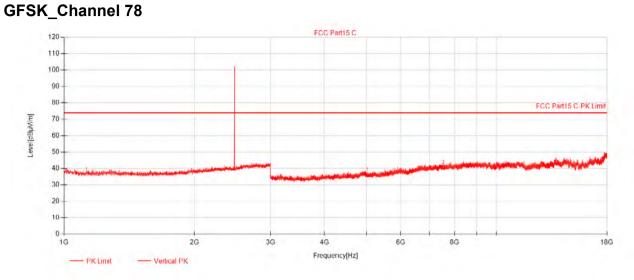
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Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.82	32.77	-45.60	36.99	74.00	37.01	169	176	Vertical
2	4960.0000	-	-	-	13.29	54.00	40.71	-	-	Vertical
3	7440.0000	47.98	36.47	-43.30	41.15	74.00	32.85	145	140	Vertical
4	7440.0000	-	-	-	17.45	54.00	36.55	-	-	Vertical
5	9920.0000	41.24	38.38	-39.31	40.31	74.00	33.69	175	252	Vertical
6	9920.0000	-	-	-	16.61	54.00	37.39	-	-	Vertical



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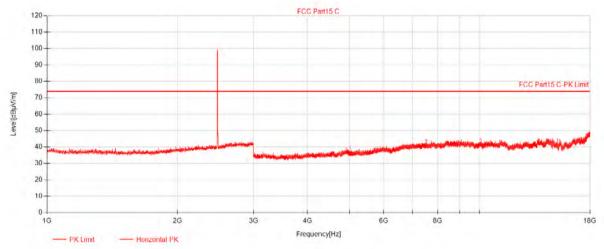
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For Sample #2(Worst):

GFSK_Channel 78



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4960.0000	49.78	32.77	-45.60	36.95	74.00	37.05	235	359	Horizontal				
2	4960.0000	-	-	-	13.25	54.00	40.75	-	-	Horizontal				
3	7440.0000	47.53	36.47	-43.30	40.70	74.00	33.30	126	4	Horizontal				
4	7440.0000	-	-	-	17.00	54.00	37.00	-	-	Horizontal				
5	9920.0000	42.07	38.38	-39.31	41.14	74.00	32.86	155	233	Horizontal				
6	9920.0000	-	-	-	17.44	54.00	36.56	-	-	Horizontal				



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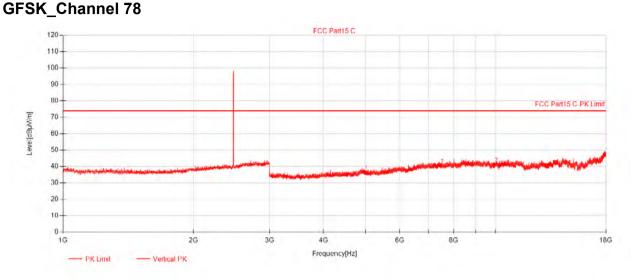
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Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4960.0000	49.70	32.77	-45.60	36.87	74.00	37.13	185	288	Vertical				
2	4960.0000	-	-	-	13.17	54.00	40.83	-	-	Vertical				
3	7440.0000	47.43	36.47	-43.30	40.60	74.00	33.40	261	126	Vertical				
4	7440.000	-	-	-	16.90	54.00	37.10	-	-	Vertical				
5	9920.0000	42.37	38.38	-39.31	41.44	74.00	32.56	236	53	Vertical				
6	9920.0000	-	-	-	17.74	54.00	36.26	-	-	Vertical				

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

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



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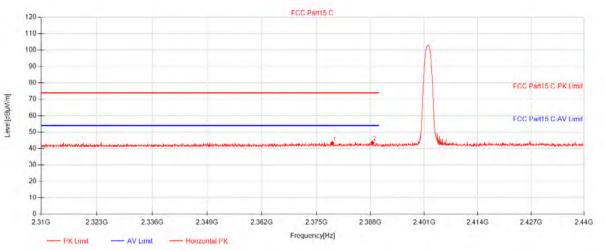
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Restricted bands around fundamental frequency

For Sample #1:

GFSK_Channel 00



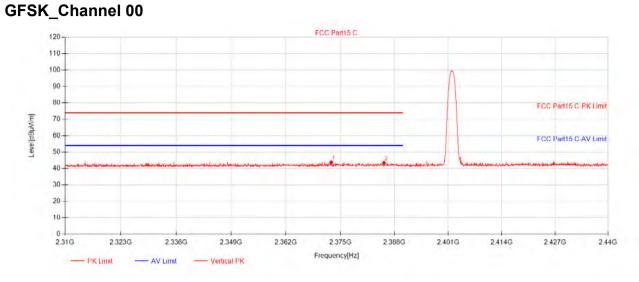
Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2378.8133	39.40	27.43	-23.57	43.26	74.00	30.74	178	330	Horizontal		
2	2378.8133	-	-	-	19.56	54.00	34.44	-	-	Horizontal		
3	2388.4767	39.66	27.43	-23.57	43.52	74.00	30.48	178	330	Horizontal		
4	2388.4767	-	-	-	19.82	54.00	34.18	-	-	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]	Height [cm]	Angle [°]	Polarity		
1	2372.8333	39.96	27.43	-23.57	43.81	74.00	30.19	351	4	Vertical		
2	2372.8333	-	-	-	20.11	54.00	33.89	-	-	Vertical		
3	2385.4867	39.61	27.43	-23.57	43.47	74.00	30.53	351	4	Vertical		
4	2385.4867	-	-	-	19.77	54.00	34.23	-	-	Vertical		



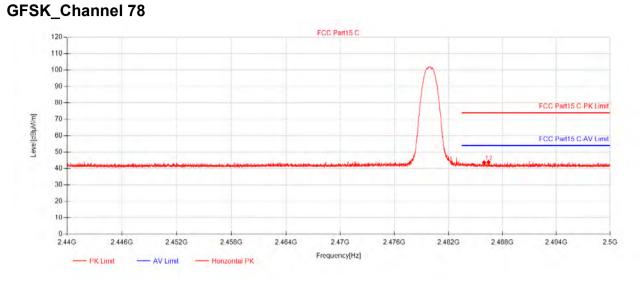
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2485.96	39.55	27.72	-23.54	43.73	74.00	30.27	178	68	Horizontal		
2	2485.96	-	-	-	20.03	54.00	33.97	-	-	Horizontal		
3	2486.455	39.71	27.73	-23.54	43.89	74.00	30.11	178	68	Horizontal		
4	2486.455	-	-	-	20.19	54.00	33.81	-	-	Horizontal		



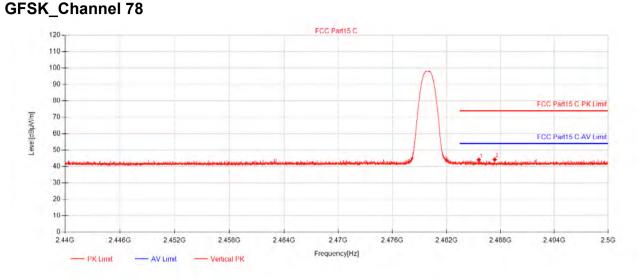
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2485.5925	39.92	27.72	-23.54	44.10	74.00	29.90	133	100	Vertical		
2	2485.5925	-	-	-	20.40	54.00	33.60	-	-	Vertical		
3	2487.3625	40.09	27.73	-23.54	44.27	74.00	29.73	133	100	Vertical		
4	2487.3625	-	-	-	20.57	54.00	33.43	-	-	Vertical		



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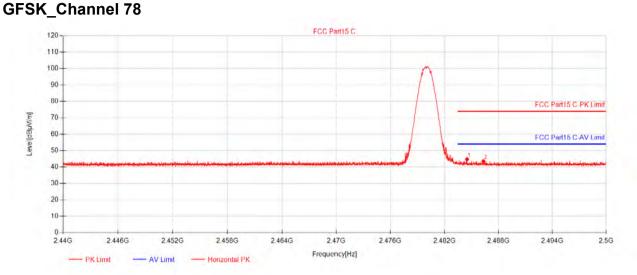
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For Sample #2(Worst):



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2484.505	40.59	27.72	-23.54	44.76	74.00	29.24	111	281	Horizontal	
2	2484.505	-	-	-	21.06	54.00	32.94	-	-	Horizontal	
3	2486.3275	39.40	27.72	-23.54	43.58	74.00	30.42	111	281	Horizontal	
4	2486.3275	-	-	-	19.88	54.00	34.12	-	-	Horizontal	



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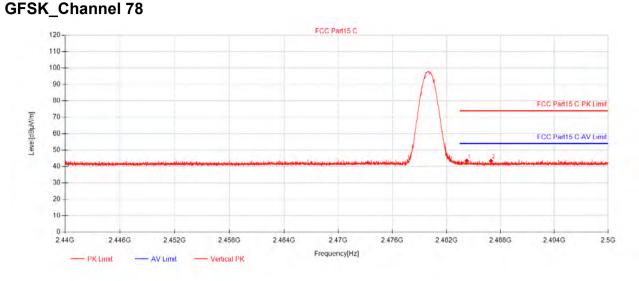
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2484.2575	39.41	27.72	-23.54	43.58	74.00	30.42	169	310	Vertical		
2	2484.2575	-	-	-	19.88	54.00	34.12	-	-	Vertical		
3	2486.95	39.23	27.73	-23.54	43.41	74.00	30.59	169	310	Vertical		
4	2486.95	-	-	-	19.71	54.00	34.29	-	-	Vertical		

Remark:

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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