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TEST REPORT

Application No.:	SEWA2204000010RG
Applicant:	Fibocom Auto Inc.
Address of Applicant:	13th Floor,Building A,Building 6,Shenzhen International Innovation Valley,Xili Community,Xili Street,Nanshan District,Shenzhen
Manufacturer:	Fibocom Auto Inc.
Address of Manufacturer:	13th Floor,Building A,Building 6,Shenzhen International Innovation Valley,Xili Community,Xili Street,Nanshan District,Shenzhen
EUT Description:	WIFI Module
Model No.:	AW916-GL
Trade Mark:	Fibocom
FCC ID:	2A8RBAW916GL
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C
Date of Receipt:	2022/09/27
Date of Test:	2022/09/28 to 2022/10/28
Date of Issue:	2022/11/04
Test Result :	PASS *

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

Authorized Signature:

anta Sun

Panta Sun Wireless Laboratory Manager



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1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2022/11/04		Original

Prepared By	(Ives Cheng) / Test Engineer
Checked By	(Well Wei) / Reviewer



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2 Test Summary

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Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2013) Section 6.2	Clause 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013) Section 11.9.2.3	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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General Information 3

3.1 Details of Client

Applicant:	Fibocom Auto Inc.
Address of Applicant:	13th Floor, Building A, Building 6, Shenzhen International Innovation Valley, Xili Community, Xili Street, Nanshan District, Shenzhen
Manufacturer:	Fibocom Auto Inc.
Address of Manufacturer:	13th Floor, Building A, Building 6, Shenzhen International Innovation Valley, Xili Community, Xili Street, Nanshan District, Shenzhen

3.2 Test Location

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

3.3 Test Facility

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

A2LA (Certificate No. 6336.01)

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0120.

IC#: 27594.

FCC –Designation Number: CN1312

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

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EUT Description:	WIFI Module		
Model No.:	AW916-GL		
Trade Mark:	Fibocom		
Hardware Version:	AW916-GL-00-01_PCBA		
Software Version:	T02L-GA-EAU_R2.1_V.B.1.0	05	
SN:	RF Conducted	AW72NL004L	
SIN:	RSE & AC power line	AW72NJ006R	
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 V5.1		
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, π/4DQPSK, 8DPSK		
Number of Channel:	79		
Hopping Channel Type:	Adaptive Frequency Hopping systems		
Antenna Type:	External Antenna		
	2.82dBi		
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
RF Cable:	1dB		
Remark:			

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

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(℃)	Voltage(V)	
NTNV	22-23	3.8	
Remark: NV: Normal Voltage NT: Normal Temperature			

3.6 Description of Support Units

Description	Manufacturer	Model No.		
Test auxiliary PCB board	Fibocom	N/A		
Remark: all above the information of table are provided by client.				



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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 External Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.82dBi*.

*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 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.

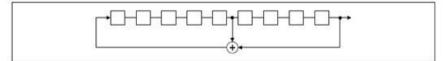
> Number of shift register stages: 9

> 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



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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

SG

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013 Section 6.2				
Test Frequency Range:	150kHz to 30MHz				
Receiver Setup:	RBW = 9kHz, VBW = 30kHz				
Limit:	Limit (dBuV)				
	Frequency range (MHz) Quasi-peak Avera				
	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 horizon 4) The test was perform 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 	listurbance voltage test was a ected to AC power source to ion Network) which provides ower cables of all other un ad LISN 2, which was bonded way as the LISN 1 for the un the rating of the LISN was not as placed upon a non-metalline. And for floor-standing arr that ground reference plane. ed with a vertical ground refe 4 m from the vertical ground refe 4 m from the vertical ground refe e ground reference plane. This the LISN 1 was placed 0.8 m fr bonded to a ground refe 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 bit exceeded. ic table 0.8m above the angement, the EUT was rence plane. The rear of d reference plane. The the horizontal ground from the boundary of the rence plane for LISNs is distance was between I other units of the EUT the LISN 2.		

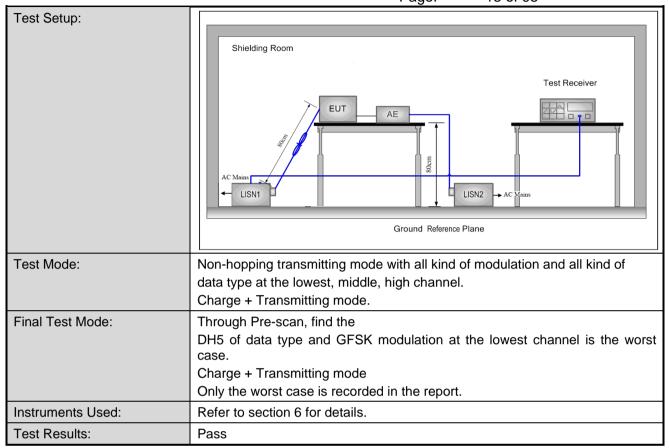


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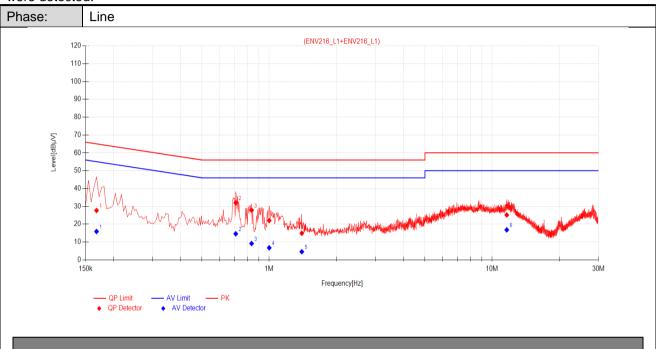
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Measurement Data

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.



Final Data List

	NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
	1	0.1680	10.71	16.97	27.68	65.06	37.38	5.22	15.93	55.06	39.13	PASS
	2	0.7080	10.57	21.48	32.05	56.00	23.95	4.04	14.61	46.00	31.39	PASS
	3	0.8340	10.54	17.32	27.86	56.00	28.14	-1.38	9.16	46.00	36.84	PASS
	4	1.0005	10.49	11.55	22.04	56.00	33.96	-3.72	6.77	46.00	39.23	PASS
	5	1.4010	10.79	4.14	14.93	56.00	41.07	-6.21	4.58	46.00	41.42	PASS
	6	11.6430	10.59	14.58	25.17	60.00	34.83	6.23	16.82	50.00	33.18	PASS
Б.	ابر م ممر											

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]

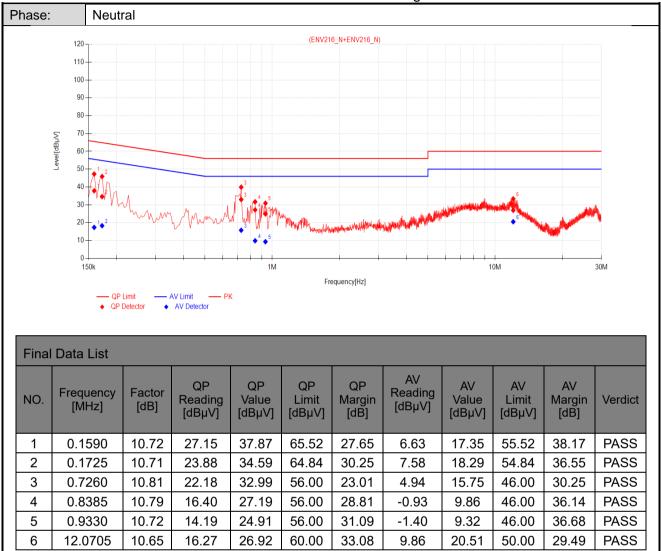


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Remark:

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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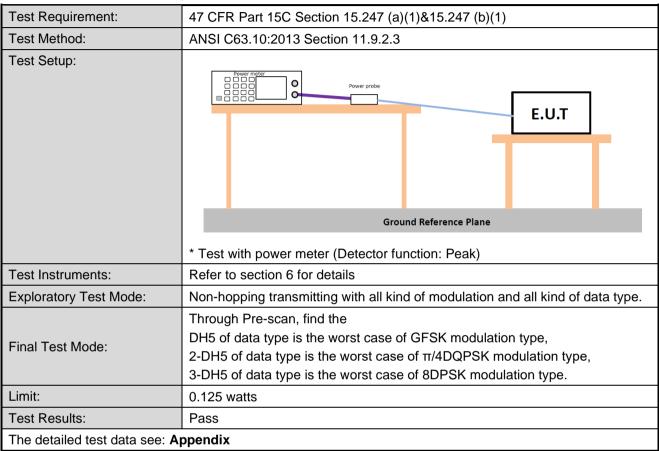
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4.4 Conducted Output Power





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4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth

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Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)			
Test Method:	ANSI C63.10:2013 Section 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 Generat \cap PC munication RF Control Unit 0 0 0 E.U.T Analog Signal Genera \mathbf{O} 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 Separationy



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	PC FC FC FC FC FC FC FC FC FC F
Instruments Used:	Refer to section 6 for details
Test Mode:	Hopping transmitting with all kind of modulation
Limit:	At least 15 channels
Test Results:	Pass
The detailed test data see:	Appendix



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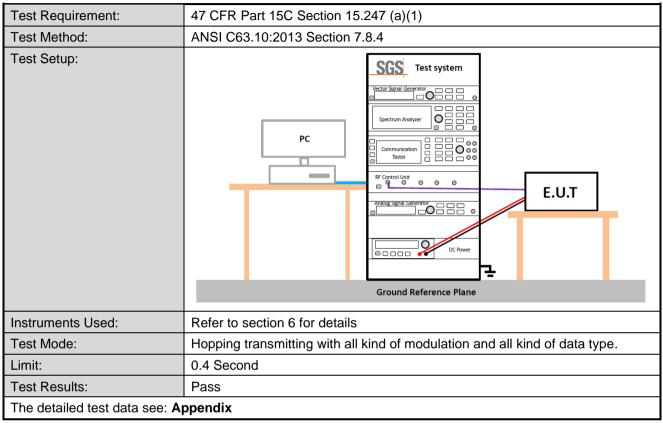
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4.8 Dwell Time





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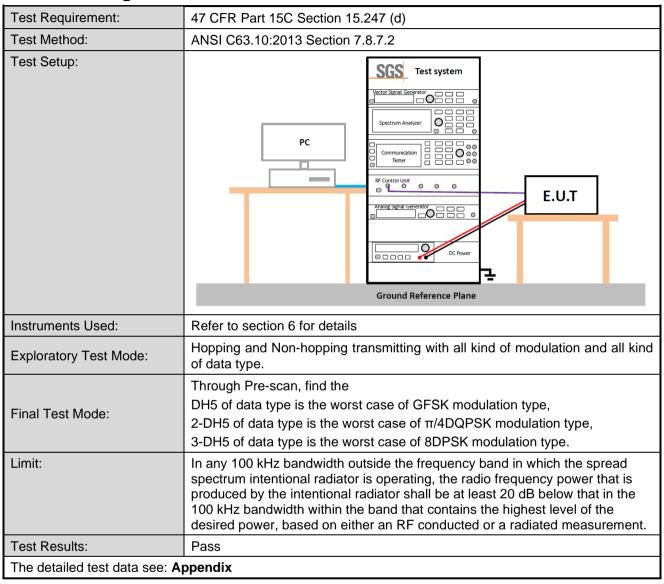
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4.9 Band-edge for RF Conducted Emissions





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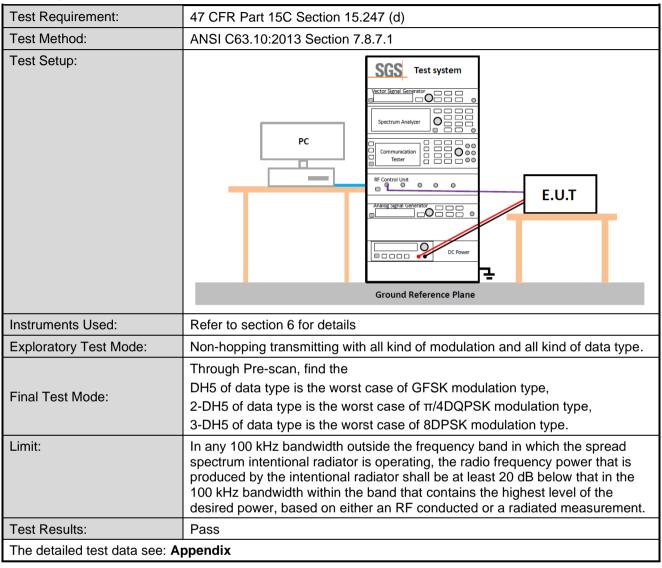
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4.10Spurious RF Conducted Emissions





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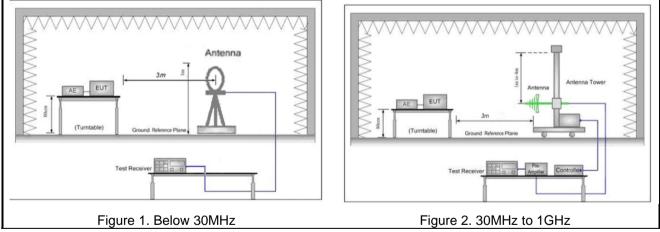
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4.11 Radiated Spurious Emissions

-						
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10 :2013 Section	on 6.4 / 6.5 / 6.6				
Test Site:	Measurement Distance: 3	m (Semi-Anechoic	Chamber)			
Test Frequency:	9kHz ~ 25GHz					
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)	
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300	
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30	
	1.705MHz-30MHz 30 -				30	
	30MHz-88MHz 100 40.0 Quasi-peak 3					
	88MHz-216MHz 150 43.5 Quasi-peak 3					
	216MHz-960MHz	200	46.0	Quasi-peak	3	
	960MHz-1GHz	500	54.0	Quasi-peak	3	
	Above 1GHz	500	54.0	Average	3	
	Remark: 15.35(b),Unless	otherwise specified	d, the limit or	n peak radio fre	equency	
	emissions is 20dB above	the maximum pern	nitted averag	e emission lim	it	
	applicable to the equipme level radiated by the device		peak limit ap	oplies to the tot	al peak emission	

Test Setup:

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	Im or 3m Im or 3m Hurs Akteurs Turntable Ground Reference Plane Test Receiver transfer
	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 1000MHz
	• RBW = 120 kHz
	• VBW = 300 kHz
	• Detector = Peak
	 Trace mode = max hold
	Peak Measurements Above 1000 MHz



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	• 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).
Eveloretor / 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	a see: Appendix



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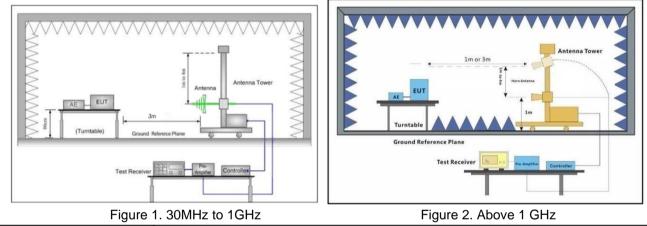
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4.12Restricted bands around fundamental frequency

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

Test Setup:

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Test Procedure:	a.	For below 1GHz, the EUT was placed on the above the ground at a 3 or 10 meter sem rotated 360 degrees to determine the position of the position of the second secon	ni-anechoic camber. The table was
	b.	For above 1GHz, the EUT was placed of meters above the ground at a 3 meter sen rotated 360 degrees to determine the positi	ni-anechoic camber. The table was
	c.	The EUT was set 3 or 10 meters awa antenna, which was mounted on the top of	
	d.	The antenna height is varied from one met to determine the maximum value of the f vertical polarizations of the antenna are set	field strength. Both horizontal and
	e.	For each suspected emission, the EUT w then the antenna was tuned to heights fur rotatable table was turned from 0 degr maximum reading.	rom 1 meter to 4 meters and the
	f.	The test-receiver system was set to Pea Bandwidth with Maximum Hold Mode.	ak Detect Function and Specified
		Diana a manipum at the anal of the masteria	te de la cale de la cale de la deserve de la cale de la c

Place a marker at the end of the restricted band closest to the transmit g.



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



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

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)		
	Dedicted Emission	± 4.80dB (30M -1GHz)		
0	Radiated Emission	± 4.80dB (1GHz to 18GHz)		
		± 4.80dB (Above 18GHz)		

Remark:

S

The Ulab (lab Uncertainty) is less than Ucispi/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	Cal Due Date			
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	2022/02/16	2023/02/15			
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			
Signal Analyzer	ROHDE&SCHWARZ	FSW43 SUWI-01-02-04		2022/05/28	2023/05/27			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14			
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			
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13			
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13			

CE Test System							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07		
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/16	2023/02/15		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/16	2023/02/15		
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/16	2023/02/15		
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		
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14		
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	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	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09		
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR		



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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20dB Emission Bandwidth Test Result

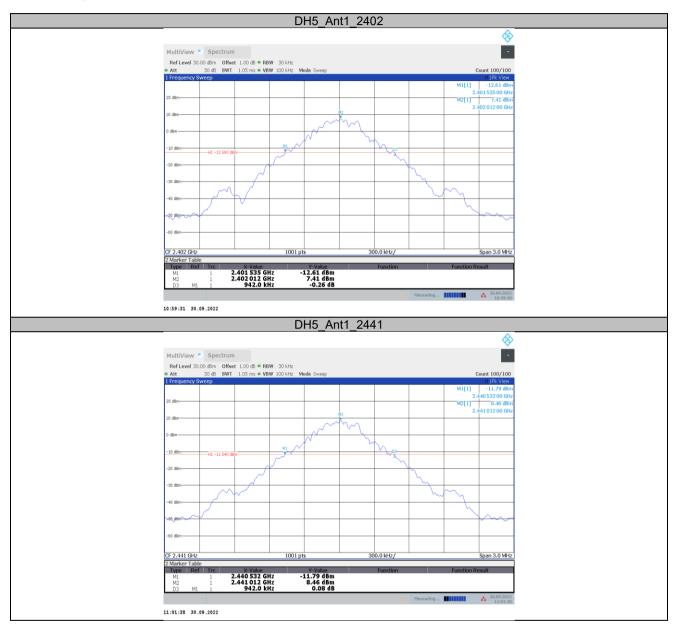
TestMode	Antenna	Frequency[MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.94	2401.54	2402.48		
DH5	Ant1	2441	0.94	2440.53	2441.47		
		2480	0.94	2479.53	2480.47		
		2402	1.32	2401.34	2402.65		
2DH5 Ant1	Ant1	2441	1.32	2440.34	2441.65		
		2480	1.32	2479.33	2480.65		
3DH5 Ani		2402	1.30	2401.35	2402.65		
	Ant1	2441	1.30	2440.35	2441.65		
		2480	1.30	2479.35	2480.65		



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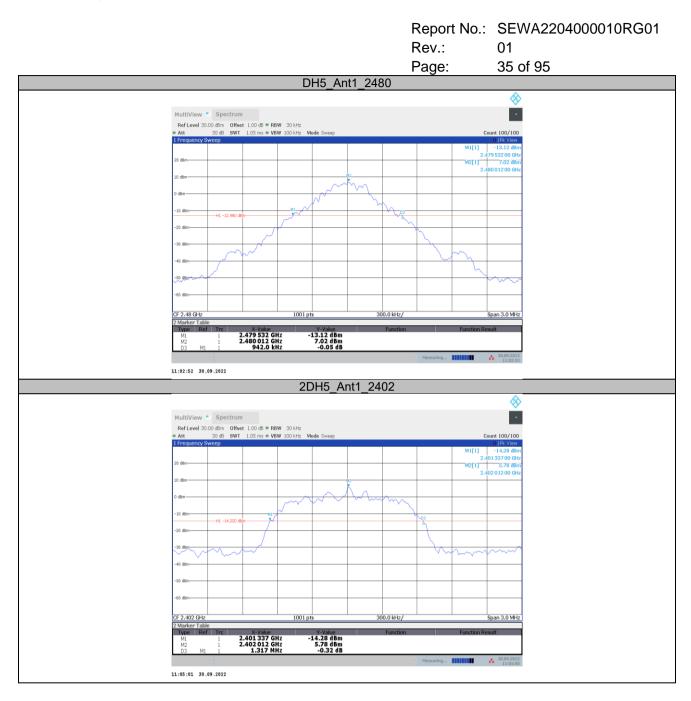
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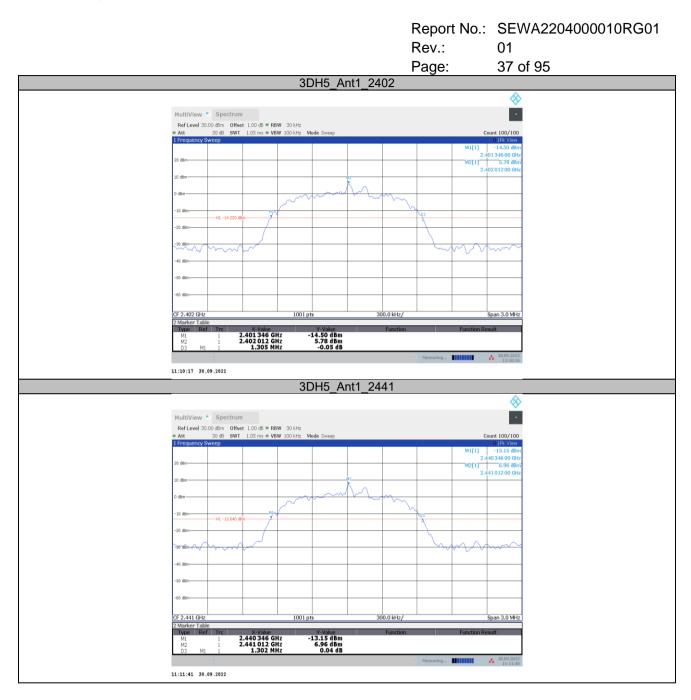




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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict	
		2402	0.837	2401.575	2402.412			
DH5	Ant1	2441	0.848	2440.568	2441.416			
		2480	0.846	2479.567	2480.414			
	Ant1	2402	1.189	2401.401	2402.590			
2DH5		2441	1.197	2440.398	2441.595			
		2480	1.206	2479.393	2480.599			
3DH5			2402	1.196	2401.395	2402.592		
	Ant1	2441	1.207	2440.388	2441.594			
		2480	1.215	2479.383	2480.597			



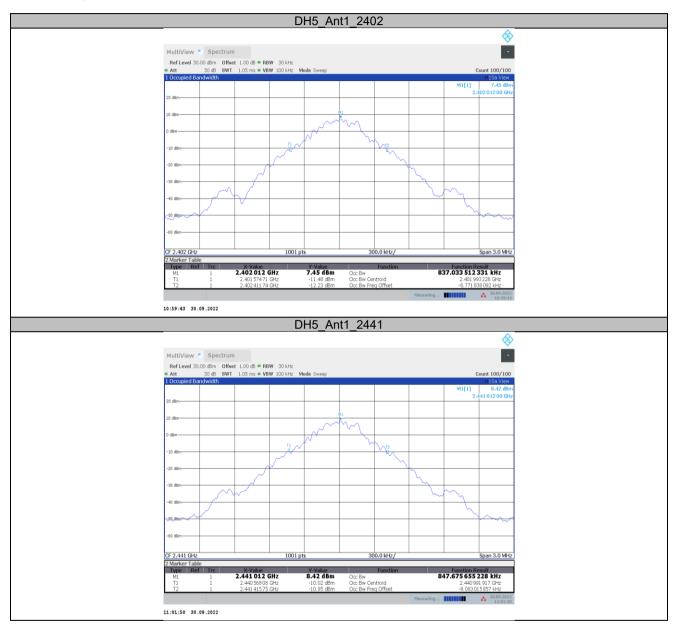
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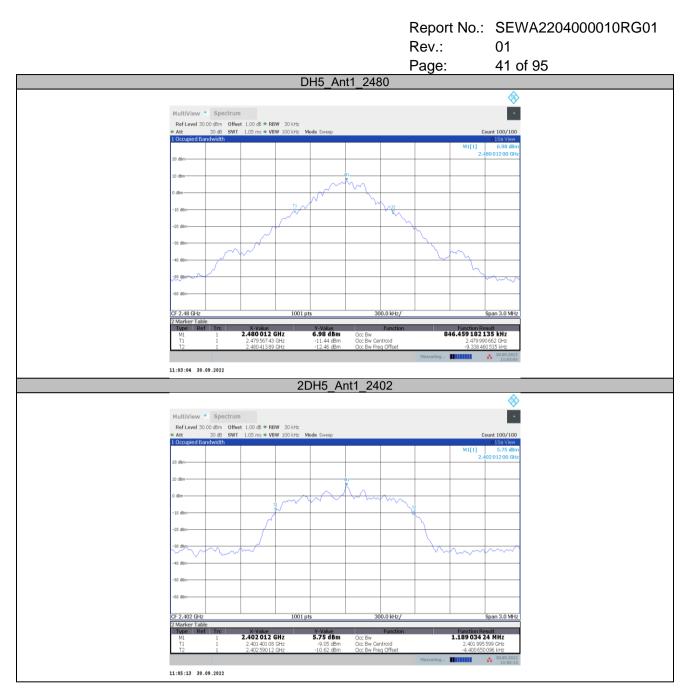
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Test Graphs



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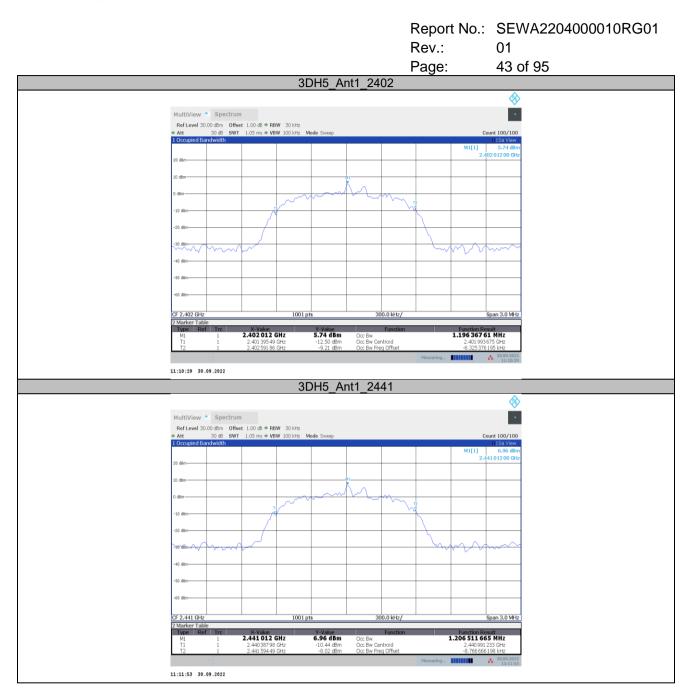


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Maximum conducted output power Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
		2402	9.2	≤20.97	PASS
DH5	Ant1	2441	10.22	≤20.97	PASS
		2480	9.1	≤20.97	PASS
	Ant1	2402	9.13	≤20.97	PASS
2DH5		2441	9.82	≤20.97	PASS
		2480	9.01	≤20.97	PASS
3DH5	Ant1	2402	9.17	≤20.97	PASS
		2441	9.89	≤20.97	PASS
		2480	9.05	≤20.97	PASS



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Carrier frequency separation Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Нор	0.996	≥0.628	PASS
2DH5	Ant1	Нор	1.012	≥0.878	PASS
3DH5	Ant1	Нор	0.996	≥0.868	PASS



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Test Graphs



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		3DH5_Ant1_Hop		
MultiViow	 Spectrum 			
	30.00 dBm Offset 1.00 dB = RBW 300 kHz			
• Att	30 dB SWT 1.01 ms • VBW 300 kHz	Mode Sweep		
1 Frequency				01Fk View
			M1[1]	9.32 dBm 10.842.00 GHz
20 dBm				=
				996.00 kHz
10 dBm	M1		02	
20 00/1			5	
0 dBm				
U dbm				
-10 dBm				
-20 dBm				
-30 dBm				
-40 dBm				
-50 dBm				
-60 dBm				
2.440 5 GHz	100	l pts 200.0 kH		2.442 5 GHz
2.440.5 612		2000 81		30.09.2022 11:41:56
				11:41:56
11:41:57 3	0.09.2022			



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Time of occupancy Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.36	320	0.115	≤0.4	PASS
DH3	Ant1	Нор	1.62	160	0.259	≤0.4	PASS
DH5	Ant1	Нор	2.87	106.67	0.306	≤0.4	PASS
2DH1	Ant1	Нор	0.37	320	0.118	≤0.4	PASS
2DH3	Ant1	Нор	1.62	160	0.259	≤0.4	PASS
2DH5	Ant1	Нор	2.87	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Нор	0.37	320	0.118	≤0.4	PASS
3DH3	Ant1	Нор	1.62	160	0.259	≤0.4	PASS
3DH5	Ant1	Нор	2.87	106.67	0.306	≤0.4	PASS



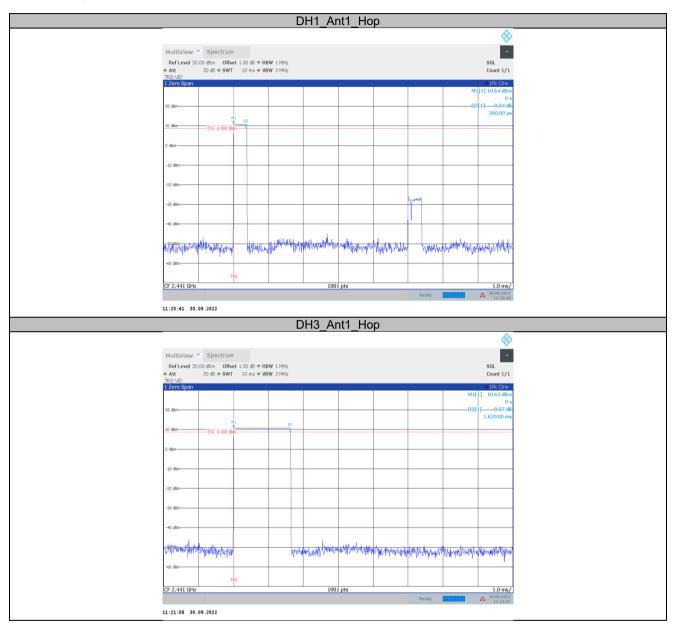
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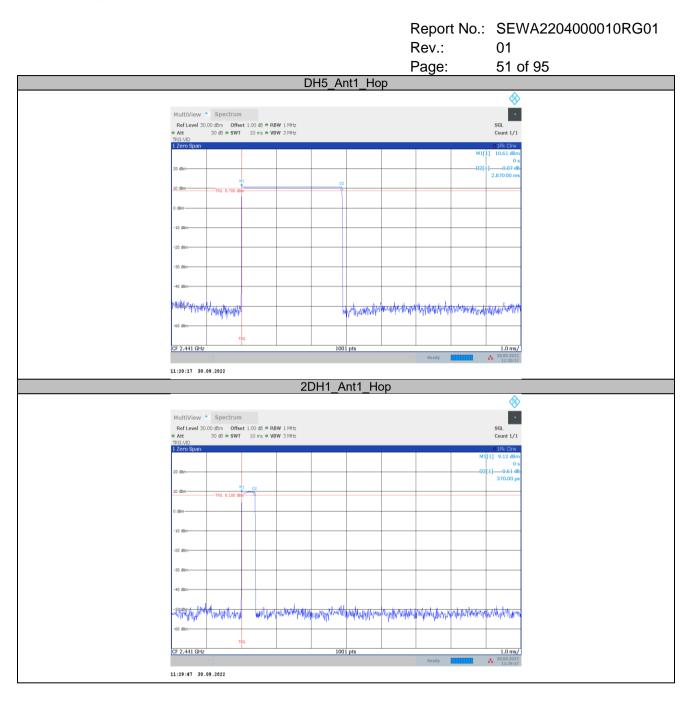
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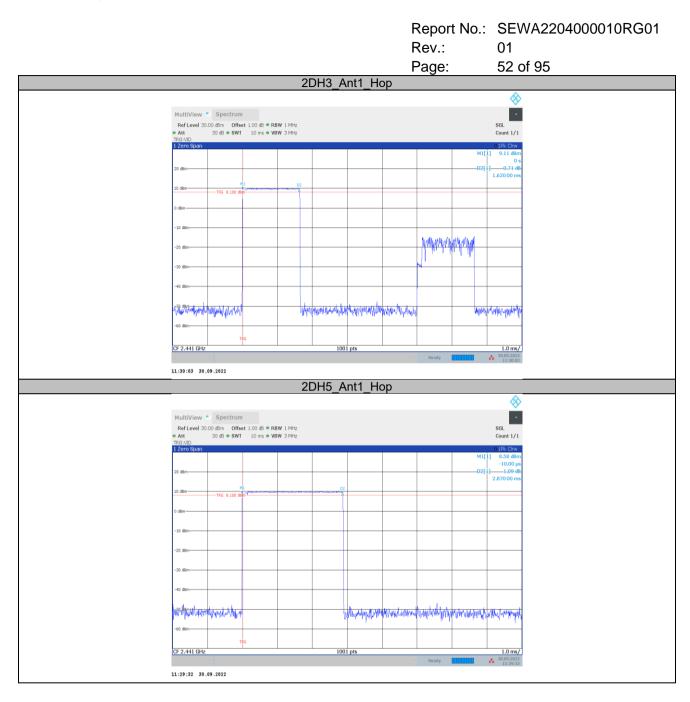




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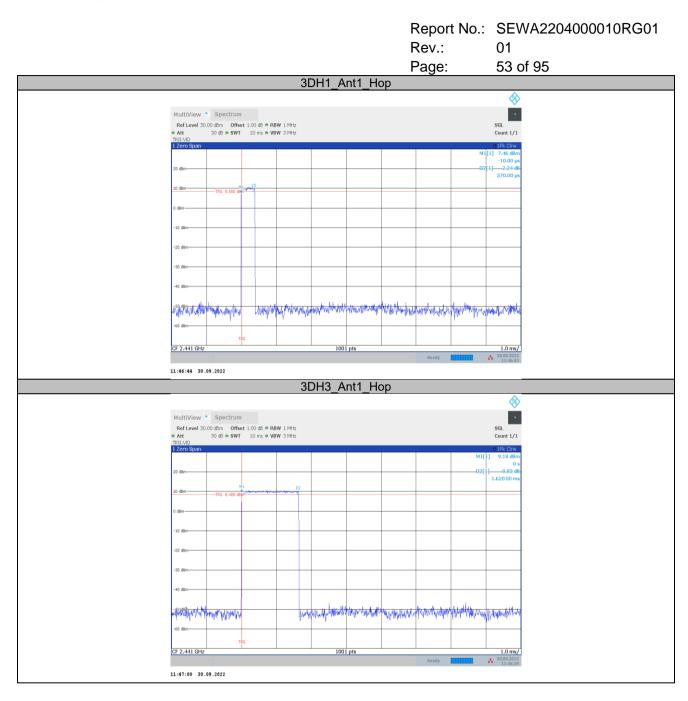
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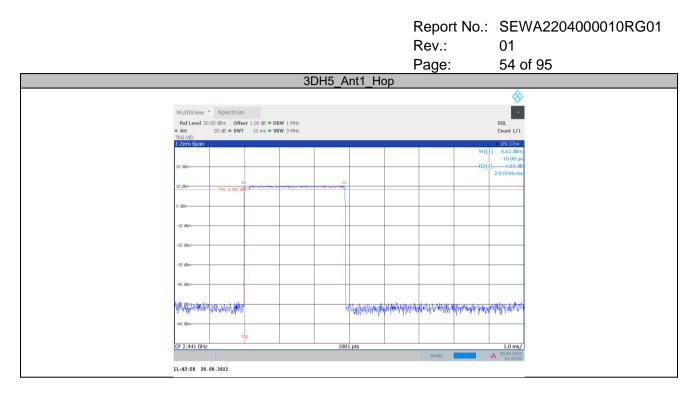
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Number of hopping channels Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Нор	79	≥15	PASS
2DH5	Ant1	Нор	79	≥15	PASS
3DH5	Ant1	Нор	79	≥15	PASS



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Test Graphs

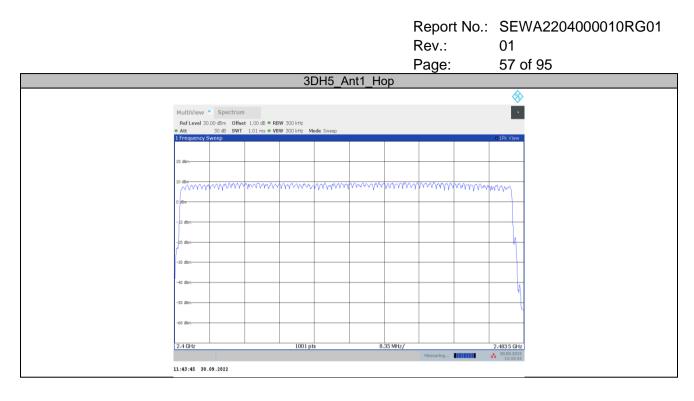


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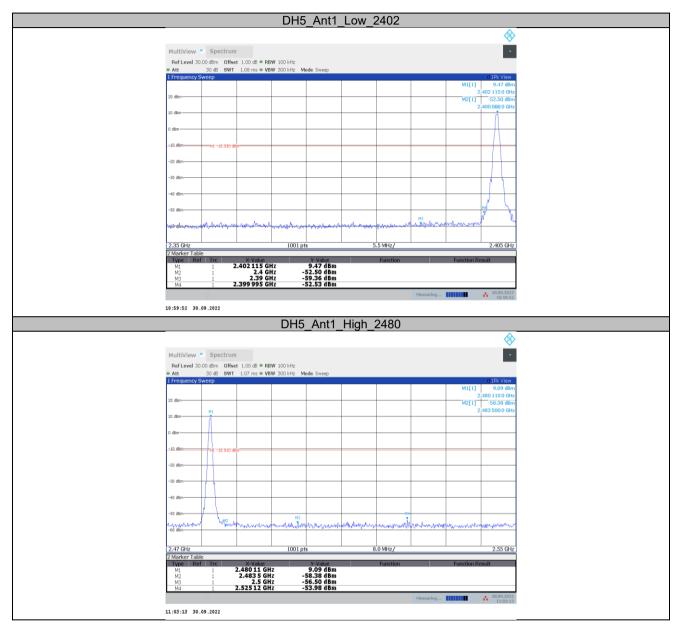
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Band edge measurements

Test Graphs





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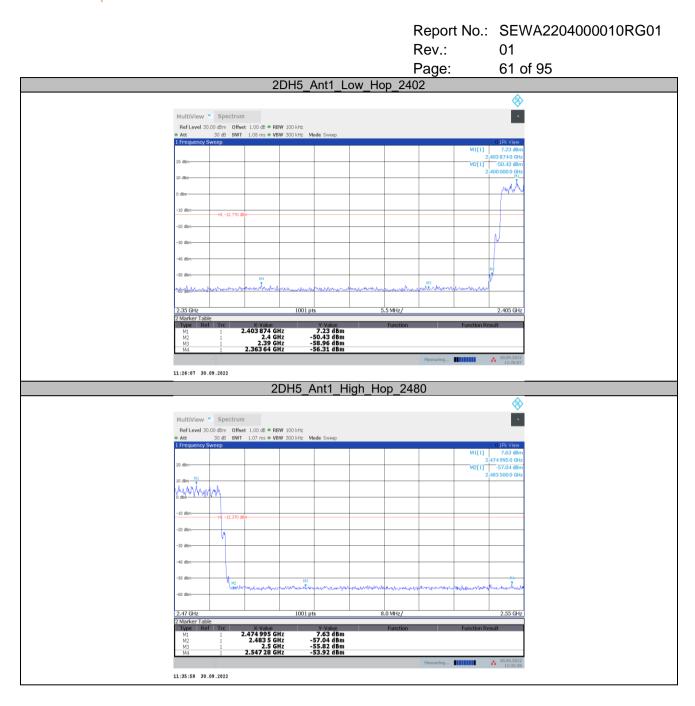
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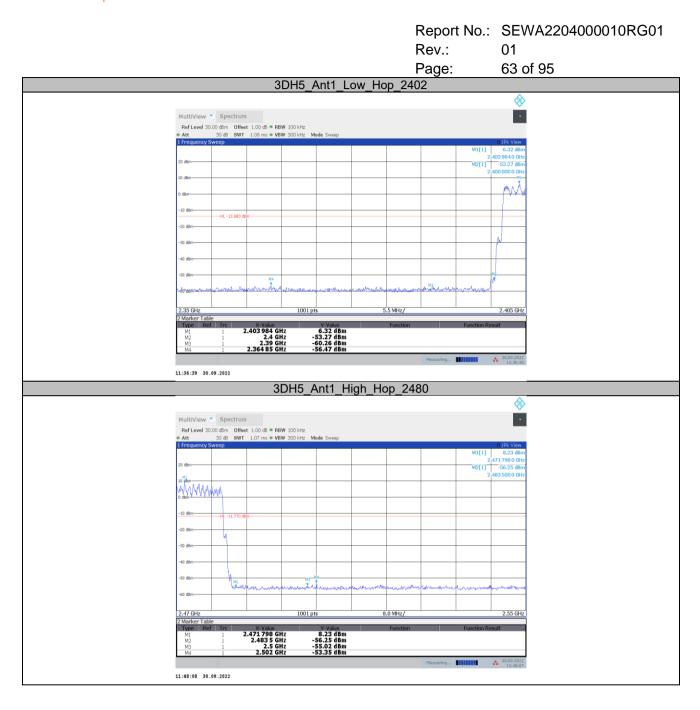


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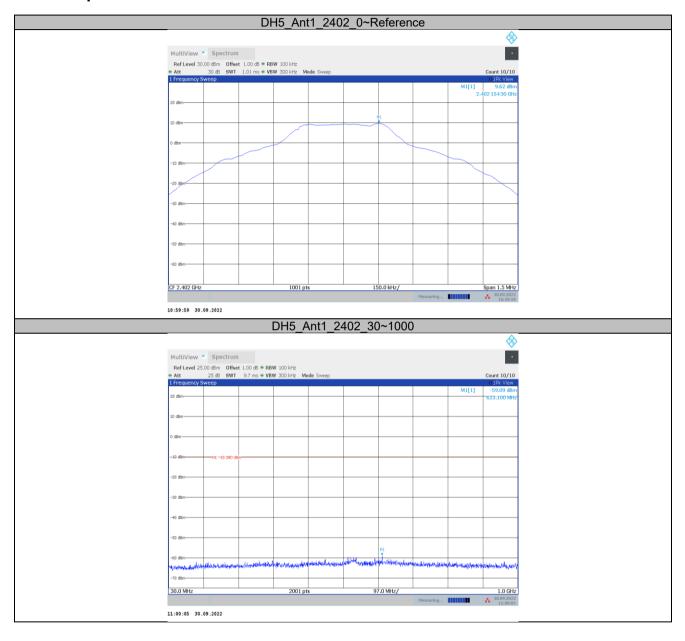
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Conducted Spurious Emission Test Graphs

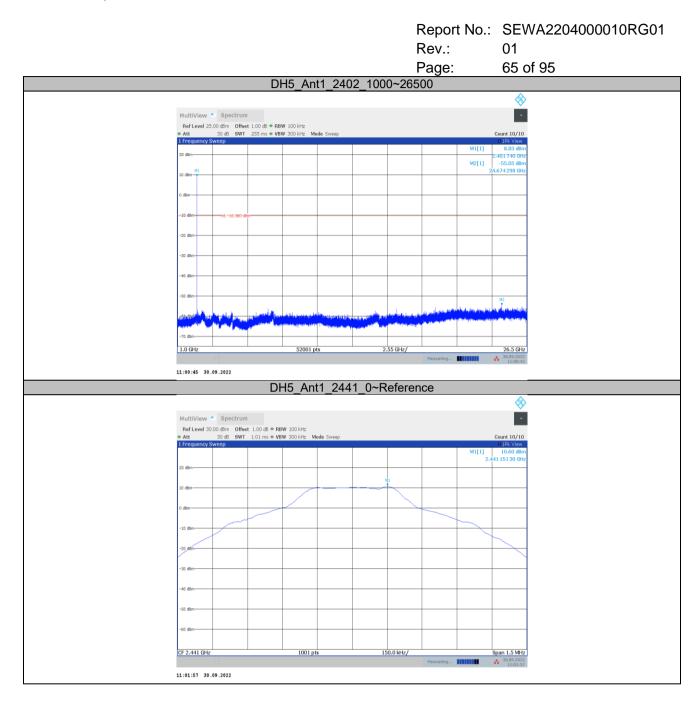




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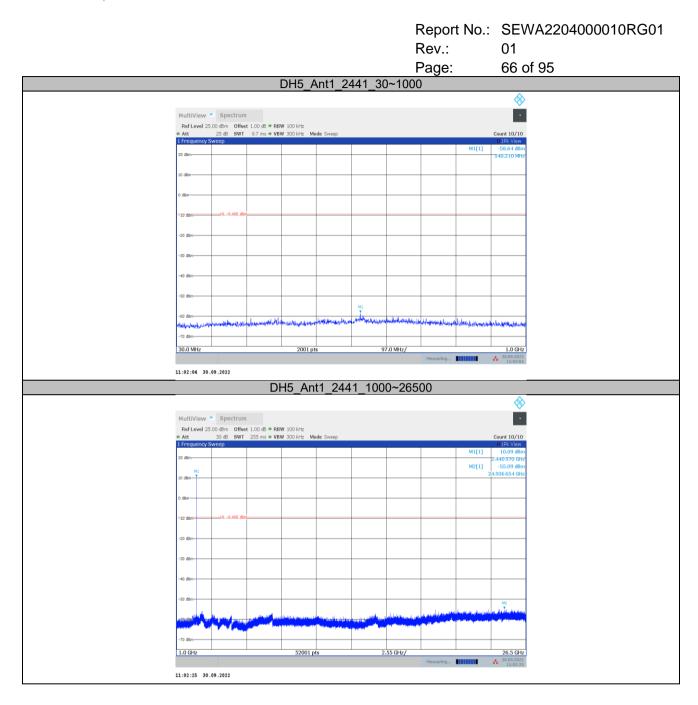




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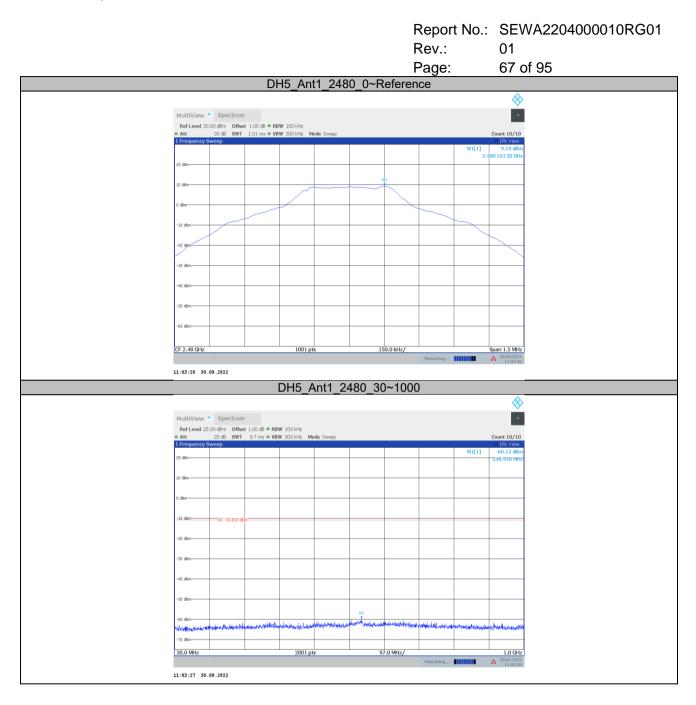
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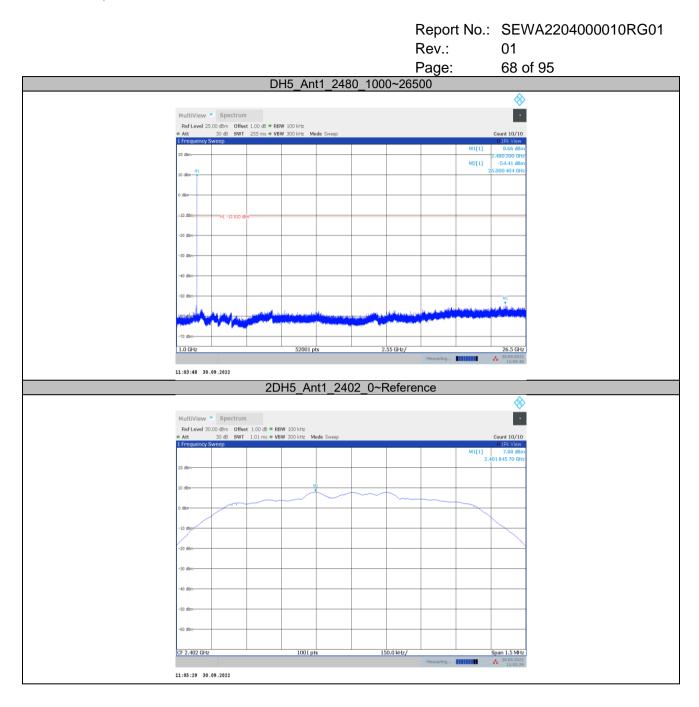




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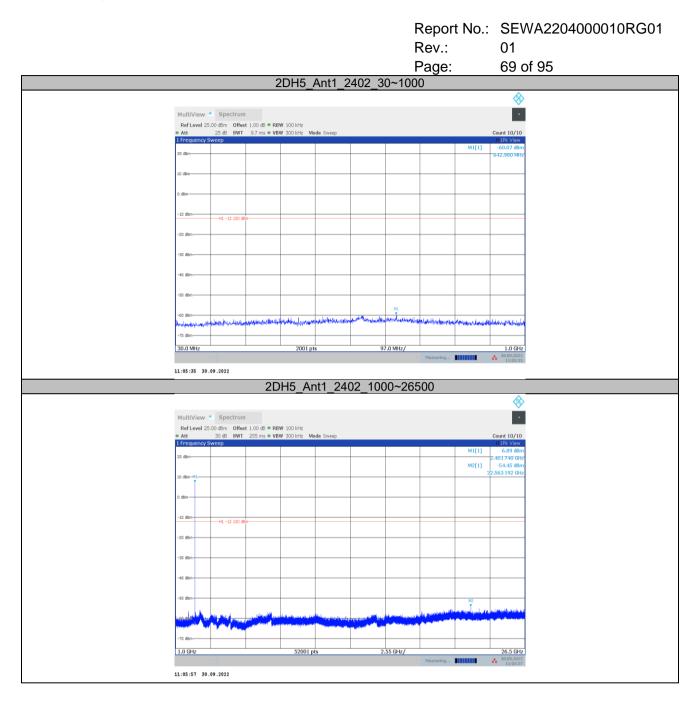
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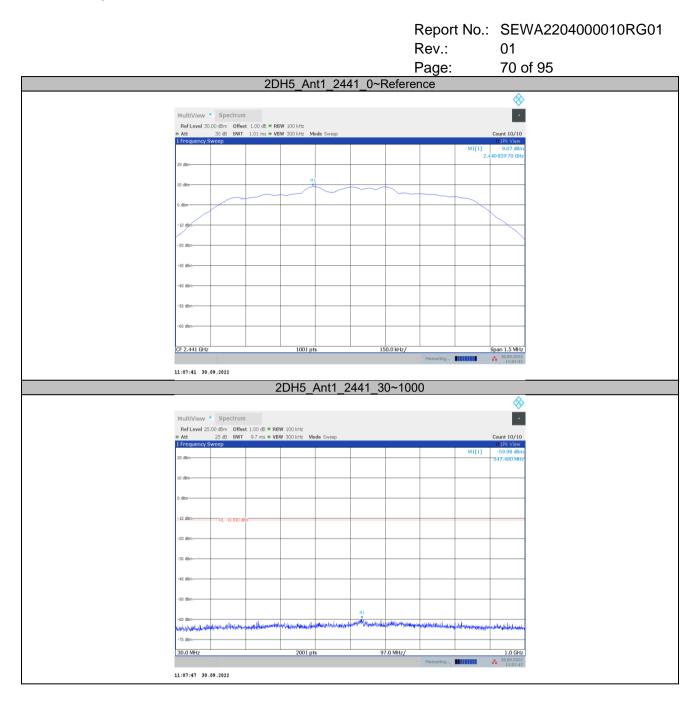


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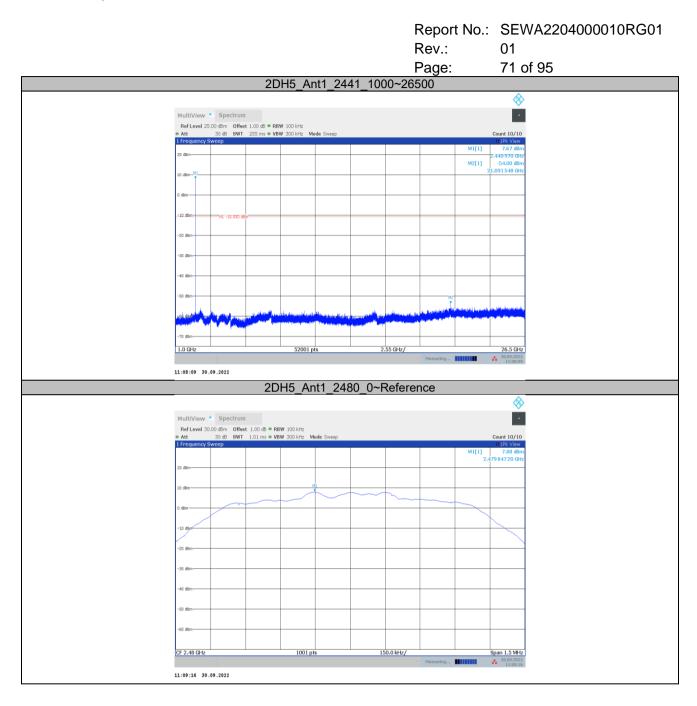


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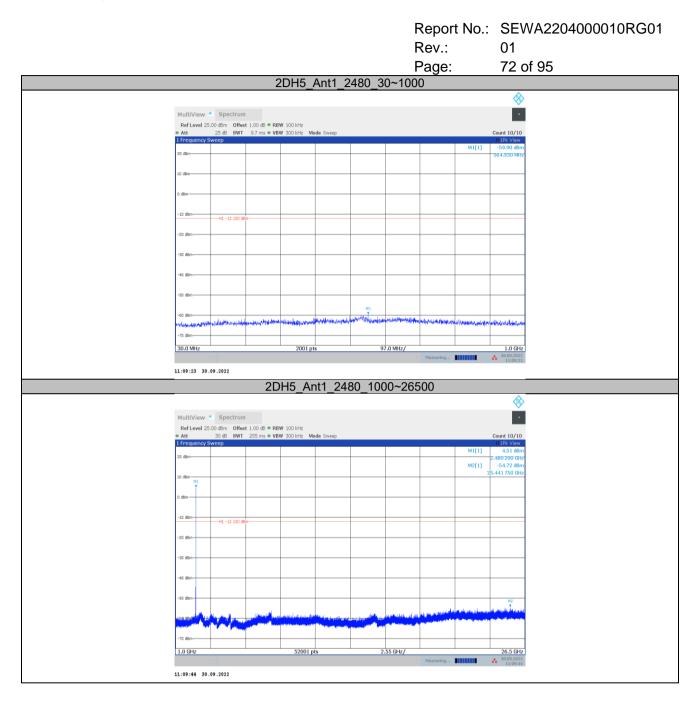




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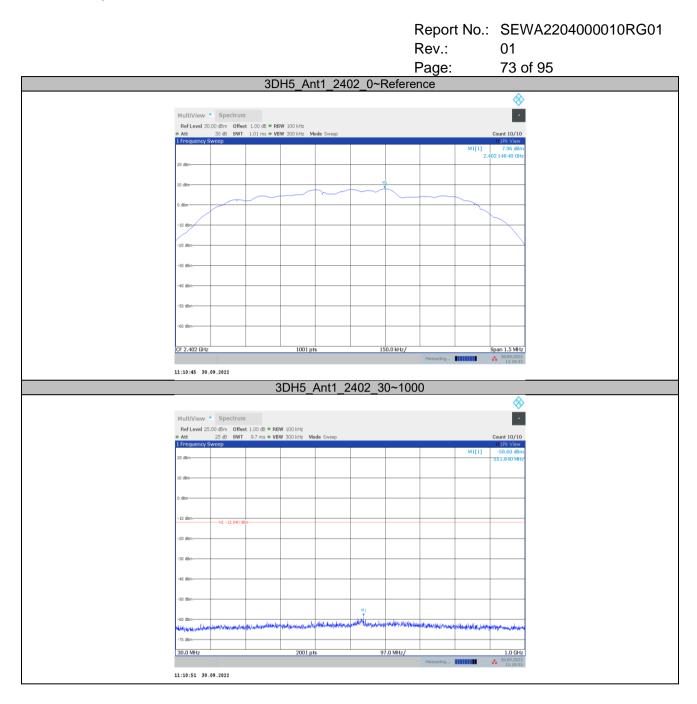




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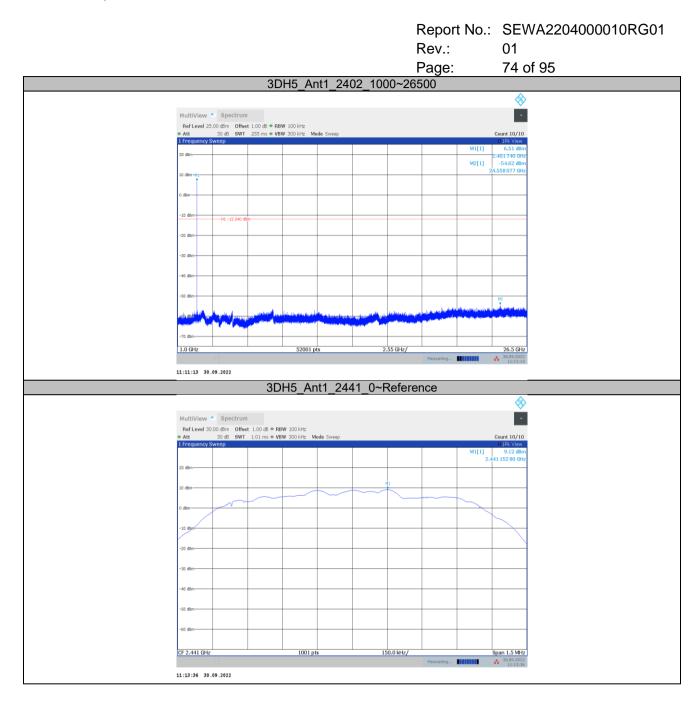




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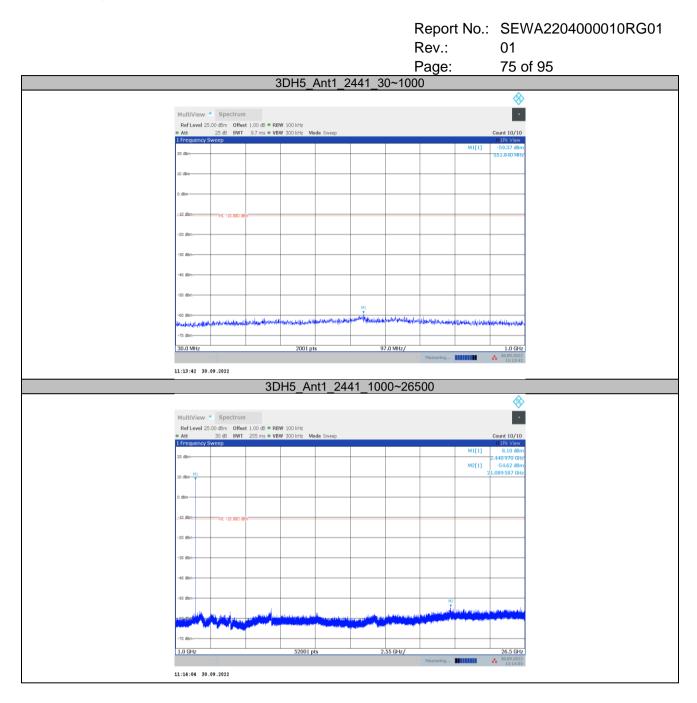
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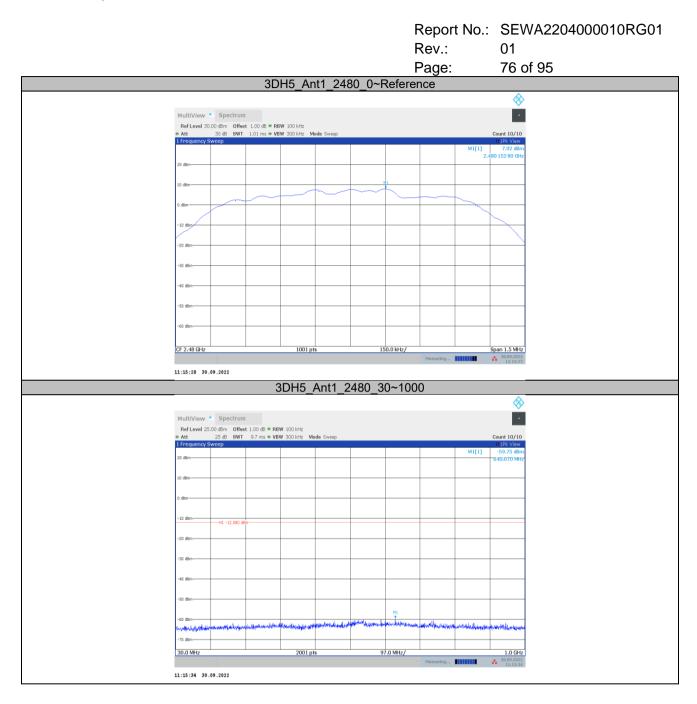


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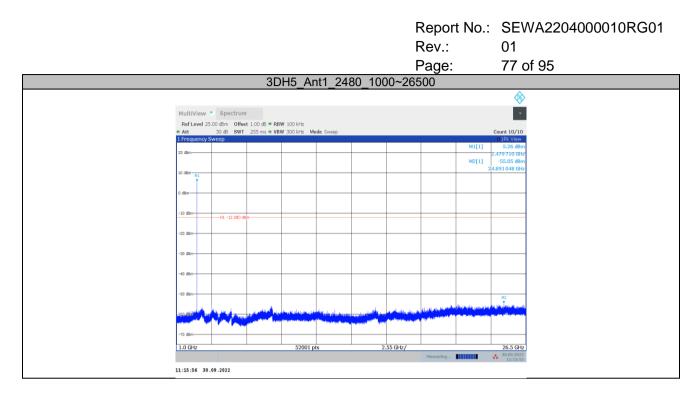


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Duty Cycle Test Result

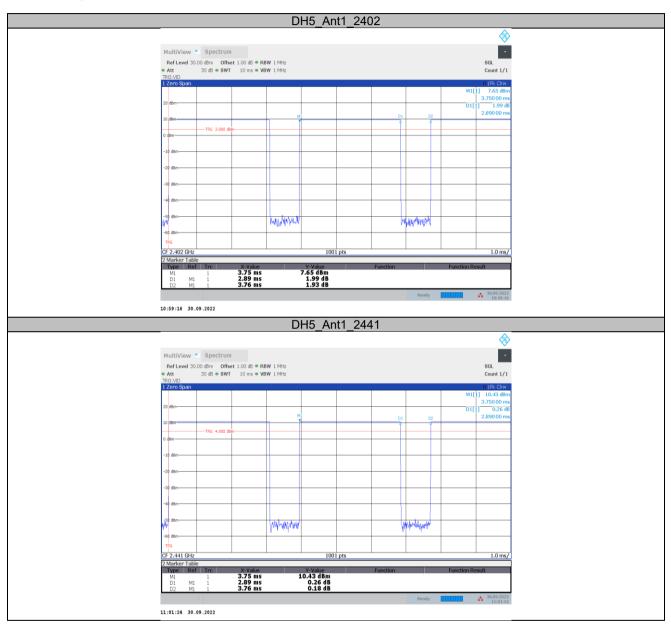
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
		2402	2.89	3.76	76.86	1.14
DH5	Ant1	2441	2.89	3.76	76.86	1.14
		2480	2.89	3.76	76.86	1.14
		2402	2.89	3.76	76.86	1.14
2DH5	Ant1	2441	2.89	3.76	76.86	1.14
		2480	2.89	3.75	77.07	1.13
		2402	2.89	3.75	77.07	1.13
3DH5	Ant1	2441	2.89	3.76	76.86	1.14
		2480	2.89	3.76	76.86	1.14



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Test Graphs

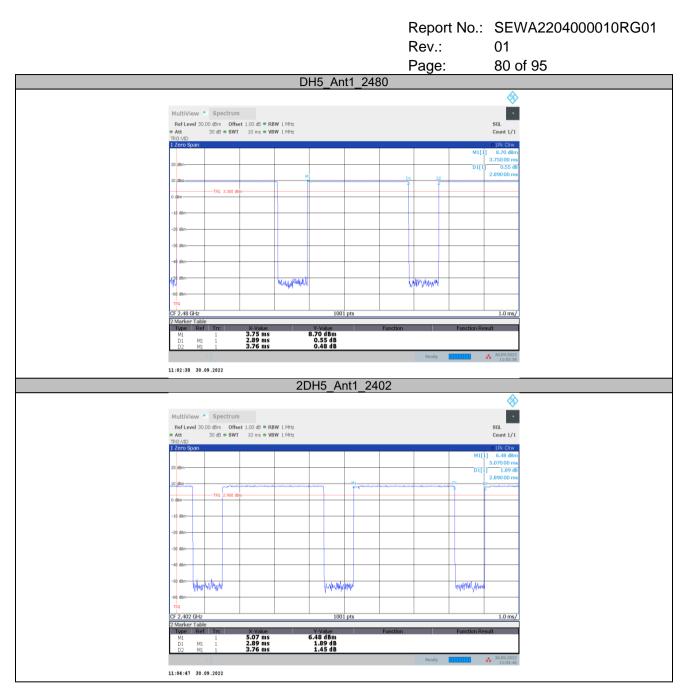


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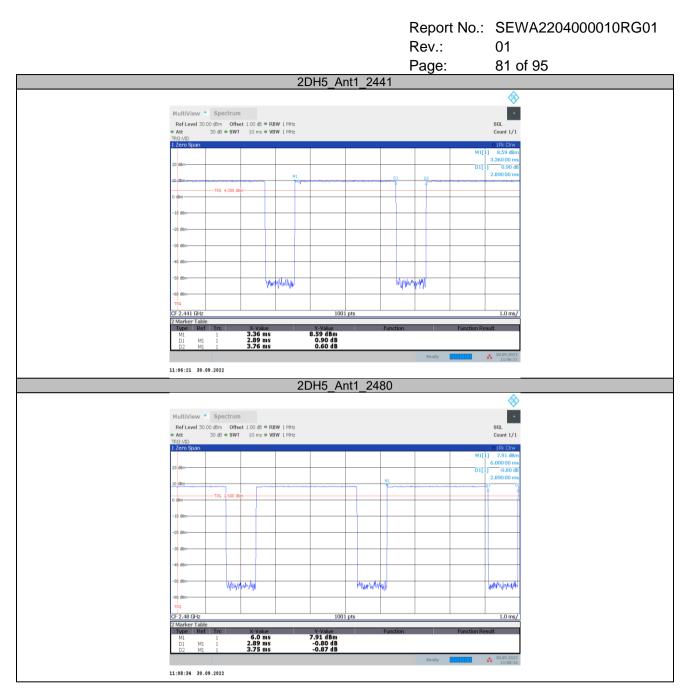




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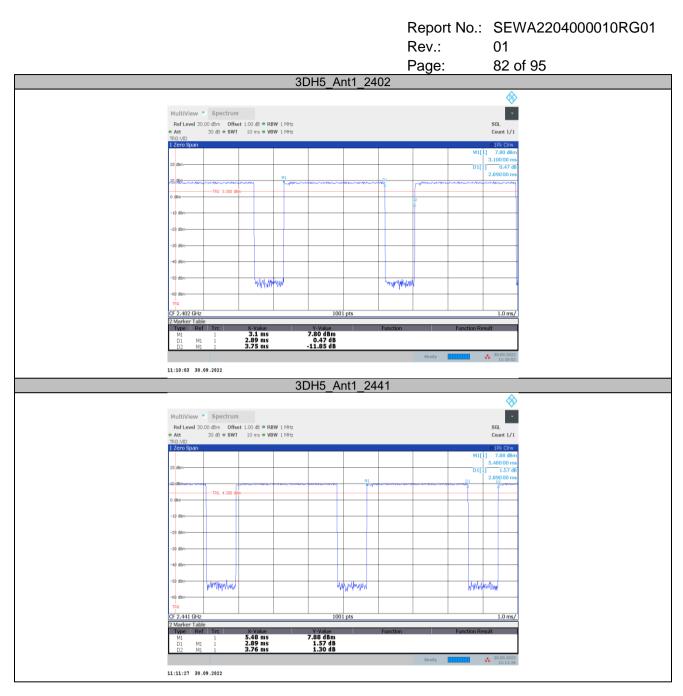




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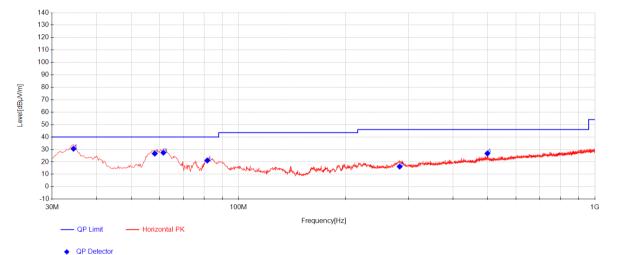
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: GFSK _ Channel 78



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	34.4386	48.29	-28.36	10.65	30.58	40.00	9.42	106	111	Horizontal
2	58.1910	42.49	-27.70	11.85	26.64	40.00	13.36	112	219	Horizontal
3	61.5335	44.04	-27.65	10.99	27.38	40.00	12.62	213	182	Horizontal
4	81.7083	41.52	-27.89	7.47	21.10	40.00	18.90	220	33	Horizontal
5	283.1773	30.02	-26.53	12.72	16.21	46.00	29.79	113	355	Horizontal
6	499.1905	34.52	-24.54	16.79	26.77	46.00	19.23	106	229	Horizontal



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Fina	l 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	30.9716	49.42	-28.53	10.38	31.27	40.00	8.73	163	91	Vertical
2	35.0557	48.95	-28.33	10.73	31.35	40.00	8.65	106	74	Vertical
3	40.5967	42.32	-28.08	12.23	26.47	40.00	13.53	100	255	Vertical
4	61.2523	51.80	-27.64	11.05	35.21	40.00	4.79	251	110	Vertical
5	70.6250	45.28	-27.75	8.62	26.15	40.00	13.85	106	360	Vertical
6	81.6442	43.19	-27.90	7.41	22.70	40.00	17.30	120	204	Vertical

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

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



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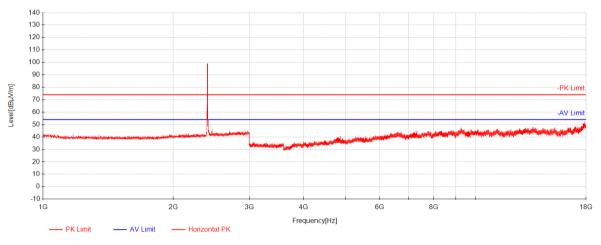
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Transmitter emission Above 1GHz

GFSK_Channel 00



PK Detector

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	4804	49.78	32.13	-44.46	37.45	74.00	36.55	263	120	Horizontal		
2	4804	-	-	-	12.66	54.00	41.34	263	120	Horizontal		
3	7206	47.38	36.32	-42.23	41.47	74.00	32.53	265	344	Horizontal		
4	7206	-	-	-	16.68	54.00	37.32	265	344	Horizontal		
5	9608	41.85	38.54	-38.05	42.34	74.00	31.66	241	223	Horizontal		
6	9608	-	-	-	17.55	54.00	36.45	241	223	Horizontal		

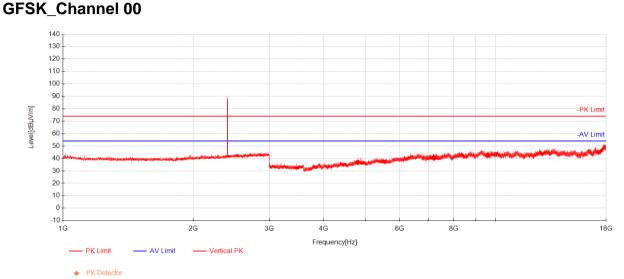


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Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4804	49.26	32.13	-44.46	36.93	74.00	37.07	296	322	Vertical	
2	4804	-	-	-	12.14	54.00	41.86	296	322	Vertical	
3	7206	46.26	36.32	-42.23	40.35	74.00	33.65	241	86	Vertical	
4	7206	-	-	-	15.56	54.00	38.44	241	86	Vertical	
5	9608	42.32	38.54	-38.05	42.81	74.00	31.19	142	80	Vertical	
6	9608	-	-	-	18.02	54.00	35.98	142	80	Vertical	



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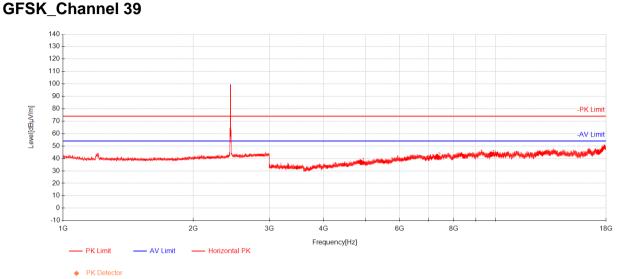
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Data List Frequency Reading AF Factor Limit Margin Height Angle Level NO. Polarity [MHz] [dB/m] [dB] [dBµV/m] [dBµV/m] [dBµV] [dB] [cm] [°] 1 4882 49.38 -44.80 36.90 74.00 37.10 201 284 Horizontal 32.32 Horizontal 2 4882 284 _ -_ 201 12.11 54.00 41.89 Horizontal 3 7323 46.82 36.39 -41.81 41.40 74.00 32.60 142 303 4 7323 142 303 Horizontal _ _ _ 16.61 54.00 37.39 5 263 77 Horizontal 9764 42.43 38.52 -37.51 43.45 74.00 30.55 9764 Horizontal 6 ---263 77 18.66 54.00 35.34



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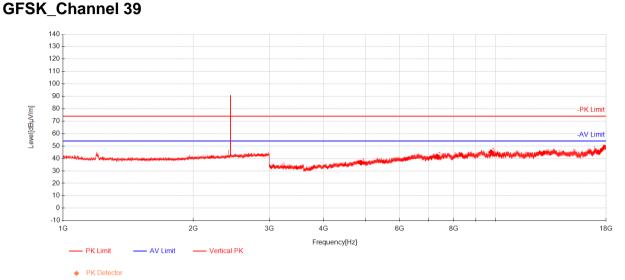
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4882	49.12	32.32	-44.80	36.64	74.00	37.36	263	157	Vertical		
2	4882	-	-	-	11.85	54.00	42.15	263	157	Vertical		
3	7323	47.04	36.39	-41.81	41.62	74.00	32.38	254	18	Vertical		
4	7323	-	-	-	16.83	54.00	37.17	254	18	Vertical		
5	9764	44.02	38.52	-37.51	45.04	74.00	28.96	188	198	Vertical		
6	9764	-	-	-	20.25	54.00	33.75	188	198	Vertical		



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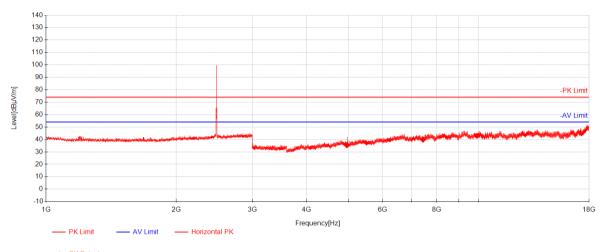
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PK Detector

GFSK_Channel 78

Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4960	47.71	32.50	-44.92	35.30	74.00	38.70	209	343	Horizontal		
2	4960	-	-	-	10.51	54.00	43.49	209	343	Horizontal		
3	7440	45.19	36.46	-41.83	39.83	74.00	34.17	265	3	Horizontal		
4	7440	-	-	-	15.04	54.00	38.96	265	3	Horizontal		
5	9920	41.61	38.51	-37.22	42.90	74.00	31.10	241	246	Horizontal		
6	9920	-	-	-	18.11	54.00	35.89	241	246	Horizontal		



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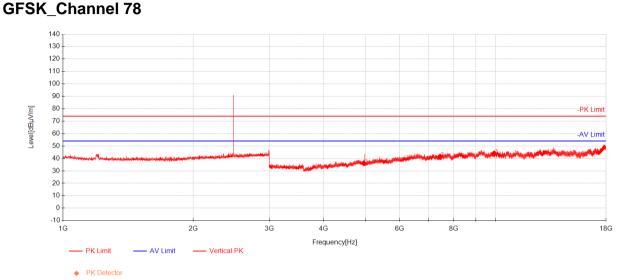
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Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4960	48.47	32.50	-44.92	36.06	74.00	37.94	362	360	Vertical	
2	4960	-	-	-	11.27	54.00	42.73	362	360	Vertical	
3	7440	46.97	36.46	-41.83	41.61	74.00	32.39	254	266	Vertical	
4	7440	-	-	-	16.82	54.00	37.18	254	266	Vertical	
5	9920	42.85	38.51	-37.22	44.14	74.00	29.86	105	223	Vertical	
6	9920	-	-	-	19.35	54.00	34.65	105	223	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 μ V/m) – Level(dB μ V/m)

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



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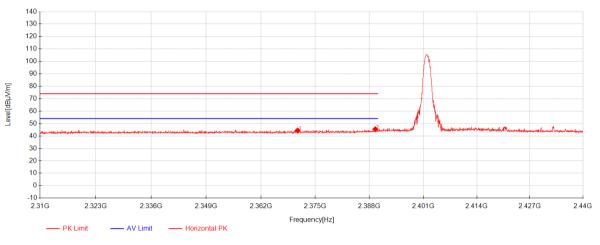
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Restricted bands around fundamental frequency

GFSK_Channel 00



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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	2370.7736	41.25	27.64	-24.46	44.43	74.00	29.57	263	241	Horizontal
2	2370.7736	-	-	-	19.64	54.00	34.36	263	241	Horizontal
3	2389.4131	42.19	27.68	-24.42	45.45	74.00	28.55	263	241	Horizontal
4	2370.7736	-	-	-	20.66	54.00	33.34	263	241	Horizontal



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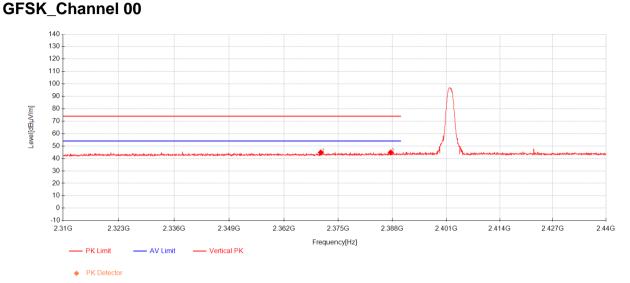
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2370.8169	41.63	27.64	-24.46	44.81	74.00	29.19	365	283	Vertical		
2	2370.8169	-	-	-	20.02	54.00	33.98	365	283	Vertical		
3	2387.5925	41.55	27.68	-24.43	44.80	74.00	29.20	365	283	Vertical		
4	2387.5925	-	-	-	20.01	54.00	33.99	365	283	Vertical		



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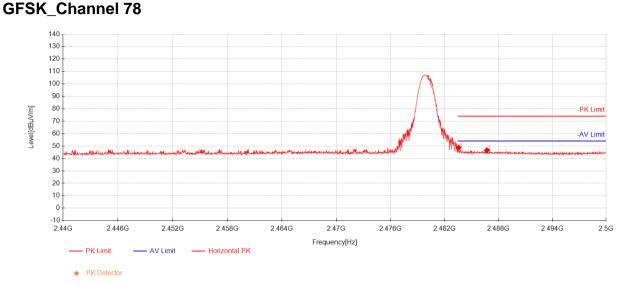
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2483.5745	44.80	27.87	-23.96	48.71	74.00	25.29	165	119	Horizontal		
2	2483.5745	-	-	-	23.92	54.00	30.08	165	119	Horizontal		
3	2486.7156	42.65	27.87	-23.94	46.58	74.00	27.42	165	119	Horizontal		
4	2486.7156	-	-	-	21.79	54.00	32.21	165	119	Horizontal		



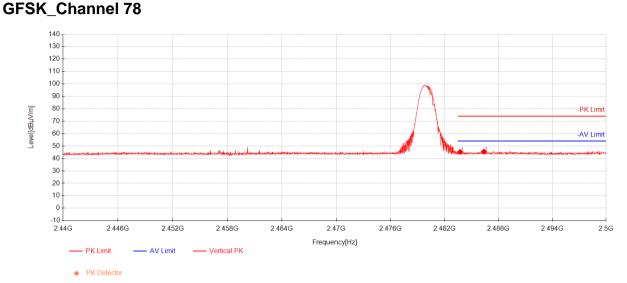
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.7346	41.38	27.87	-23.96	45.29	74.00	28.71	104	125	Vertical
2	2483.7346	-	-	-	20.50	54.00	33.50	104	125	Vertical
3	2486.3755	41.58	27.87	-23.94	45.51	74.00	28.49	104	125	Vertical
4	2483.7346	-	-	-	20.72	54.00	33.28	104	125	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($dB\mu V/m$)

---End of Report---



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