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TEST REPORT

Test Result :	PASS *
Date of Issue:	2022/3/18
Date of Test:	2021/11/13 to 2021/12/24
Date of Receipt:	2021/11/9
Standards:	47 CFR FCC Part 2, Subpart J 47 CFR Part 15, Subpart C
FCC ID:	2ALZM-SC3218B
Trade Mark:	SCHOK
Model No.:	SC3218B
EUT Description:	feature phone
Address of Manufacturer:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
Manufacturer:	Great Talent Technology Limited
Address of Applicant:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
Applicant:	Great Talent Technology Limited
Application No.:	XEWM2203000061RG

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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Version 1

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/3/18		Original

Prepared By	Weller Liu) / Engineer	
Checked By	(Well Wei) / Reviewer	



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2 Test Summary

SG

Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2013)	Clause 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013)	Clause 4.4	PASS
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.5	PASS
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.6	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.7	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.8	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.9	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.10	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 4.11	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 4.12	PASS



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Remark:

This test report (Report No.: XEWM2203000061RG02 issued on 2022-03-16) is based on the original test report (Report No.: ZR/2021/8005302 issued on 2021-12-24).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report all items do not need to retest and all test data in this report are based on the previous report with report number ZR/2021/8005302 issued on 2021-12-24.



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3 General Information

3.1 Details of Client

Applicant:	Great Talent Technology Limited		
Address of Applicant:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China 518110		
Manufacturer:	Great Talent Technology Limited		
Address of Manufacturer:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China 518110		

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd		
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzho Area, China (Jiangsu) Pilot Free Trade Zone		
Post code:	215000		
Test engineer:	Weller Liu, King-p Li, Nature Shen, 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. Designation Number: CN1312. Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	feature phone	
Model No.:	SC3218B	
Trade Mark:	SCHOK	
Hardware Version:	Q3203_V1.0	
Software Version:	SC3218T_V1.0.0	
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 1 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 78.	
Bluetooth version:	Bluetooth V4.1	
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)	
Modulation Type:	GFSK, π/4DQPSK, 8DPSK	
Number of Channel:	79	
Hopping Channel Type:	Adaptive Frequency Hopping systems	
Sample Type:	⊠Portable Device, ☐Module	
Antenna Type:	External, SIntegrated	
Antonno Cointi	Provided by client	
Antenna Gain*:	3.01dBi	
RF Cable*:	⊠Provided by client	
	1dB	

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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	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		
Damaaula							

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	
LTNV	-20	3.8	
HTNV	50	3.8	
Remark:			
NV: Normal Voltage			
NT: Normal Temperature			
LT: Low Extreme Test Temperature			
HT: High Extreme Test Temperature			

3.6 Description of Support Units

The EUT has been tested 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(c)

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 integrated and no consideration of replacement. The best case gain of the antenna is 3.01dBi.



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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.

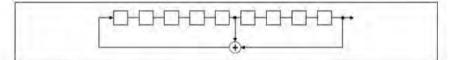
> Number of shift register stages: 9

> 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
		CONTRACTOR OF THE



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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				
Test Frequency Range:	150kHz to 30MHz				
Limit:		Limit (d	BuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the log	arithm of the frequency.			
Test Procedure:	 room. 2) The EUT was connected to a secon 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 th the closest points of and associated equip 5) In order to find the mand all of the interfate 	listurbance voltage test was ected to AC power source to tion Network) which provides ower cables of all other und LISN 2, which was bonded way as the LISN 1 for the tastrip was used to connect m the rating of the LISN was no as placed upon a non-metall ne. And for floor-standing arr natal ground reference plane. ed with a vertical ground refe 4 m from the vertical ground rence plane was bonded to be LISN 1 was placed 0.8 m find bonded to a ground refe e ground reference plane. The the LISN 1 and the EUT. All oment was at least 0.8 m from taximum emission, the relative ce cables must be changed a on conducted measurement.	through 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 bet exceeded. ic table 0.8m above the angement, the EUT was rence plane. The rear of d reference plane. The bethe horizontal ground rom the boundary of the rence plane for LISNs is distance was between I other units of the EUT in the LISN 2. e positions of equipment		



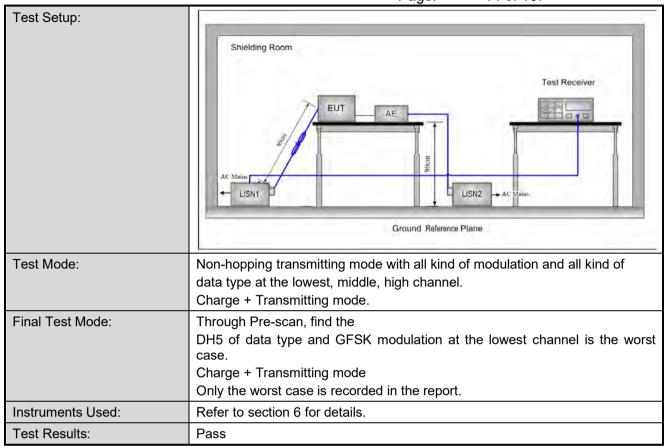
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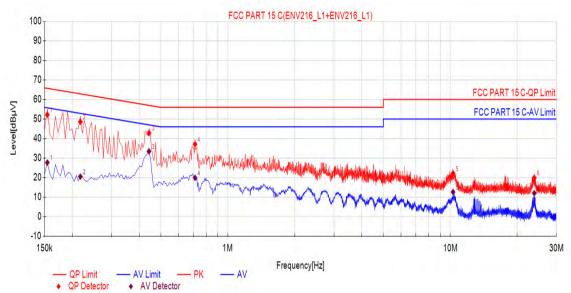
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Measurement Data

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.

Live Line:



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	0.1545	9.65	42.56	52.21	65.75	13.54	18.07	27.72	55.75	28.03	PASS
2	0.2175	9.81	38.78	48.59	62.91	14.32	10.71	20.52	52.91	32.39	PASS
3	0.4425	9.55	33.26	42.81	57.01	14.20	23.89	33.44	47.01	13.57	PASS
4	0.7125	9.57	27.56	37.13	56.00	18.87	10.35	19.92	46.00	26.08	PASS
5	10.293	9.63	12.52	22.15	60.00	37.85	3	12.63	50.00	37.37	PASS
6	23.8605	9.31	10.55	19.86	60.00	40.14	2.75	12.06	50.00	37.94	PASS

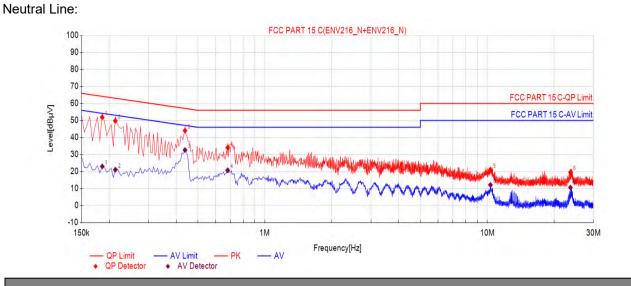
Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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Final	Final Data List								
NO.	Frequency [MHz]	Factor [dB]	QP Reading						

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	0.1860	9.69	42.23	51.92	64.21	12.29	13.29	22.98	54.21	31.23	PASS
2	0.213	9.68	40.12	49.80	63.09	13.29	11.37	21.05	53.09	32.04	PASS
3	0.438	9.83	34.23	44.06	57.10	13.04	22.8	32.63	47.10	14.47	PASS
4	0.681	9.79	24.22	34.01	56.00	21.99	10.94	20.73	46.00	25.27	PASS
5	10.3335	9.66	11.26	20.92	60.00	39.08	2.46	12.12	50.00	37.88	PASS
6	23.6580	9.50	10.02	19.52	60.00	40.48	1.09	10.59	50.00	39.41	PASS

Remark:

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

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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Test Requirement: 47 CFR Part 15C Section 15.247 (b)(1) Test Method: ANSI C63.10:2013 Section 7.8.5 Test Setup: SGS Test system Vector Signal Generator 0 PC munication RF Control Unit 0 0 0 E.U.T Analog Signal Gene 0 DC Powe 00000 **Ground Reference Plane Test Instruments:** Refer to section 6 for details Exploratory Test Mode: Non-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: 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

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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 π/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: Appendix					



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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:	PC Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Image: Sector of the system Im				
Test Instruments:	Refer to section 6 for details				
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.				
Final Test Mode:Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.					
Limit:	2/3 of the 20dB bandwidth				
	Remark: the transmission power is less than 0.125W.				
Test Results:	Pass				
The detailed test data see:	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 RF Control Unit 0 0 0 E.U.T 0 DC Powe 00000 **Ground Reference Plane** 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

4.7 Hopping Channel Number

S



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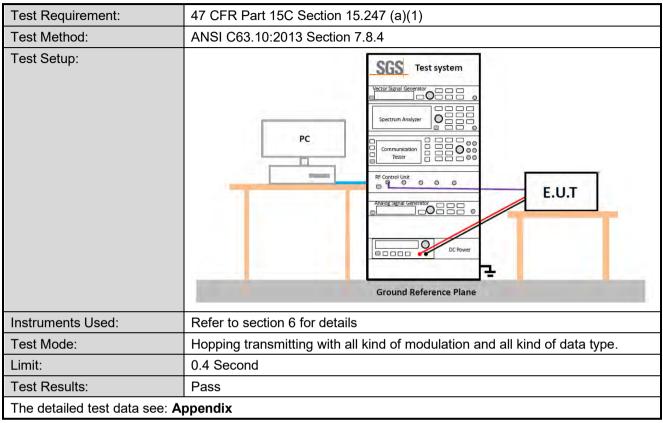
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4.8 Dwell Time





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4.9 Band-edge for RF Conducted Emissions

S

Test Requirement:	47 CFR Part 15C Section 15.247 (d)		
Test Method:	ANSI C63.10:2013 Section 7.8.6		
Test Setup:	PC PC PC PC Communication PC Communication PC Communication PC Control Unit PC Control Unit PC Control Unit Control Unit Contr		
Instruments Used:	Refer to section 6 for details		
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type.		
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.		
Test Results:	Pass		
The detailed test data see: A	ppendix		



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4.10 Spurious RF Conducted Emissions

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Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 Section 7.8.8				
Test Setup:	PC PC PC Communication PC PC PC PC PC PC PC PC PC 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 π/4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. 				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test Results:	Pass				
The detailed test data see:	Appendix				



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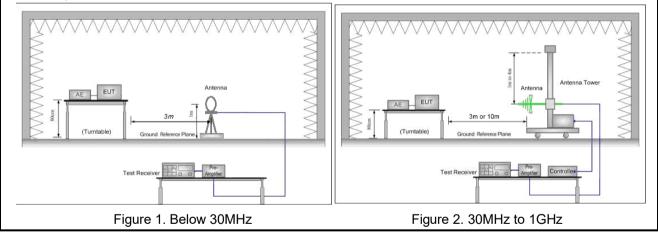
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4.11 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10 :2013 Section	ANSI C63.10 :2013 Section 11.12						
Test Site:	Measurement Distance: 3	m (Semi-Anechoic	: Chamber)					
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				3			
	960MHz-1GHz	500	54.0	Quasi-peak	3			
	Above 1GHz 500 54.0 Average 3							
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emi level radiated by the device.							

Test Setup:

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	Im or 3m Im or 3m
	Figure 3. Above 1 GHz
	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.
t	b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation
	c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
6	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	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be retested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	 h. Test the EUT in the lowest channel, the middle 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.
	 Repeat above procedures until all frequencies measured was complete. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
	I. The disturbance above 18GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
0	Measurements Below 1000MHz • RBW = 120 kHz
	• VBW = 300 kHz
•	Detector = Peak



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	 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 RBW = 1 MHz VBW ≥ [3 *RBW] Detector = RMS (power averaging), if sp Satisfying this condition may require incre reducing the span. If this condition cannot set to peak. Sweep time = auto Perform a trace average of at least 100 	oan / (# of poin asing the numb be satisfied, th	ts in sweep) ≤ (RBW / 2). ber of points in the sweep or
Exploratory Test Mode:	Non-hopping transmitting mode with all kir data type Charge + Transmitting mode.	nd of modulatio	n and all kind of
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is Pretest the EUT at Charge + Transmitting For below 1GHz part, through pre-scan, th Only the worst case is recorded in the rep	mode ne worst case is	
Instruments Used:	Refer to section 6 for details		
Test Results:	Pass		
The detailed test dat	a see: Appendix		



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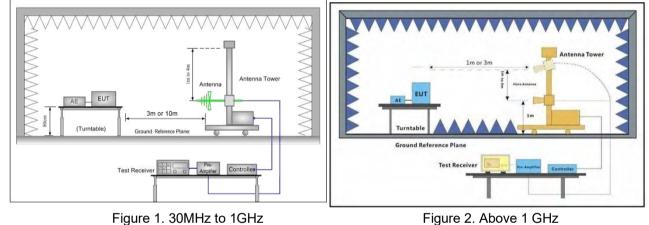
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4.12Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
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		
	Above 1GHz	54.0	Average Value		
		74.0	Peak Value		

Test Setup:

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Test Procedure:	a.	For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	b.	For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	C.	The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	d.	The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	e.	For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	f.	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	g.	Place a marker at the end of the restricted band closest to the transmit



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	 frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration	
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 RBW = 1 MHz VBW ≥ [3 *RBW] Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. Sweep time = auto Perform a trace average of at least 100 traces.
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 Uncertain		
1	Total RF power, conducted	±0.54dB	
2	RF power density, conducted	±1.03dB	
3	Spurious emissions, conducted	±0.54dB	
4	Radio Frequency	±7.25x 10 ⁻⁸	
5	Duty Cycle	±0.37%	
6	Occupied Bandwidth	±7.25x 10 ⁻⁸	
7	Conduction Emission ± 2.90dB (150kHz to 30M		
		± 3.13dB (9k -30MHz)	
0	Radiated Emission	± 4.8dB (30M -1GHz)	
8		± 4.8dB (1GHz to 18GHz)	
		± 4.8dB (Above 18GHz)	



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6 Equipment List

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CE Test Equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19		
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19		



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RSE Test Equipment						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19	
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19	
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19	
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15	
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15	
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13	
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20	2022/2/19	
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19	
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19	
Active Loop Antenna	Active Loop Antenna SCHWRZBECK MESS-ELEKTRONIK		SUWI-01-21-01	2021/6/10	2022/6/9	
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR	
Radio Communication Analyzer	ROHDE&SCHWARZ	CMW500	SUWI-01-27-01	2021/9/28	2022/9/27	



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7 Photographs - EUT Constructional Details

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.963	2401.526	2402.489		PASS
DH5	Ant1	2441	0.963	2440.526	2441.489		PASS
		2480	0.957	2479.526	2480.483		PASS
		2402	1.284	2401.364	2402.648		PASS
2DH5	Ant1	2441	1.284	2440.364	2441.648		PASS
		2480	1.284	2479.361	2480.645		PASS
		2402	1.284	2401.349	2402.633		PASS
3DH5	Ant1	2441	1.290	2440.349	2441.639		PASS
		2480	1.290	2479.349	2480.639		PASS



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*

2.402.012.00

Span 3.0 MH

DH5_Ant1 2402 Ref Level 30.00 dBm Offset 1.00 dB RBW Att 40 dB SWT 10 ms (~23 ms) > VBW 30 kHz 100 kHz Mode Auto FF 0 di 10 dB dB 10 dBr H1 -11.797 20 dB 30 dB 40 dB 50 dBm -60 dBn 1001 pts CF 2.402 GHz 00.0 -----X-Value 2.401 526 GHz 2.402 012 GHz 963.0 kHz Y-Value 11.85 dBm 8.20 dBm -0.11 dB M2 D3

14:31:30 19.11.2021

DH5_Ant1_2441





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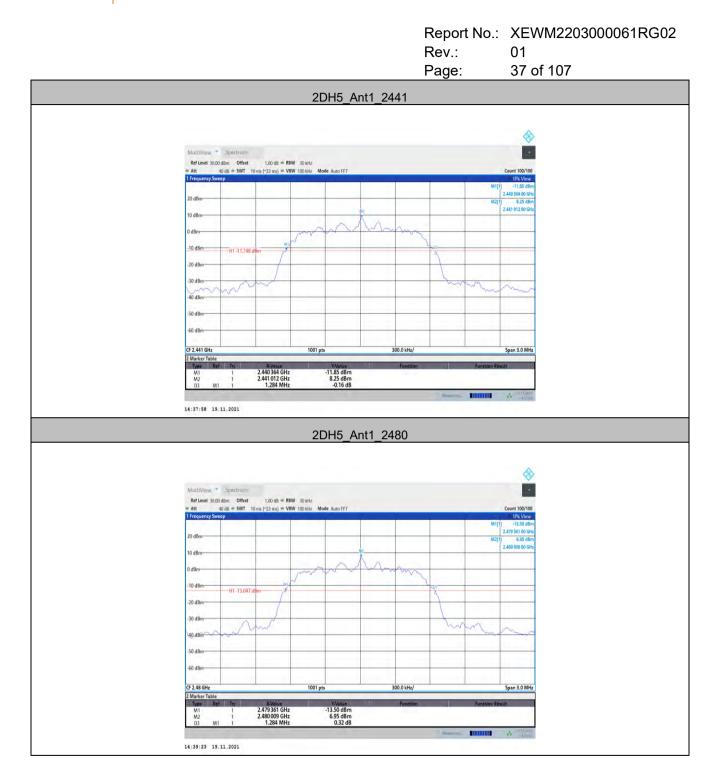
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Test Graphs

Report No.: XEWM2203000061RG02 Rev.: 01 36 of 107 Page: DH5 Ant1 2480 + Ref Level 30.00 dBm 0 dBm Offset 1.00 dB = RBW 30 kHz 40 dB = SWT 10 ms (~23 ms) = VBW 100 kHz Mode 4++ 7.93 dB 2 490 01 10 dBr 10 dB 20 dB 30 dE 40 dBm -50 dBm -60 dBn CF 2.48 GHz 300.0 kHz/ 1001 pts Span 3.0 MHz 2.479 526 GHz 2.480 012 GHz 957.0 kHz 12.24 dBm 7.93 dBm 0.09 dB M1 M2 14:34:34 19.11.2021 2DH5 Ant1 2402 Ref Level 30.00 dBm Offset Att 40 dB = SWT 1.00 dB = RBW 30 kHz si = VBW 7.35 dB 2.402 012 00 10 dBr 10 dB 20 dB 30 dB -40 dBn -50 dB -60 dBr 1001 pts Span 3.0 MHz CF 2 402 GHz 300.0 kHz/ 2.401 364 GHz 2.402 012 GHz 1.284 MHz 12.81 dBm 7.35 dBm -0.22 dB M2 D3 14:36:16 19.11.2021

















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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.921	2401.538	2402.459		PASS
DH5	Ant1	2441	0.919	2440.540	2441.460		PASS
		2480	0.911	2479.542	2480.454		PASS
	Ant1	2402	1.18	2401.404	2402.585		PASS
2DH5		2441	1.18	2440.405	2441.585		PASS
		2480	1.175	2479.404	2480.579		PASS
		2402	1.178	2401.404	2402.582		PASS
3DH5	Ant1	2441	1.178	2440.407	2441.584		PASS
		2480	1.176	2479.408	2480.583		PASS

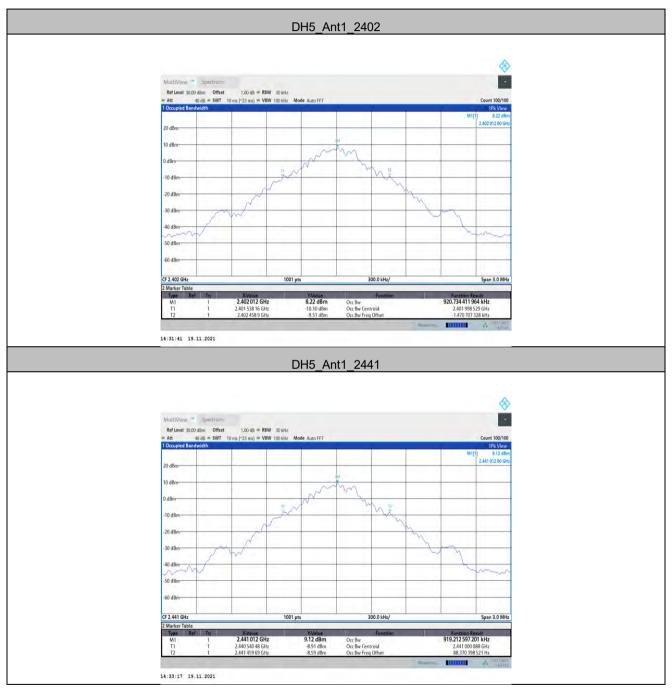


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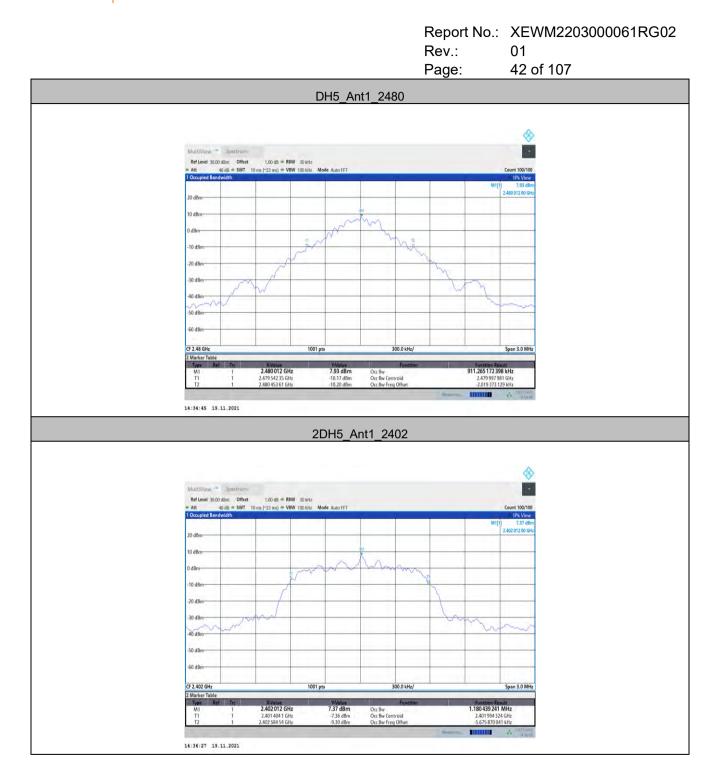
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Maximum conducted output power Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2402	10.43	<=30	PASS
DH5	Ant1	2441	11.35	<=30	PASS
		2480	10.15	<=30	PASS
		2402	11.25	<=20.97	PASS
2DH5	Ant1	2441	12.16	<=20.97	PASS
		2480	11	<=20.97	PASS
		2402	11.52	<=20.97	PASS
3DH5	Ant1	2441	12.49	<=20.97	PASS
		2480	11.43	<=20.97	PASS



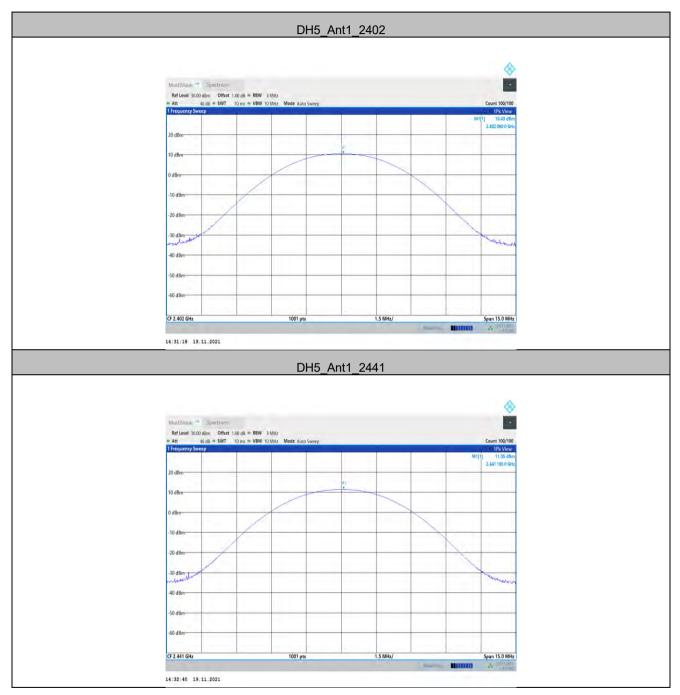
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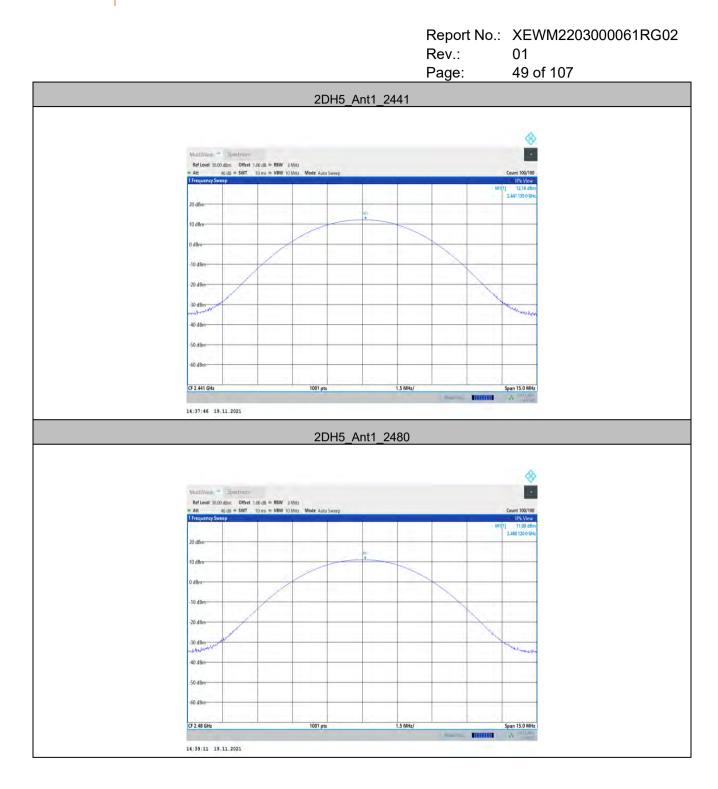
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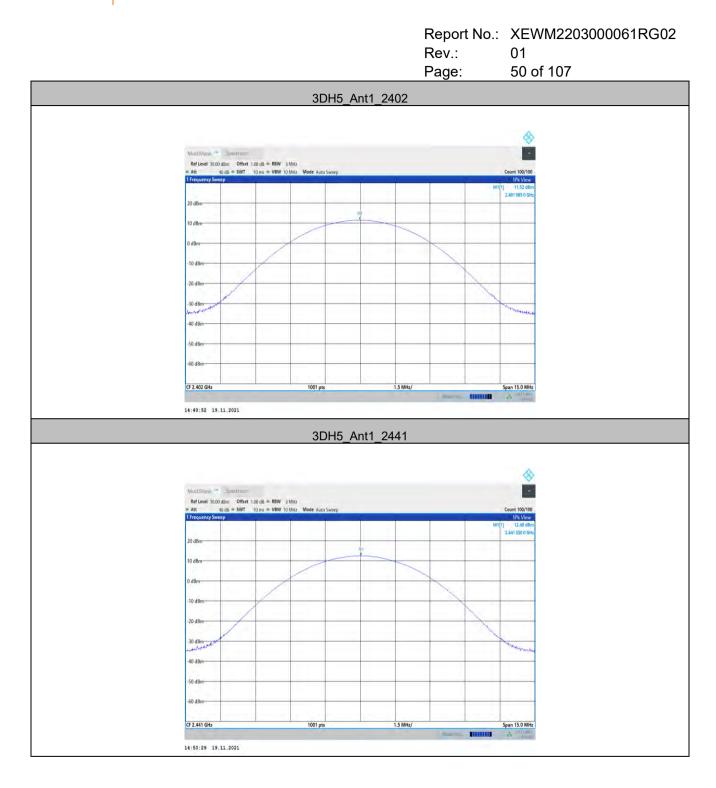
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				Report No.: Rev.: Page:	
		3DH5_Ant	t1_2480		
= Att 4	dBm Offset 1.00 dB = RBW 3 M 0 dB = SWT 10 ms = V5W 10 M				Count 100/100
1 Frequency Swe	5P			MI	0 19k View 1) 11 A3 dBm 2.480 000 0 GHz
20 dom 10 dBm			-		
0 dBm	- /				
-10 dBm -20 dBm					
-30 dBm deversion					man water and and a second second
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Carrier frequency separation Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Нор	0.998	≥0.693	PASS
2DH5	Ant1	Нор	1.008	≥0.025	PASS
3DH5	Ant1	Нор	1.158	≥0.025	PASS



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Time of occupancy Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.38	320	0.122	<=0.4	PASS
DH3	Ant1	Нор	1.64	200	0.328	<=0.4	PASS
DH5	Ant1	Нор	2.89	110	0.317	<=0.4	PASS
2DH1	Ant1	Нор	0.39	330	0.128	<=0.4	PASS
2DH3	Ant1	Нор	1.64	140	0.229	<=0.4	PASS
2DH5	Ant1	Нор	2.89	120	0.346	<=0.4	PASS
3DH1	Ant1	Нор	0.39	330	0.127	<=0.4	PASS
3DH3	Ant1	Нор	1.64	160	0.262	<=0.4	PASS
3DH5	Ant1	Нор	2.89	90	0.26	<=0.4	PASS



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DH1_Ant1 Hop Ref Level 30.00 dBm Offset 1.00 dB = RBW 1 MHz Att 40 dB = SWT 10 ms = VBW 3 MHz 10 dBm TPG 8 30 10 dBr -20 dB 30 dB WUburu had been fille all of the standing of the land of the land A VIEW OF THE the state -60 dBm CF 2.441 GHz 8000 pts 1.0 ms/ 14:56:45 19.11.2021 A Mult)View = Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 500 kHz Att 40 dB SWT 3.16 s VBW 3 MHz = Att 20 dBr 0 dBr 20 di 50 dBe 60 dBe CF 2.441 GHz 316.0 ms 14:56:50 19.11.2021

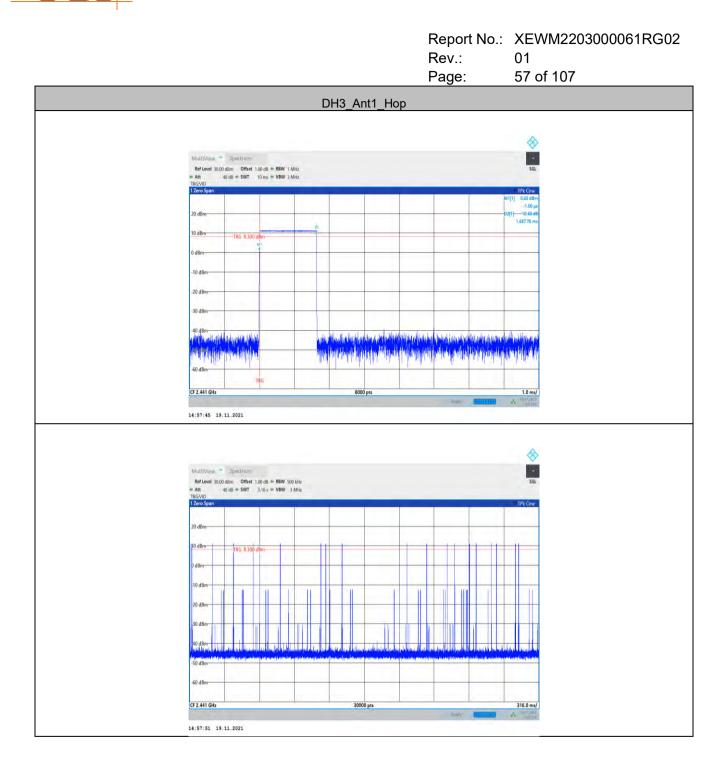
Test Graphs



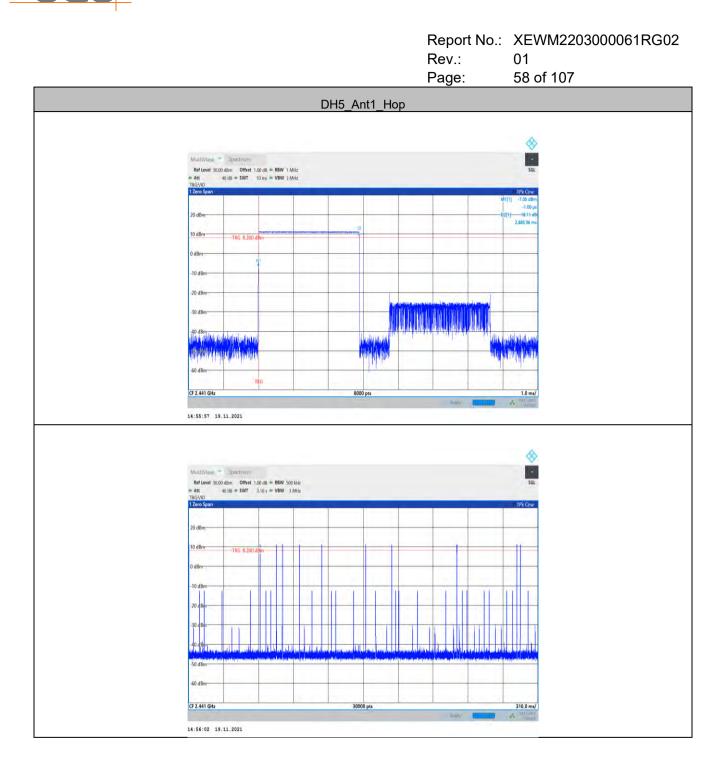
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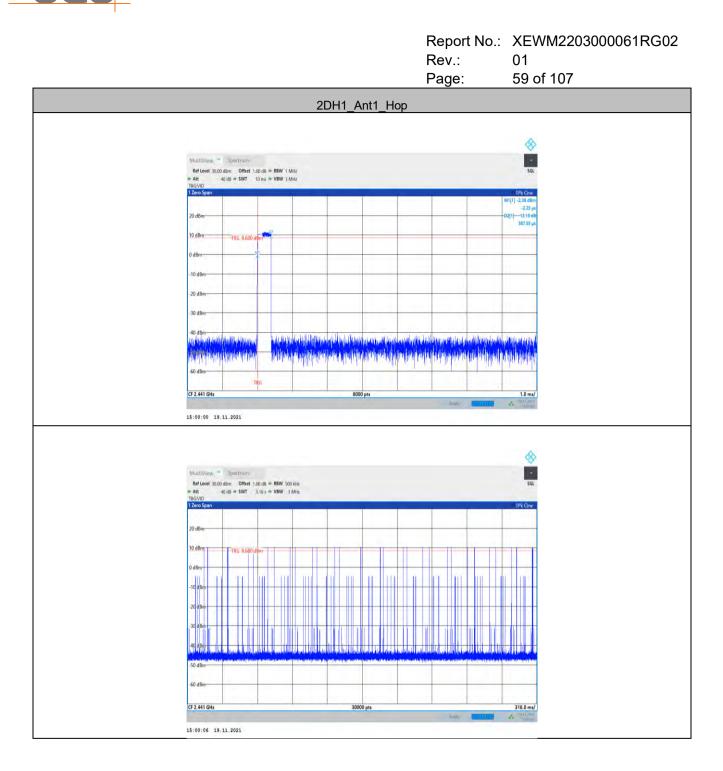
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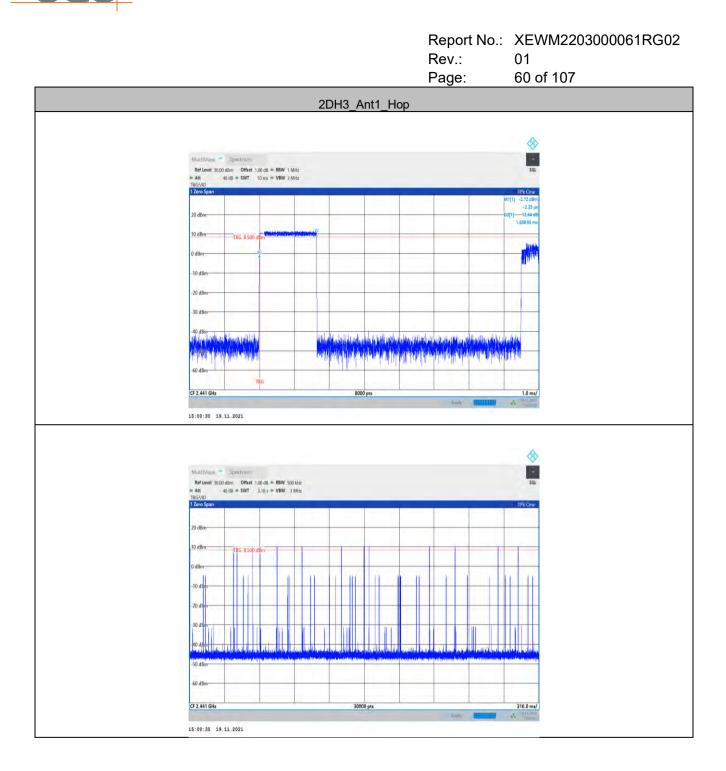




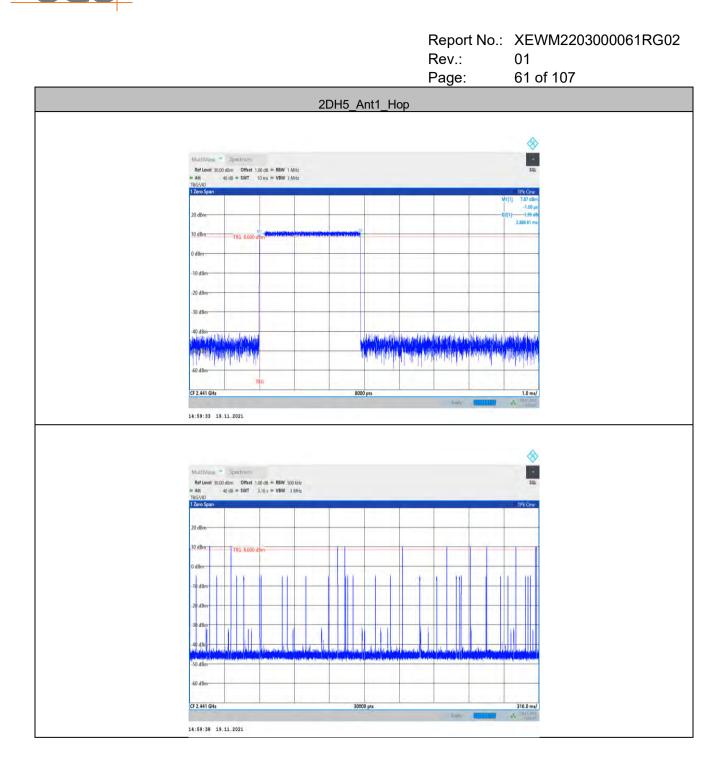




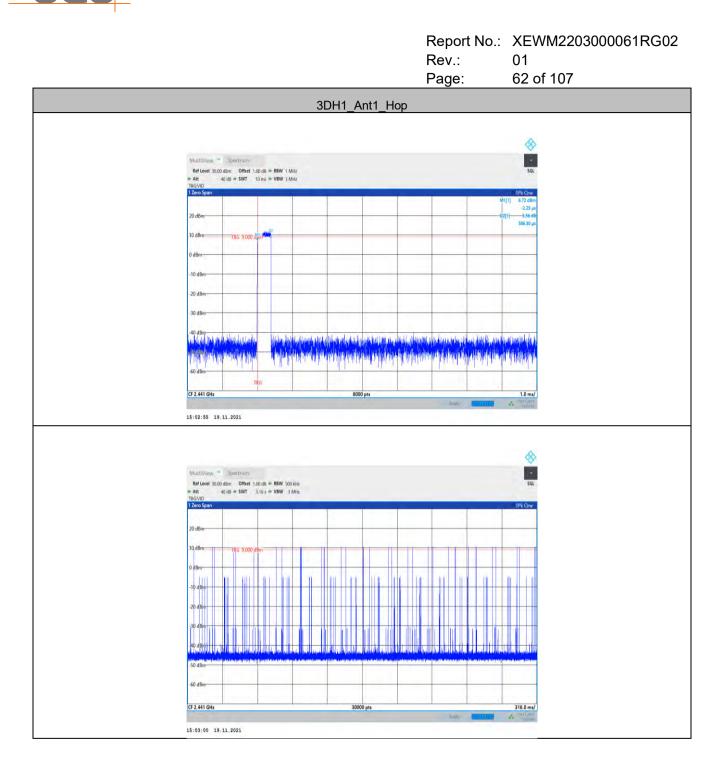




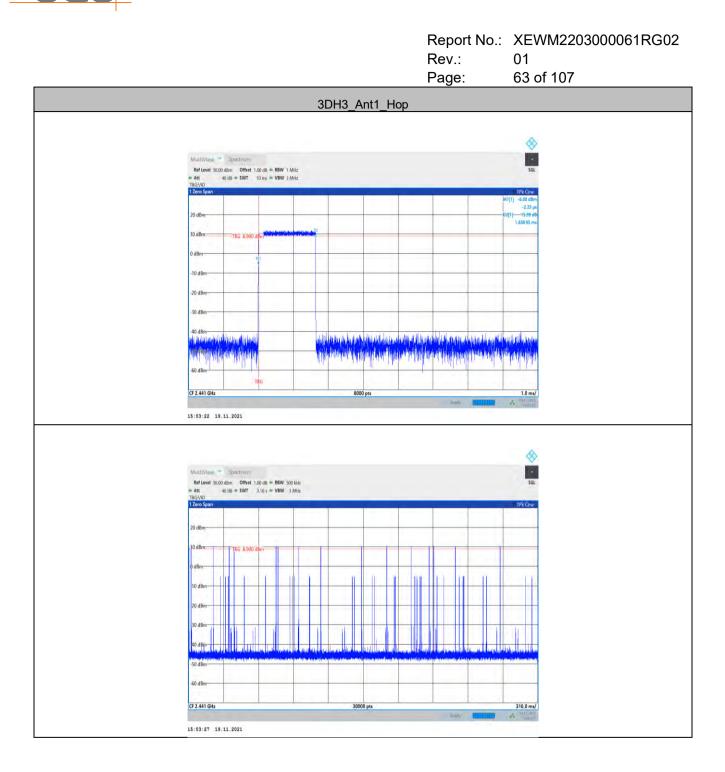




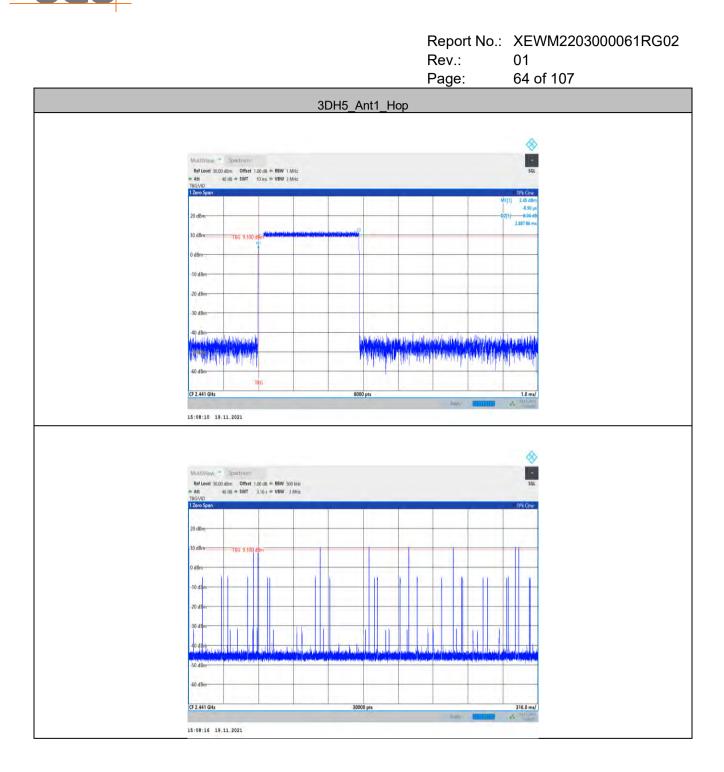














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Number of hopping channels Test Result

TestMode	Antenna	Channel	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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					F	Report N Rev.: Page:		XEWM2203000061RG02 01 67 of 107
			3DH5_A	nt1_Ho	р			
	48m Offset 1.00 dB 0 dB SWT 1.01 ms p		Auto Sweep					Pé Vies
-60 dBm			-					
2.4 GHz 15:02:03 19.1	1.2021	100	11 pts	8.	35 MHz/	1 DI	2	.483 5 GHz



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Band edge measurements Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
		Low	2402	10.13	-46.69	<=-9.87	PASS
		High	2480	9.93	-48.91	<=-10.07	PASS
DH5	Ant1	Low	Hop_2402	9.49	-48.91	<=-10.51	PASS
		High	Hop_2480	10.02	-48.86	<=-9.98	PASS
	Ant1	Low	2402	8.94	-45.54	<=-11.06	PASS
		High	2480	8.96	-49.49	<=-11.04	PASS
2DH5		Low	Hop_2402	8.05	-49.22	<=-11.95	PASS
		High	Hop_2480	8.46	-49.4	<=-11.54	PASS
		Low	2402	9.10	-45.29	<=-10.9	PASS
		High	2480	8.75	-48.76	<=-11.25	PASS
3DH5	Ant1	Low	Hop_2402	8.53	-48.85	<=-11.47	PASS
		High	Hop_2480	8.78	-49.96	<=-11.22	PASS



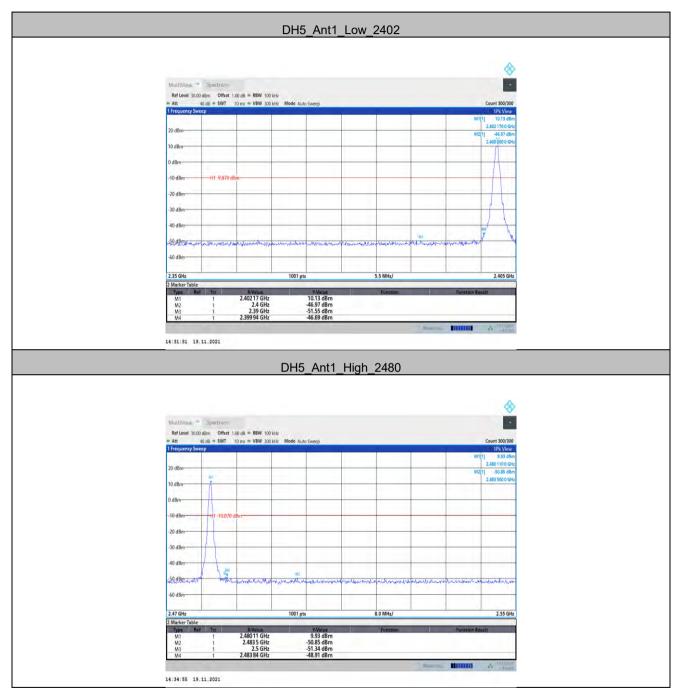
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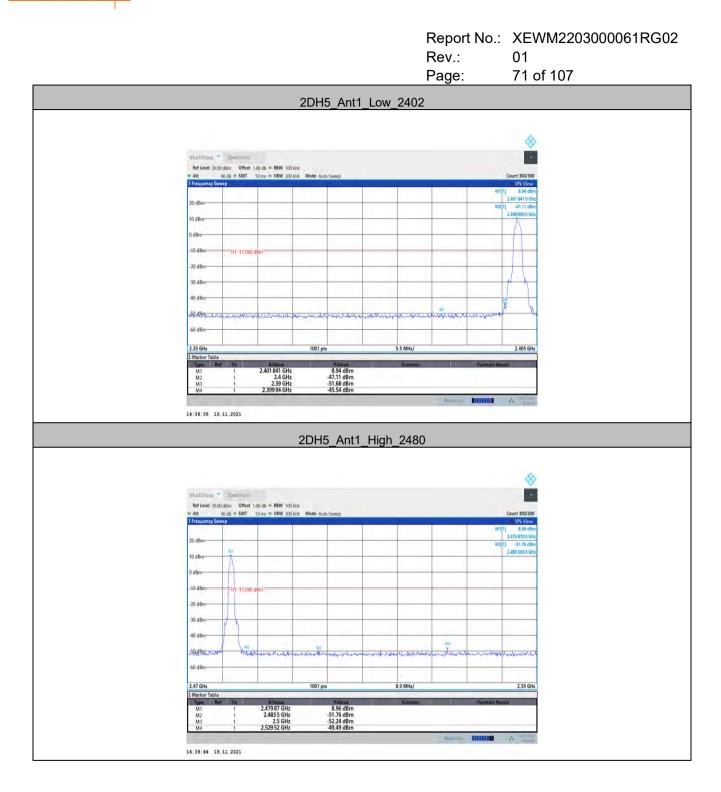
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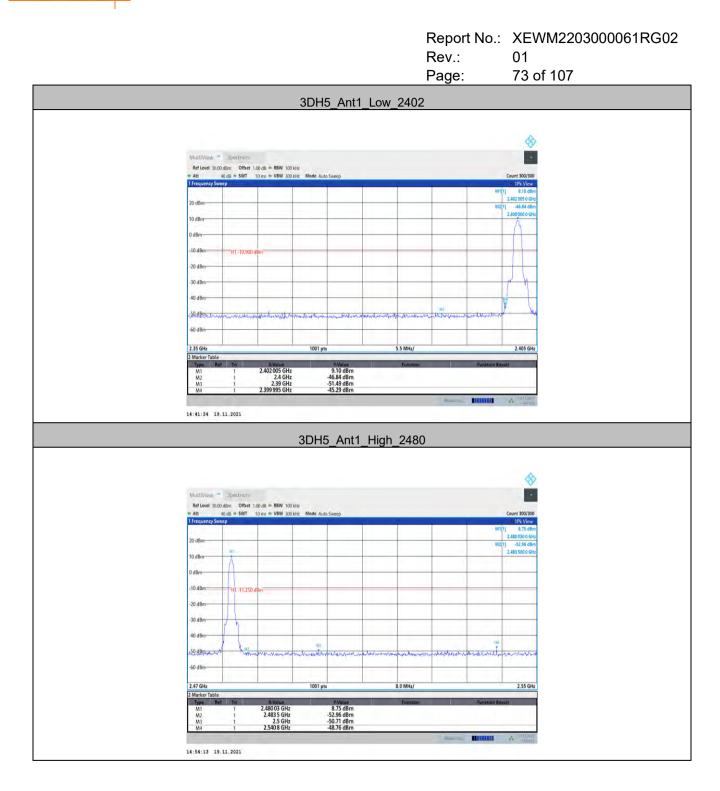




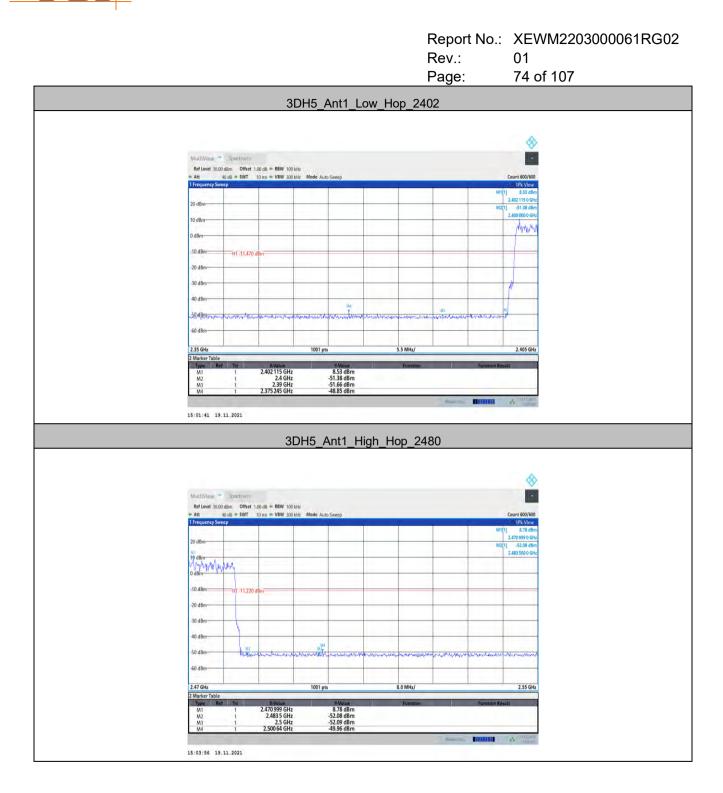














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Conducted Spurious Emission Test Result

TestMode	Antenna	Channel	FreqRange	RefLevel	Result	Limit	Verdict
			[MHz]	[dBm]	[dBm]	[dBm]	
			Reference	10.15	10.15		PASS
		2402	30~1000	10.15	-63.18	<=-9.85	PASS
			1000~26500	10.15	-47.27	<=-9.85	PASS
			Reference	11.09	11.09		PASS
DH5	DH5 Ant1	2441	30~1000	11.09	-62.67	<=-8.91	PASS
			1000~26500	11.09	-49.52	<=-8.91	PASS
			Reference	9.84	9.84		PASS
		2480	30~1000	9.84	-63.11	<=-10.16	PASS
			1000~26500	9.84	-45.27	<=-10.16	PASS
			Reference	9.23	9.23		PASS
		2402	30~1000	9.23	-63	<=-10.77	PASS
			1000~26500	9.23	-48.9	<=-10.77	PASS
		2441	Reference	10.11	10.11		PASS
2DH5	Ant1		30~1000	10.11	-63.33	<=-9.89	PASS
			1000~26500	10.11	-51.45	<=-9.89	PASS
			Reference	8.84	8.84		PASS
		2480	30~1000	8.84	-62.62	<=-11.16	PASS
			1000~26500	8.84	-46.43	<=-11.16	PASS
			Reference	9.20	9.20		PASS
		2402	30~1000	9.20	-62.27	<=-10.8	PASS
			1000~26500	9.20	-51.44	<=-10.8	PASS
			Reference	10.18	10.18		PASS
3DH5	Ant1	2441	30~1000	10.18	-62.4	<=-9.82	PASS
			1000~26500	10.18	-53.88	<=-9.82	PASS
			Reference	8.93	8.93		PASS
		2480	30~1000	8.93	-62.65	<=-11.07	PASS
	240		1000~26500	8.93	-49.64	<=-11.07	PASS

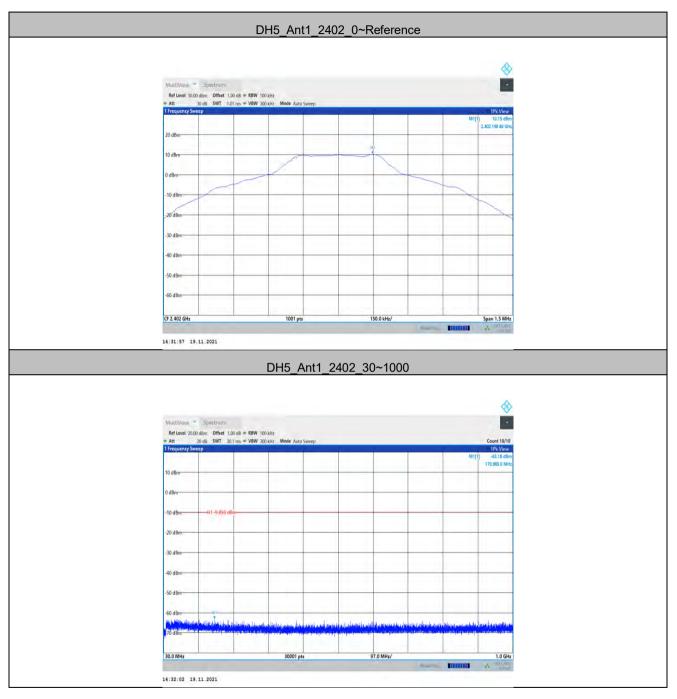


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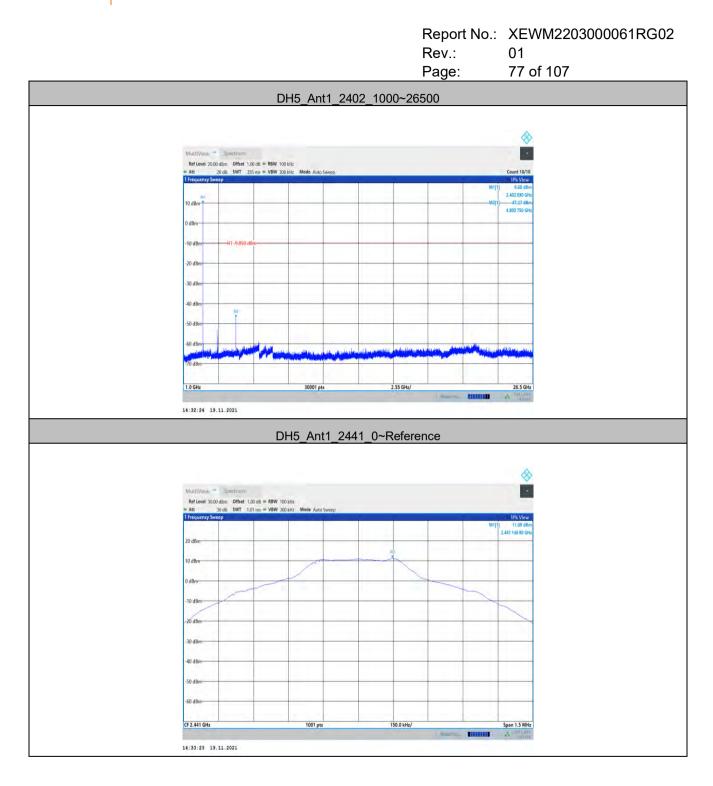




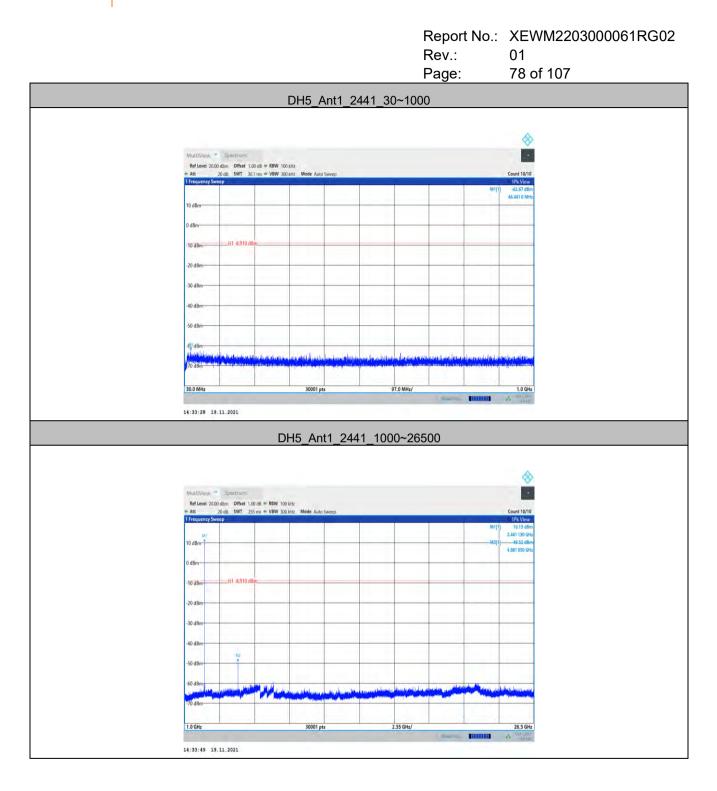
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 Ref Level 30.00 dBm
 Offset 1.00 dB = RBW 100 kHz

 Att
 30 dB
 SWT
 1.01 ms = VBW 300 kHz
 Mode Auto
 2 480 143 90 6 10 dBr 10 dE 20 dB 30 dE -40 dBr -50 dBn 60 dB CF 2.48 GH 1001 pt 150.0 kHz/ Span 1.5 MHz 14:35:01 19.11.2021 DH5 Ant1 2480 30~1000 + MultiView . Spectro
 Ref Level
 20.00 dBm
 Offset
 1.00 dB
 RBW
 100 kHz

 Att
 20 dB
 SWT
 30.1 ms
 VBW 300 kHz
 111.461 0 10 dB) dBm -20 dB -30 dBr 40 dE -50 dB 60 dBm 0 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz RAMANAN 14:35:05 19.11.2021



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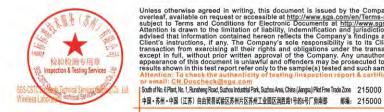
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 Ref Level
 20.00 dBm
 Offset
 1.00 dB
 RBW
 100 kHz

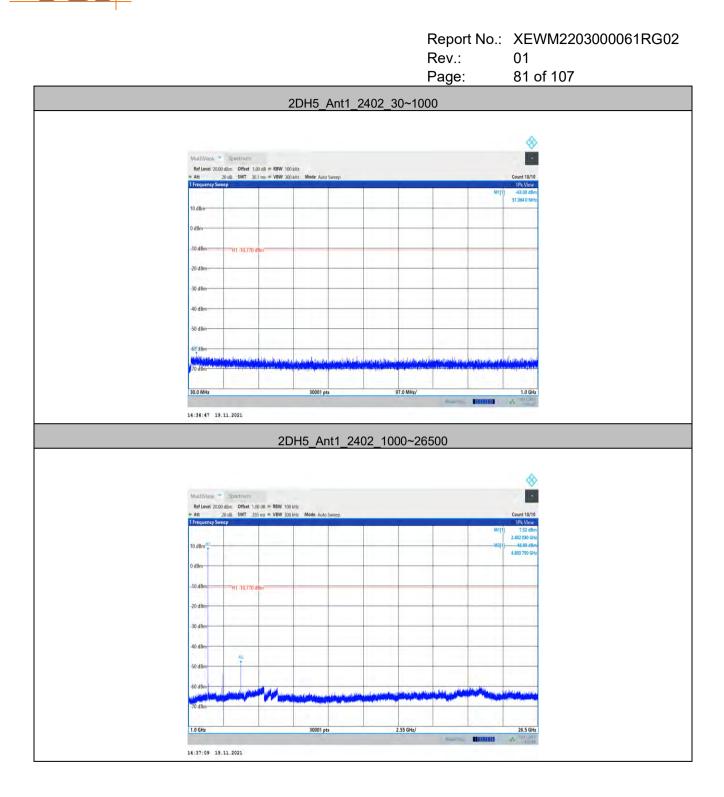
 Att
 20 dB
 SWT
 255 ms
 VBW
 300 kHz
 Mode Aut
 unt 10/10 2 480 2 10 dBr 45 77.0 4 050 7 dBr 10 16 -20 dE 30 dB 40 di 50 dE 60 dBr Ma 1.0 GHz 30001 pts .55 GHz 26.5 GHz 14:35:27 19.11.2021 2DH5 Ant1 2402 0~Reference ٨ -MultiView = Sp
 Ref Level
 30.00 dBm
 Offset
 1.00 dB
 RBW
 100 kHz

 Att
 30 dB
 SWT
 1.01 ms
 VBW 300 kHz
 2 401 842 20 di 10 dBm -10 dBr -20 dBr 30 dE -40 dB -50 dBr 60 dB CF 2.402 GHz 1001 pt 150.0 kHz/ Span 1.5 MH 14:36:42 19.11.2021

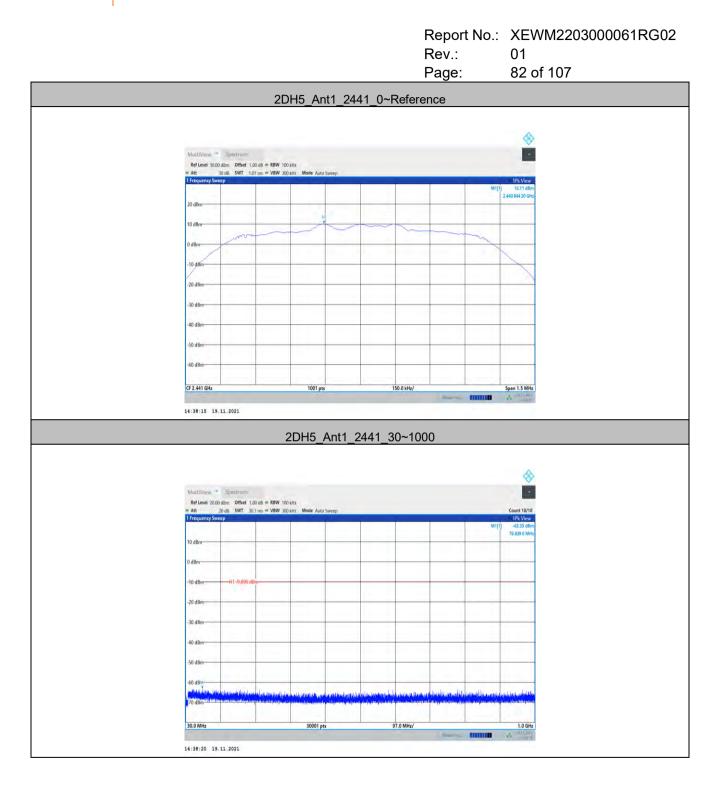


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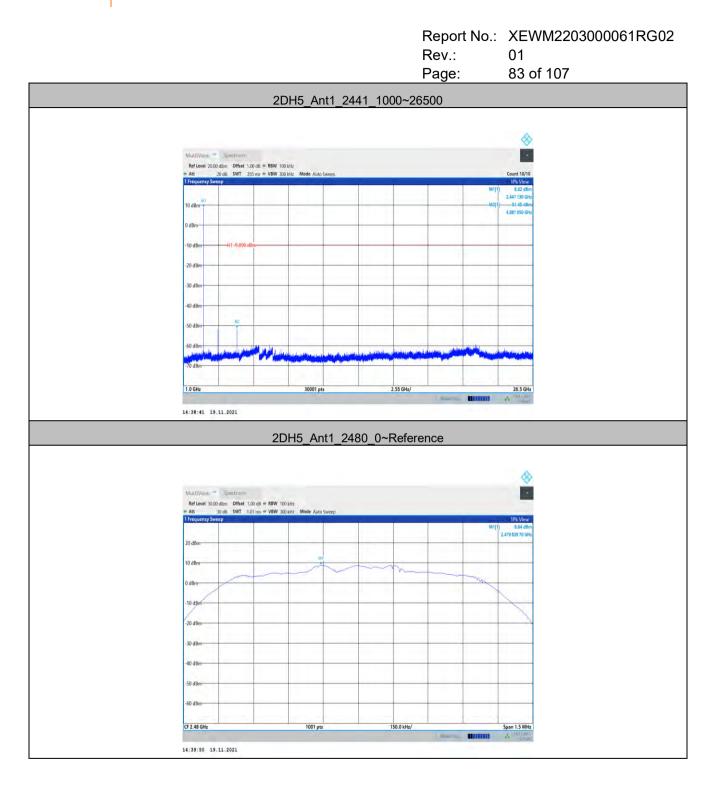
t (86-512) 62992980 www.sasaroup.com.cn sgs.china@sgs.com t (86-512) 62992980



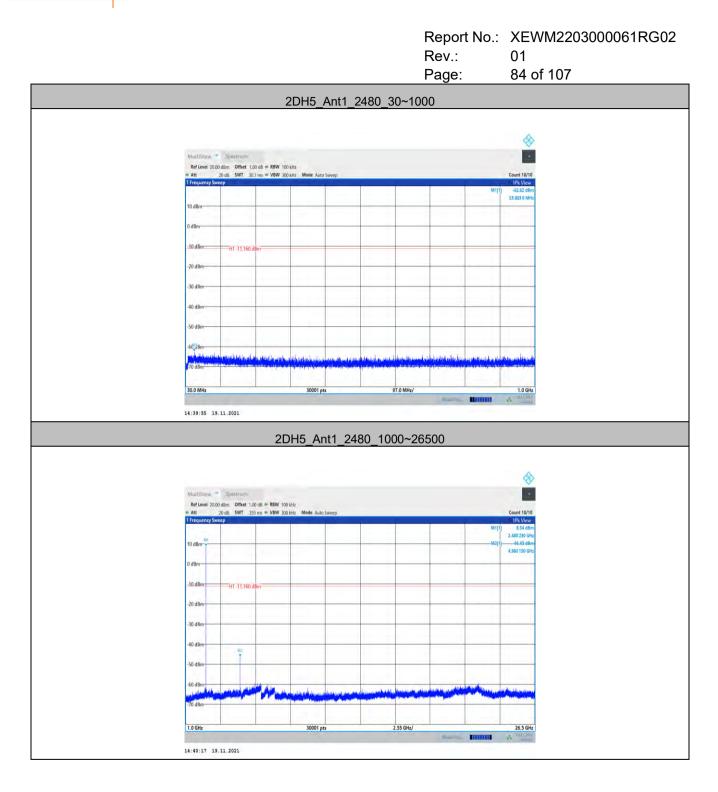














Report No.: XEWM2203000061RG02 Rev.: 01 85 of 107 Page: 3DH5 Ant1 2402 0~Reference -Ref Level 30.00 dBm Offset 1.00 dB = RBW 100 kHz Att 30 dB SWT 1.01 ms = VBW 300 kHz Mode Auto 2 407 145 40 5 20 di 10 dBm 45 10 dB -20 dB 30 dE -40 dBr -50 dBn 60 dB CF 2.402 GHz 1001 pt 150.0 kHz/ Span 1.5 MHz 14:41:30 19.11.2021 3DH5 Ant1 2402 30~1000 + MultiView Spectrug
 Ref Level
 20.00 dBm
 Offset
 1.00 dB
 RBW
 100 kHz

 Att
 20 dB
 SWT
 30.1 ms
 VBW 300 kHz
 44.760 10 dB) dBm H1-10.8 -20 dB -30 dBr 40 dE -50 dB - dBe 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GH COLUMN ST 14:41:35 19.11.2021



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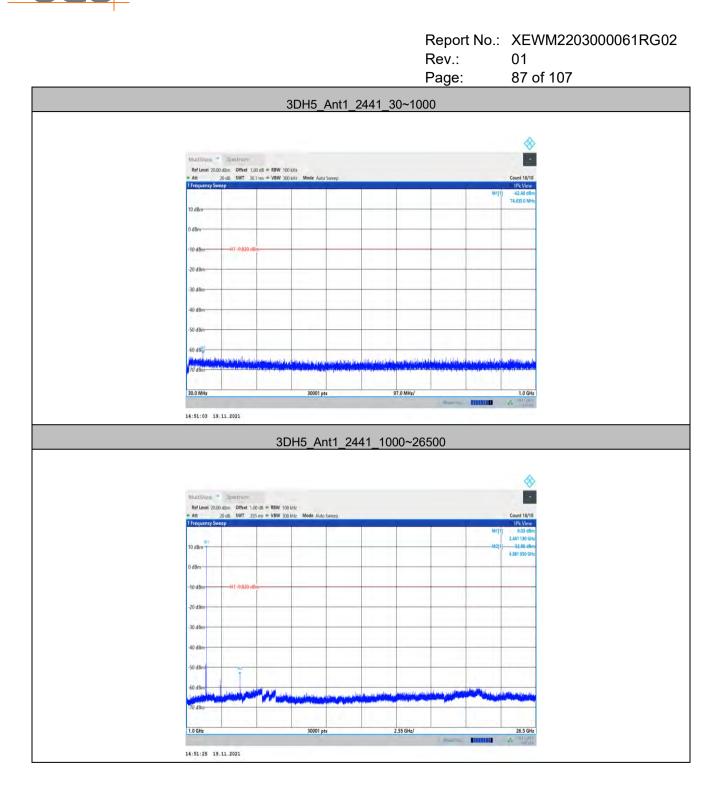
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Report No.: XEWM2203000061RG02 Rev.: 01 86 of 107 Page: 3DH5 Ant1 2402 1000~26500 -
 Ref Level
 20.00 dBm
 Offset
 1.00 dB
 RBW
 100 kHz

 Att
 20 dB
 SWT
 255 ms
 VBW
 300 kHz
 Mode Aut
 unt 10/10 2 402 03 10 dBr 4 902 7) dBm 10 dB 11-10. -20 dE 30 dBr 40 dE 50 dE 60 dBr 100 0 dB 1.0 GHz 30001 pts .55 GHz 26.5 GHz 14:41:57 19.11.2021 3DH5 Ant1 2441 0~Reference -MultiView = Sp Ref Level 30.00 dBm Offset 1.00 dB = RBW 100 kHz Att 30 dB SWT 1.01 ms = VBW 300 kHz 2.441 143 9 20 di 10 dBm -10 dBd -20 dBn 30 dB -40 dBr -50 dBr 60 dBa CF 2.441 GHz 1001 pt 150.0 kHz/ Span 1.5 MH 14:50:58 19.11.2021







Report No.: XEWM2203000061RG02 Rev.: 01 88 of 107 Page: 3DH5 Ant1 2480 0~Reference -Ref Level 30.00 dBm Offset 1.00 dB = RBW 100 kHz Att 30 dB SWT 1.01 ms = VBW 300 kHz Mode Auto 2 480 148 40 5 10 dBm da 10 dB 20 dB 30 dE -40 dBr -50 dBn 60 dB CF 2.48 GH 1001 pt 150.0 kHz/ Span 1.5 MHz 14:54:19 19.11.2021 3DH5 Ant1 2480 30~1000 ÷ MultiView . Spectro
 Ref Level
 20.00 dBm
 Offset
 1.00 dB
 RBW
 100 kHz

 Att
 20 dB
 SWT
 30.1 ms
 VBW 300 kHz
 77.027 10 dB) dBm H1-11.07 -20 dB -30 dBr 40 dE -50 dBr -60 dB 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GH 14:54:24 19.11.2021



Report No.: XEWM2203000061RG02 Rev.: 01 89 of 107 Page: 3DH5 Ant1 2480 1000~26500 -
 Ref Level
 20.00 dBm
 Offset
 1.00 dB
 RBW
 100 kHz

 Att
 20 dB
 SWT
 255 ms
 VBW 300 kHz
 Mode Au
 unt 10/10 2 480 23 10 dBr 4 050 7 dBm 10 dB H1 -11.07 -20 dE 30 dB 40 dB 50 dE 60 dB 10 1.0 GHz 30001 pts .55 GHz/ 26.5 GHz 14:54:46 19.11.2021



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Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	x	DC [%]	xFactor	Limit	Verdict
		2402	2.88	3.75	0.7680	76.80	1.15		PASS
DH5	Ant1	2441	2.88	3.75	0.7680	76.80	1.15		PASS
		2480	2.88	3.75	0.7680	76.80	1.15		PASS
		2402	2.89	3.75	0.7707	77.07	1.13		PASS
2DH5	Ant1	2441	2.89	3.75	0.7707	77.07	1.13		PASS
		2480	2.89	3.75	0.7707	77.07	1.13		PASS
		2402	2.89	3.75	0.7707	77.07	1.13		PASS
3DH5	Ant1	2441	2.89	3.75	0.7707	77.07	1.13		PASS
		2480	2.89	3.75	0.7707	77.07	1.13		PASS



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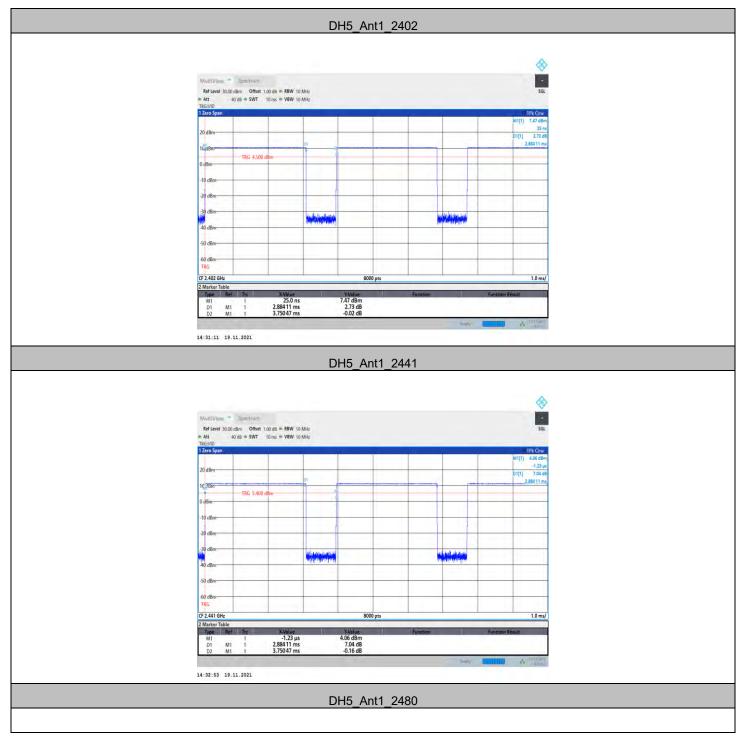
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Test Graphs



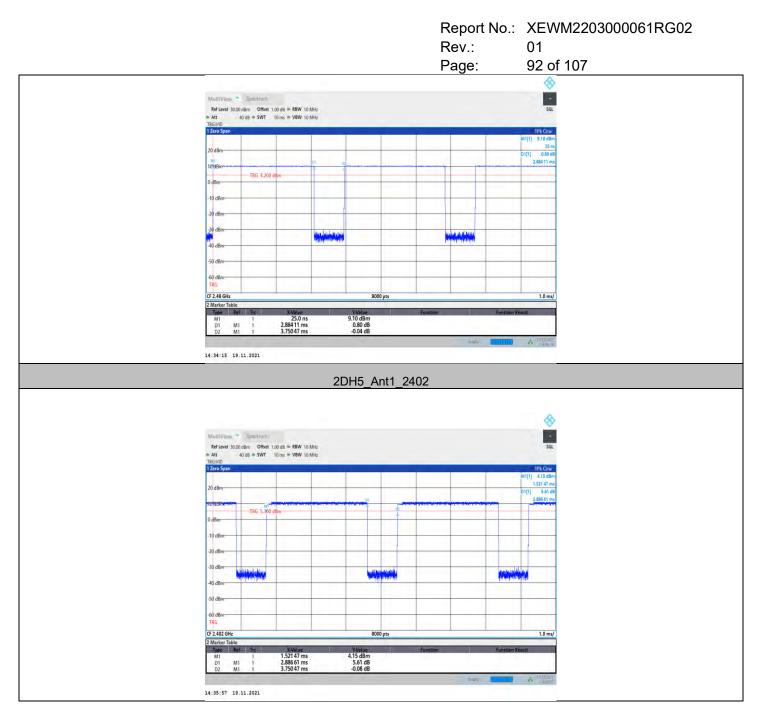


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		Report No.: Rev.: Page:	XEWM2203000061RG02 01 93 of 107
	2DH5_Ant1_2441	1	
2	Austri Viunv Spectruch Ref Keed 30.00 dBm Offset 1.00 dB = RBW 10 MHz Att 40 dB + SWT 10 ms = VBW 10 MHz GGVD 0 dBm 0 0 dBm 0 0 dBm 0 1 RG 16,000 dBm 0 0 dBm		
4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00 dBm 00	ndian	1.0 ms/
	<u>52 Mi 1 3.75047 ms -0.05 d8</u> 37:39 19.11.2021 2DH5_Ant1_2480		★ ¹¹ All
2	Autil Vianu = Spectrum Ref Level 30.00 dim Offset 1.00 dib = RBW 10 MHz Att 40 dib = SWT 10 ms = VBW 10 MHz GG-VID 0 dBm 0 dBm 0 Bits of the second se		564 564 1/17) 586 dbm -1.23 µk 0/17] 3.66 db 2.856 db ma
3 	TRG 5,100 dBm 1		
4 1 2	0 d8m 0 d8m 2.48 GHz 8000 pts Marker Table Marker Table M1 1 - 1.23 µs 5.88 d8m D1 M1 1 2.886 d1ms 3.06 d8 D2 M1 1 3.750 47 ms -0.07 d8	nction Function Rea	1.0 ms/
14			A DOMESTIC AND A DOMESTICA AND A



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	Rev.:	XEWM2203000061RG02 01 94 of 107
3DH5_Ant1_2402		
MultiView Spectrum: Ref Level 30.00 dBm Offset 1.00 dB + RBW 10 MHz # At: a0 dB + SWT 10 ms + VBW 10 MHz TBE-U0 12 Zero Span		site contraction of the second
20 dBm		2.24459 mv 11/1 3.29 db 2.847 Be mv
-30 dBm -30 dBm <t< td=""><td></td><td>10 ms/</td></t<>		10 ms/
M1 1 224656 ms 3294 dBm D1 M1 1 328786 ms 329 dB D2 M1 1 3375047 ms -0.04 dB 14:40:45 19.11.2021 3DH5_Ant1_2441	berr (A 1999
MultiView Spectrum Ref Level 3000 dim. Offset 1x0 dB = RBW 10 Mile = Att = 40 dB = SWT 10 ms = VBW 10 Mile TREAVD 17 For Span		- SGL
20 dBm 10 280m 10 280m 10 dBm -10 dBm -20 dBm		11(1) 8.08 dam 2.525 S mu (1) 2.10 da 2.287 S mu 2.287 S mu
-20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -766 -7766 -72.41 GHz 8000 pts		1.0 ms/
C La Mir Call Design 2 Marker Table Stream Type: Ref. M1 1 2.555 59 ms 8.06 dbm D1 M1 2.887 46 ms 2.10 dB D2 M1 3.75047 ms -0.09 dB 14:50:22 19.11.2021	m Function field	at at a second s



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			Report No.: Rev.: Page:	XEWM2203000061RG02 01 95 of 107
		3DH5_Ant1_2480		
Ref Att Tack 20 df 0 dB -10 d -20 df -30 d -30 d	IVURN Spectrum Level 30.0 dBm Offset 100 dB = RBW 10 MHz	3DH5_Ant1_2480		350 350 351 2407 85 mi 2437 86 mi 2437 86 mi 2437 86 mi 1.0 ms/
14:53	:33 19.11.2021		listy and the	6 Juni



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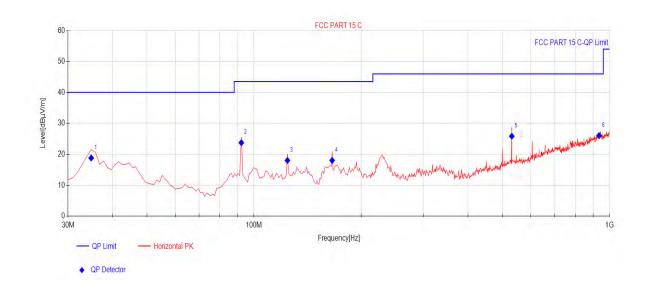
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: GFSK _Channel 78



Data L	Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	34.8549	-23.31	18.81	40.00	21.19	187	29	Horizontal				
2	92.1421	-20.77	23.75	43.50	19.75	246	311	Horizontal				
3	124.1842	-21.48	18.02	43.50	25.48	115	113	Horizontal				
4	165.9359	-22.93	18.03	43.50	25.47	361	157	Horizontal				
5	531.0210	-12.21	25.85	46.00	20.15	109	65	Horizontal				
6	933.9740	-4.00	26.02	46.00	19.98	118	70	Horizontal				



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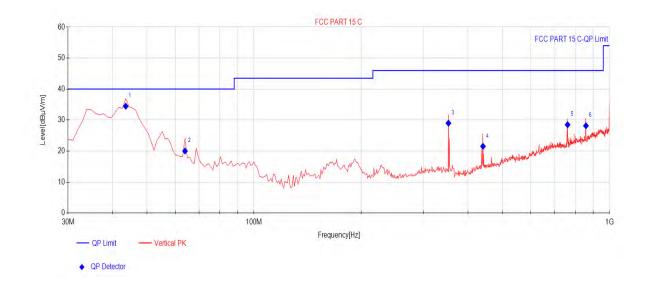
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Worst case Mode: GFSK _Channel 78



Data L	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	43.5936	-21.17	34.48	40.00	5.52	162	142	Vertical			
2	63.9840	-23.49	20.02	40.00	19.98	112	236	Vertical			
3	352.3624	-16.12	29.00	46.00	17.00	302	218	Vertical			
4	440.7207	-14.25	21.53	46.00	24.47	106	86	Vertical			
5	762.1121	-7.66	28.49	46.00	17.51	226	310	Vertical			
6	858.2382	-5.69	28.16	46.00	17.84	116	252	Vertical			



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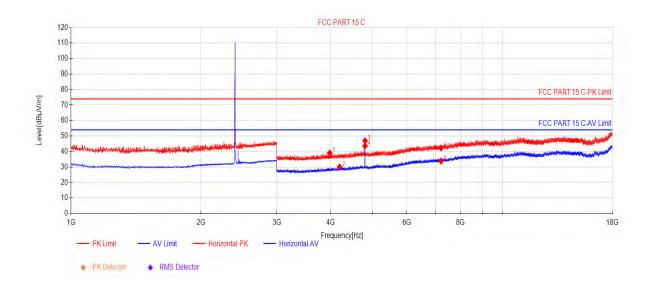
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Transmitter emission above 1GHz

EMISSION GFSK Channel 00



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	3978.0000	53.94	-14.91	39.03	74.00	34.97	163	33	Horizontal			
2	4194.5000	44.16	-14.11	30.05	54.00	23.95	185	231	Horizontal			
3	4804.0000	59.28	-12.33	46.95	74.00	27.05	246	13	Horizontal			
4	4804.0000	55.95	-12.33	43.62	54.00	10.38	168	357	Horizontal			
5	7206.0000	39.74	-5.91	33.83	54.00	20.17	138	360	Horizontal			
6	7206.0000	48.27	-5.91	42.36	74.00	31.64	354	181	Horizontal			



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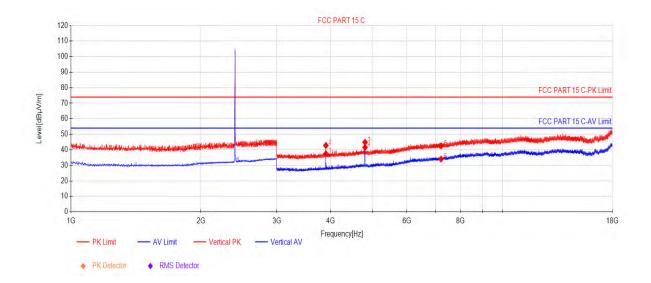
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EMISSION GFSK Channel 00



Data I	Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	3897.5000	52.56	-15.12	37.44	54.00	16.56	185	261	Vertical			
2	3897.5000	57.97	-15.12	42.85	74.00	31.15	352	271	Vertical			
3	4804.0000	57.22	-12.33	44.89	74.00	29.11	167	122	Vertical			
4	4804.0000	53.88	-12.33	41.55	54.00	12.45	246	122	Vertical			
5	7206.0000	39.99	-5.91	34.08	54.00	19.92	305	103	Vertical			
6	7206.0000	48.46	-5.91	42.55	74.00	31.45	192	242	Vertical			



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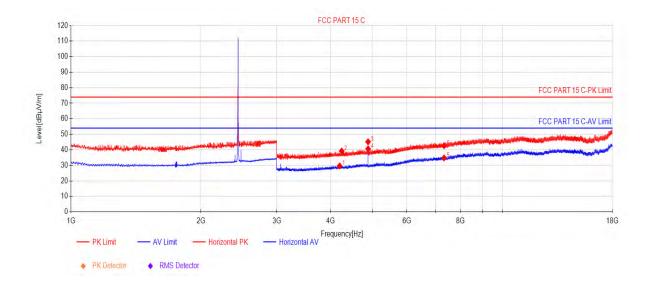
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EMISSION GFSK Channel 39



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4194.5000	43.70	-14.11	29.59	54.00	24.41	185	84	Horizontal			
2	4240.0000	53.22	-14.00	39.22	74.00	34.78	163	74	Horizontal			
3	4882.0000	57.66	-12.48	45.18	74.00	28.82	196	343	Horizontal			
4	4882.0000	53.12	-12.48	40.64	54.00	13.36	246	334	Horizontal			
5	7323.0000	40.21	-5.42	34.79	54.00	19.21	352	14	Horizontal			
6	7323.0000	48.11	-5.42	42.69	74.00	31.31	108	212	Horizontal			



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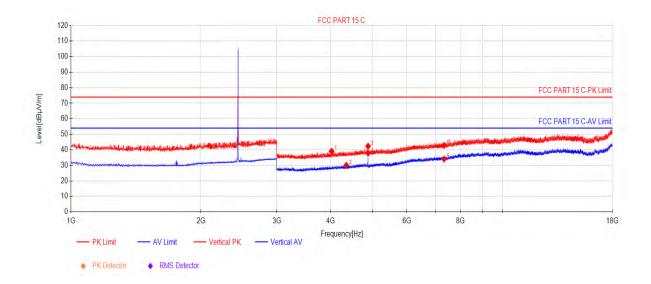
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EMISSION GFSK Channel 39



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4017.5000	53.88	-14.74	39.14	74.00	34.86	185	353	Vertical			
2	4346.5000	43.82	-13.77	30.05	54.00	23.95	163	131	Vertical			
3	4882.0000	54.85	-12.48	42.37	74.00	31.63	246	122	Vertical			
4	4882.0000	50.41	-12.48	37.93	54.00	16.07	106	113	Vertical			
5	7323.0000	39.50	-5.42	34.08	54.00	19.92	243	211	Vertical			
6	7323.0000	48.23	-5.42	42.81	74.00	31.19	168	72	Vertical			



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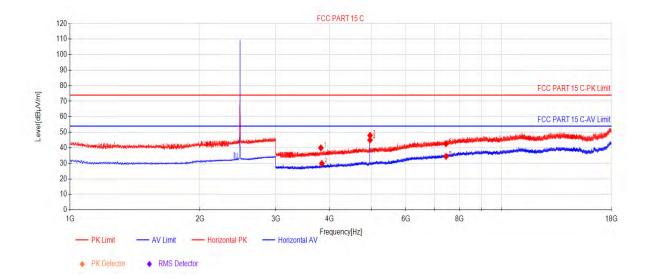
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Data I	Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	3815.0000	55.24	-15.28	39.96	74.00	34.04	186	267	Horizontal			
2	3834.5000	45.13	-15.24	29.89	54.00	24.11	175	86	Horizontal			
3	4960.0000	60.40	-12.41	47.99	74.00	26.01	268	158	Horizontal			
4	4960.0000	57.45	-12.41	45.04	54.00	8.96	309	125	Horizontal			
5	7440.0000	39.84	-5.36	34.48	54.00	19.52	168	307	Horizontal			
6	7440.0000	47.99	-5.36	42.63	74.00	31.37	321	28	Horizontal			



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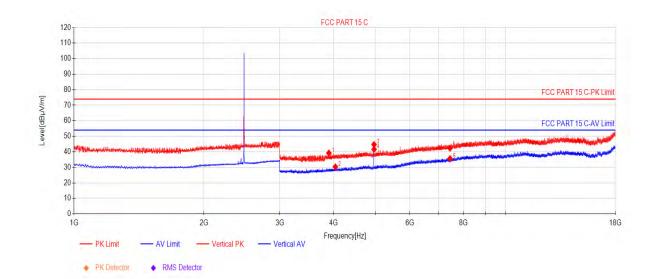
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EMISSION GFSK Channel 78

Data List										
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3897.0000	54.37	-15.13	39.24	74.00	34.76	163	89	Vertical	
2	4034.5000	44.98	-14.64	30.34	54.00	23.66	185	185	Vertical	
3	4960.0000	57.11	-12.41	44.70	74.00	29.30	246	110	Vertical	
4	4960.0000	54.03	-12.41	41.62	54.00	12.38	385	99	Vertical	
5	7440.0000	47.74	-5.36	42.38	74.00	31.62	208	258	Vertical	
6	7440.0000	41.02	-5.36	35.66	54.00	18.34	310	78	Vertical	



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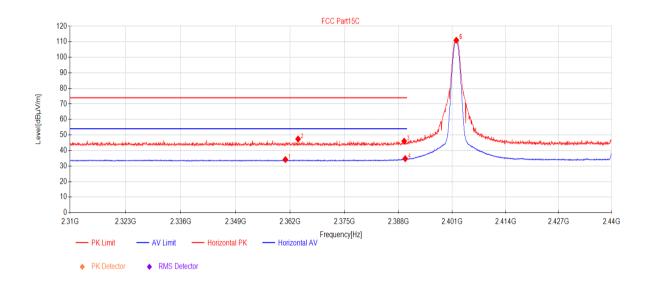
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Restricted bands around fundamental frequency BAND_ EDGE GFSK Channel 00



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2360.8469	31.05	3.14	34.19	54.00	19.81	133	67	Horizontal
2	2363.8813	44.25	3.15	47.40	74.00	26.60	133	67	Horizontal
3	2389.3698	42.79	3.26	46.05	74.00	27.95	133	67	Horizontal
4	2389.6299	31.52	3.26	34.78	54.00	19.22	133	67	Horizontal
5	2402.0000	107.69	3.31	111.00	53.92	-57.08	133	67	Horizontal
6	2402.0000	108.11	3.31	111.42	73.89	-37.53	133	67	Horizontal



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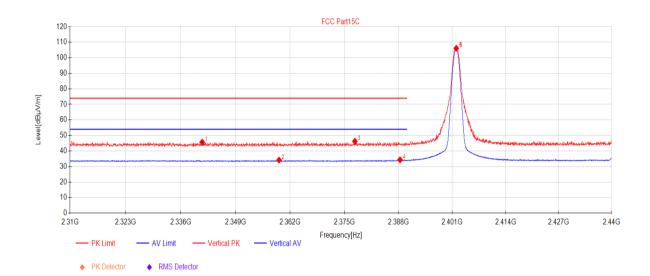
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BAND_ EDGE GFSK Channel 00

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2341.0804	42.64	3.05	45.69	74.00	28.31	350	110	Vertical		
2	2359.3298	31.04	3.13	34.17	54.00	19.83	350	110	Vertical		
3	2377.4925	43.07	3.21	46.28	74.00	27.72	350	110	Vertical		
4	2388.3728	31.07	3.25	34.32	54.00	19.68	350	110	Vertical		
5	2402.0000	102.82	3.31	106.13	53.92	-52.21	350	110	Vertical		
6	2402.0000	103.29	3.31	106.60	73.89	-32.71	350	110	Vertical		



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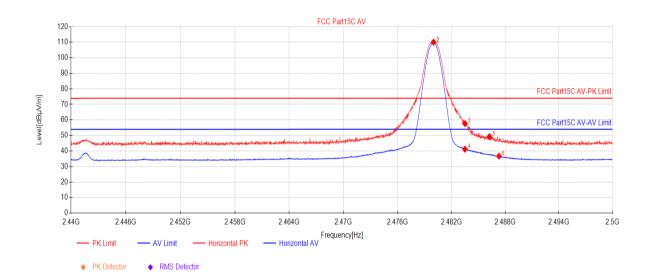
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BAND_ EDGE GFSK Channel 78

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2480.0000	106.18	3.88	110.06	74.00	-36.06	152	70	Horizontal		
2	2480.0000	105.71	3.88	109.59	54.00	-55.59	152	70	Horizontal		
3	2483.5000	53.75	3.91	57.66	74.00	16.34	152	70	Horizontal		
4	2483.5000	37.28	3.91	41.19	54.00	12.81	152	70	Horizontal		
5	2486.2354	45.31	3.93	49.24	74.00	24.76	152	70	Horizontal		
6	2487.2958	32.75	3.94	36.69	54.00	17.31	152	70	Horizontal		



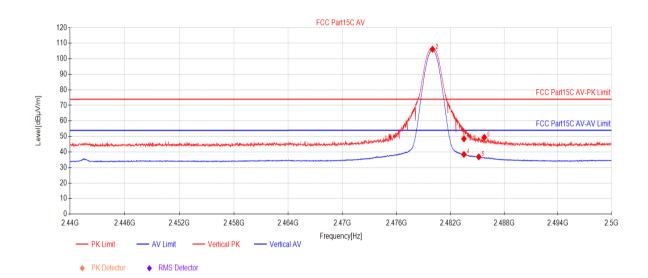
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BAND_ EDGE GFSK Channel 78

Data	Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2480.0000	102.30	3.88	106.18	74.00	-32.18	373	110	Vertical	
2	2480.0000	101.85	3.88	105.73	54.00	-51.73	373	110	Vertical	
3	2483.5000	44.57	3.91	48.48	74.00	25.52	373	110	Vertical	
4	2483.5000	34.54	3.91	38.45	54.00	15.55	373	110	Vertical	
5	2485.1551	32.95	3.92	36.87	54.00	17.13	373	110	Vertical	
6	2485.7753	45.54	3.93	49.47	74.00	24.53	373	110	Vertical	

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