

Report No.: XEWA2305000017RG01

Rev.: 01 Page: 1 of 98

### **TEST REPORT**

Application No.: XEWA2305000017RG

**Applicant:** Quectel Wireless Solutions Co., Ltd.

Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,

Minhang District, Shanghai, China 200233

Manufacturer: Quectel Wireless Solutions Co., Ltd.

Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,

Minhang District, Shanghai, China 200233

**EUT Description:** Wi-Fi & Bluetooth Module

Model No.: FCM360K

Trade Mark: Quectel

FCC ID: XMR2023FCM360K

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

**Date of Receipt:** 2023/05/19

**Date of Test:** 2023/06/04 to 2023/06/27

**Date of Issue:** 2023/06/27

Test Result : PASS \*

Authorized Signature:

Peter Tan Regulatory Technical Manager



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<sup>\*</sup> In the configuration tested, the EUT detailed in this report complied with the standards specified above.



Report No.: XEWA2305000017RG01

Rev.: 01 Page: 2 of 98

### 1 Version

Revision Record					
Version	Version Chapter Date Modifier Remark				
01		2023/06/27		Original	

Prepared By	(Leah Chen) / Test Engineer	
Checked By	(Andy Yao) /Reviewer	



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Report No.: XEWA2305000017RG01

Rev.: 01 Page: 3 of 98

2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10-2020 Section 6.2	Clause 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10-2020 Section 11.9.1.2	Clause 4.4	PASS
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10-2020 Section 6.9.2/6.9.3	Clause 4.5	For Report Purpose
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10-2020 Section 7.8.2	Clause 4.6	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10-2020 Section 7.8.3	Clause 4.7	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10-2020 Section 7.8.4	Clause 4.8	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 7.8.7.2	Clause 4.9	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 7.8.7.1	Clause 4.10	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10-2020 Section 6.4 / 6.5 / 6.6	Clause 4.11	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10-2020 Section 6.10.5	Clause 4.12	PASS



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Report No.: XEWA2305000017RG01

Rev.: 01 Page: 4 of 98

### **Contents**

1	Versio	n	2
2	Test S	Summary	3
3	Gener	al Information	5
	3.1	Details of Client	5
	3.2	Test Location	5
	3.3	Test Facility	5
	3.4	General Description of EUT	6
	3.5	Test Environment	8
	3.6	Description of Support Units	8
4	Test re	esults and Measurement Data	9
	4.1	Antenna Requirement	9
	4.2	Other requirements Frequency Hopping Spread Spectrum System Ho	pping
	Seque	ence	10
	4	.2.1 Test Requirement:	10
	4	.2.2 Conclusion	10
	4.3	AC Power Line Conducted Emissions	12
	4.4	Conducted Output Power	16
	4.5	20dB Emission Bandwidth & 99% Occupied Bandwidth	17
	4.6	Carrier Frequencies Separation	18
	4.7	Hopping Channel Number	19
	4.8	Dwell Time	20
	4.9	Band-edge for RF Conducted Emissions	21
	4.10	Spurious RF Conducted Emissions	22
	4.11	Radiated Spurious Emissions	23
	4.12	Restricted bands around fundamental frequency	26
5	Measu	urement Uncertainty (95% confidence levels, k=2)	28
6	Equipr	ment List	29
7	Photog	graphs - Setup Photos	31



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Report No.: XEWA2305000017RG01

Rev.: 01 Page: 5 of 98

#### 3 General Information

#### 3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:  Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Minhang District, Shanghai, China 200233	
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

#### 3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address: 1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3 Road, Fengdong New Town, Xi' an, Shaanxi China	
Post code:	710086
Test engineer:	Qiang Zhang, Ken Liu

#### 3.3 Test Facility

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

#### •A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

#### • FCC -Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing

laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410



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Report No.: XEWA2305000017RG01

Rev.: 01 Page: 6 of 98

### 3.4 General Description of EUT

EUT Description:	Wi-Fi & Bluetooth Module		
Model No.:	FCM360K		
Trade Mark:	Quectel		
Hardware Version:	R1.0		
Software Version:	FCM360KAAR01A03		
CM.	RF Conducted	E1M23D806000131	
SN:	RSE & AC power line	E1M23D806000169	
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 1 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 78.		
Bluetooth version:	Bluetooth V5.2		
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, π/4DQPSK, 8DPSK		
Number of Channel:	79		
Hopping Channel Type:	Adaptive Frequency Hopping systems		
Antenna Type:	PCB Antenna		
2dBi (Ant0)			
Antenna Gain:	Note:  The antenna gain are derived from the gain information report provided by the manufacturer.		
RF Cable:	1.2dB		
Remark:			



suitability, reliability or/and integrity of the information.

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Rev.: 01 Page: 7 of 98

	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		•

#### Remark:

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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Report No.: XEWA2305000017RG01

Rev.: 01 Page: 8 of 98

#### 3.5 Test Environment

Environment Parameter	96~101 kPa Selected Values During Tests		
Relative Humidity	40-60 % RH Ambient		
Value	Temperature(°C)	Voltage(V)	
NTNV	22~25	3.3	

Remark:

NV: Normal Voltage NT: Normal Temperature

### 3.6 Description of Support Units

Description	Manufacturer	Model No.		
Mother board	Quectel	N/A		
Remark: all above the information of table are provided by client.				



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Report No.: XEWA2305000017RG01

Rev.: 01 Page: 9 of 98

#### 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 PCB Antenna on the main PCB and no consideration of replacement.

The best case gain of the antenna is 2dBi (Ant0). \*

#### \*Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 10 of 98

# 4.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

#### 4.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

#### 4.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals. Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

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

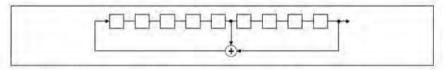
Compliance for section 15.247(a)(1):

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

- > Number of shift register stages: 9
- > Length of pseudo-random sequence: 29 -1 = 511 bits
- > Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

20 62 46 77 7 64 8 73 16 75 1



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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 11 of 98

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):

Compliance for section 15.247(h):

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.

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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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 12 of 98

#### 4.3 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10-2020 Section 6.2			
Test Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30kHz			
Limit:	Fraguency range (MUZ)	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:	<ul> <li>* Decreases with the logarithm of the frequency.</li> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> </ul>			



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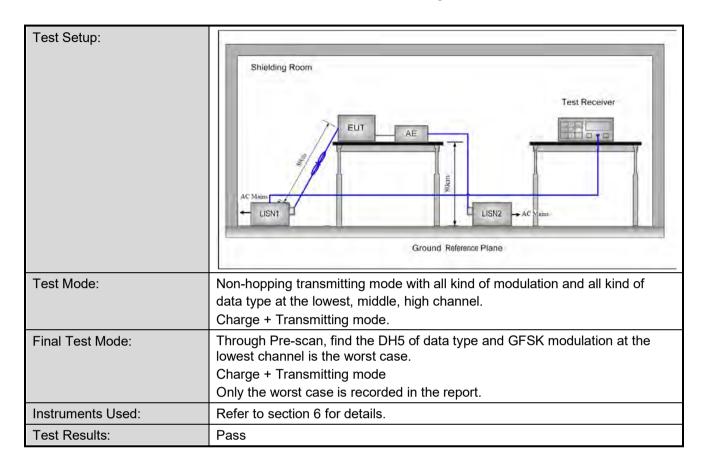
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 13 of 98





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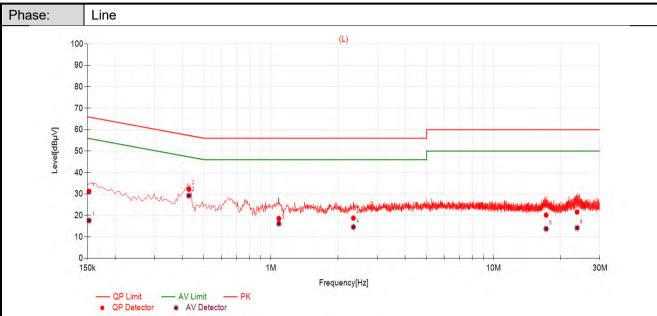
Rev.: 01

Page: 14 of 98

#### 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.



Data I	Data List										
NO.	Freq. [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	0.1524	9.86	21.35	31.21	65.87	34.66	7.75	17.61	55.87	38.26	PASS
2	0.4279	9.86	22.40	32.26	57.29	25.03	19.37	29.23	47.29	18.06	PASS
3	1.0850	9.84	8.71	18.55	56.00	37.45	6.31	16.15	46.00	29.85	PASS
4	2.3457	9.86	8.89	18.75	56.00	37.25	4.73	14.59	46.00	31.41	PASS
5	17.2102	10.25	9.92	20.17	60.00	39.83	3.52	13.77	50.00	36.23	PASS
6	23.7072	10.29	11.28	21.57	60.00	38.43	3.91	14.20	50.00	35.80	PASS

#### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dB $\mu$ V] Value[dB $\mu$ V]



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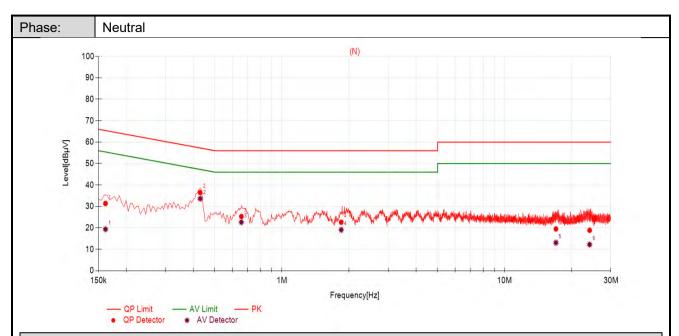
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 15 of 98



Data l	Data List										
NO.	Freq. [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	0.1612	9.79	21.61	31.40	65.40	34.00	9.57	19.36	55.40	36.04	PASS
2	0.4293	9.83	26.65	36.48	57.27	20.79	23.80	33.63	47.27	13.64	PASS
3	0.6570	9.85	15.47	25.32	56.00	30.68	12.81	22.66	46.00	23.34	PASS
4	1.8454	9.84	12.81	22.65	56.00	33.35	9.24	19.08	46.00	26.92	PASS
5	16.9932	10.29	9.22	19.51	60.00	40.49	2.80	13.09	50.00	36.91	PASS
6	24.0799	10.27	8.62	18.89	60.00	41.11	1.96	12.23	50.00	37.77	PASS

#### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[ $dB\mu V$ ] Value[ $dB\mu V$ ]



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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 16 of 98

### 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)&15.247 (b)(1)				
Test Method:	ANSI C63.10-2020 Section 11.9.1.2				
Test Setup:	Ground Reference Plane				
Test Instruments:	* Test with power meter (Detector function: Peak)  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:	0.125 watts				
Test Results:	Pass				
The detailed test data see: A	ppendix				



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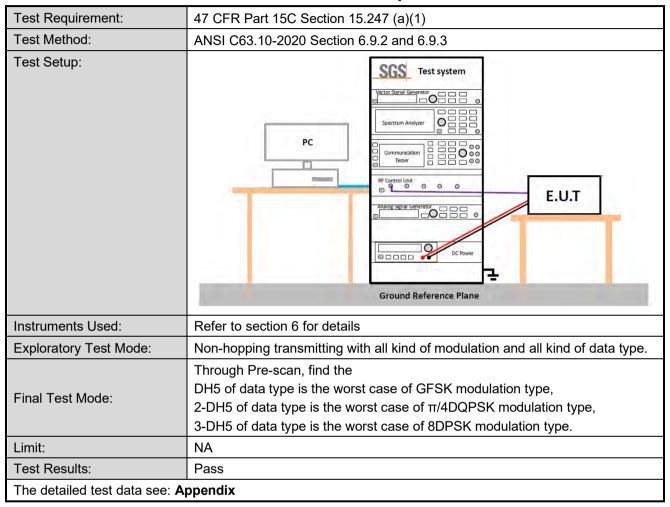


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Page: 17 of 98

### 4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth





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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 18 of 98

### 4.6 Carrier Frequencies Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10-2020 Section 7.8.2				
Test Setup:	PC  Spectrum Analyzer  Communication  FF Control Unit  FF Control Unit  Communication  FF Control Unit  FF C				
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: A	ppendix				



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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 19 of 98

### 4.7 Hopping Channel Number

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10-2020 Section 7.8.3				
Test Setup:	PC    Spectrum Analyzer   Spectrum Analyzer				
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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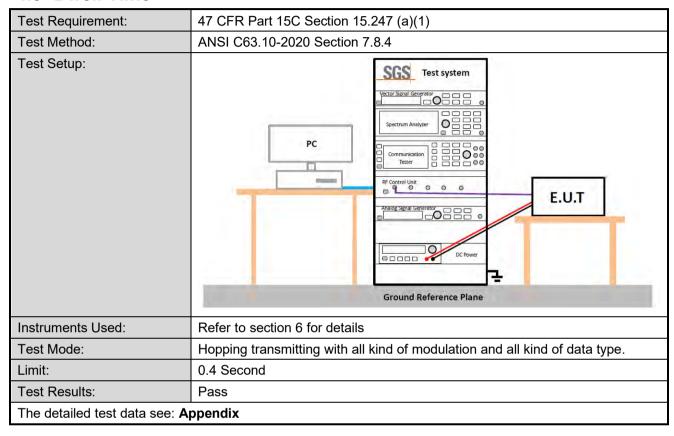


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#### 4.8 Dwell Time





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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 21 of 98

### 4.9 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
Test Method:	ANSI C63.10-2020 Section 7.8.7.2				
Test Setup:	PC    Spectrum Analyzer   O   O   O   O   O   O   O   O   O				
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:	Appendix				



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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 22 of 98

### 4.10 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
Test Method:	ANSI C63.10-2020 Section 7.8.7.1				
Test Setup:	SGS Test system  Vector Signal Generator  Spectrum Analyzer  Communication  Fet Control Unit  Analogo Signal Generator  DC Prower  F. U.T  Ground Reference Plane				
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: A	ppendix				



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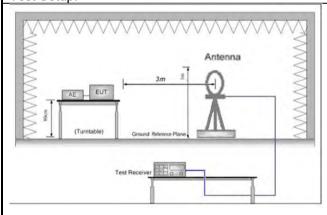
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Page: 23 of 98

### 4.11 Radiated Spurious Emissions

	•						
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10-2020 Section	on 6.4 / 6.5 / 6.6					
Test Site:	Measurement Distance: 3	sm (Semi-Anechoid	Chamber)				
Test Frequency:	9kHz ~ 25GHz						
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)		
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300		
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30		
	1.705MHz-30MHz	30	-	-	30		
	30MHz-88MHz	100	40.0	Quasi-peak	3		
	88MHz-216MHz	150	43.5	Quasi-peak	3		
	216MHz-960MHz	200	46.0	Quasi-peak	3		
	960MHz-1GHz	500	54.0	Quasi-peak	3		
	Above 1GHz 500 54.0 Average 3						
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission						
	level radiated by the device.						

Test Setup:



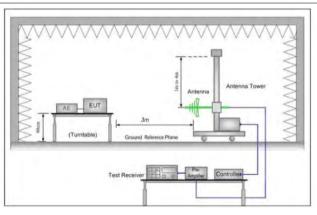


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz



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Rev.: 01

Page: 24 of 98

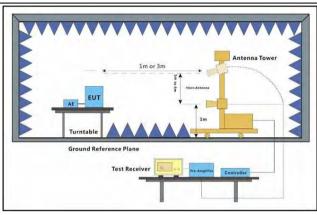


Figure 3. Above 1 GHz

#### 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.
- I. At a measurement distance of 1 meter the limit line was increased by 20\*LOG(3/1) = 9.54 dB.

#### **Test Configuration:**

#### Measurements below 30MHz

- RBW = 10 kHz
- VBW = 30 kHz
- Detector = Peak & Average & Quasi-peak



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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 25 of 98

	The second of th
	• Trace mode = max hold
	Measurements Below 1000MHz
	• RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Quasi-peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	Use duty cycle correction factor method per 15.35(c).
	Duty cycle = On time / 100 milliseconds
	On time = $N_1*L_1 + N_2*L_2+N_{N-1}*L_{N-1} + N_N*L_N$
	Where N₁ is number of type 1 pulese, L₁ is length of type 1 pulses, etc.
	Average Value = Peak Value +20*log(Duty cycle).
Frankanatan Tast	Non-hopping transmitting mode with all kind of modulation and all kind of
Exploratory Test Mode:	data type
Mode.	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: <b>Appendix</b>



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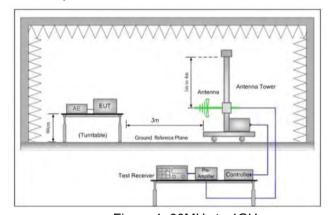
Rev.: 01

Page: 26 of 98

### 4.12 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10-2020 Section	ANSI C63.10-2020 Section 6.10.5						
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Cham	ber)					
Limit:	Frequency	Limit (dBuV/m)	Remark					
	30MHz-88MHz	40.0	Quasi-peak					
	88MHz-216MHz	43.5	Quasi-peak					
	216MHz-960MHz	46.0	Quasi-peak					
	960MHz-1GHz	54.0	Quasi-peak					
	Above 1GHz	54.0	Average Value					
	Above IGHZ	74.0	Peak Value					

#### Test Setup:



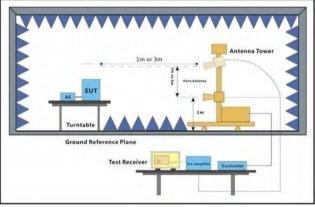


Figure 1. 30MHz to 1GHz

Figure 2. 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.
- 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



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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 27 of 98

	<ul> <li>Bandwidth with Maximum Hold Mode.</li> <li>g. Place a marker at the end of the restricted band closest to the transmit 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</li> <li>h. Test the EUT in the lowest channel , the Highest channel</li> <li>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.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ul>
Test Configuration:	Measurements Below 1000MHz  • RBW = 120 kHz  • VBW = 300 kHz  • Detector = Quasi-peak  • Trace mode = max hold  Peak Measurements Above 1000 MHz  • RBW = 1 MHz  • VBW ≥ 3 MHz  • Detector = Peak  • Sweep time = auto  • Trace mode = max hold  Average Measurements Above 1000MHz  Use duty cycle correction factor method per 15.35(c).  Duty cycle = On time / 100 milliseconds  On time = N₁*L₁ + N₂*L₂+N <sub>N-1</sub> *L <sub>N-1</sub> + N <sub>N</sub> *L <sub>N</sub> Where N₁ is number of type 1 pulese, L₁ is length of type 1 pulses, etc.  Average Value = Peak Value +20*log(Duty cycle).
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type  Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case.  Pretest the EUT at Charge + Transmitting mode, Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	: Appendix



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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 28 of 98

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

No.	Item	Measurement Uncertainty		
1	Radio Frequency	± 7.25 x 10 <sup>-8</sup> GHz		
2	Duty cycle	± 0.37%		
3	Occupied Bandwidth	± 0.2%		
4	RF conducted power	± 0.21dB		
5	RF power density	± 2.84dB		
6	Conducted Spurious emissions	± 0.75dB		
7	Conduction Emission	± 3.0dB (150kHz to 30MHz)		
		± 4.6dB (9kHz to 30MHz)		
		± 4.9dB (30MHz to 1GHz)		
8	Radiated Emission	± 4.9dB (1GHz to 6GHz)		
		± 4.7dB (6GHz to 18GHz)		
		± 5.26dB (Above 18GHz)		

#### Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 29 of 98

6 Equipment List

RF Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
MXA signal analyzer	Agilent	N9020A	XAW01-06-07	2023/02/16	2024/02/15	
MXG vector signal Generator	Agilent	N5182B	XAW01-07-16	2023/02/16	2024/02/15	
Measurement Software	Tonscend	JS1120-3 (3.2.18)	XAW02-14-01	NCR	NCR	
RF control unit	Tonscend	JS0806-2	XAW03-37-01	NCR	NCR	
Power Meter	Anritsu	ML2495A	XAW01-25-03	2023/02/16	2024/02/15	
Power Supply	Agilent	66311B	XAW01-17-01	2023/02/16	2024/02/15	
Temperature and humidity meter	MingGao	T809	XAW01-01-16	2022/09/18	2023/09/17	

CE Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A	
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07	
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2022/06/30	2023/06/29	
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17	
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR	
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15	
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2022/06/30	2023/06/29	



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Rev.: 01

Page: 30 of 98

RSE Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/d d)	Cal.Due date (yyyy/mm/d d)	
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08	
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15	
Spectrum Analyzer	ROHDE &SCHWARZ	FSV3044	XAW01-13-05	2023/05/15	2024/05/14	
Test receiver	ROHDE &SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07	
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27	
Receiving antenna(1GHz~18GH z)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27	
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22	
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR	
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR	
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR	
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR	
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2023/05/15	2024/05/14	
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2022/09/14	2023/09/13	
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2022/09/14	2023/09/13	
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2022/09/14	2023/09/13	
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17	
Radio communication analyzer	ROHDE&SCH WARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15	
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR	
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2024/05/25	



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Rev.: 01

Page: 31 of 98

### 7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Report No.: XEWA2305000017RG01

Rev.:

32 of 98 Page:

# **Appendix**



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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 33 of 98

## 20dB Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Verdict	
DH5	Ant0	2402	0.918	2401.541	2402.459		
		2441	0.939	2440.538	2441.477		
		2480	0.951	2479.529	2480.480		
2DH5	Ant0	2402	1.284	2401.361	2402.645	For Poport	
		2441	1.335	2440.325	2441.660	For Report Purpose	
		2480	1.332	2479.325	2480.657	Fulpose	
3DH5	Ant0	2402	1.338	2401.325	2402.663		
		2441	1.281	2440.355	2441.636		
		2480	1.254	2479.358	2480.612		



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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 34 of 98

#### **Test Graphs**





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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 35 of 98





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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 36 of 98





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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 37 of 98





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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 38 of 98





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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 39 of 98

# Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict		
	Ant0	2402	0.87903	2401.5564	2402.4355			
DH5		2441	0.81067	2440.5881	2441.3988			
			2480	0.84604	2479.5713	2480.4173		
	Ant0	Ant0		2402	1.1712	2401.4091	2402.5803	For Poport
2DH5			2441	1.1706	2440.4091	2441.5797	For Report Purpose	
		2480	1.1703	2479.4060	2480.5763	Fulpose		
3DH5	Ant0		2402	1.1759	2401.4077	2402.5836		
		2441	1.1771	2440.4085	2441.5856			
		2480	1.1841	2479.4041	2480.5882			



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Rev.: 01

Page: 40 of 98

#### **Test Graphs**





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Rev.: 01

Page: 41 of 98





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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 42 of 98





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Rev.: 01

Page: 43 of 98





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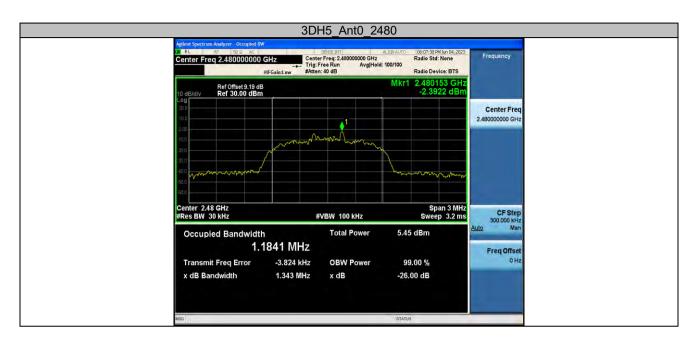
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 44 of 98





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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 45 of 98

#### Maximum conducted output power Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
	Ant0	2402	1.66	≤20.97	PASS
DH5		2441	1.78	≤20.97	PASS
		2480	2.02	≤20.97	PASS
	Ant0	2402	-1.04	≤20.97	PASS
2DH5		2441	-0.92	≤20.97	PASS
		2480	-0.72	≤20.97	PASS
3DH5	Ant0	2402	-0.78	≤20.97	PASS
		2441	-0.66	≤20.97	PASS
		2480	-0.46	≤20.97	PASS



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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 46 of 98

# **Carrier frequency separation Test Result**

Te	stMode	Antenna	Hop/No-Hop	Result[MHz]	Limit[MHz]	Verdict
	DH5	Ant1	Нор	1.008	≥0.626	PASS
2	2DH5	Ant1	Нор	0.996	≥0.890	PASS
3	BDH5	Ant1	Нор	1.006	≥0.892	PASS



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Rev.: 01

Page: 47 of 98

#### **Test Graphs**





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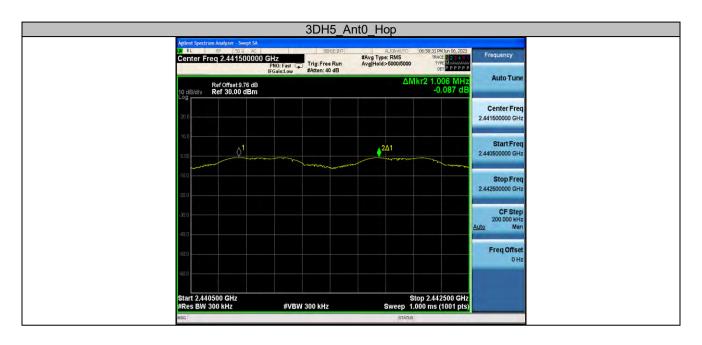
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Rev.: 01

Page: 48 of 98





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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 49 of 98

#### Time of occupancy Test Result

TestMode	Antenna	Hop/No- Hop	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant0	Нор	2.870	90	0.258	≤0.4	PASS
2DH5	Ant0	Нор	2.877	130	0.374	≤0.4	PASS
3DH5	Ant0	Нор	2.879	110	0.317	≤0.4	PASS



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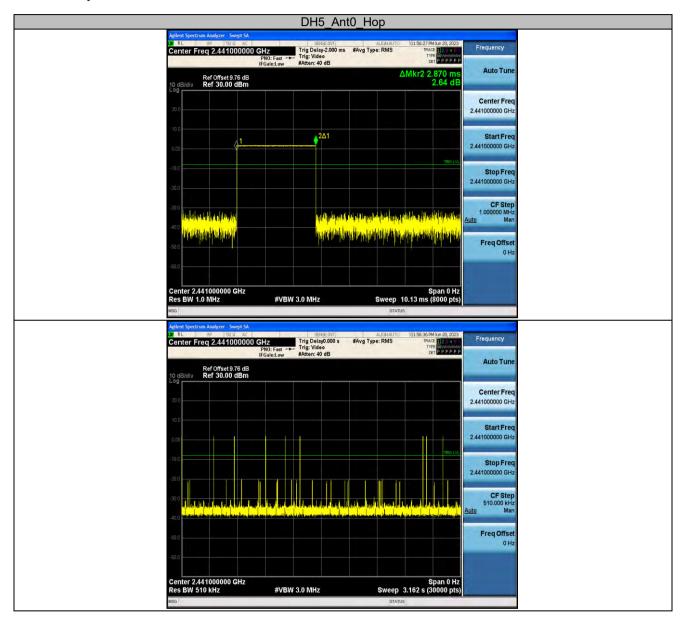


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Rev.: 01

Page: 50 of 98

#### **Test Graphs**





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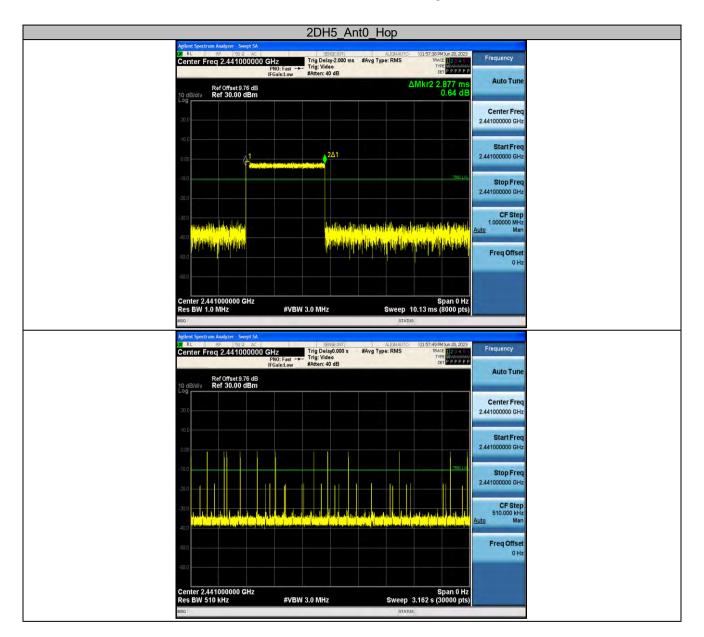
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 51 of 98





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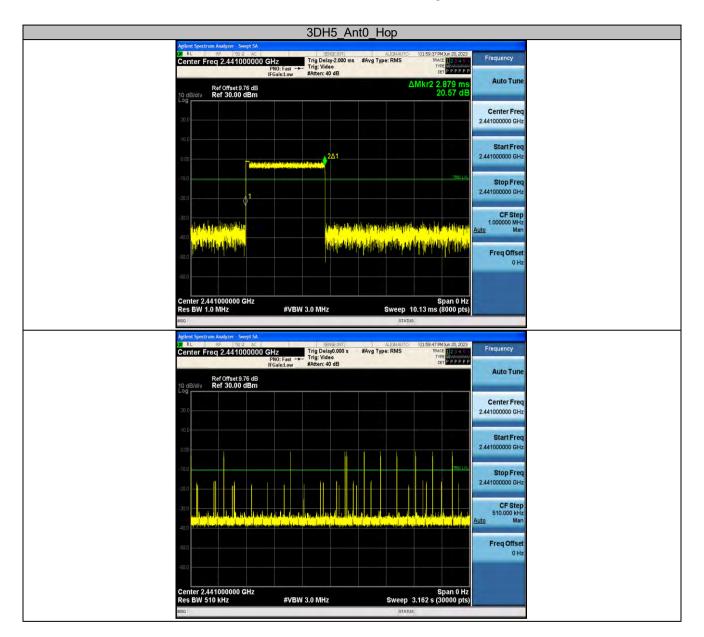
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 52 of 98





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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 53 of 98

#### Number of hopping channels Test Result

TestMode	Antenna	Hop/No-Hop	Result[Num]	Limit[Num]	Verdict
DH5	Ant0	Нор	79	≥15	PASS
2DH5	Ant0	Нор	79	≥15	PASS
3DH5	Ant0	Нор	79	≥15	PASS



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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 54 of 98

#### **Test Graphs**





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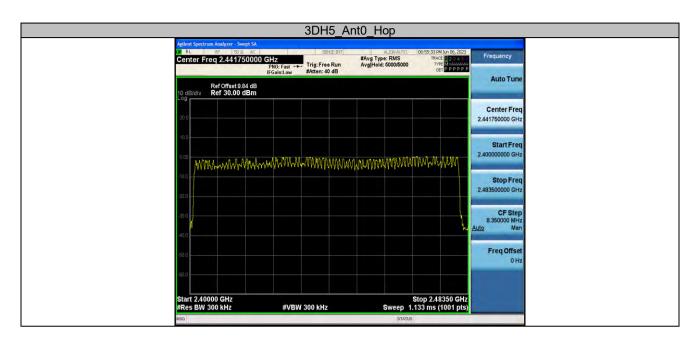
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 55 of 98





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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 56 of 98

#### Band edge measurements Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict	
		Low	2402	0.83	-44.64	≤-19.17	PASS	
DH5	Ant0	High	2480	2.46	-49.41	≤-17.54	PASS	
рпэ	Anto	Low	Hop_2402	-0.59	-49.93	≤-20.59	PASS	
		High	Hop_2480	2.73	-49.09	≤-17.27	PASS	
	Ant0	Low	2402	-3.43	-49.48	≤-23.43	PASS	
2DH5		High	2480	-0.19	-49.26	≤-20.19	PASS	
ZDHS		Low	Hop_2402	-8.43	-50	≤-28.43	PASS	
		High	Hop_2480	-5.17	-49.19	≤-25.17	PASS	
	Ant0		Low	2402	-6.68	-48.16	≤-26.68	PASS
3DH5		High	2480	-0.44	-49.96	≤-20.44	PASS	
		Low	Hop_2402	-3.21	-50.21	≤-23.21	PASS	
		High	Hop_2480	-5.22	-49.44	≤-25.22	PASS	



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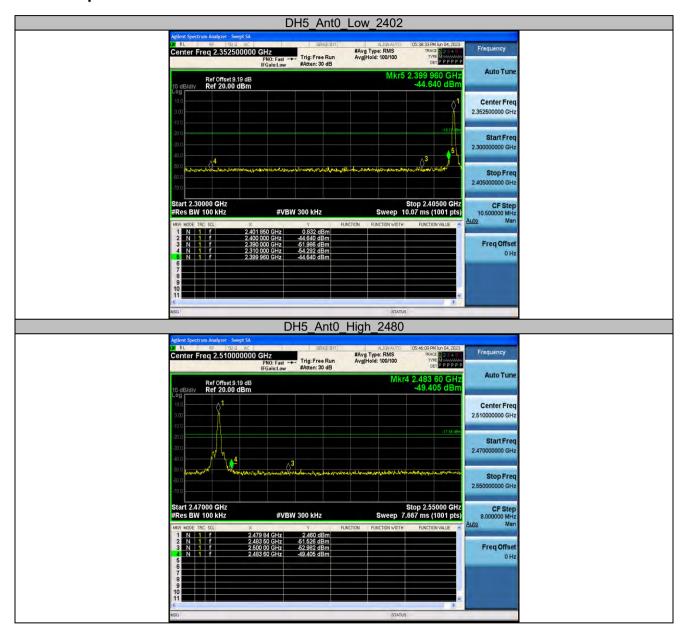


Report No.: XEWA2305000017RG01

Rev.: 01

Page: 57 of 98

#### **Test Graphs**





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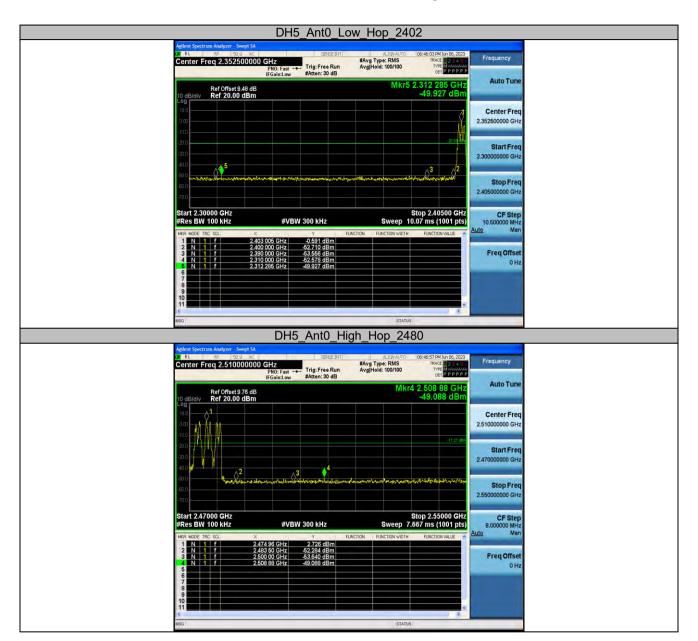
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 58 of 98





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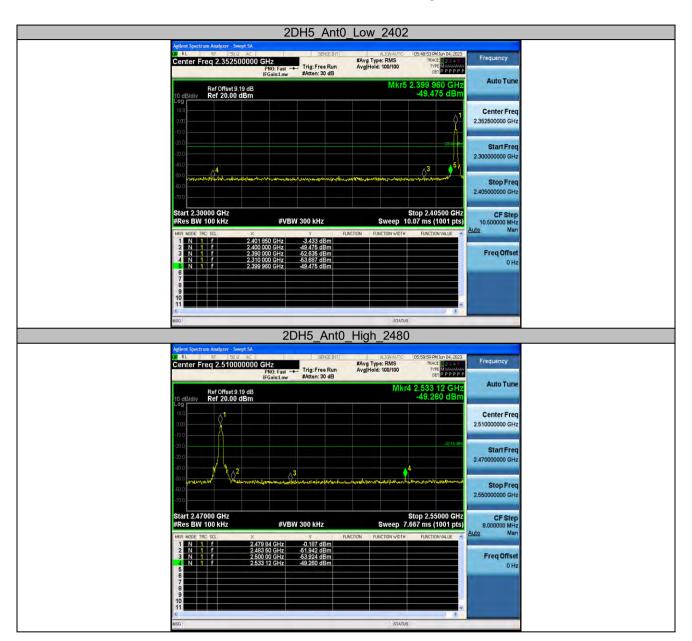
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Rev.: 01

Page: 59 of 98





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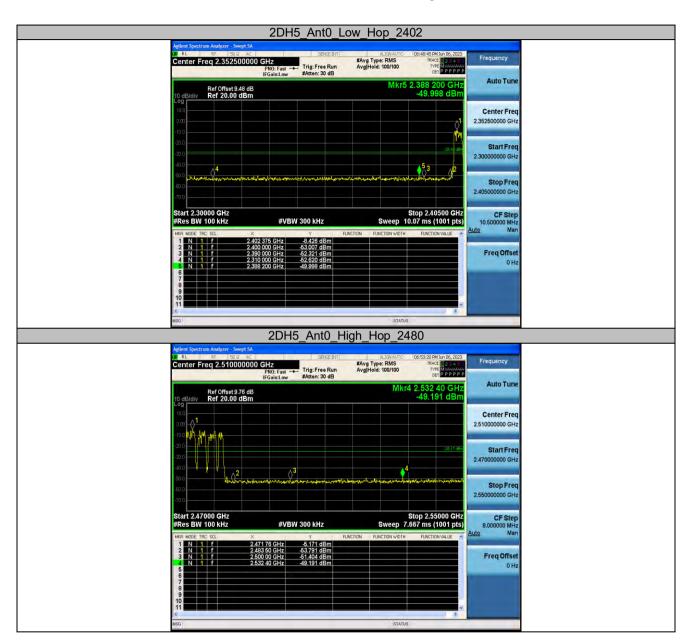
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 60 of 98





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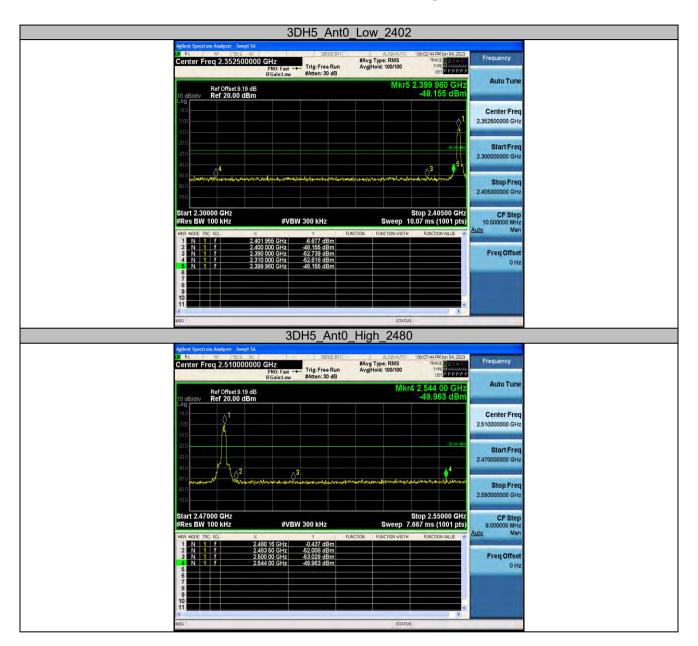
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 61 of 98





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Rev.: 01

Page: 62 of 98





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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 63 of 98

#### **Conducted Spurious Emission** Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict	
			Reference	0.04	0.04		PASS	
		2402	30~1000	0.04	-60.19	≤-19.96	PASS	
			1000~26500	0.04	-45.53	≤-19.96	PASS	
			Reference	1.19	1.19		PASS	
DH5	Ant0	2441	30~1000	1.19	-60.1	≤-18.81	PASS	
			1000~26500	1.19	-45.66	≤-18.81	PASS	
			Reference	1.80	1.80		PASS	
		2480	30~1000	1.80	-59.38	≤-18.2	PASS	
			1000~26500	1.80	-45.51	≤-18.2	PASS	
		2402	Reference	-7.49	-7.49		PASS	
			30~1000	-7.49	-59.96	≤-27.49	PASS	
	Ant0		1000~26500	-7.49	-43.04	≤-27.49	PASS	
		2441 2480	Reference	-6.96	-6.96		PASS	
2DH5			30~1000	-6.96	-60.21	≤-26.96	PASS	
			1000~26500	-6.96	-44.82	≤-26.96	PASS	
			Reference	-1.48	-1.48		PASS	
			30~1000	-1.48	-59.98	≤-21.48	PASS	
			1000~26500	-1.48	-43.39	≤-21.48	PASS	
				Reference	-7.03	-7.03		PASS
		2402	30~1000	-7.03	-60.67	≤-27.03	PASS	
			1000~26500	-7.03	-42.98	≤-27.03	PASS	
3DH5			Reference	-6.10	-6.10		PASS	
	Ant0	2441	30~1000	-6.10	-60.66	≤-26.1	PASS	
			1000~26500	-6.10	-44.26	≤-26.1	PASS	
			Reference	-5.46	-5.46		PASS	
		2480	30~1000	-5.46	-60.52	≤-25.46	PASS	
			1000~26500	-5.46	-38.98	≤-25.46	PASS	



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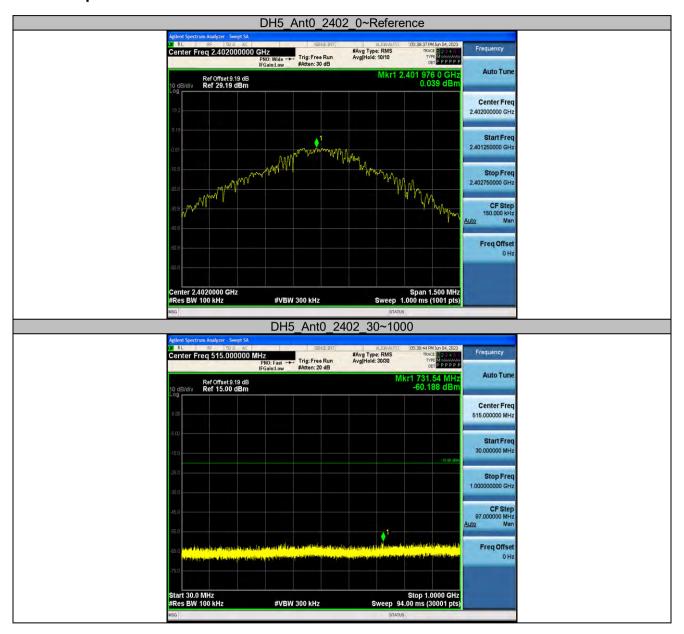


Report No.: XEWA2305000017RG01

Rev.: 01

Page: 64 of 98

#### **Test Graphs**





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Rev.: 01

Page: 65 of 98





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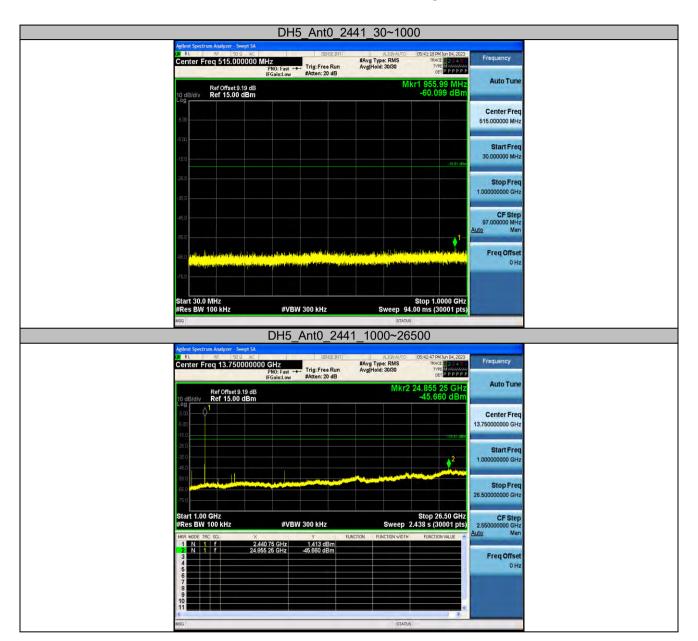
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 66 of 98





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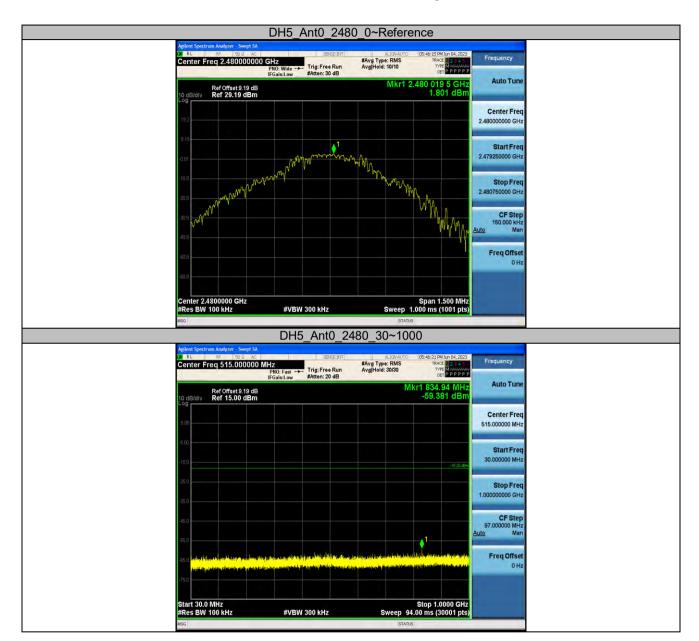
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 67 of 98





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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 68 of 98





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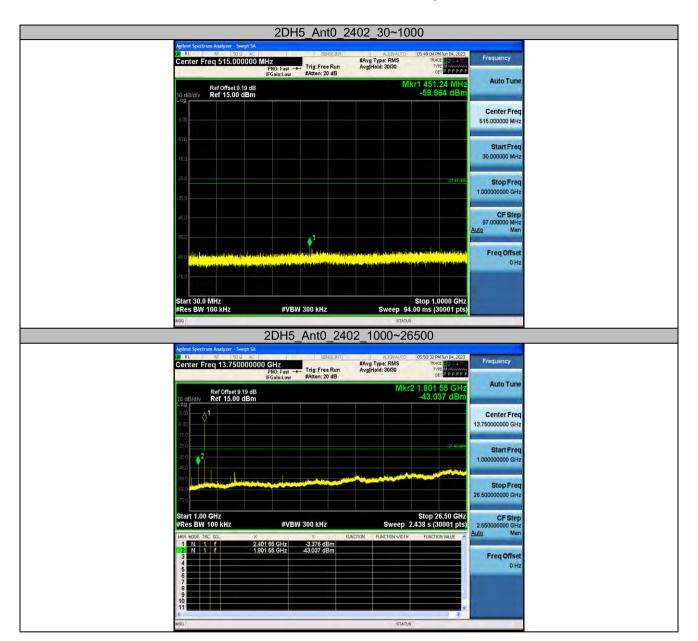
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 69 of 98





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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 70 of 98





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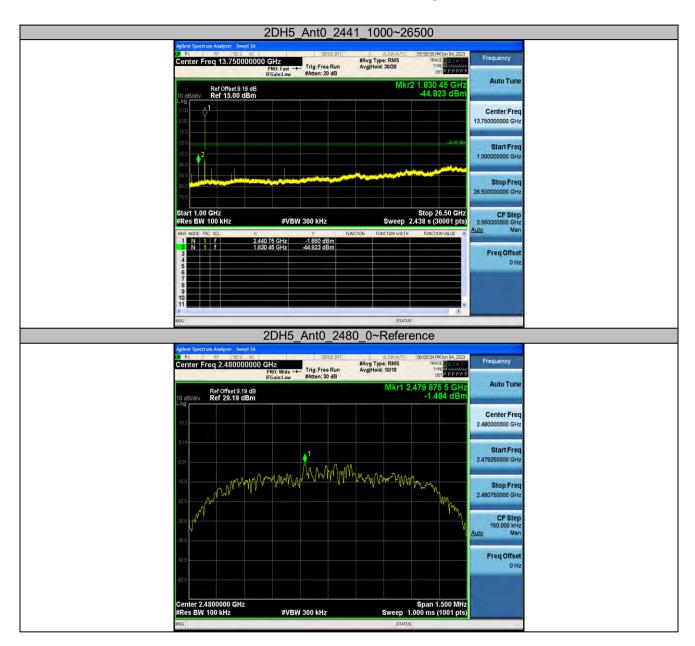
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 71 of 98





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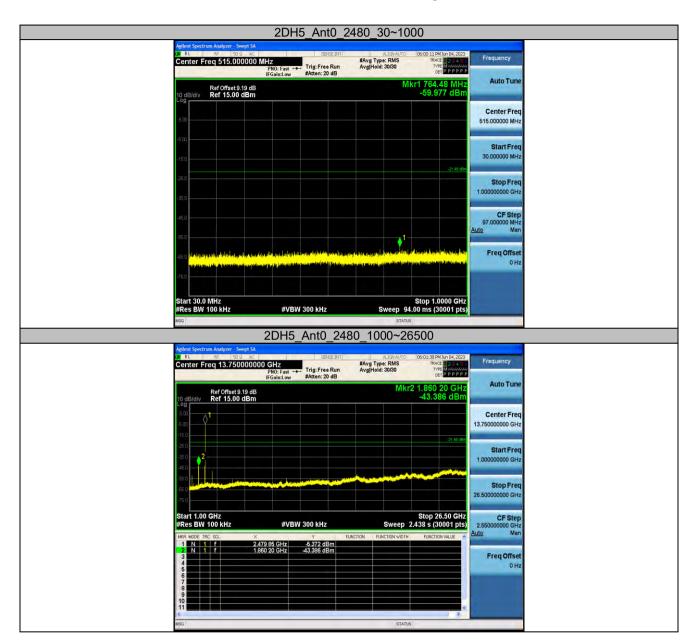
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 72 of 98





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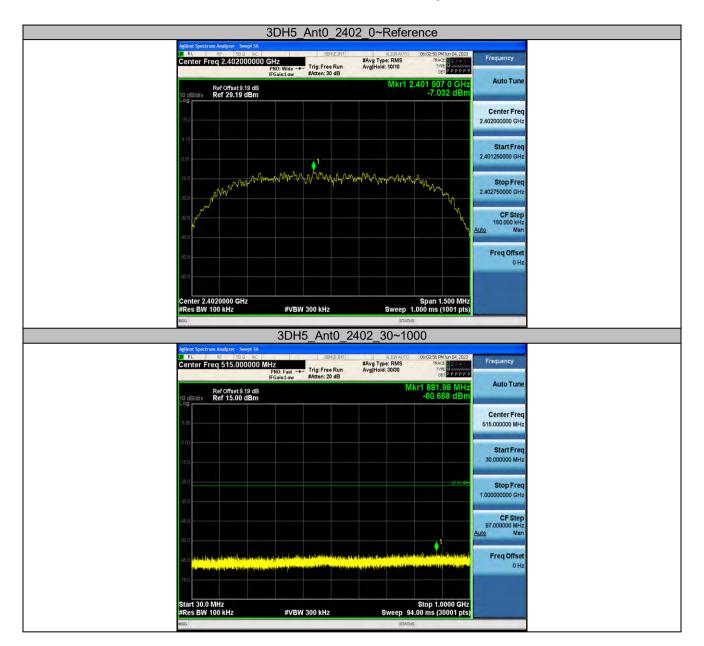
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 73 of 98





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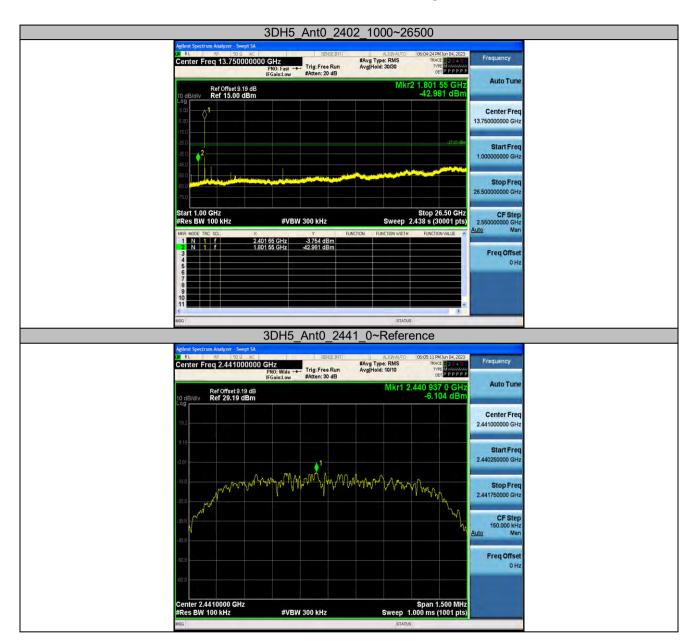
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 74 of 98





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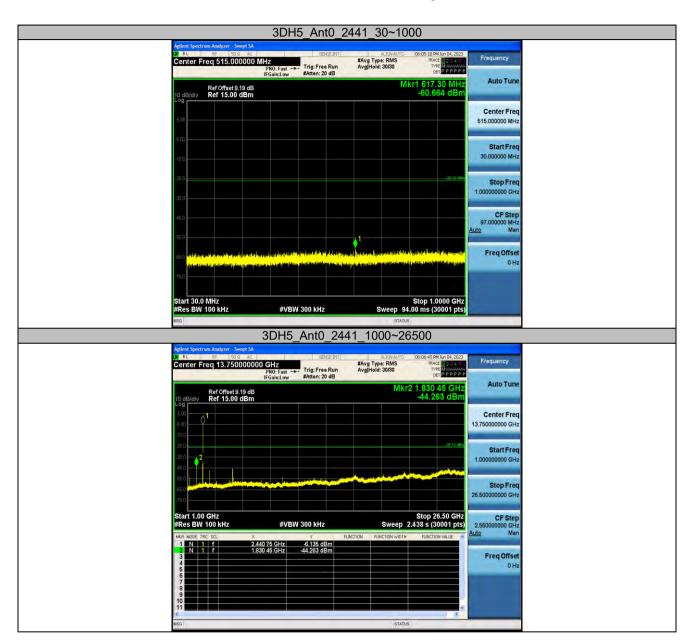
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 75 of 98





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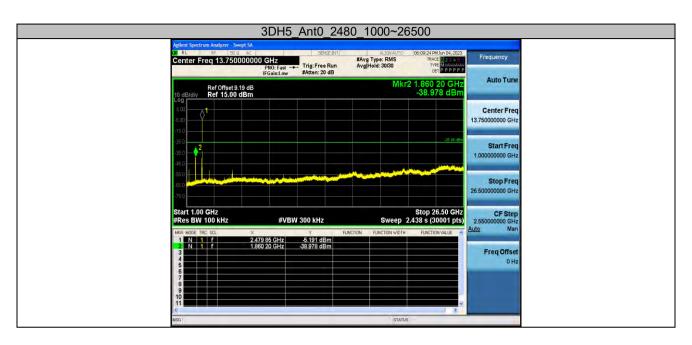
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 78 of 98

#### **Duty Cycle** Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
		2402	2.88	3.75	76.80	1.15
DH5	Ant0	2441	2.87	3.75	76.53	1.16
		2480	2.87	3.75	76.53	1.16
		2402	2.88	3.75	76.80	1.15
2DH5	Ant0	2441	2.89	3.76	76.86	1.14
		2480	2.88	3.75	76.80	1.15
		2402	2.88	3.75	76.80	1.15
3DH5	Ant0	2441	2.87	3.75	76.53	1.16
		2480	2.89	3.75	77.07	1.13



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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 79 of 98

#### **Test Graphs**





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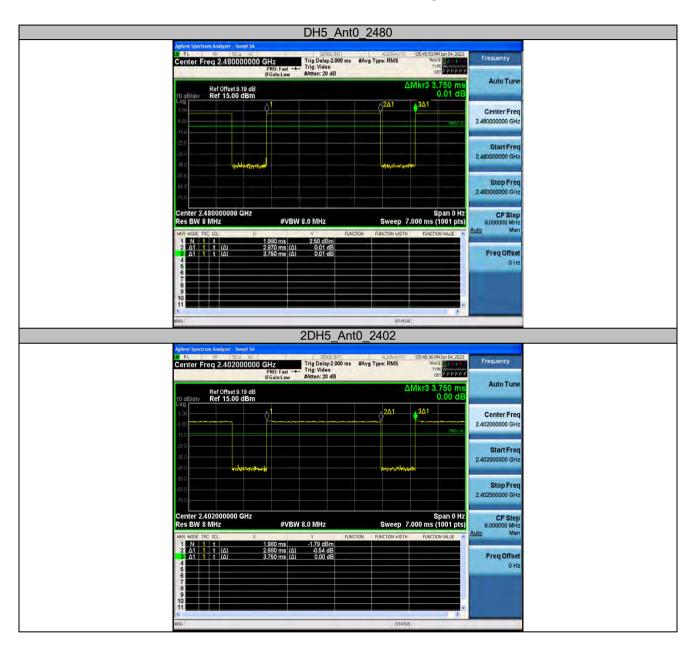
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Rev.: 01

Page: 80 of 98





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Rev.: 01

Page: 81 of 98





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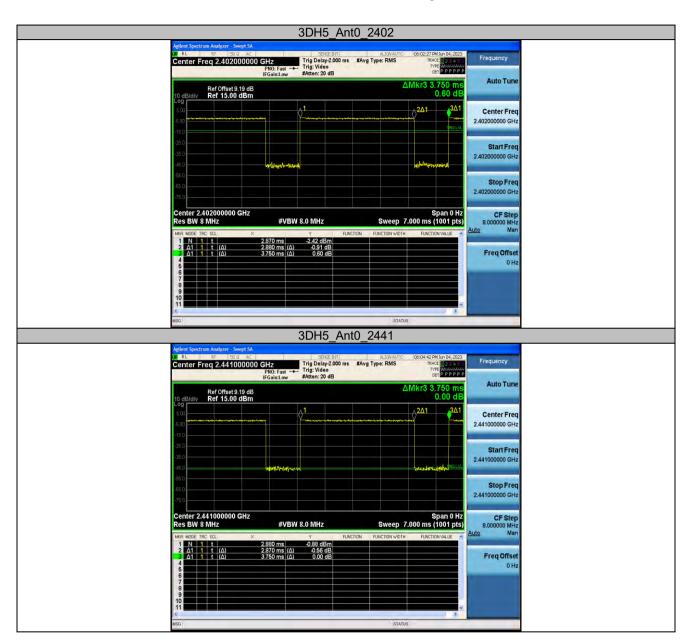
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Rev.: 01

Page: 82 of 98





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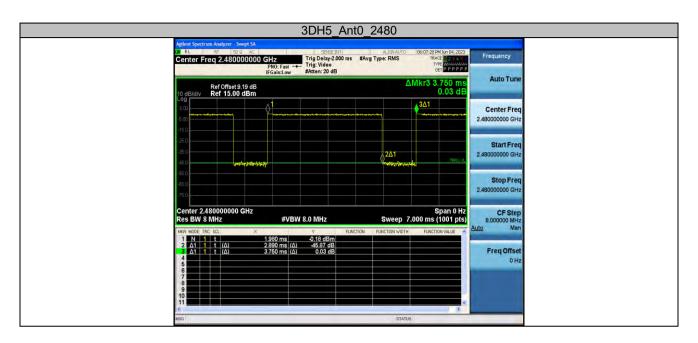
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 83 of 98





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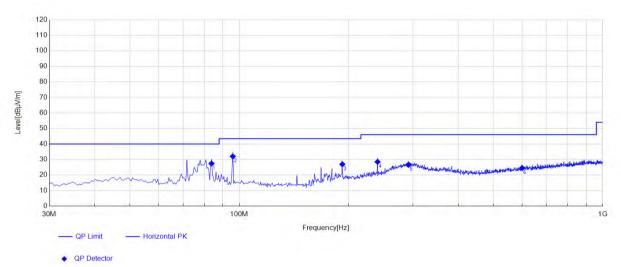
Report No.: XEWA2305000017RG01

Rev.: 01

Page: 84 of 98

# Radiated Spurious Emissions Radiated emission below 1GHz

Worst case Mode: GFSK\_Channel 0



Data L	Data List												
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	83.8619	8.34	-27.38	46.49	27.45	40.00	12.55	197	322	Horizontal			
2	95.993	10.80	-27.32	48.54	32.02	43.50	11.48	157	326	Horizontal			
3	192.071	10.47	-26.62	43.08	26.93	43.50	16.57	282	301	Horizontal			
4	240.1101	12.50	-26.29	42.31	28.52	46.00	17.48	115	352	Horizontal			
5	292.031	13.22	-25.71	39.02	26.53	46.00	19.47	236	276	Horizontal			
6	599.6748	19.03	-24.87	30.36	24.52	46.00	21.48	221	124	Horizontal			



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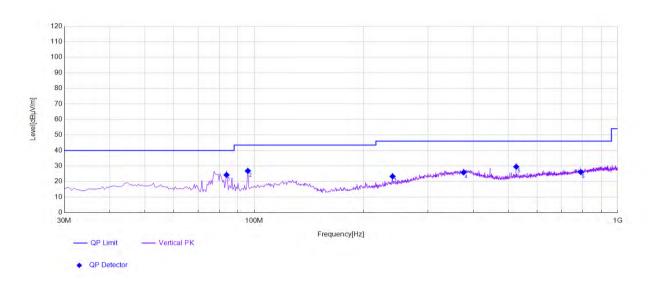
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Report No.: XEWA2305000017RG01

Rev.: 01

Page: 85 of 98



Data L	Data List												
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading [dBµV]	QP Value [dBμV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	83.8619	8.34	-27.38	43.3	24.26	40.00	15.74	398	209	Vertical			
2	95.993	10.80	-27.32	43.37	26.85	43.50	16.65	217	254	Vertical			
3	240.1101	12.50	-26.29	37.1	23.31	46.00	22.69	222	257	Vertical			
4	376.4632	14.96	-25.60	36.48	25.84	46.00	20.16	205	173	Vertical			
5	525.4327	17.51	-24.85	36.87	29.53	46.00	16.47	334	166	Vertical			
6	791.3457	20.57	-23.97	29.47	26.07	46.00	19.93	216	179	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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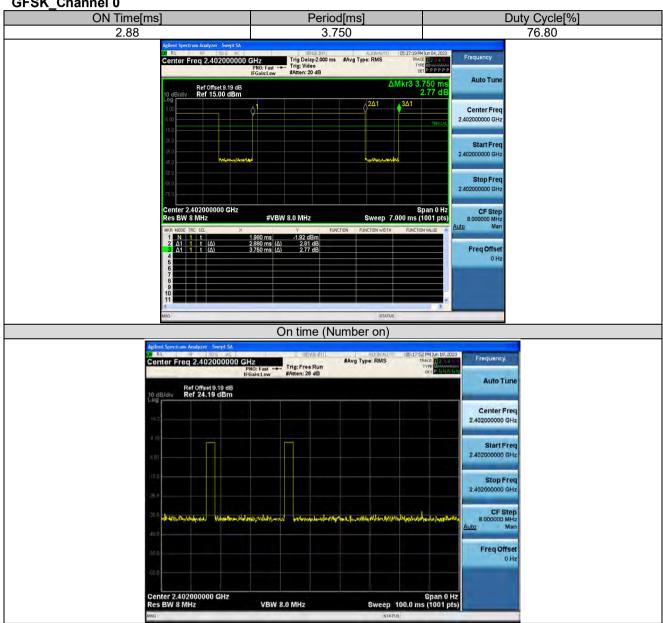
Report No.: XEWA2305000017RG01

Rev.: 01

Page: 86 of 98

#### **Transmitter emission Above 1GHz Duty cycle**

**GFSK\_Channel 0** 



Note:

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



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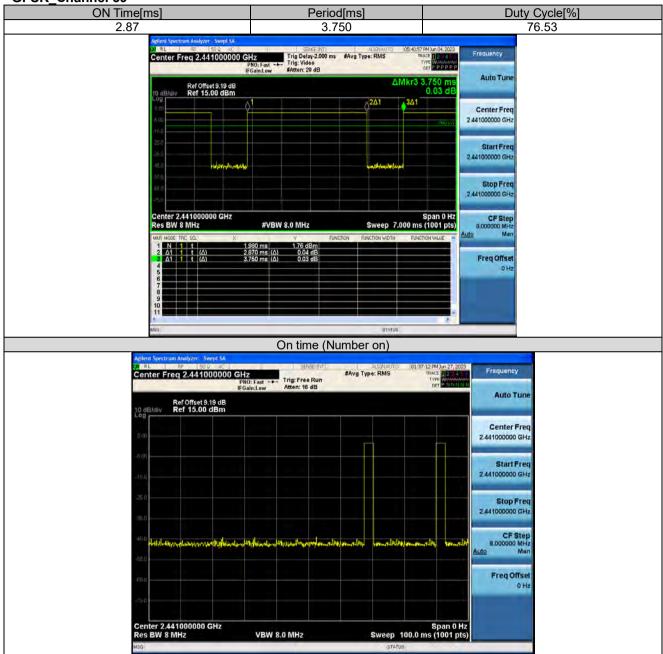


Report No.: XEWA2305000017RG01

Rev.: 01

Page: 87 of 98

#### **GFSK\_Channel 39**



Note:

Duty cycle = on time / 100ms = 2 \* 2.87 / 100 = 5.74%Duty cycle Correction factor = 20\*log(Duty cycle) = -24.82dB



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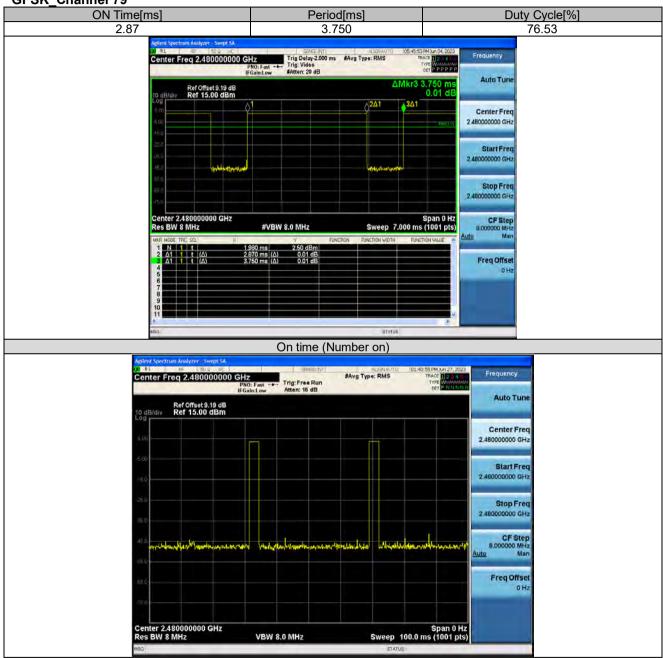


Report No.: XEWA2305000017RG01

Rev.: 01

Page: 88 of 98

#### **GFSK\_Channel 79**



Note:

Duty cycle = on time / 100ms = 2 \* 2.87 / 100 = 5.74%Duty cycle Correction factor = 20\*log(Duty cycle) = -24.82dB



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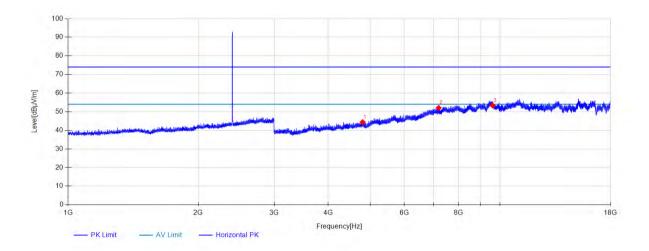


Report No.: XEWA2305000017RG01

Rev.: 01

Page: 89 of 98

#### **GFSK\_Channel 0**



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	56.55	30.78	-42.95	44.38	74.00	29.62	156	26	Horizontal		
2	4804	-	-		19.59	54.00	34.41	-	-			
3	7206	54.20	36.56	-38.71	52.05	74.00	21.95	171	121	Horizontal		
4	7206	-	-	-	27.26	54.00	26.74	-	-	-		
5	9608	51.17	37.85	-35.70	53.32	74.00	20.68	106	112	Horizontal		
6	9608	-	-	-	28.53	54.00	25.47	-	-	-		



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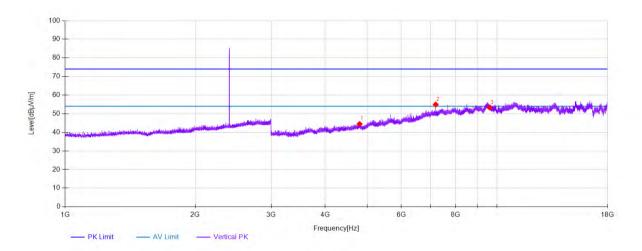


Report No.: XEWA2305000017RG01

Rev.: 01

Page: 90 of 98

#### **GFSK\_Channel 0**



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	56.66	30.78	-42.95	44.49	74.00	29.51	326	62	Vertical		
2	4804	-	-	-	19.7	54.00	34.3	-	-	-		
3	7206	57.09	36.56	-38.71	54.94	74.00	19.06	367	302	Vertical		
4	7206	-	-	-	30.15	54.00	23.85	-	-	-		
5	9608	51.13	37.85	-35.70	53.28	74.00	20.72	310	0	Vertical		
6	9608	-	-	-	28.49	54.00	25.51	-	-	-		



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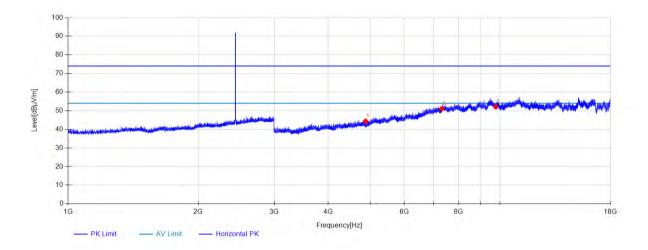


Report No.: XEWA2305000017RG01

Rev.: 01

Page: 91 of 98

#### **GFSK\_Channel 39**



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	4882	56.43	30.79	-42.89	44.33	74.00	29.67	136	68	Horizontal		
2	4882	•	-	1	19.51	54.00	34.49	-	-	-		
3	7323	53.35	36.45	-38.74	51.06	74.00	22.94	182	306	Horizontal		
4	7323	-	-	-	26.24	54.00	27.16	-	-	-		
5	9764	49.81	38.36	-35.95	52.22	74.00	21.78	132	11	Horizontal		
6	9764	-	-	-	27.40	54.00	26.60	-	-	-		



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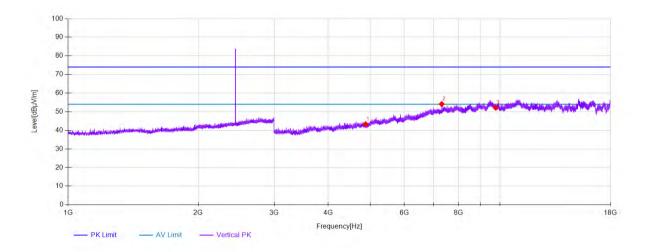


Report No.: XEWA2305000017RG01

Rev.: 01

Page: 92 of 98

#### **GFSK\_Channel 39**



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	4882	55.41	30.79	-42.89	43.31	74.00	30.69	310	11	Vertical		
2	4882	-	-	-	18.49	54.00	35.51	-	-	-		
3	7323	56.41	36.45	-38.74	54.12	74.00	19.88	263	317	Vertical		
4	7323	-	-	-	29.30	54.00	24.70	-	-	-		
5	9764	49.74	38.36	-35.95	52.15	74.00	21.85	226	269	Vertical		
6	9764	-	-	-	27.33	54.00	26.67	-	-	-		



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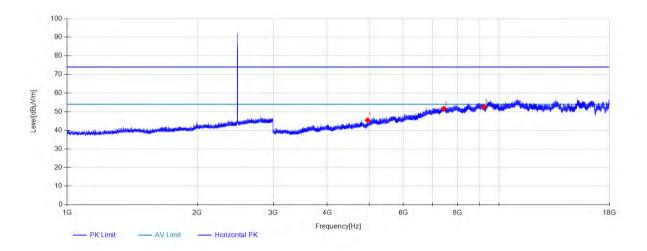


Report No.: XEWA2305000017RG01

Rev.: 01

Page: 93 of 98

#### **GFSK\_Channel 78**



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	57.13	31.04	-42.78	45.39	74.00	28.61	163	58	Horizontal
2	4960	-	-	-	20.57	54.00	33.43	-	-	-
3	7440	53.08	36.78	-38.28	51.58	74.00	22.42	221	20	Horizontal
4	7440	-	-	-	26.76	54.00	27.24	-	-	-
5	9220	51.09	37.50	-36.04	52.55	74.00	21.45	203	296	Horizontal
6	9220	-	-	1	27.73	54.00	26.27	1	-	-



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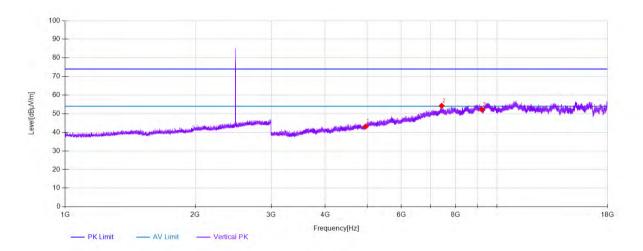


Report No.: XEWA2305000017RG01

Rev.: 01

Page: 94 of 98

#### **GFSK\_Channel 78**



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	54.88	31.04	-42.78	43.14	74.00	30.86	326	230	Vertical
2	4960	-	-	-	18.32	54.00	35.68	-	-	-
3	7440	55.76	36.78	-38.28	54.26	74.00	19.74	210	220	Vertical
4	7440	-	-	-	29.44	54.00	24.56	-	-	-
5	9220	50.76	37.50	-36.04	52.22	74.00	21.78	233	182	Vertical
6	9220	-	-	-	27.40	54.00	26.60	-	-	-

#### Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

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



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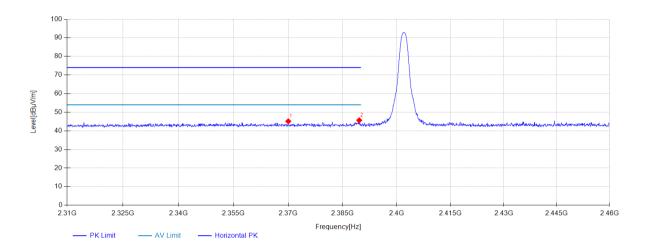


Report No.: XEWA2305000017RG01

Rev.: 01

Page: 95 of 98

# Restricted bands around fundamental frequency GFSK\_Channel 0



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2370.03	40.67	27.52	-23.05	45.14	74.00	28.86	351	53	Horizontal		
2	2370.03	-	-	-	20.35	54.00	33.65	-	-	-		
3	2389.6148	41.26	27.44	-23.02	45.68	74.00	28.32	351	53	Horizontal		
4	2389.6148	-	-	-	20.89	54.00	33.11	-	-	-		



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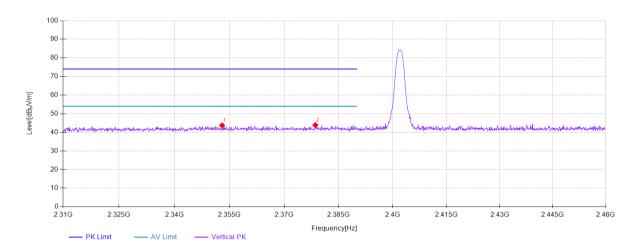


Report No.: XEWA2305000017RG01

Rev.: 01

Page: 96 of 98

#### **GFSK\_Channel 0**



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	2352.9965	39.24	27.59	-23.08	43.75	74.00	30.25	362	323	Vertical
2	2352.9965	-	-	-	18.96	54.00	35.04	-	-	-
3	2378.5843	39.45	27.49	-23.03	43.91	74.00	30.09	362	323	Vertical
4	2378.5843	-	-	-	19.12	54.00	34.88	-	-	-



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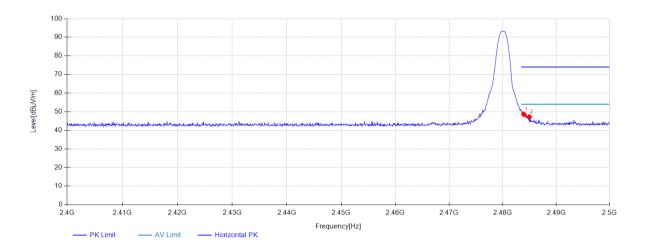


Report No.: XEWA2305000017RG01

Rev.: 01

Page: 97 of 98

#### **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	2483.942	43.99	27.74	-23.12	48.61	74.00	25.39	163	45	Horizontal		
2	2483.942	-	-	-	23.79	54.00	30.21	-	-	-		
3	2484.9425	42.57	27.74	-23.12	47.19	74.00	26.81	163	45	Horizontal		
4	2484.9425	-	-	-	22.37	54.00	31.63	-	-	-		



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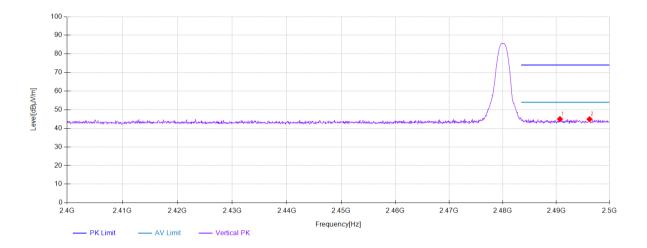


Report No.: XEWA2305000017RG01

Rev.: 01

Page: 98 of 98

#### **GFSK\_Channel 78**



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	2490.6953	40.36	27.76	-23.13	44.99	74.00	29.01	384	186	Vertical
2	2490.6953	-	-	-	20.17	54.00	33.83	-	-	-
3	2496.2481	40.26	27.78	-23.13	44.91	74.00	29.09	384	186	Vertical
4	2496.2481	-	-	ı	20.09	54.00	33.91	-	-	-

#### Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

---End of Report---



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