Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 1 of 96

TEST REPORT

Application No.:	SEWA2301000005RG
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.:	AF51Y
Trade Mark:	Quectel
FCC ID:	XMR202303AF51Y
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C
Date of Receipt:	2023/01/09
Date of Test:	2023/01/09 to 2023/02/23
Date of Issue:	2023/02/23
Test Result :	PASS *

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

Authorized Signature:

Sun Da.

Panta Sun Wireless Laboratory Manager



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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 2 of 96

1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2023/02/23		Original

Prepared By	(Tizzy Song) / Test Engineer
Checked By	(Well Wei) / Reviewer



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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 3 of 96

2 Test Summary

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			_	_
Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2013) Section 6.2	Clause 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013) Section 11.9.2.3	Clause 4.4	PASS
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013) Section 6.9.2/6.9.3	Clause 4.5	Reporting only
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.2	Clause 4.6	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.3	Clause 4.7	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.4	Clause 4.8	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.2	Clause 4.9	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.1	Clause 4.10	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013) Section 6.4 / 6.5 / 6.6	Clause 4.11	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013) Section 7.8.8.3	Clause 4.12	PASS



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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 4 of 96

Contents

1	Versio	n	2
2	Test S	ummary	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 Hop	ping
	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 Separationy	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	rement Uncertainty (95% confidence levels, k=2)	28
6	Equipr	nent List	29
7	Photog	graphs - Setup Photos	32



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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 5 of 96

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 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		

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, 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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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 6 of 96

3.4 General Description of EUT

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EUT Description:	Wi-Fi & Bluetooth Module			
Model No.:	AF51Y			
Trade Mark:	Quectel			
Hardware Version:	R1.0			
Software Version:	NA			
SN:	RF Conducted	D1A22KI1A000024		
SIN.	RSE & AC power line	D1A22KI19000040		
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 V2.0			
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)			
Modulation Type:	GFSK, π/4DQPSK, 8DPSK			
Number of Channel:	79			
Hopping Channel Type:	Adaptive Frequency Hopping systems			
Antenna Type:	External Antenna			
	3.44dBi(Ant0)			
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
RF Cable:	1.0dB	1.0dB		
Remark:	Remark:			
As above information is pro		ne applicant. SGS is not liable to the accuracy,		

suitability, reliability or/and integrity of the information.



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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 7 of 96

	Page. 70190						
	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		
Domonic							

Remark:

S

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH39)	2441MHz
The Highest channel(CH78)	2480MHz



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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 8 of 96

3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests		
Relative Humidity	44-46 % RH Ambient		
Value	Temperature(°C) Voltage(V)		
NTNV	22~23 3.8		
Remark: NV: Normal Voltage NT: Normal Temperature			

3.6 Description of Support Units

Description	Manufacturer	Model No.		
Motherboard	Quectel	NA		
Remark: all above the information of table are provided by client.				



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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 9 of 96

4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(b)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is External Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.44dBi(Ant0)*

*Note:

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

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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 10 of 96

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.

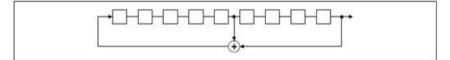
> Number of shift register stages: 9

> 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

Each frequency used equally on the average by each transmitter.



Report No.: SEWA2301000005RG01 Rev.: 01 Page: 11 of 96

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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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 12 of 96

4.3 AC Power Line Conducted Emissions

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Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2013 Sec	tion 6.2				
Test Frequency Range:	150kHz to 30MHz					
Receiver Setup:	RBW = 9kHz, $VBW = 30kHz$					
Limit:		Limit (d	BuV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the log	arithm of the frequency.				
Test Procedure:	 room. 2) The EUT was connect Impedance Stabilizat impedance. The pow connected to a secon plane in the same way multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plan placed on the horizon 4) The test was perform the EUT shall be 0.4 vertical ground reference reference plane. The unit under test and b mounted on top of th the closest points of and associated equip 5) In order to find the m and all of the interfate 	sturbance voltage test was contend to AC power source throution Network) which provides are cables of all other units of and LISN 2, which was bonded and as the LISN 1 for the unit be the rating of the LISN was not the rating of the LISN was not the rating of the LISN was not splaced upon a non-metallic ne. And for floor-standing arritical ground reference plane. The vertical ground reference plane was bonded to the LISN 1 was placed 0.8 m from onded to a ground reference e ground reference plane. The LISN 1 and the EUT. All coment was at least 0.8 m from aximum emission, the relative ce cables must be changed a on conducted measurement.	igh a LISN 1 (Line a 50Ω/50µH + 5Ω linear the EUT were to the ground reference being measured. A ultiple power cables to a bot exceeded. table 0.8m above the angement, the EUT was rence plane. The rear of deference plane. The e horizontal ground im the boundary of the plane for LISNs is distance was between other units of the EUT in the LISN 2.			



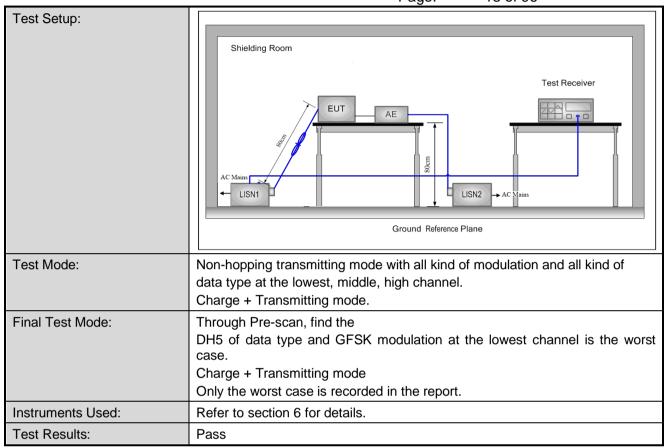
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 13 of 96





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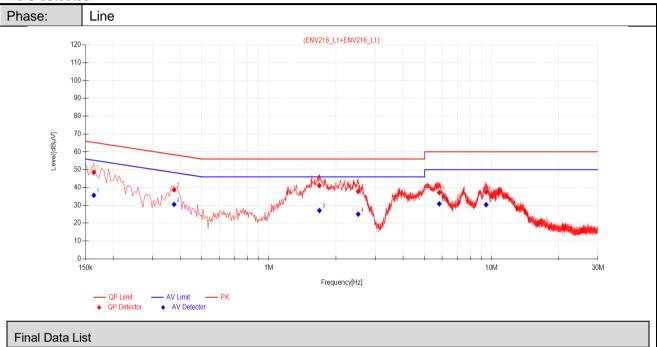
 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 14 of 96

Measurement Data

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



			-	-	-	-	-	-			
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1635	10.69	37.83	48.52	65.28	16.76	24.95	35.64	55.28	19.64	PASS
2	0.3750	10.50	28.21	38.71	58.39	19.68	20.06	30.56	48.39	17.83	PASS
3	1.6845	10.74	30.38	41.12	56.00	14.88	16.37	27.11	46.00	18.89	PASS
4	2.5170	10.66	27.16	37.82	56.00	18.18	14.41	25.07	46.00	20.93	PASS
5	5.8200	10.67	26.54	37.21	60.00	22.79	20.18	30.85	50.00	19.15	PASS
6	9.4515	10.65	26.76	37.41	60.00	22.59	19.72	30.37	50.00	19.63	PASS
Rema	rk:										

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

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

3. Margin = Limit[dBµV] – Value[dBµV]



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hase:	Neut	tral					Faye.	10	0190		
					(ENIV216	6 N+ENV216 N)					
	120				(LINV2II)	J_N+LNV210_N)					
	110-										
	100 - 90 -										
	80 -										
5											
Level[dBµV]	60										_
Level	50										
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	0	i		1M	Fre	quency[Hz]	I	101	M	30	4 DM
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	150k		AV Limit — PI AV Detector		Fre	iquency[Hz]		101	М	30	DM
Final Da	150k QF • QP				Fre	quency[Hz]	_ + +	101	M	30	DM
	150k QF • QF ata List	• Detector	AV Detector	ĸ			AV				
	ata List	Factor	AV Detector	k QP Value	QP Limit	QP Margin	AV Reading	AV Value	AV Limit	AV Margin	
	150k QF • QF ata List	• Detector	AV Detector	QP	QP	QP		AV	AV	AV	
NO. F	ata List	Factor	AV Detector	k QP Value	QP Limit	QP Margin	Reading	AV Value	AV Limit	AV Margin	Verdic
NO. F	ata List Frequency [MHz]	Factor [dB]	AV Detector QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdic
NO. F	ata List Frequency [MHz] 0.1725	Factor [dB] 10.71	AV Detector QP Reading [dBµV] 36.41	QP Value [dBµV] 47.12	QP Limit [dBµV] 64.84	QP Margin [dB] 17.72	Reading [dBµV] 27.93	AV Value [dBµV] 38.64	AV Limit [dBµV] 54.84	AV Margin [dB] 16.20	Verdic PASS PASS PASS
NO. F	isok ata List Frequency [MHz] 0.1725 1.2840	Factor [dB] 10.71 10.78	AV Detector QP Reading [dBµV] 36.41 24.35	QP Value [dBμV] 47.12 35.13	QP Limit [dBµV] 64.84 56.00	QP Margin [dB] 17.72 20.87	Reading [dBµV] 27.93 17.36	AV Value [dBμV] 38.64 28.14	AV Limit [dBµV] 54.84 46.00	AV Margin [dB] 16.20 17.86	Verdic PASS PASS
NO. F 1 2 3 4	150k ata List Frequency [MHz] 0.1725 1.2840 1.6575	Factor [dB] 10.71 10.78 10.77	AV Detector QP Reading [dBµV] 36.41 24.35 29.81	QP Value [dBμV] 47.12 35.13 40.58	QP Limit [dBµV] 64.84 56.00 56.00	QP Margin [dB] 17.72 20.87 15.42	Reading [dBµV] 27.93 17.36 16.56	ΑV Value [dBμV] 38.64 28.14 27.33	AV Limit [dBμV] 54.84 46.00 46.00	AV Margin [dB] 16.20 17.86 18.67	Verdic PASS PASS

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

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

3. Margin = Limit[dBµV] – Value[dBµV]



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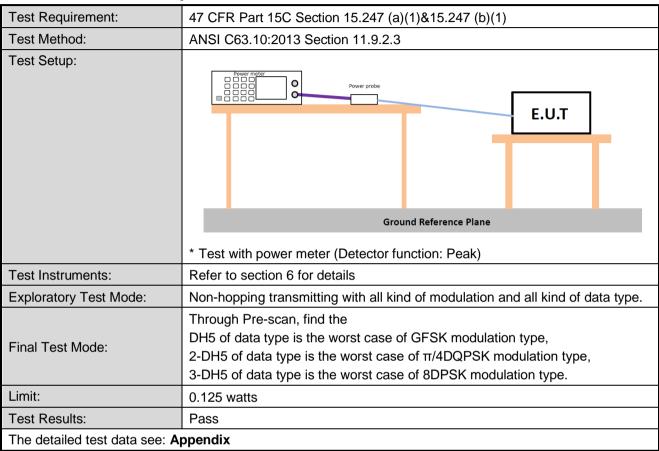
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 16 of 96

4.4 Conducted Output Power





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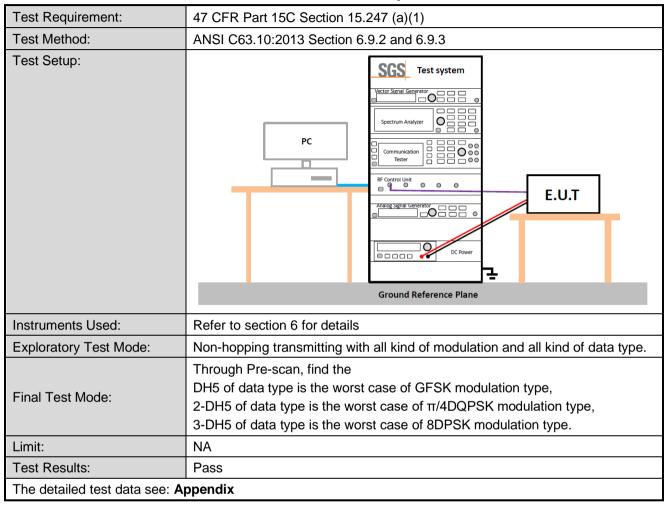
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 17 of 96

4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth





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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 18 of 96

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013 Section 7.8.2				
Test Setup:	PC PC Communication BF Control Unit C Fourier C Fo				
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 $\pi/4DQPSK$ 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				

4.6 Carrier Frequencies Separationy

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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 19 of 96

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 lector Signal Genera 0 PC O Communication Unit 0 0 0 E.U.T Analog Signal Gene 0 DC Pov 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



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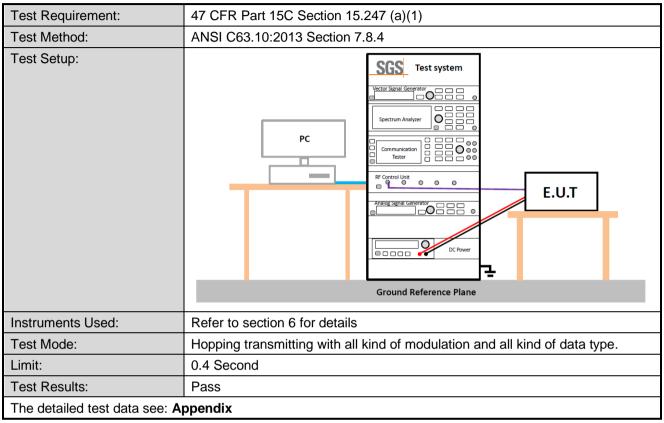
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 Rev.:
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 Page:
 20 of 96

4.8 Dwell Time





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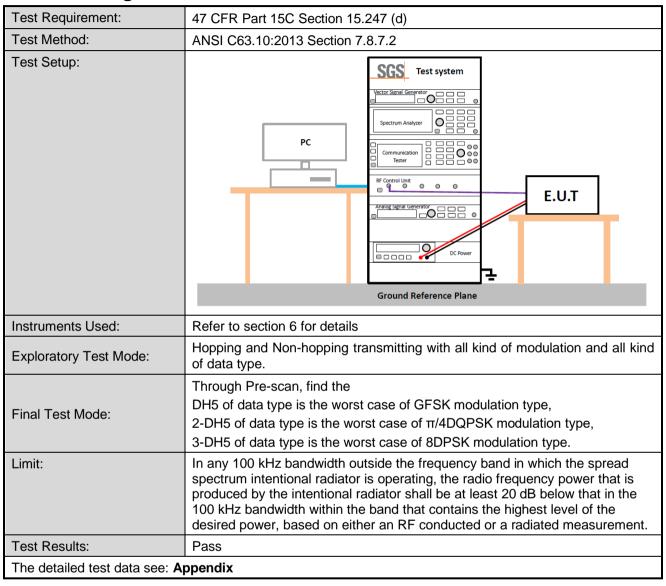
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 Rev.:
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 Page:
 21 of 96

4.9 Band-edge for RF Conducted Emissions





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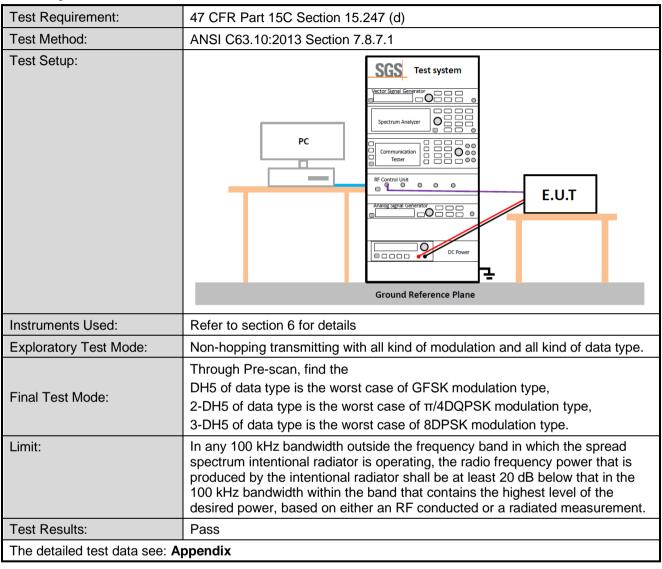
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 Page:
 22 of 96

4.10 Spurious RF Conducted Emissions





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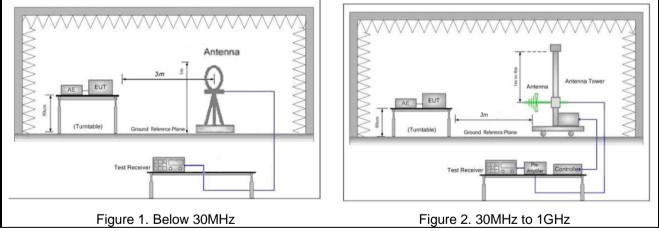
 Page:
 23 of 96

4.11 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 :2013 Section 6.4 / 6.5 / 6.6							
Test Site:	Measurement Distance: 3	m (Semi-Anechoic	Chamber)					
Test Frequency:	9kHz ~ 25GHz							
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)			
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30			
	1.705MHz-30MHz	30	-	-	30			
	30MHz-88MHz 100 40.0 Quasi-peak							
	88MHz-216MHz 150 43.5 Quasi-peak							
	216MHz-960MHz	200	200 46.0		3			
	960MHz-1GHz 500 54.0 Quasi-peak							
	Above 1GHz 500 54.0 Average 3							
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.							

Test Setup:

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	Report No.: SEWA2301000005RG01 Rev.: 01
	Page: 24 of 96
	Im or 3m Im or 3m Im or 3m Imor 3m
	Figure 3. Above 1 GHz
Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	 b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
	 c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	 g. Test the EUT in the lowest channel, the middle channel ,the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
	i. Repeat above procedures until all frequencies measured was complete.
	j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
	k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
	 At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.
Test Configuration:	Measurements below 30MHz • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold
	Measurements 30 ~ 1000MHz



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		Report No.: Rev.: Page:	SEWA2301000005RG01 01 25 of 96
	• RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • 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 \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz Use duty cycle correction factor method per Duty cycle = On time / 100 milliseconds On time = N ₁ *L ₁ + N ₂ *L ₂ +N _{N-1} *L _{N-1} + N _N * Where N ₁ is number of type 1 pulese, L ₁ is Average Value = Peak Value +20*log(Duty	L _N s length of type	1 pulses, etc.
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 repo	mode ne worst case is	
Instruments Used:	Refer to section 6 for details		
Test Results:	Pass		
The detailed test data	a see: Appendix		



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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

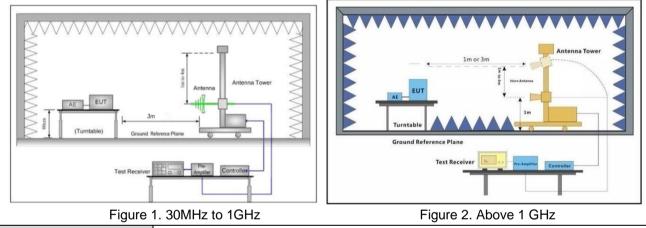
 Page:
 26 of 96

4.12Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013 Section 7.8.8.3						
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Limit:	Frequency	Limit (dBuV/m)	Remark				
	30MHz-88MHz	40.0	Quasi-peak				
	88MHz-216MHz	43.5	Quasi-peak				
	216MHz-960MHz	46.0	Quasi-peak				
	960MHz-1GHz	54.0	Quasi-peak				
	Above 1GHz	54.0	Average Value				
		74.0	Peak Value				

Test Setup:

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rigaro	1. 00		
Test Procedure:	a.	above the ground at a 3 or 10	placed on the top of a rotating table 0.8 meters meter semi-anechoic camber. The table was ine the position of the highest radiation.
	b.	meters above the ground at a	s placed on the top of a rotating table 1.5 3 meter semi-anechoic camber. The table was ine the position of the highest radiation.
	c.		ers away from the interference-receiving on the top of a variable-height antenna tower.
	d.	to determine the maximum va	rom one meter to four meters above the ground ue of the field strength. Both horizontal and tenna are set to make the measurement.
	e.	then the antenna was tuned to	the EUT was arranged to its worst case and heights from 1 meter to 4 meters and the n 0 degrees to 360 degrees to find the
	f.	The test-receiver system was Bandwidth with Maximum Hole	set to Peak Detect Function and Specified d Mode.
			a mante interal la seconda da ta tha terra secit

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



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Report No.: SEWA2301000005RG01

	Rev.: 01
	Page: 27 of 96
	 frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz Use duty cycle correction factor method per 15.35(c). Duty cycle = On time / 100 milliseconds On time = N ₁ *L ₁ + N ₂ *L ₂ +N _{N-1} *L _{N-1} + N _N *L _N Where N ₁ is number of type 1 pulese, L ₁ is length of type 1 pulses, etc. Average Value = Peak Value +20*log(Duty cycle).
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode, Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	e: Appendix
	••



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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 28 of 96

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

No.	Item	Measurement Uncertainty		
1	Total RF power, conducted	±0.54dB		
2	RF power density, conducted	±1.03dB		
3	Spurious emissions, conducted	±0.54dB		
4	Radio Frequency	±1.0 %		
5	Duty Cycle	±0.37%		
6	Occupied Bandwidth	±1.0 %		
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)		
		± 3.13dB (9k -30MHz)		
8	Dedicted Emission	± 4.88dB (30M -1GHz)		
	Radiated Emission	± 4.75dB (1GHz to 18GHz)		
		± 4.77dB (Above 18GHz)		

Remark:

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The U_{Iab} (lab Uncertainty) is less than U_{cispr/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.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 29 of 96

6 Equipment List

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RF Test Equipment							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07		
Temperature and humidity	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15		
meter	9			2023/02/06	2024/02/05		
Signal Analyzer	ROHDE& SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16		
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR		
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27		
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13		
				2023/02/06	2024/02/05		
DC Power	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14		
Supply				2023/02/06	2024/02/05		
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22		
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22		
MXG Vector	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13		
signal genitor				2023/02/06	2024/02/05		
Temperature	ESPEC	SU-242		2022/02/15	2023/02/14		
Chamber			SUWI-01-13-01	2023/02/06	2024/02/05		

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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 30 of 96

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	SUWI-04-03-01	2021/05/08	2024/05/07	
	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18	
Test receiver				2023/02/08	2024/02/07	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15	
				2023/02/07	2024/02/06	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18	
				2023/02/08	2024/02/07	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18	
				2023/02/08	2024/02/07	
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR	



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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 31 of 96

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RSE Test System							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24		
Temperature and humidity meter*	MingGao	TH101B	SUWI-01-01-13	2023/02/07	2024/02/06		
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27		
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22		
Testassium		F0D7		2022/02/19	2023/02/18		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-04	2021/12/05	2023/12/04		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13		
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09		
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2022/11/23	2023/11/22		
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22		
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22		
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR		

*Note: This equipment is not used for testing before 2023/02/07.



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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 32 of 96

7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 33 of 96

Appendix



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 Rev.:
 01

 Page:
 34 of 96

20dB Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
	Ant0	2402	0.94	2401.54	2402.48	
DH5		2441	0.94	2440.54	2441.48	
		2480	0.94	2479.54	2480.48	
2DH5	Ant0	2402	1.29	2401.37	2402.66	Departing
		2441	1.29	2440.37	2441.66	Reporting only
		2480	1.29	2479.37	2480.66	Only
3DH5	Ant0	2402	1.30	2401.36	2402.66	
		2441	1.30	2440.36	2441.66	
		2480	1.30	2479.36	2480.66	



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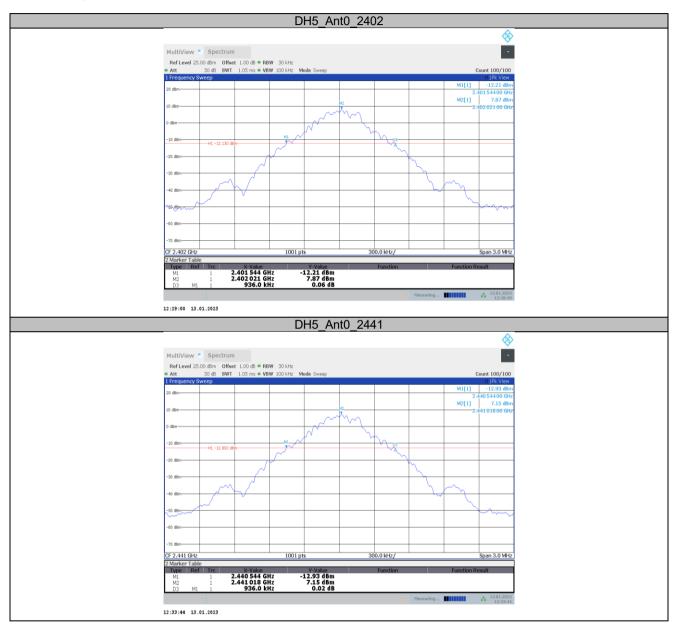
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 Report No.:
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 Rev.:
 01

 Page:
 35 of 96



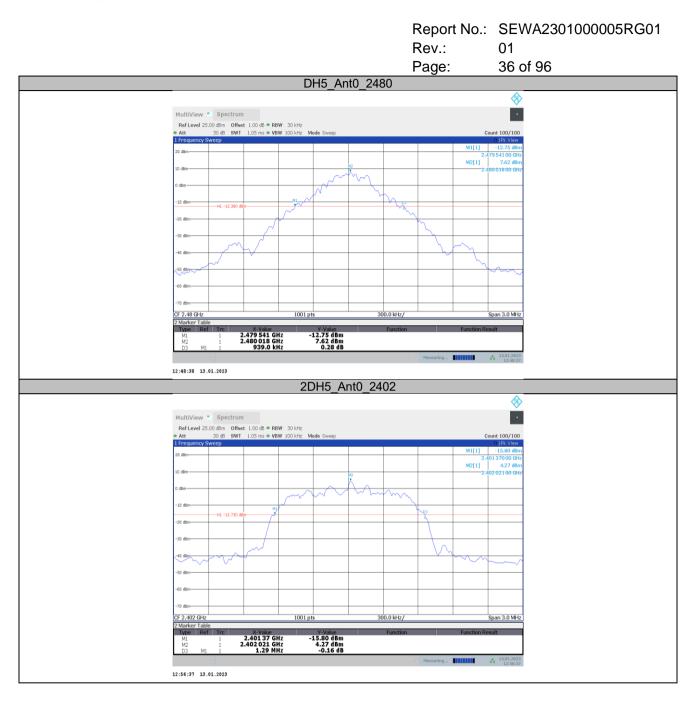
Test Graphs



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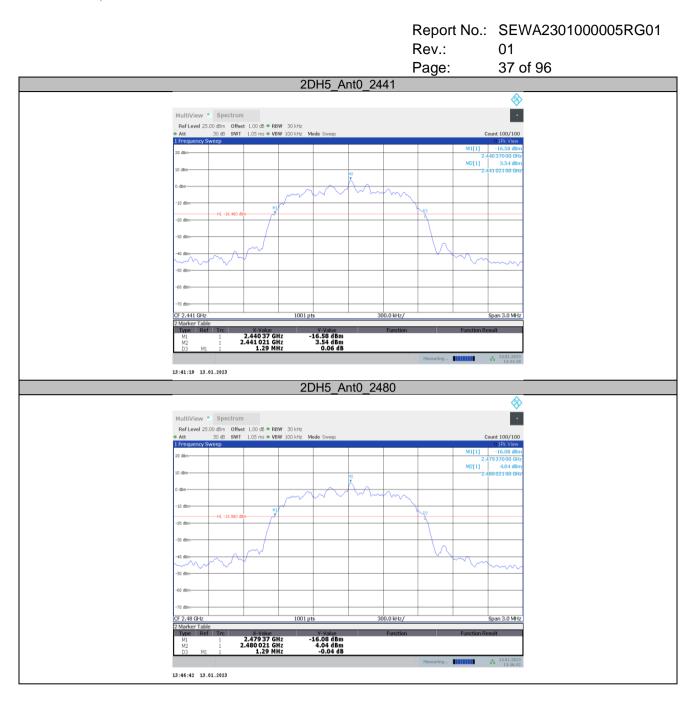
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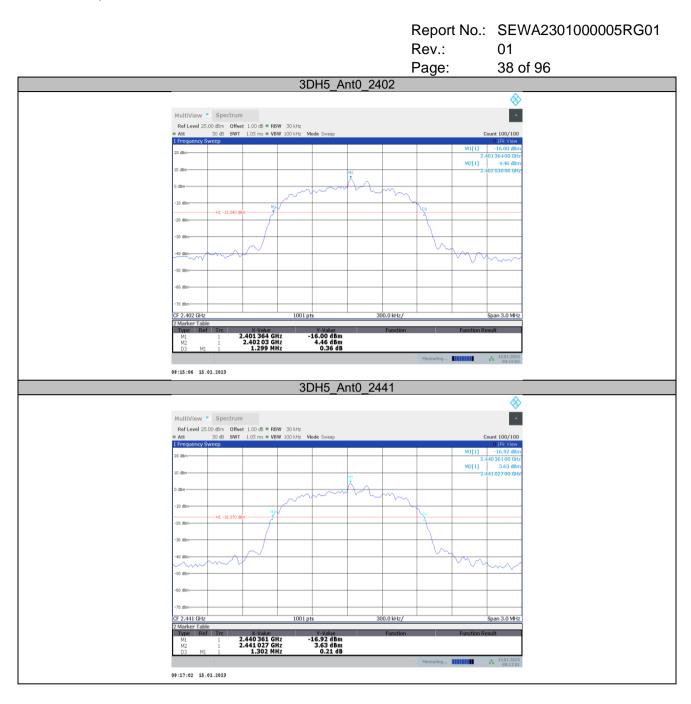
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 40 of 96

Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict		
	Ant0	2402	0.832	2401.584	2402.416			
DH5		2441	0.831	2440.584	2441.415			
		2480	0.833	2479.583	2480.415			
	Ant0	2402	1.177	2401.413	2402.590	Reporting only		
2DH5		2441	1.177	2440.413	2441.591			
		2480	1.177	2479.413	2480.589	Only		
3DH5				2402	1.177	2401.424	2402.602	
	Ant0	2441 1.178 2440.422	2440.422	2441.600				
		2480	1.177	2479.421	2480.598]		



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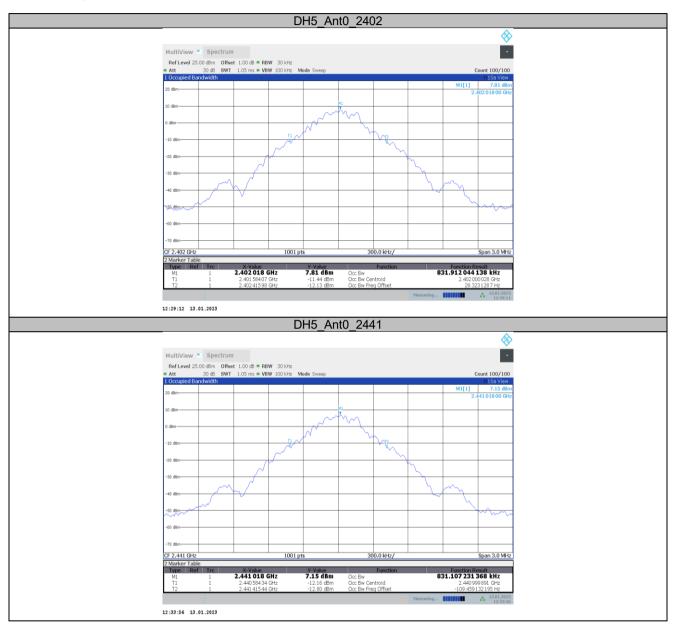
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 Page:
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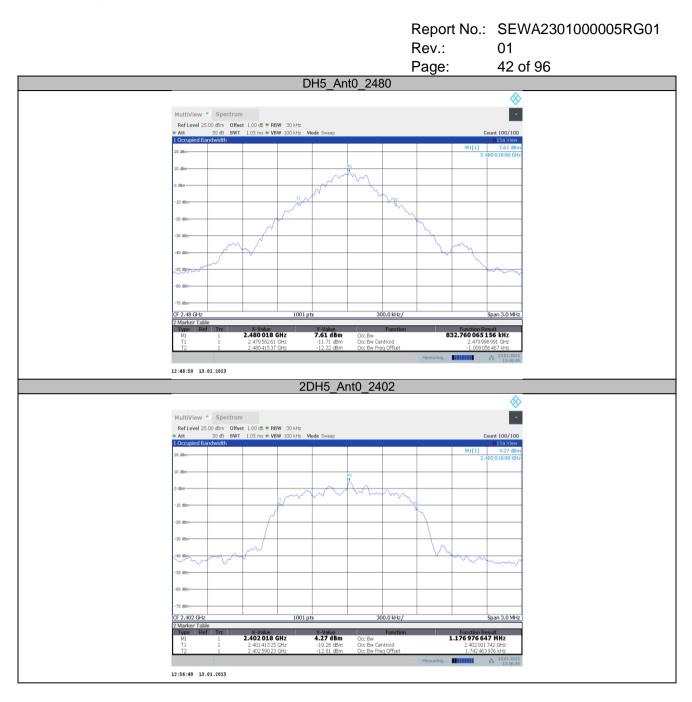


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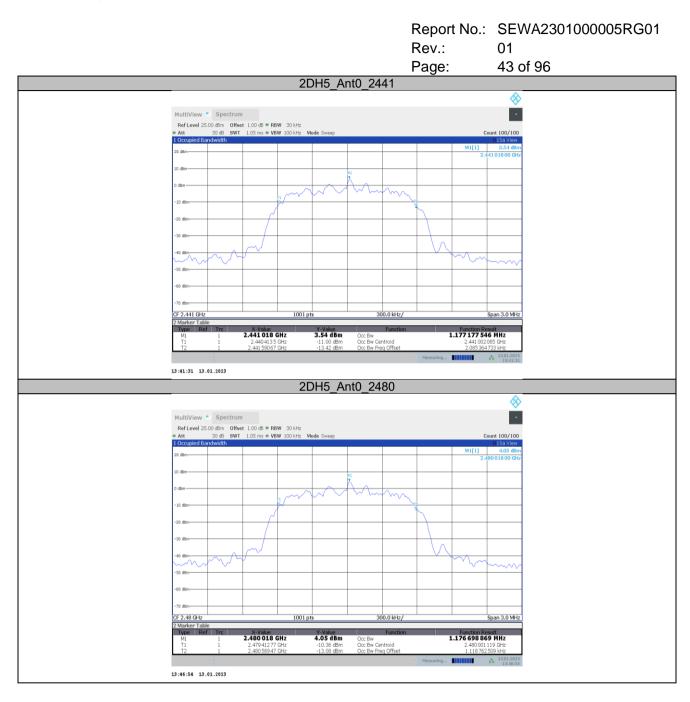
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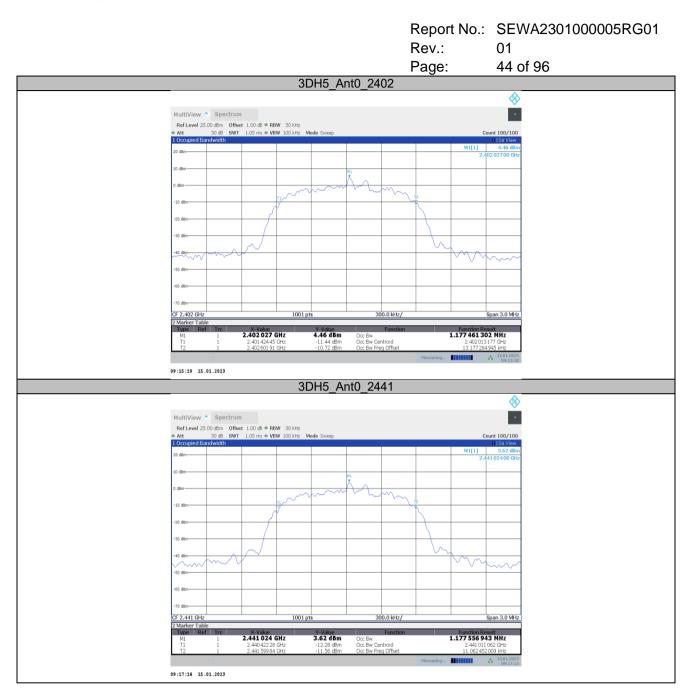
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 46 of 96

Maximum conducted output power Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
		2402	10.81	≤20.97	PASS
DH5	Ant0	2441	10.49	≤20.97	PASS
		2480	10.68	≤20.97	PASS
	Ant0	2402	9.23	≤20.97	PASS
2DH5		2441	9.71	≤20.97	PASS
		2480	8.95	≤20.97	PASS
		2402	9.36	≤20.97	PASS
3DH5	Ant0	2441	9.32	≤20.97	PASS
		2480	9.49	≤20.97	PASS



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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 47 of 96

Carrier frequency separation Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant0	Нор	1.010	≥0.627	PASS
2DH5	Ant0	Нор	0.992	≥0.860	PASS
3DH5	Ant0	Нор	0.982	≥0.867	PASS



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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 48 of 96



Test Graphs



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		3DH5_Ant0_Ho	р	
				⊗
Ref Level	 Spectrum 500 dBm Offset 1.00 dB = RBW 300 k 30 dB SWT 1.01 ms = VBW 300 k 			
1 Frequency	Sweep		M1[1]	o 1Pk View 6.12 dBm
20 d8m			D2[1]	2.441 174 00 GHz
10 dBm	10 M1			902.00 872
0.00				
0 dBm				
-10 d8m				
-20 d8m				
-30 dam				
-40 dèm				
-50 d8m				
-60 dBm				
-70 dêm				+
2.440 5 GH		1001 pts 200	0 kHz/	2.4425 GHz
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 50 of 96

Time of occupancy Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant0	Нор	0.36	320	0.115	≤0.4	PASS
DH3	Ant0	Нор	1.62	160	0.259	≤0.4	PASS
DH5	Ant0	Нор	2.87	106.67	0.306	≤0.4	PASS
2DH1	Ant0	Нор	0.36	320	0.115	≤0.4	PASS
2DH3	Ant0	Нор	1.62	160	0.259	≤0.4	PASS
2DH5	Ant0	Нор	2.87	106.67	0.306	≤0.4	PASS
3DH1	Ant0	Нор	0.36	320	0.115	≤0.4	PASS
3DH3	Ant0	Нор	1.62	160	0.259	≤0.4	PASS
3DH5	Ant0	Нор	2.87	106.67	0.306	≤0.4	PASS



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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 51 of 96

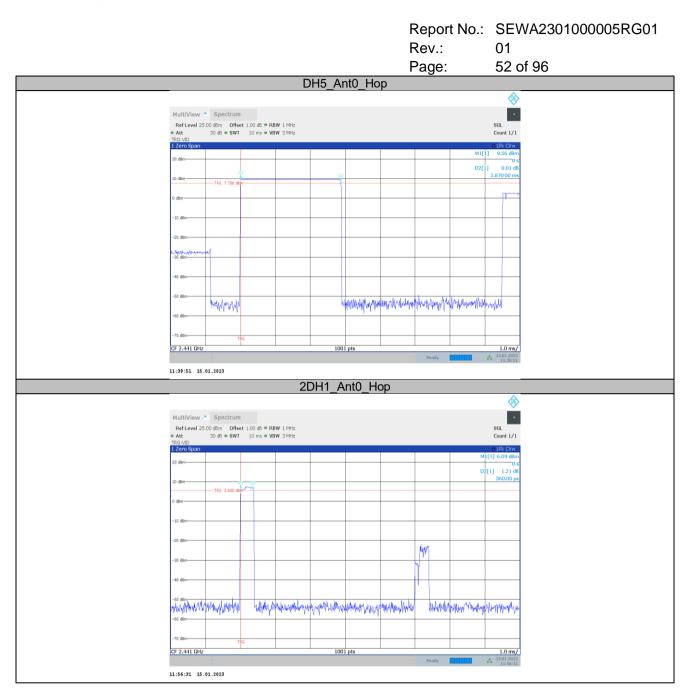


Test Graphs



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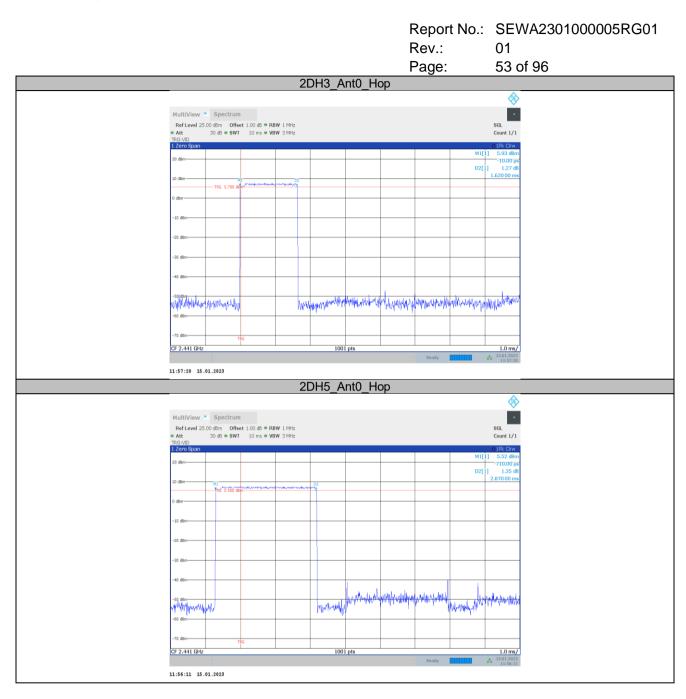
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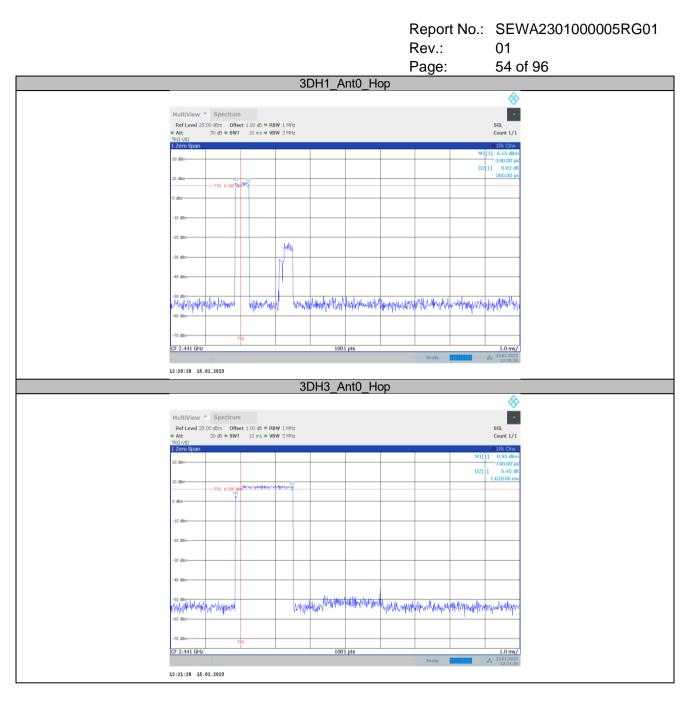
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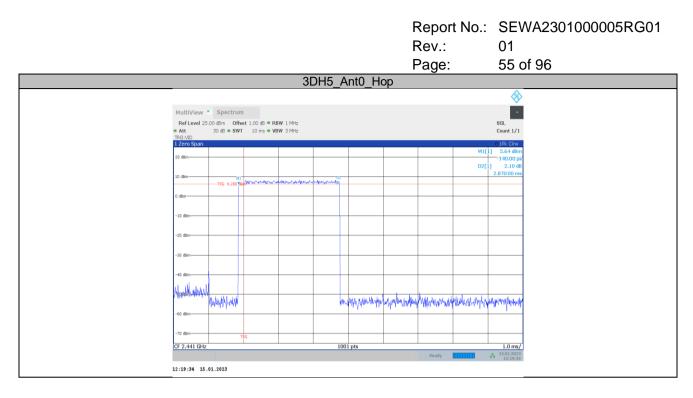
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 56 of 96

Number of hopping channels Test Result

TestMode	Antenna	Frequency[MHz]	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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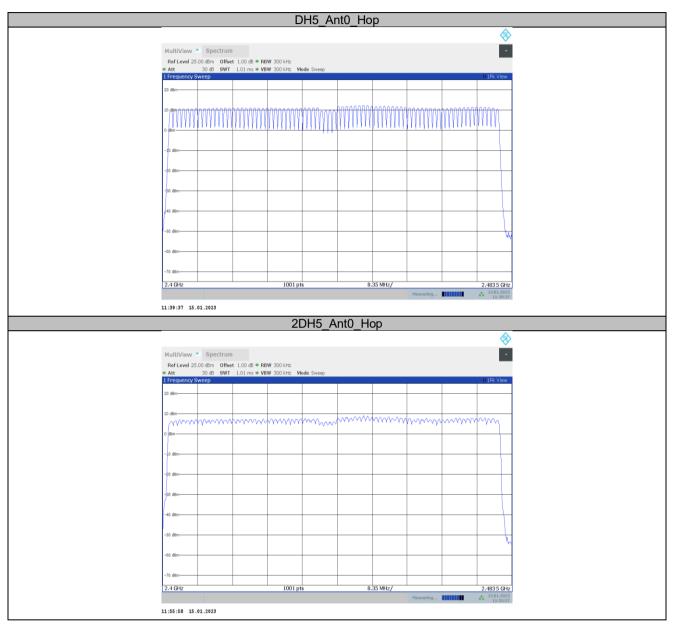
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 57 of 96

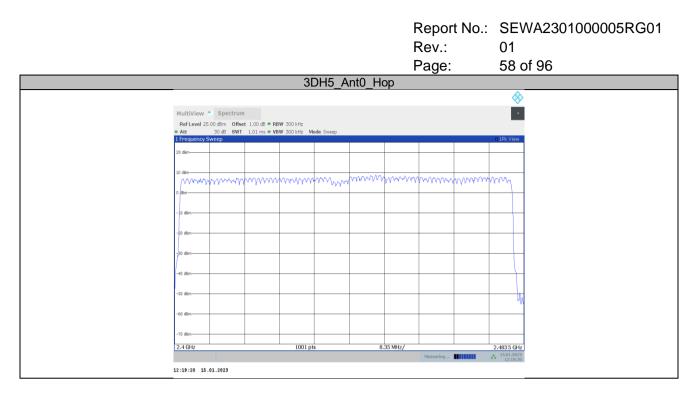


Test Graphs



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 Report No.:
 SEWA2301000005RG01

 Rev.:
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 Page:
 59 of 96

Band edge measurements

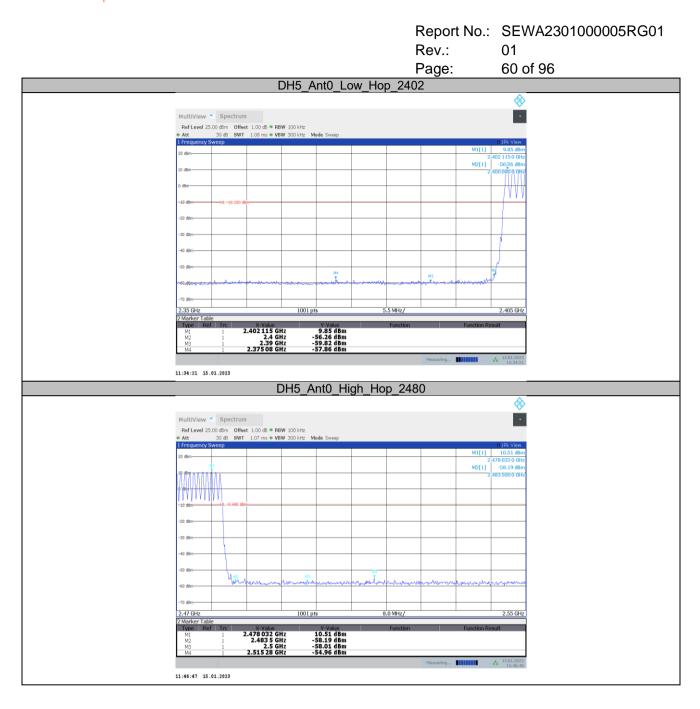
Test Graphs





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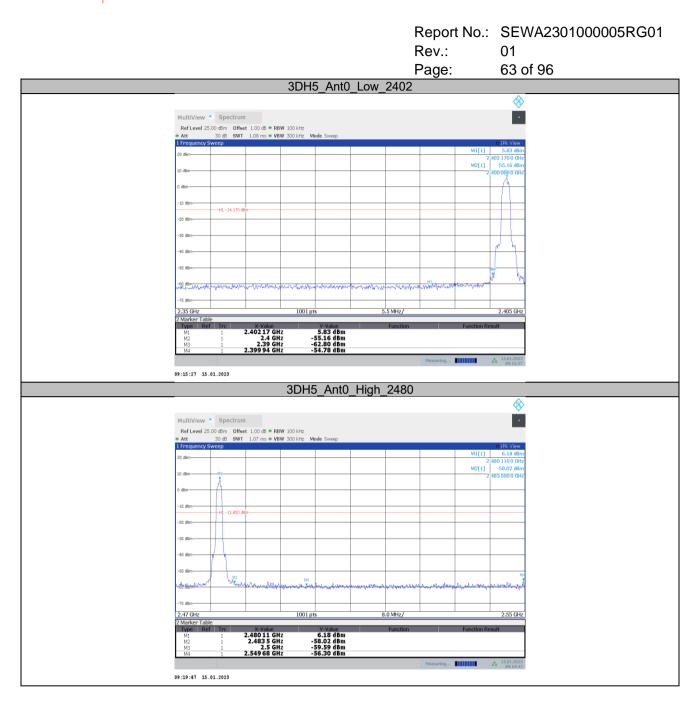
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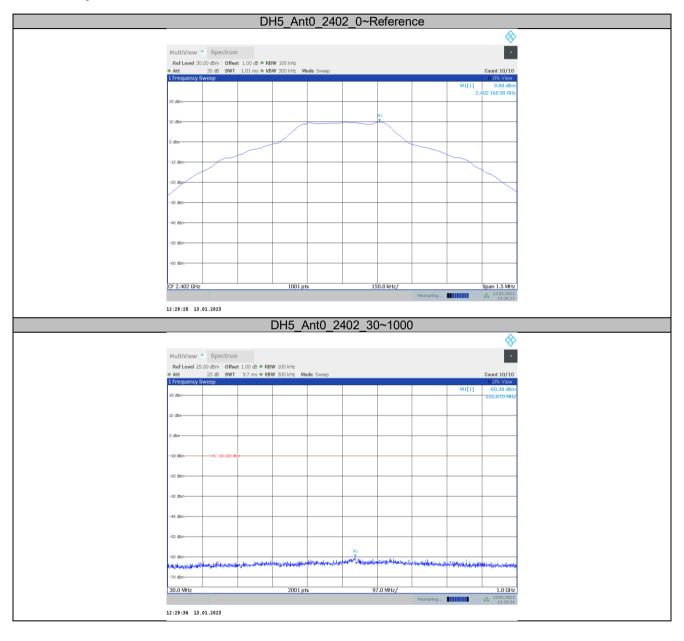
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 Page:
 65 of 96

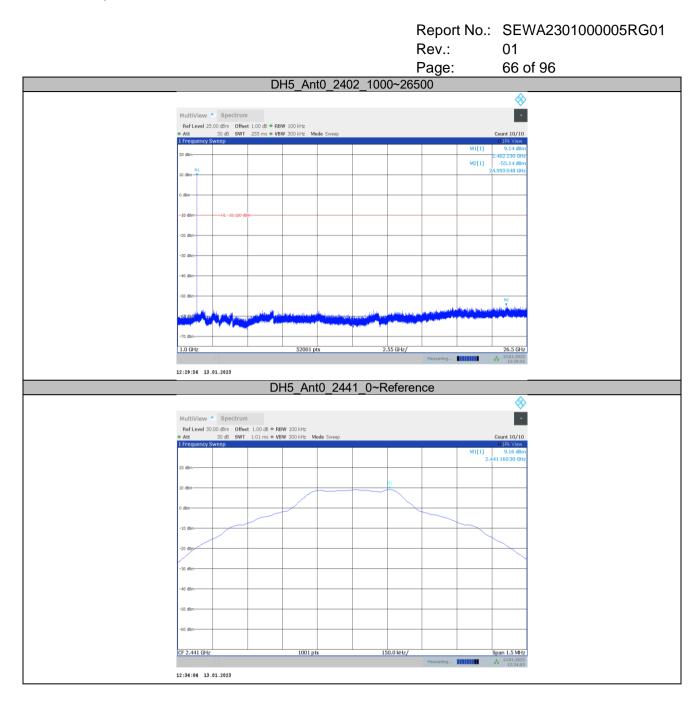
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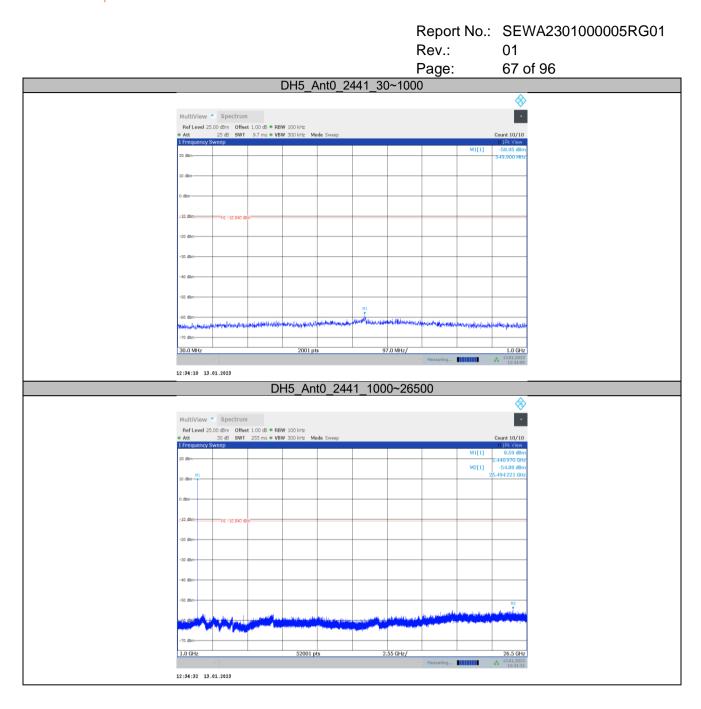
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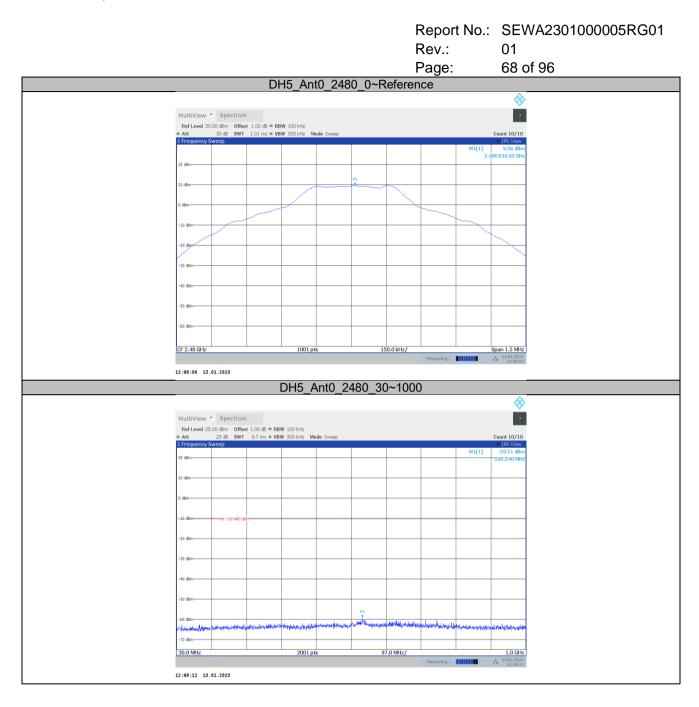
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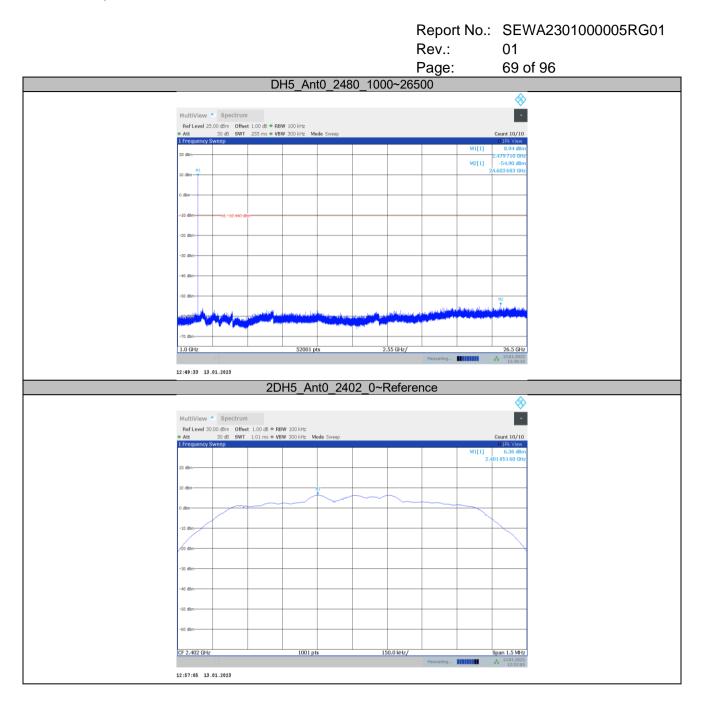
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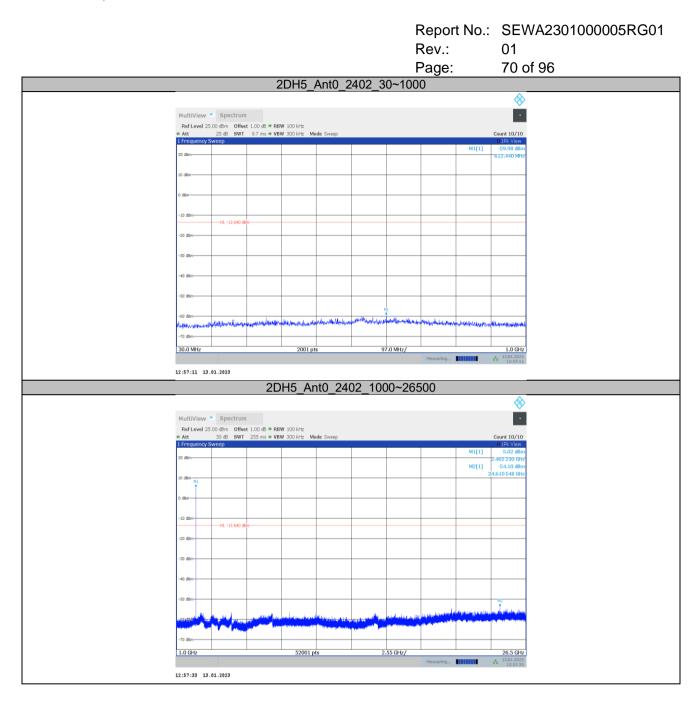
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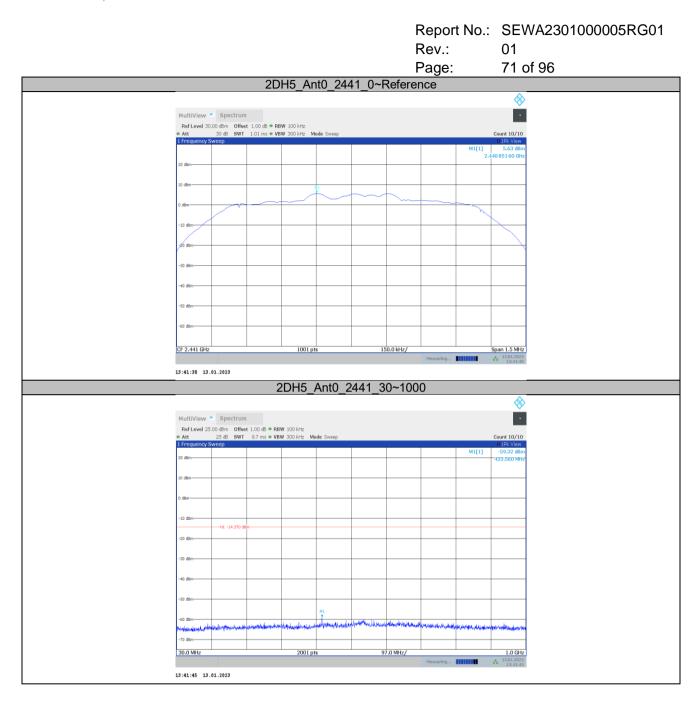




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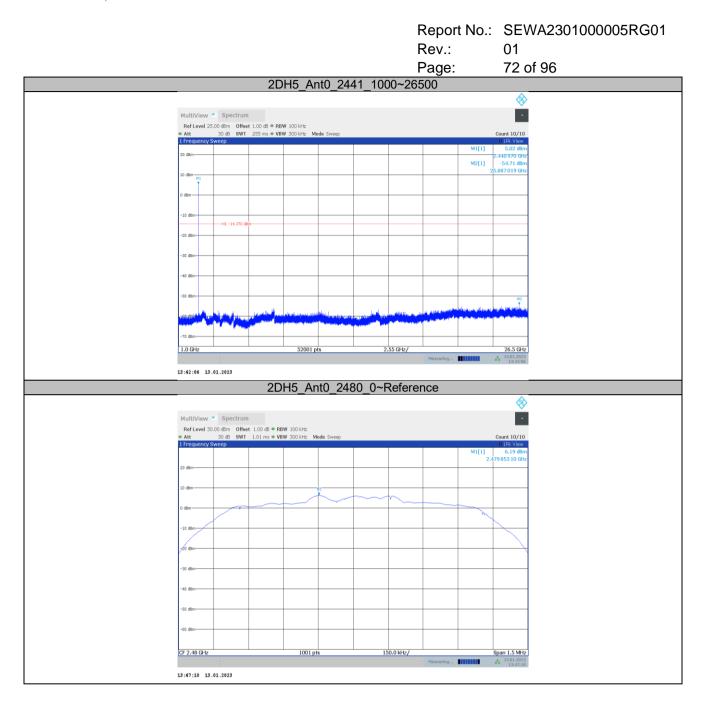




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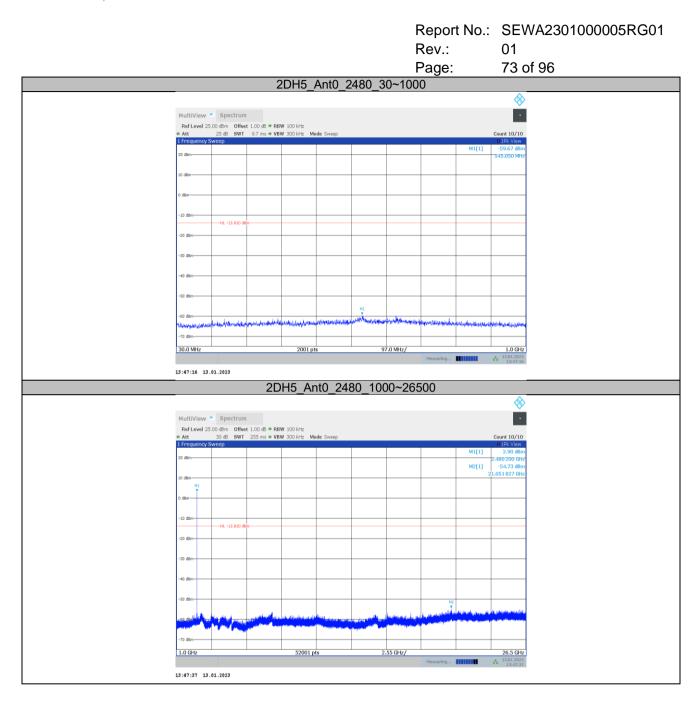
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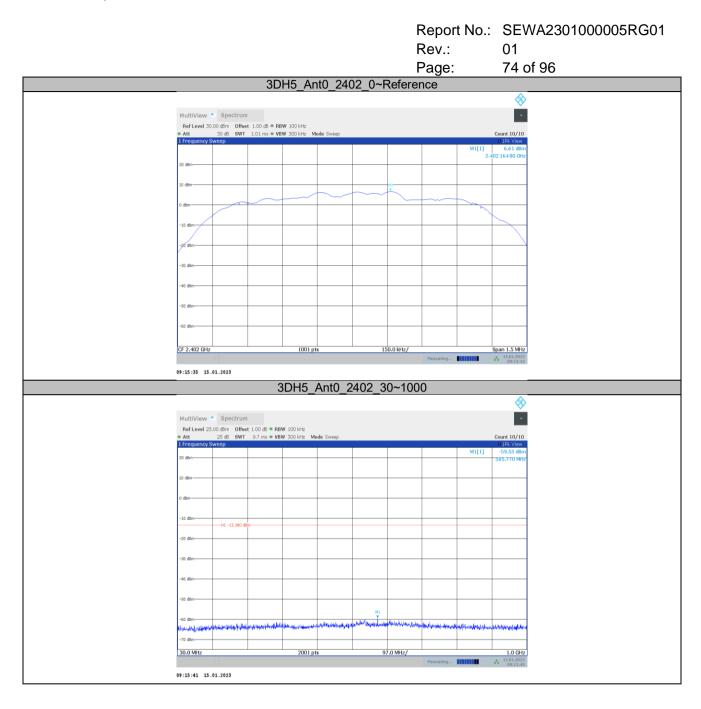
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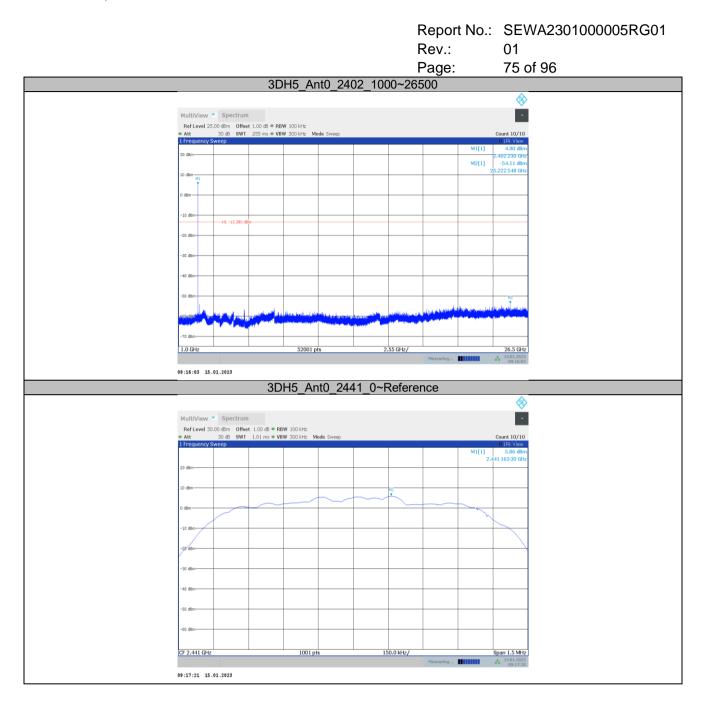




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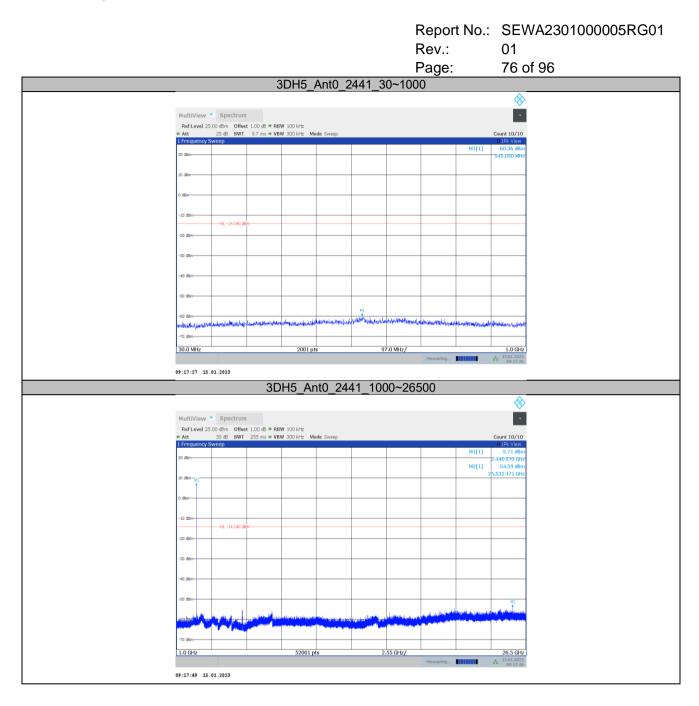
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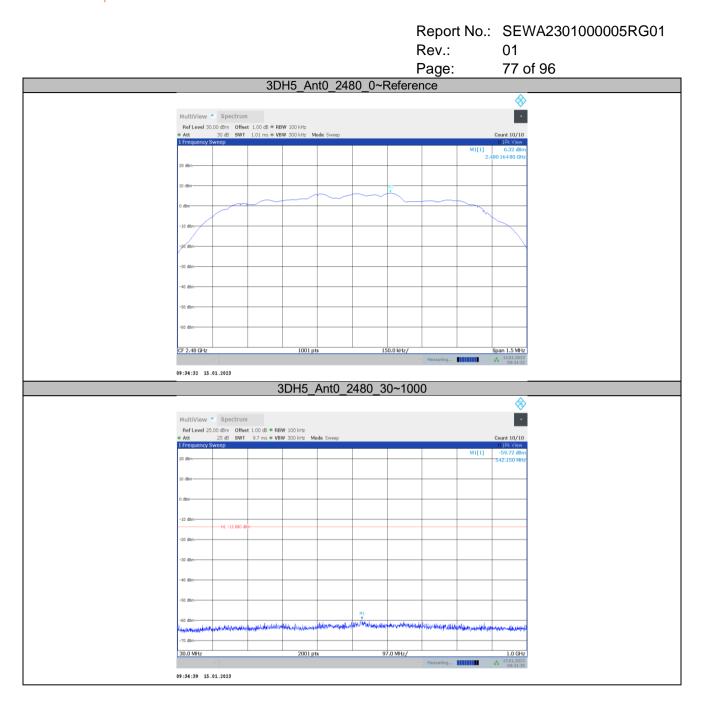
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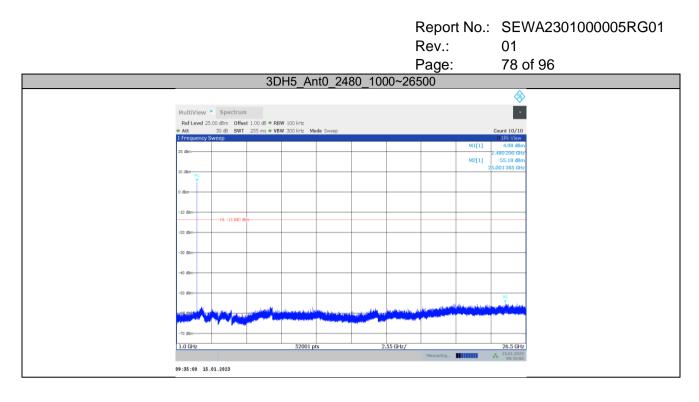
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 Report No.:
 SEWA2301000005RG01

 Rev.:
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 Page:
 79 of 96

Duty Cycle Test Result

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

Note:

Duty cycle = on time / 100ms = 2 * 2.89 / 100 = 5.78% Duty cycle Correction factor = 20*log(Duty cycle) = -24.76dB



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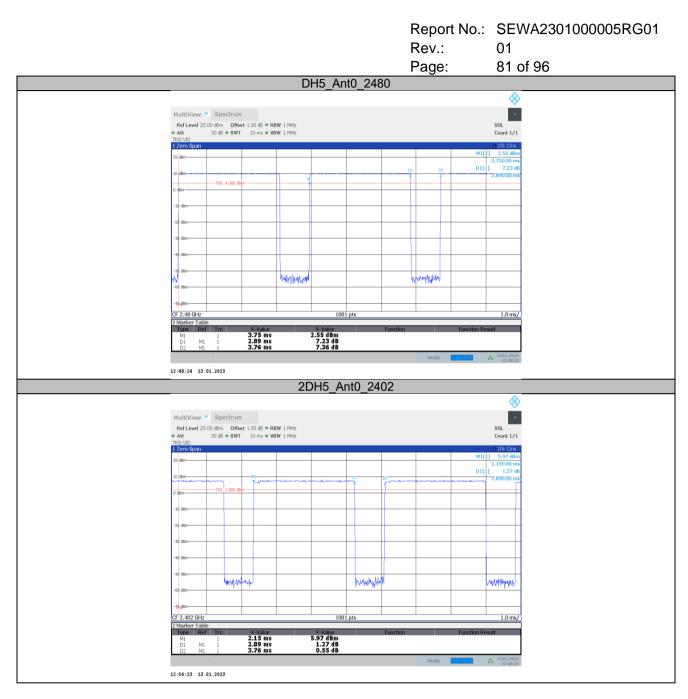


Test Graphs



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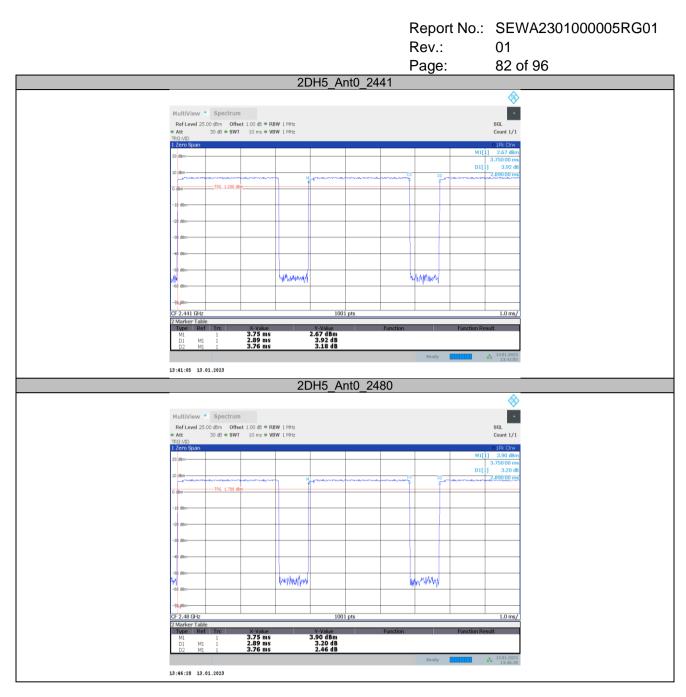
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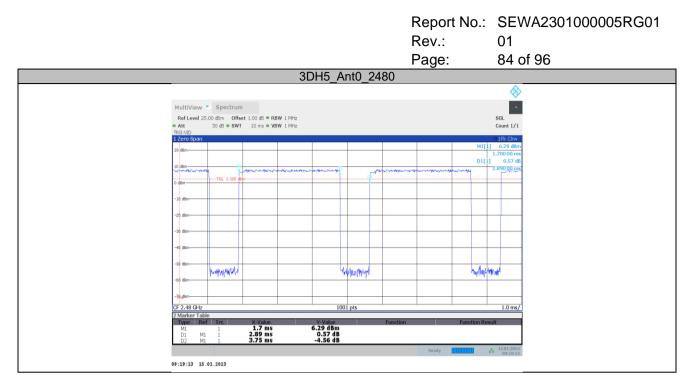
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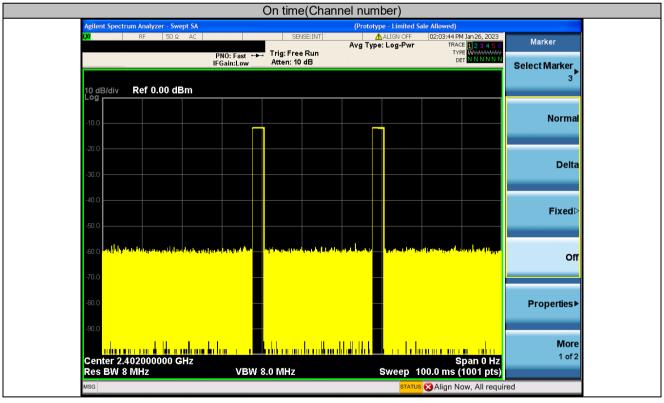




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 SEWA2301000005RG01

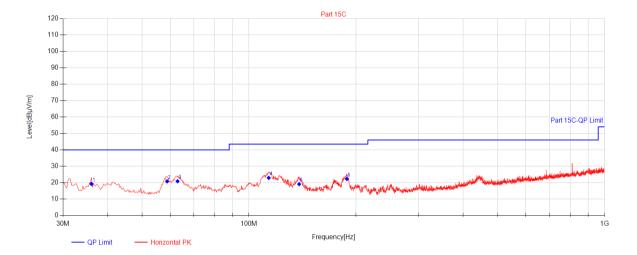
 Rev.:
 01

 Page:
 85 of 96

Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: GFSK_Channel 00



Fina	I Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.0625	42.12	-36.44	13.53	19.22	40.00	20.78	184	164	Horizontal
2	58.8575	44.33	-36.37	12.84	20.80	40.00	19.20	125	174	Horizontal
3	62.98	45.12	-36.44	12.17	20.86	40.00	19.14	136	288	Horizontal
4	113.6625	47.52	-36.15	11.54	22.91	43.50	20.59	251	102	Horizontal
5	138.3975	41.26	-35.56	13.39	19.09	43.50	24.41	199	236	Horizontal
6	188.3525	45.02	-35.39	12.68	22.32	43.50	21.18	145	257	Horizontal



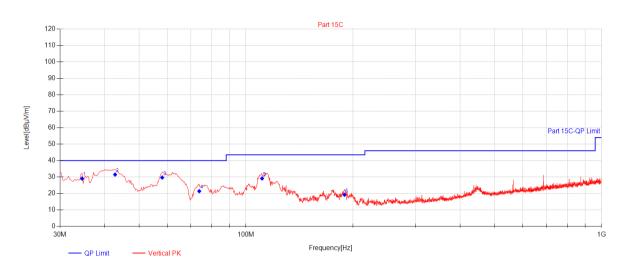
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 86 of 96



Fina	I Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.6075	52.19	-36.50	13.38	29.06	40.00	10.94	184	286	Vertical
2	42.8525	53.89	-36.23	13.83	31.49	40.00	8.51	155	50	Vertical
3	58.13	53.12	-36.35	12.90	29.67	40.00	10.33	136	257	Vertical
4	73.8925	47.33	-36.17	10.22	21.38	40.00	18.62	256	31	Vertical
5	110.995	54.01	-36.15	11.24	29.10	43.50	14.40	291	329	Vertical
6	189.3225	42.15	-35.41	12.45	19.19	43.50	24.31	174	153	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(dBµV/m) – Value(dBµV/m)

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



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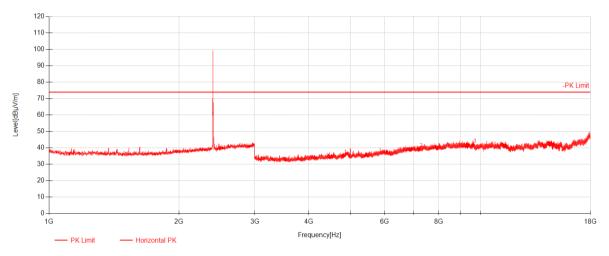
 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 87 of 96

Transmitter emission Above 1GHz

GFSK_Channel 00



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4804.0000	48.31	32.33	-45.54	35.10	74.00	38.90	126	20	Horizontal		
2	4804.0000	-	-	-	10.34	54.00	43.66	-	-	Horizontal		
3	7206.0000	45.88	36.60	-43.44	39.04	74.00	34.96	148	288	Horizontal		
4	7206.0000	-	-	-	14.28	54.00	39.72	-	-	Horizontal		
5	9608.0000	42.95	38.43	-39.65	41.73	74.00	32.27	195	343	Horizontal		
6	9608.0000	-	-	-	16.97	54.00	37.03	-	-	Horizontal		



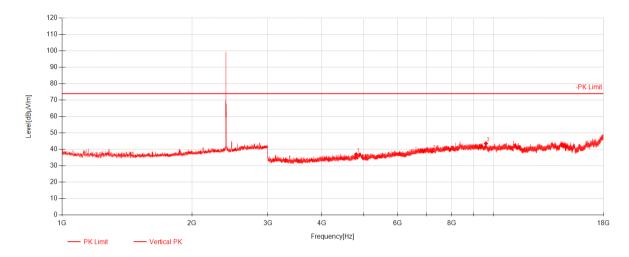
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 88 of 96



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	4804.0000	50.12	32.33	-45.54	36.91	74.00	37.09	185	287	Vertical		
2	4804.0000	-	-	-	12.15	54.00	41.85	-	-	Vertical		
3	7206.0000	45.52	36.60	-43.44	38.68	74.00	35.32	165	180	Vertical		
4	7206.0000	-	-	-	13.92	54.00	40.08	-	-	Vertical		
5	9608.0000	44.79	38.43	-39.65	43.57	74.00	30.43	148	126	Vertical		
6	9608.0000	-	-	-	18.81	54.00	35.19	-	-	Vertical		



GFSK_Channel 00

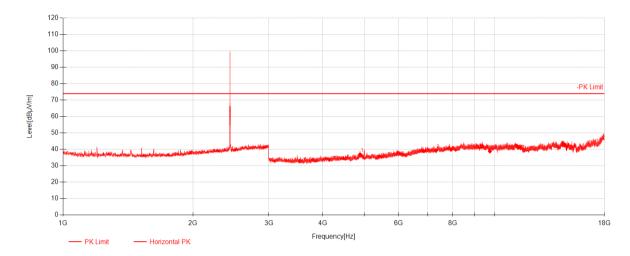
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 89 of 96



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	4880.0000	49.84	32.54	-45.53	36.85	74.00	37.15	215	53	Horizontal		
2	4880.0000	-	-	-	12.09	54.00	41.91	-	-	Horizontal		
3	7320.0000	46.41	36.53	-43.68	39.26	74.00	34.74	148	20	Horizontal		
4	7320.0000	-	-	-	14.50	54.00	39.50	-	-	Horizontal		
5	9760.0000	39.96	38.26	-39.46	38.76	74.00	35.24	198	236	Horizontal		
6	9760.0000	-	-	-	14.00	54.00	40.00	-	-	Horizontal		



GFSK_Channel 39

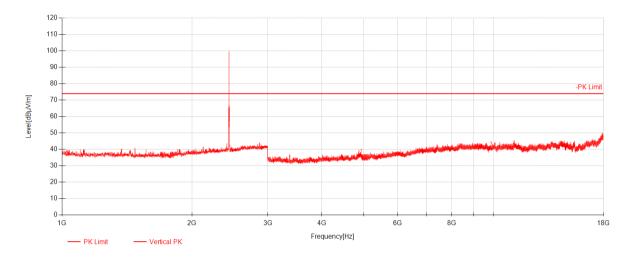
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 90 of 96



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	4880.0000	49.26	32.54	-45.53	36.27	74.00	37.73	255	106	Vertical		
2	4880.0000	-	-	-	11.51	54.00	42.49	-	-	Vertical		
3	7320.0000	46.01	36.53	-43.68	38.86	74.00	35.14	148	270	Vertical		
4	7320.0000	-	-	-	14.10	54.00	39.90	-	-	Vertical		
5	9760.0000	41.83	38.26	-39.46	40.63	74.00	33.37	186	215	Vertical		
6	9760.0000	-	-	-	15.87	54.00	38.13	-	-	Vertical		



GFSK_Channel 39

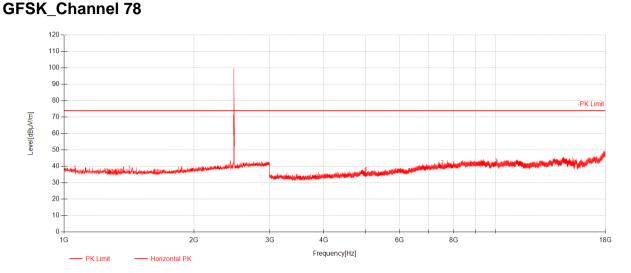
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 91 of 96



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4960.0000	48.61	32.77	-45.60	35.78	74.00	38.22	214	2	Horizontal		
2	4960.0000	-	-	-	11.02	54.00	42.98	-	-	Horizontal		
3	7440.0000	46.86	36.47	-43.30	40.03	74.00	33.97	148	306	Horizontal		
4	7440.0000	-	-	-	15.27	54.00	38.73	-	-	Horizontal		
5	9920.0000	41.84	38.38	-39.31	40.91	74.00	33.09	178	105	Horizontal		
6	9920.0000	-	-	-	16.15	54.00	37.85	-	-	Horizontal		



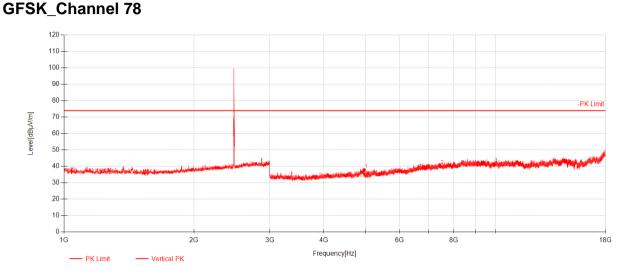
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 92 of 96



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4960.0000	50.54	32.77	-45.60	37.71	74.00	36.29	245	71	Vertical		
2	4960.0000	-	-	-	12.95	54.00	41.05	-	-	Vertical		
3	7440.0000	46.90	36.47	-43.30	40.07	74.00	33.93	147	2	Vertical		
4	7440.0000	-	-	-	15.31	54.00	38.69	-	-	Vertical		
5	9920.0000	42.07	38.38	-39.31	41.14	74.00	32.86	185	54	Vertical		
6	9920.0000	-	-	-	16.38	54.00	37.62	-	-	Vertical		

Remark:

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

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

AF = Antenna Factor(dB/m)

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

Margin = Limit(dB μ V/m) – Level(dB μ V/m)

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



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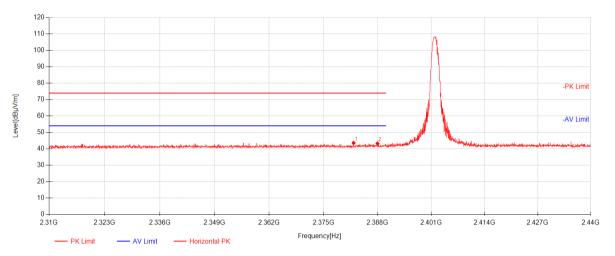
 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 93 of 96

Restricted bands around fundamental frequency

GFSK_Channel 00



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2382.2367	39.72	27.43	-23.57	43.58	74.00	30.42	184	358	Horizontal			
2	2382.2367	-	-	-	18.82	54.00	35.18	-	-	Horizontal			
3	2388	39.40	27.43	-23.57	43.26	74.00	30.74	184	358	Horizontal			
4	2388	-	-	-	18.50	54.00	35.50	-	-	Horizontal			



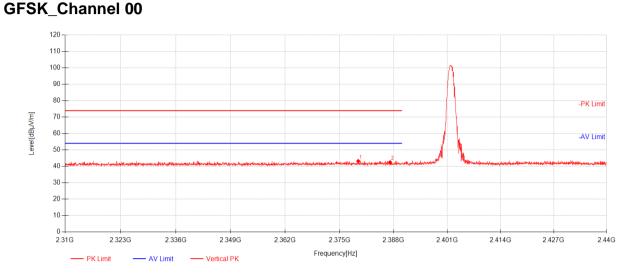
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 94 of 96



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	2379.5067	39.28	27.43	-23.57	43.14	74.00	30.86	169	52	Vertical
2	2379.5067	-	-	-	18.38	54.00	35.62	-	-	Vertical
3	2387.1767	38.63	27.43	-23.57	42.49	74.00	31.51	169	52	Vertical
4	2387.1767	-	-	-	17.73	54.00	36.27	-	-	Vertical



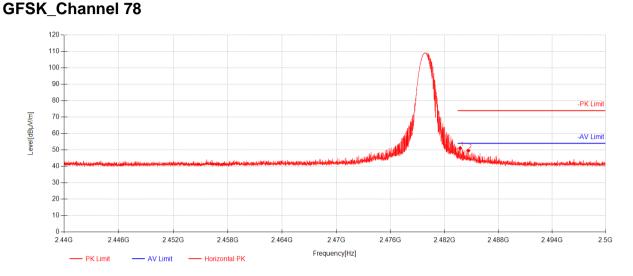
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 95 of 96



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	2483.755	46.89	27.72	-23.54	51.06	74.00	22.94	255	196	Horizontal
2	2483.755	-	-	-	26.30	54.00	27.70	-	-	Horizontal
3	2484.6625	45.43	27.72	-23.54	49.60	74.00	24.40	255	196	Horizontal
4	2484.6625	-	-	-	24.84	54.00	29.16	-	-	Horizontal



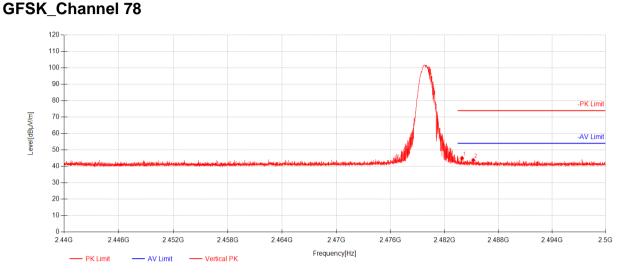
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 Report No.:
 SEWA2301000005RG01

 Rev.:
 01

 Page:
 96 of 96



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	2483.9575	40.83	27.72	-23.54	45.00	74.00	29.00	188	225	Vertical
2	2483.9575	-	-	-	20.24	54.00	33.76	-	-	Vertical
3	2485.21	39.60	27.72	-23.54	43.78	74.00	30.22	188	225	Vertical
4	2485.21	-	-	-	19.02	54.00	34.98	-	-	Vertical

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

---End of Report---



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