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TEST REPORT

Test Result :	PASS *
Date of Issue:	2022/07/04
Date of Test:	2022/06/10 to 2022/06/25
Date of Receipt:	2022/05/27
	FCC 47 CFR Part 15, Subpart C
Standards:	FCC 47 CFR Part 2, Subpart J
FCC ID:	2A62BHYBRIDROUTER4G
Trade Mark:	Heimgard, Heimgard Technologies
Model No.:	C4DM-ADAE-C0S0CCLEH-HCv1
EUT Description:	Hybrid Router 4G
Address of Manufacturer:	Postbox 1618 VIKA, 0119 Oslo, Norway
Manufacturer:	Heimgard Technologies AS
Address of Applicant:	Postbox 1618 VIKA, 0119 Oslo, Norway
Applicant:	Heimgard Technologies AS
Application No.:	SEWM2205000047RG

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

Authorized Signature:

anta Sun

Panta Sun Wireless Laboratory Manager



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1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2022/07/04		Original

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



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2 Test Summary

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Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

Applicant:	Heimgard Technologies AS
Address of Applicant:	Postbox 1618 VIKA, 0119 Oslo, Norway
Manufacturer:	Heimgard Technologies AS
Address of Manufacturer:	Postbox 1618 VIKA, 0119 Oslo, Norway

3.2 Test Location

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

3.3 Test Facility

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

A2LA (Certificate No. 6336.01)

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

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EUT Description:	Hybrid Router 4G
Model No.:	C4DM-ADAE-C0S0CCLEH-HCv1
Trade Mark:	Heimgard, Heimgard Technologies
Hardware Version:	C0S0CCLEH-HCv1
Software Version:	Version V23
Operation Frequency:	2400MHz~2483.5MHz
Modulation Type:	O-QPSK
Number of Channel:	16
Dotoo Turootu	Provided by client
Rates Type*:	250kbps
Antenna Type:	External, 🛛 Integrated
Antenna Gain*:	Provided by client
Antenna Gain":	1.0dBi(ANT4);
RF Cable:	1.0dB
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report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark:

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	Operation Frequency of each channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2405MHz	4	2425MHz	8	2445MHz	12	2465MHz
1	2410MHz	5	2430MHz	9	2450MHz	13	2470MHz
2	2415MHz	6	2435MHz	10	2455MHz	14	2475MHz
3	2420MHz	7	2440MHz	11	2460MHz	15	2480MHz
Pomark:							

Remark:

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

Channel	Frequency
The Lowest channel(CH0)	2405MHz
The Middle channel(CH7)	2440MHz
The Highest channel(CH15)	2480MHz



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3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests		
Relative Humidity	44-46 % RH Ambient		
Value	Temperature(°C)	Voltage(V)	
NTNV	22-23	12	
Remark: NV: Normal Voltage NT: Normal Temperature			

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

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

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

15.247(b) (4) requirement:

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

The antenna is integrated and no consideration of replacement. The best case gain of the antenna is 1.0dBi(ANT4)(Provided by client)*;.

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark:

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4.2 AC Power Line Conducted Emissions

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Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10: 2013 Section 6.2			
Test Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz		
Limit:	Limit (dBuV)			
	Frequency range(MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the log	arithm of the frequency.		
Test Procedure:	 room. 2) The EUT was connected impedance Stabilizati impedance. The porconnected to a second plane in the same of multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plane placed on the horizon 4) The test was perform the EUT shall be 0. vertical ground reference plane. The unit under test and mounted on top of the the closest points of and associated equip 5) In order to find the mand all of the interfate 	listurbance voltage test was a ected to AC power source to ion Network) which provides ower cables of all other un that LISN 2, which was bonded way as the LISN 1 for the un- the rating of the LISN was not as placed upon a non-metalling ne. And for floor-standing arro- ntal ground reference plane. ed with a vertical ground refe 4 m from the vertical ground rence plane was bonded to a LISN 1 was placed 0.8 m from the LISN 1 and the EUT. All ownent was at least 0.8 m from aximum emission, the relative ce cables must be changed and on conducted measurement.	through a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear nits of the EUT were to the ground reference unit being measured. A ultiple power cables to a bit exceeded. ic table 0.8m above the angement, the EUT was rence plane. The rear of d reference plane. The bothe horizontal ground rom the boundary of the rence plane for LISNs is distance was between I other units of the EUT on the LISN 2.	



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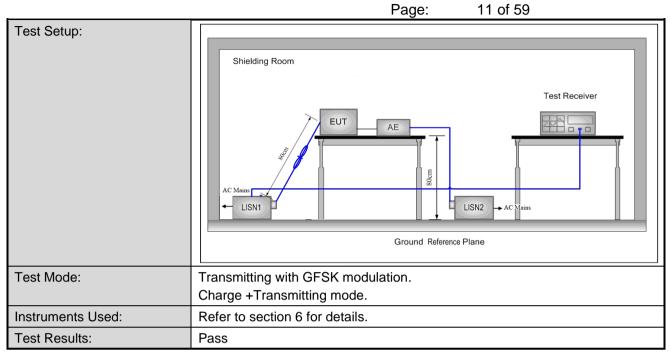
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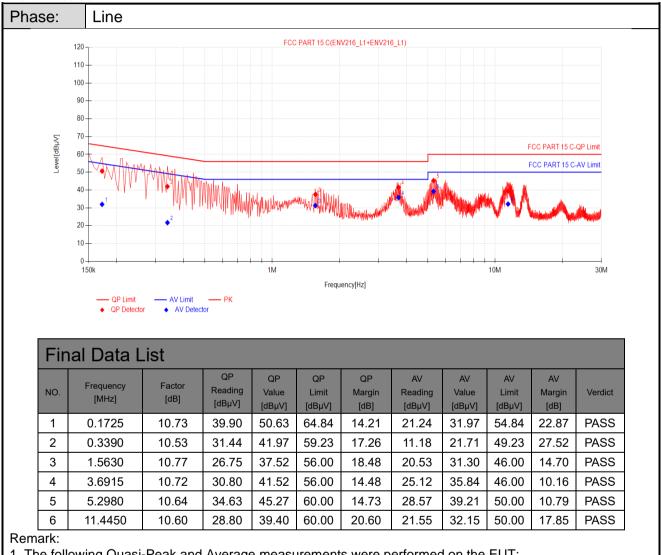
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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)

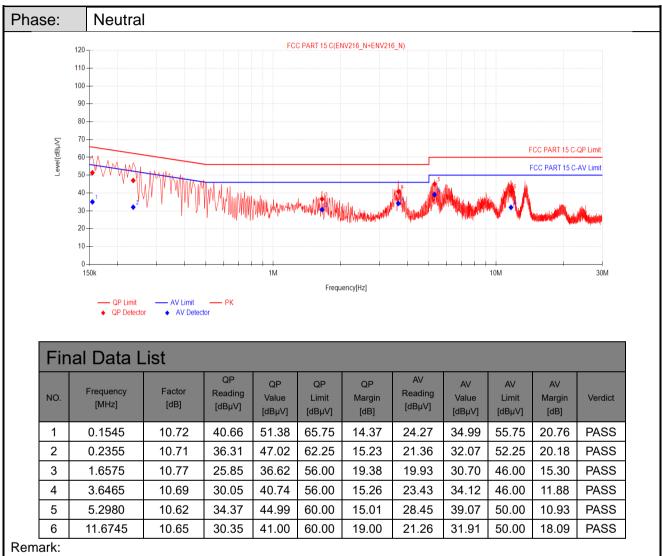


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1. The following Quasi-Peak and Average measurements were performed on the EUT:

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

3. Margin = Limit(dBµV) – Value(dBµV)



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4.3 Duty Cycle

The detailed test data see: Appendix



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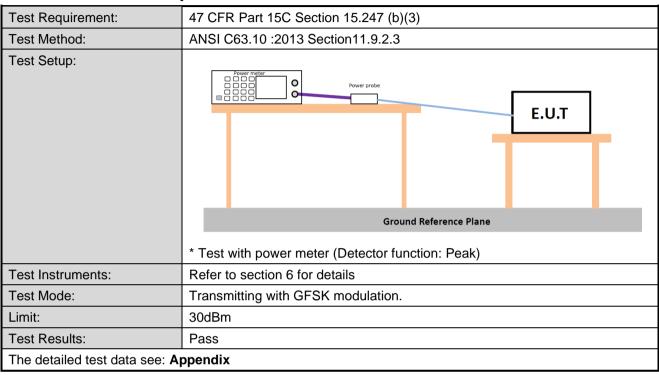
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4.4 Conducted Output Power

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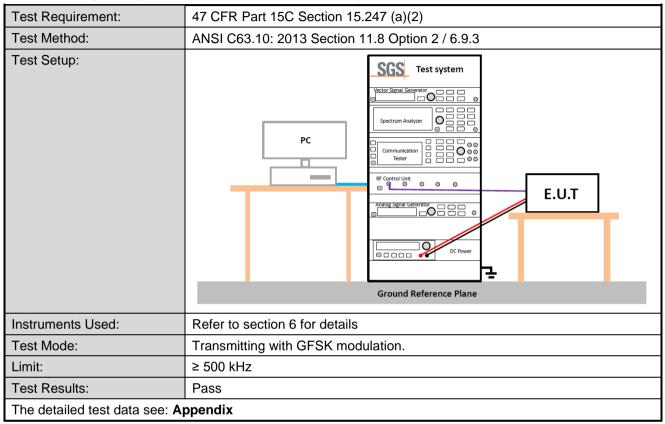
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

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Test Requirement: 47 CFR Part 15C Section 15.247 (e) **Test Method:** ANSI C63.10 :2013 Section 11.10.2 Test Setup: SGS Test system Vector Signal Generator 0 PC Communication Control Unit 0 0 0 E.U.T 0 DC Pov 00000 ŀ Ground Reference Plane **Test Instruments:** Refer to section 6 for details Test Mode: Transmitting with GFSK modulation. Limit: ≤8.00dBm/3kHz **Test Results:** Pass The detailed test data see: Appendix

4.6 Power Spectral Density

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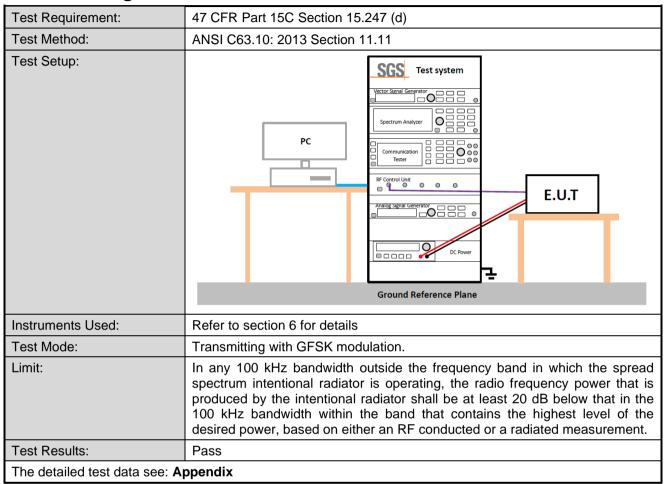
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4.7 Band-edge for RF Conducted Emissions





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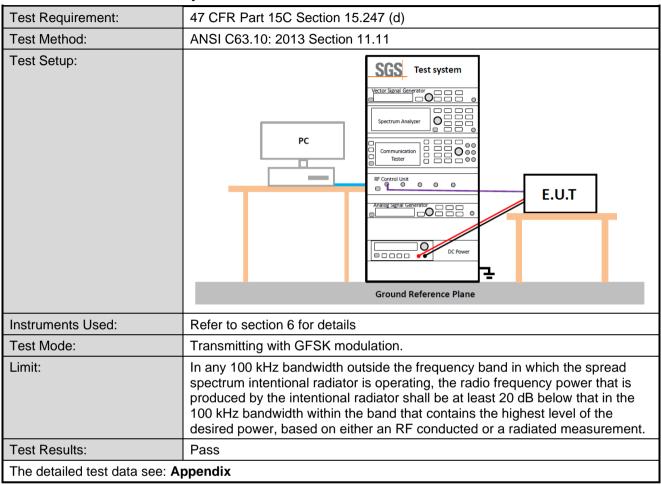
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4.8 **RF Conducted Spurious Emissions**





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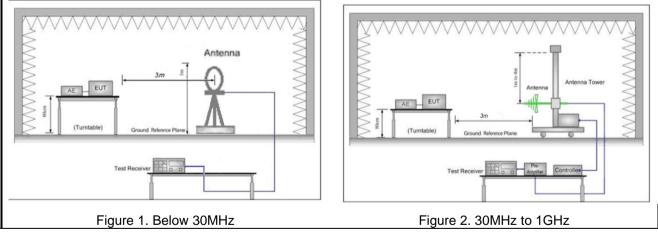
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4.9 Radiated Spurious Emissions

T ID I I			~ -					
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 :2013 Sec	tion 11.12						
Test Site:	Measurement Distance:	3m (Semi-Anecho	ic Chamber)	1				
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:

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	Antenna Tower Im or 3m Im or 3m I
	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 $20*LOG(3/1) = 9.54 \text{ dB}.$
Test Configuration:	Measurements Below 1000MHz
	• RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Peak Trace mode = mode hold
	Trace mode = max hold



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		Report No.: Rev.: Page:	SEWM2205000047RG06 01 22 of 59
	Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000M • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), it Satisfying this condition may require ind reducing the span. If this condition can be set to peak. • Sweep time = auto • Perform a trace average of at least 10 Level = Reading Level(dBµV) + Factor(Factor = AF(dB/m) + (Cable Factor(dB) AF = Antenna Factor(dB/m) Margin = Limit(dBµV/m) – Level(dBµV/m)	f span / (# of po creasing the nu not be satisfied 00 traces. (dB): - Preamplifer	umber of points in the sweep or I, then the detector mode shall
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.		
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitti For below 1GHz part, through pre-sca the worst case is recorded in the report	n, the worst ca	ase is the lowest channel. Only
Instruments Used:	Refer to section 6 for details		
Test Results:	Pass		
The detailed test data	see: Appendix		



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4.10Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013 Section	ANSI C63.10: 2013 Section 11.12					
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Cham	ber)				
Limit:	Frequency Limit (dBuV/m) Remark						
	30MHz-88MHz	40.0	Quasi-peak				
	88MHz-216MHz 43.5 Quasi						
	216MHz-960MHz	46.0	Quasi-peak				
	960MHz-1GHz 54.0 Quasi-peak						
		54.0	Average Value				
	Above 1GHz	74.0	Peak Value				

Test Setup:

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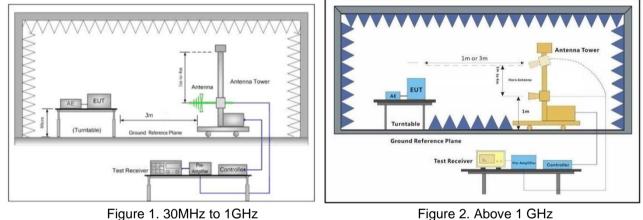


	Figure 1.3	UMHZ to TGHZ	Figure 2. Above 1 GHZ
Test Procedure:	a.	above the ground at a	UT was placed on the top of a rotating table 0.8 meters 3 or 10 meter semi-anechoic camber. The table was determine the position of the highest radiation.
	b.	meters above the grou	EUT was placed on the top of a rotating table 1.5 nd at a 3 meter semi-anechoic camber. The table was determine the position of the highest radiation.
	C.		or 10 meters away from the interference-receiving bunted on the top of a variable-height antenna tower.
	d.	to determine the max	varied from one meter to four meters above the ground mum value of the field strength. Both horizontal and the antenna are set to make the measurement.
	e.	then the antenna was	mission, the EUT was arranged to its worst case and tuned to heights from 1 meter to 4 meters and the urned from 0 degrees to 360 degrees to find the
	f.	The test-receiver syst Bandwidth with Maxim	em was set to Peak Detect Function and Specified um Hold Mode.
	g.		e end of the restricted band closest to the transmit apliance. Also measure any emissions in the restricted



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	Report No.: SEWM2205000047RG06 Rev.: 01 Page: 24 of 59 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
	 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
5	• RBW = 120 kHz
	• VBW = 300 kHz
	• Detector = Peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	• Detector = Peak
	Sweep time = auto
	 Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	• VBW ≥ [3 *RBW]
	• Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
	Sweep time = auto
	 Perform a trace average of at least 100 traces.
	Level = Reading Level(dBµV) + Factor(dB):
	Factor = AF(dB/m) + Cable Factor(dB)
	AF = Antenna Factor(dB/m)
	Margin = Limit(dBµV/m) – Level(dBµV/m)
Exploratory Test Mode:	Transmitting with GFSK modulation.
	Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation.
	Pretest the EUT at Charge + Transmitting mode.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	e: Appendix



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0%
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
		± 3.13dB (9k -30MHz)
0	Dedicted Environment	± 4.80dB (30M -1GHz)
8	Radiated Emission	± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

Remark:

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The U_{lab} (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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6 Equipment List

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RF Test Equipment						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15	
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16	
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR	
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14	
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03	
Pulse power sensor	Anritsu	MA2411b	SUWI-01-32-01	2021/12/04	2022/12/03	

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



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RSE Test Equipment						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15	
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27	
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18	
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13	
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13	
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13	
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18	
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09	
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR	
Measurement Software	Tonscend	JS32-RSE V4.0.0.1	SUWI-02-09-06	NCR	NCR	



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7 **Photographs - Setup Photos**

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
ZIGB	Ant4	2405	0.55	2404.72	2405.27	≥0.5	PASS
		2440	0.55	2439.72	2440.27	≥0.5	PASS
		2480	0.55	2479.72	2480.27	≥0.5	PASS



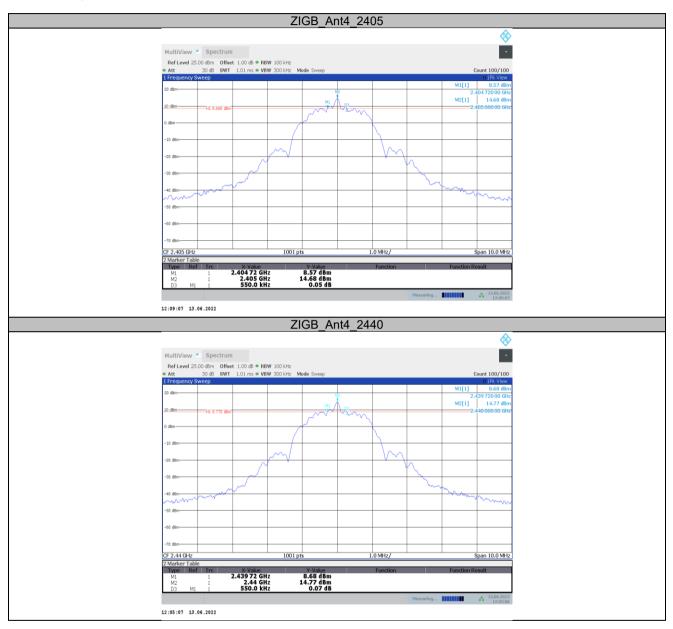
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
ZIGB	Ant4	2405	2.211	2403.859	2406.069		
		2440	2.216	2438.857	2441.073		
		2480	2.223	2478.853	2481.076		



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Maximum peak power Test Result

TestMode	Antenna	Frequency[MHz]	peak power[dBm]	Limit[dBm]	Verdict
ZIGB	Ant4	2405	13.86	≤30	PASS
		2440	13.79	≤30	PASS
		2480	13.75	≤30	PASS



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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
		2405	0.37	≤8.00	PASS
ZIGB	Ant4	2440	0.49	≤8.00	PASS
		2480	0.46	≤8.00	PASS



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Test Graphs

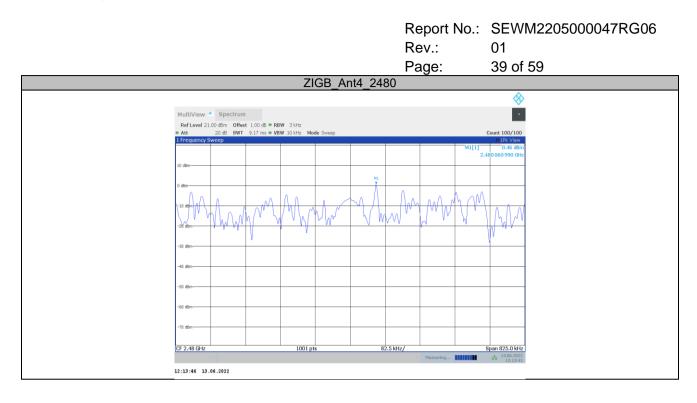


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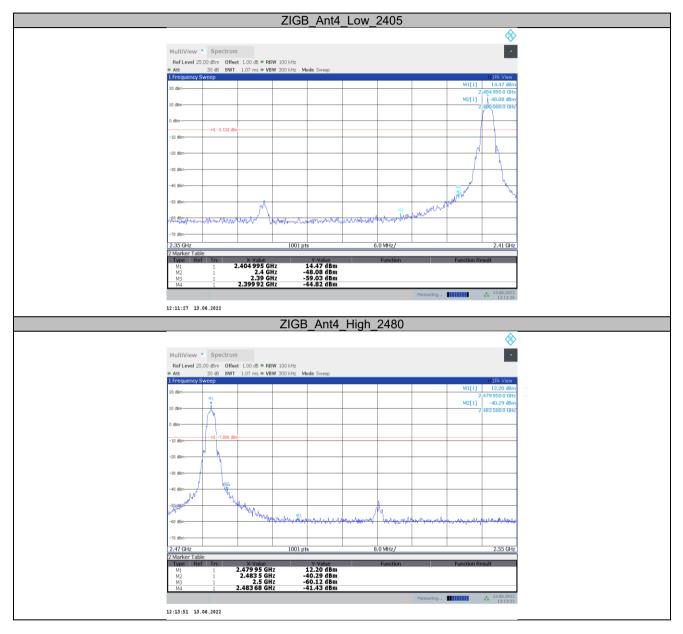
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Band edge measurements

Test Graphs



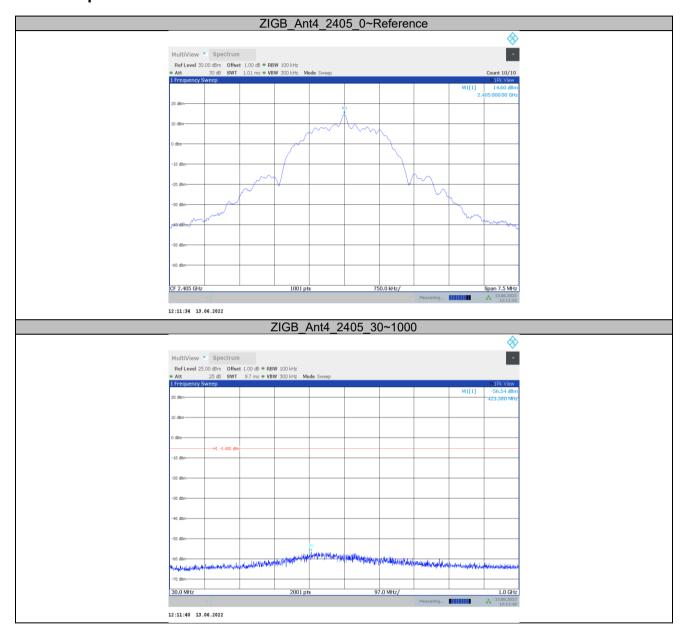


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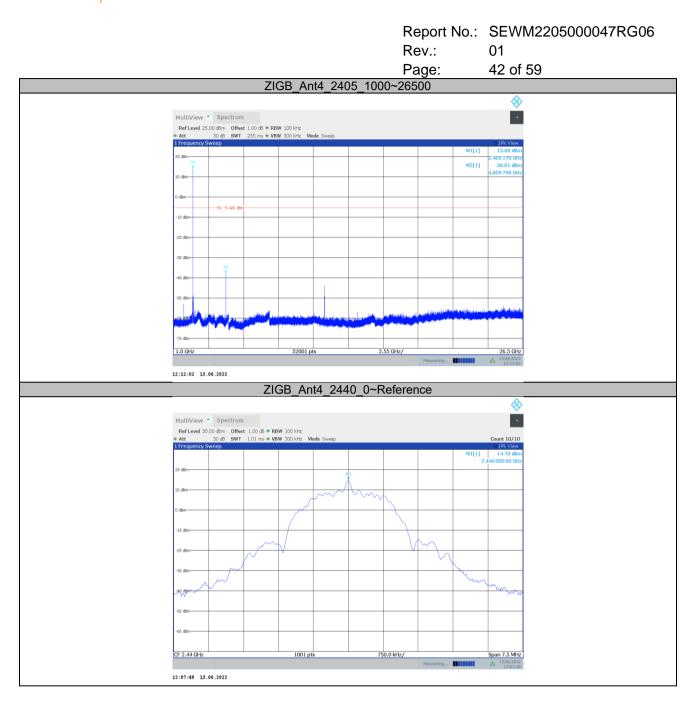
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Conducted Spurious Emission Test Graphs



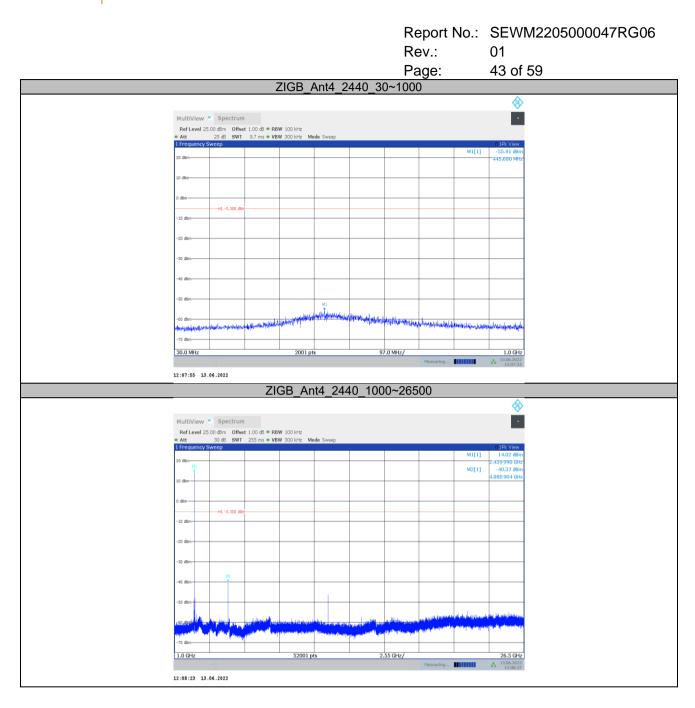






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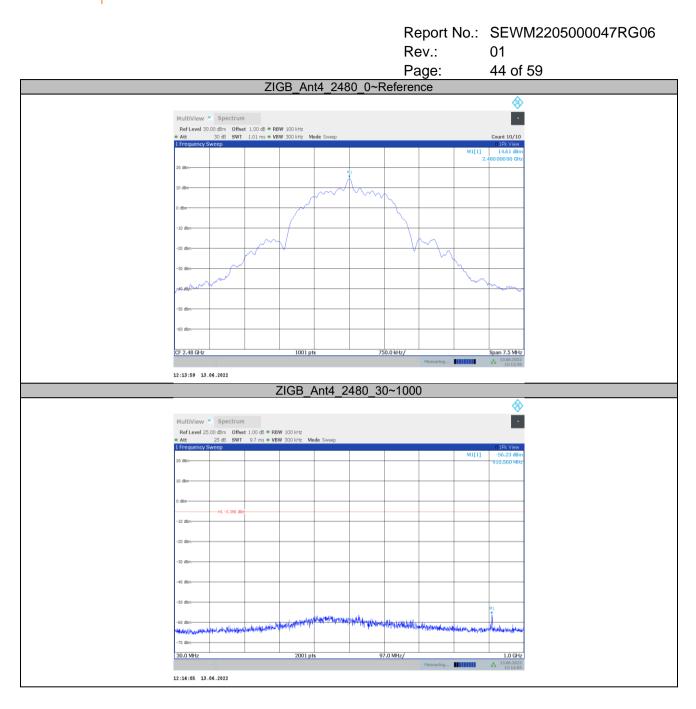




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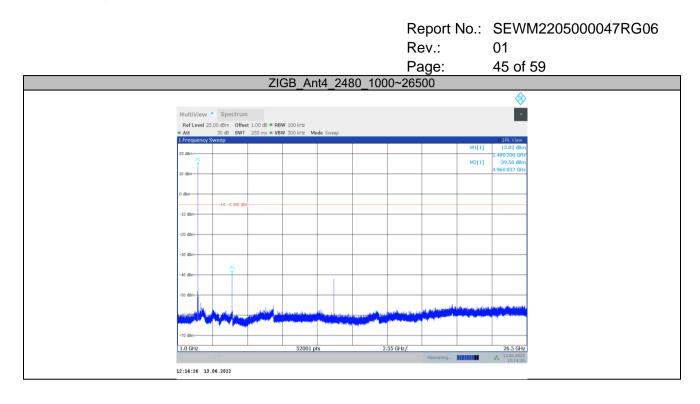
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Duty Cycle Test Result

	TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
[ZIGB	Ant4	2405	0.33	0.55	60.00		



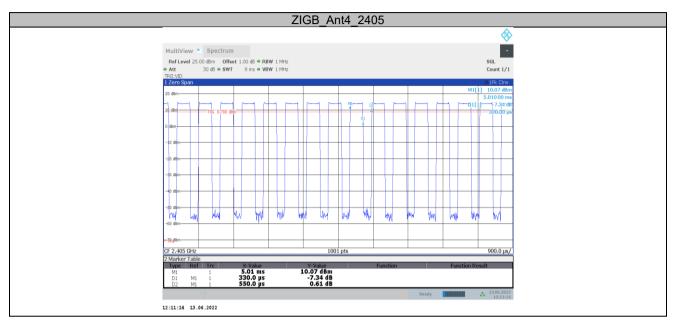
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Test Graphs



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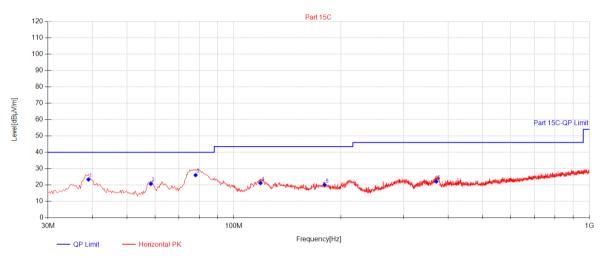
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: Zigbee_ Channel 0



Final	Data List								
	Frequency	Reading	Factor	QP Value	QP Limit	QP Margin	Height	Angle	Delerity
NO.	[MHz]	[dBµV]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	38.9725	45.75	-22.38	23.37	40.00	16.63	136	126	Horizontal
2	58.3725	44.13	-23.48	20.65	40.00	19.35	251	135	Horizontal
3	78.015	52.23	-26.21	26.02	40.00	13.98	189	156	Horizontal
4	118.755	45.19	-24.05	21.14	43.50	22.36	291	318	Horizontal
5	179.865	40.59	-20.55	20.04	43.50	23.46	178	2	Horizontal
6	370.7125	42.03	-19.92	22.11	46.00	23.89	166	316	Horizontal



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Final	Final Data List													
NO.	Frequency	Reading	Factor	QP Value	QP Limit	QP Margin	Height	Angle	Polarity					
NO.	[MHz]	[dBµV]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Folanty					
1	38.245	55.89	-22.51	33.38	40.00	6.62	203	358	Vertical					
2	75.3475	56.13	-26.04	30.09	40.00	9.91	234	284	Vertical					
3	92.565	42.28	-26.64	15.64	43.50	27.86	166	54	Vertical					
4	134.76	41.23	-22.46	18.77	43.50	24.73	294	351	Vertical					
5	208.2375	37.19	-24.86	12.33	43.50	31.17	175	141	Vertical					
6	387.2025	38.03	-18.92	19.11	46.00	26.89	213	81	Vertical					



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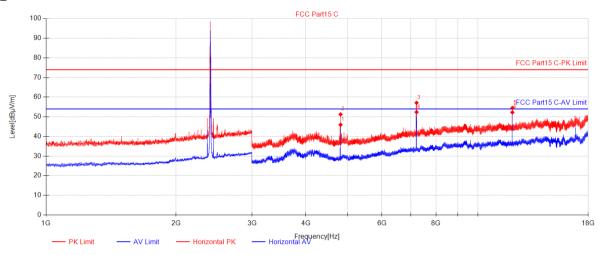
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Transmitter emission Above 1GHz

Zigbee_Channel 0



Final	Final Data List												
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4809.5	59.15	-13.19	45.96	54.00	8.04	168	210	Horizontal				
2	4811	64.43	-13.19	51.24	74.00	22.76	194	190	Horizontal				
3	7213.5	64.00	-6.87	57.13	74.00	16.87	172	105	Horizontal				
4	7214	59.25	-6.87	52.38	54.00	1.62	230	127	Horizontal				
5	12025	53.07	1.43	54.50	74.00	19.50	266	1	Horizontal				
6	12025.5	50.81	1.43	52.24	54.00	1.76	133	12	Horizontal				



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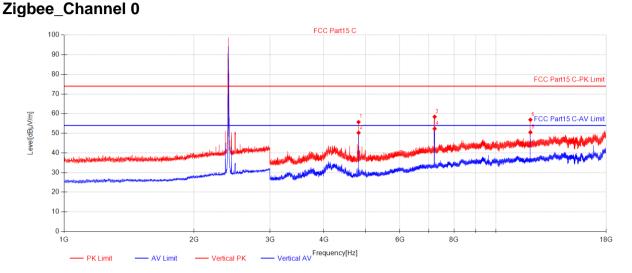
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Final	Final Data List												
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4809	68.91	-13.19	55.72	74.00	18.28	168	209	Vertical				
2	4811.5	63.45	-13.19	50.26	54.00	3.74	194	232	Vertical				
3	7216.5	65.30	-6.88	58.42	74.00	15.58	172	84	Vertical				
4	7217	59.24	-6.89	52.35	54.00	1.65	230	84	Vertical				
5	12025.5	49.06	1.43	50.49	54.00	3.51	255	188	Vertical				
6	12027.5	55.47	1.44	56.91	74.00	17.09	166	190	Vertical				



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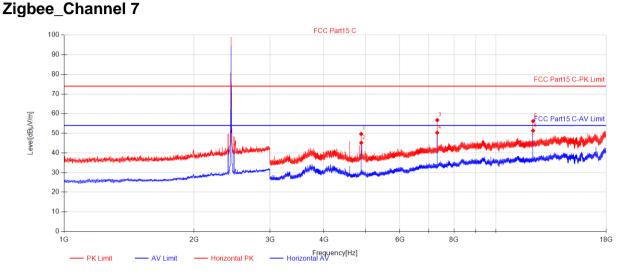
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Final	Final Data List												
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4879	62.64	-12.99	49.65	74.00	24.35	196	211	Horizontal				
2	4879.5	58.13	-12.99	45.14	54.00	8.86	225	211	Horizontal				
3	7318.5	63.87	-7.15	56.72	74.00	17.28	236	105	Horizontal				
4	7319	57.44	-7.15	50.29	54.00	3.71	148	125	Horizontal				
5	12200.5	49.70	1.64	51.34	54.00	2.66	172	0	Horizontal				
6	12202.5	54.56	1.64	56.20	74.00	17.80	201	318	Horizontal				



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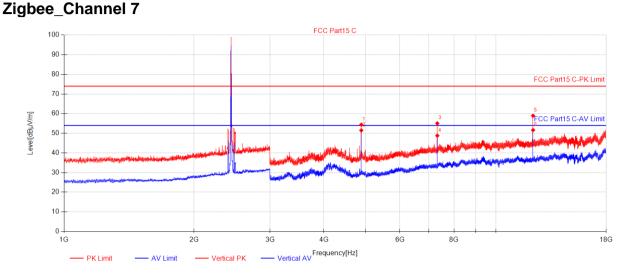
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Final	Final Data List												
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4880	67.35	-12.99	54.36	74.00	19.64	169	271	Vertical				
2	4880.5	64.48	-12.99	51.49	54.00	2.51	198	272	Vertical				
3	7320	62.18	-7.15	55.03	74.00	18.97	175	155	Vertical				
4	7320.5	55.95	-7.15	48.80	54.00	5.20	152	40	Vertical				
5	12197	57.30	1.64	58.94	74.00	15.06	255	208	Vertical				
6	12200.5	50.00	1.64	51.64	54.00	2.36	230	313	Vertical				



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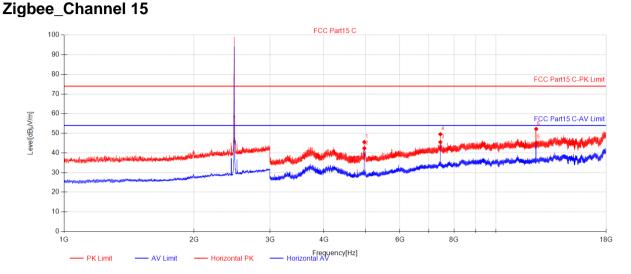
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Final	Final Data List												
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4960	58.34	-12.83	45.51	74.00	28.49	185	169	Horizontal				
2	4960.5	55.19	-12.83	42.36	54.00	11.64	194	169	Horizontal				
3	7440.5	52.33	-6.83	45.50	54.00	8.50	172	189	Horizontal				
4	7441.5	56.37	-6.83	49.54	74.00	24.46	231	104	Horizontal				
5	12400.5	43.67	1.51	45.18	54.00	8.82	166	0	Horizontal				
6	12402.5	50.67	1.53	52.20	74.00	21.80	201	140	Horizontal				



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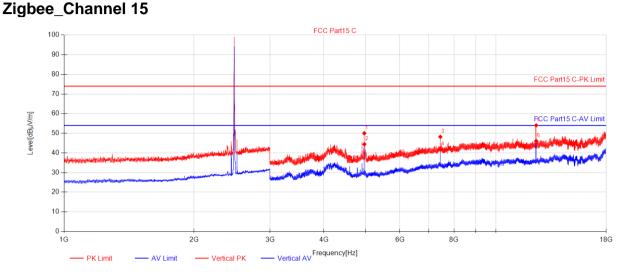
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Final	Final Data List												
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4959	62.87	-12.83	50.04	74.00	23.96	145	253	Vertical				
2	4961.5	57.23	-12.83	44.40	54.00	9.60	196	122	Vertical				
3	7438.5	55.03	-6.84	48.19	74.00	25.81	188	190	Vertical				
4	7440.5	48.59	-6.83	41.76	54.00	12.24	163	148	Vertical				
5	12403	52.51	1.53	54.04	74.00	19.96	271	23	Vertical				
6	12403	44.54	1.53	46.07	54.00	7.93	144	231	Vertical				

Remark:

Level = Reading Level($dB\mu V$) + Factor(dB): Factor = AF(dB/m) + (Cable Factor(dB) - Preamplifer Gain(dB)) AF = Antenna Factor(dB/m) Margin = Limit($dB\mu V/m$) - Level($dB\mu V/m$)



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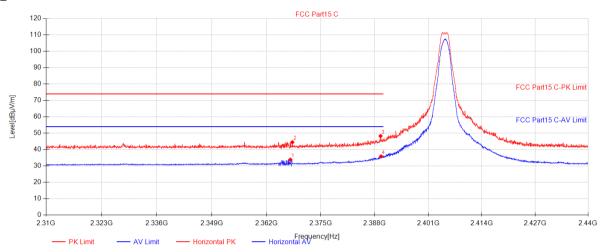
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Restricted bands around fundamental frequency

Zigbee_Channel 0



Final	Final Data List													
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity					
1	2367.72	30.73	3.08	33.81	54.00	20.19	255	163	Horizontal					
2	2368.1967	41.40	3.08	44.48	74.00	29.52	255	163	Horizontal					
3	2389.3867	45.19	3.07	48.26	74.00	25.74	255	163	Horizontal					
4	2389.5167	32.75	3.07	35.82	54.00	18.18	255	163	Horizontal					



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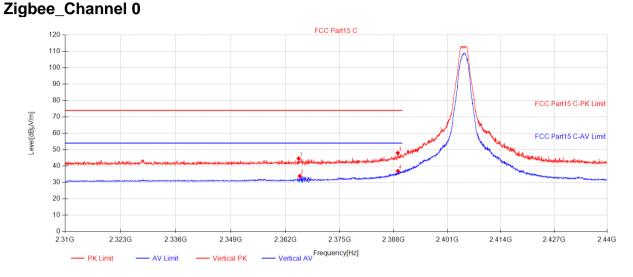
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Final	Final Data List													
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity					
1	2365.1633	41.47	3.08	44.55	74.00	29.45	198	224	Vertical					
2	2365.4233	30.81	3.08	33.89	54.00	20.11	198	224	Vertical					
3	2388.9533	44.92	3.07	47.99	74.00	26.01	198	224	Vertical					
4	2388.9967	33.87	3.07	36.94	54.00	17.06	198	224	Vertical					



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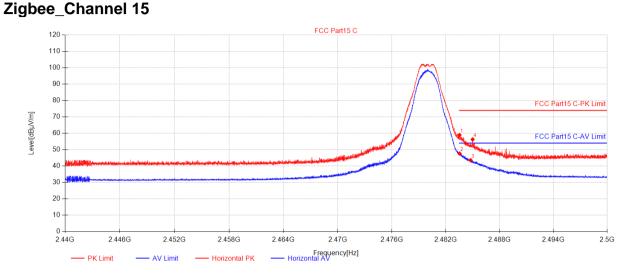
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Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2483.5225	55.35	3.60	58.95	74.00	15.05	196	35	Horizontal		
2	2483.53	44.02	3.60	47.62	54.00	6.38	196	35	Horizontal		
3	2484.76	39.99	3.60	43.59	54.00	10.41	196	35	Horizontal		
4	2484.985	52.67	3.61	56.28	74.00	17.72	196	35	Horizontal		



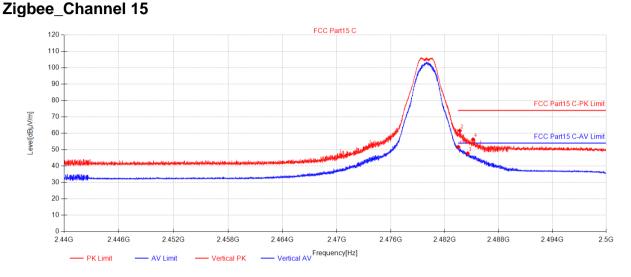
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Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2483.5075	48.06	3.60	51.66	54.00	2.34	132	172	Vertical		
2	2483.6575	58.01	3.60	61.61	74.00	12.39	132	172	Vertical		
3	2484.55	44.12	3.60	47.72	54.00	6.28	132	172	Vertical		
4	2485.15	52.64	3.61	56.25	74.00	17.75	132	172	Vertical		

Remark:

Level = Reading Level($dB\mu V$) + Factor(dB): Factor = AF(dB/m) + Cable Factor(dB) AF = Antenna Factor(dB/m) Margin = Limit($dB\mu V/m$) - Level($dB\mu V/m$)

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