

FCC TEST REPORT

FCC ID: 2AN9Q-THIAMISX

On Behalf of

Netronix Group.INC
Thiamis Embedded Platform
Model No.: Thiamis X module

Prepared for : Netronix Group.INC

Address : 3401 Greys Ferry Avenue Philadelphia,PA 19146

 $\label{eq:Prepared By Shenzhen Alpha Product Testing Co., Ltd.} Prepared By \qquad : \quad Shenzhen Alpha Product Testing Co., Ltd.$

Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,

Shenzhen, Guangdong, China

Report Number : T1871822 08 Date of Receipt : October 16, 2017

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TEST REPORT DECLARATION

Applicant : Netronix Group.INC

Address : 3401 Greys Ferry Avenue Philadelphia,PA 19146

Manufacturer : Netronix Group.INC

Address : 3401 Greys Ferry Avenue Philadelphia,PA 19146

EUT Description : Thiamis Embedded Platform

(A) Model No. : Thiamis X module

(B) Trademark : N/A

Measurement Standard Used:

Date of issue....:

FCC Rules and Regulations Part 15 Subpart C Section 15.247: 2017, ANSI C63.10-2013

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....:

Reak Yang
Project Engineer

Simple Guan
Project Manager

July 02, 2018

Revision History

Revision	Issue Date	Revisions	Revised By
00	July 02, 2018	Initial released Issue	Simple Guan

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Test Item	Test Requirement	Standards Paragraph	Result
Conducted Emission	FCC PART 15:2017	15.207	P
6dB Bandwidth	FCC PART 15:2017	15.247 (a)(2)	P
Output Power	FCC PART 15:2017	15.247 (b)(3)	P
Radiated Spurious Emission	FCC PART 15:2017	15.247 (c)	P
Conducted Spurious & Band Edge Emission	FCC PART 15:2017	15.247 (d)	Р
Power Spectral Density	FCC PART 15:2017	15.247 (e)	P
Radiated Band Edge Emission	FCC PART 15:2017	15.205	Р
Antenna Requirement	FCC PART 15:2017	15.203	P
Note:	1. P is an abbreviation for	or Pass.	
	2. F is an abbreviation f	or Fail.	
	3. N/A is an abbreviatio	n for Not Applicable.	

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Description : Thiamis Embedded Platform

Model Number : Thiamis X module

Diff : N/A

Trademark : N/A

Test Voltage : DC 3.9V from Main Board

Radio

Technology

: IEEE 802.15.4 ZigBee

Operation

: 2405-2480MHz

frequency

Channel No.

: 16 Channels

Modulation type : O-QPSK

Antenna Type : Ceramics Antenna, Maximum Gain is 1.0dBi

Software version : 0C010101

Hardware version : 102

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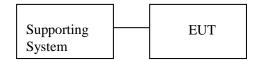
2.2. Accessories of Device (EUT)

Accessory 1 : N/A

2.3.Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or DOC
1	Notebook	ACER	ZQT	N/A	DOC
2.	CC Debugger	TI	CC Debugger	N/A	N/A
3.	Serial board	TI	YP-05	N/A	N/A
4.	Serial board	TI	YP-05	N/A	N/A
5.	Development Board	Netronix	Thiamis X & G Development Board	N/A	N/A
6.	Power Supply	ABT	ABT030120	N/A	N/A

2.4.Block Diagram of connection between EUT and simulators



2.5.Test Mode Description

Tested mode, channel, and data ra	hannel, and data rate information				
Mode	Channel	Frequency (MHz)			
	Low :CH1	2405			
O-QPSK	Middle: CH8	2440			
	High: CH16	2480			

2.6.Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	27℃
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	980kPa

2.7.Test Facility

Shenzhen Alpha Product Testing Co., Ltd Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission

Registration Number: 293961

July 25, 2017 Certificated by IC Registration Number: 12135A

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	2.74dB
Uncertainty for Radiation Emission test in 3m chamber	2.13 dB(Polarize: V)
(below 30MHz)	2.57dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber	3.77dB(Polarize: V)
(30MHz to 1GHz)	3.80dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber	4.16dB(Polarize: H)
(1GHz to 25GHz)	4.13dB(Polarize: V)
Uncertainty for radio frequency	5.4×10-8
Uncertainty for conducted RF Power	0.37dB
Uncertainty for temperature	0.2℃
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

2.9.Test Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Last cal.	Cal. Due day
Spectrum analyzer	Agilent	E4407B	MY49510055	2017.09.23	2018.09.22
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2016.09.30	2018.09.29
Filter	KANGMAI	ZLPF-LDC-10 00- 1959	1209002075	2017.09.22	2018.09.21
Filter	WAINWRIGHT	WHKX2.80 /18G- 12SS	SN1	2017.09.22	2018.09.21
RF Cable	Resenberger	Cable 4	N/A	2017.09.22	2018.09.21
Signal Analyzer	Agilent	N9020A	MY499100060	2017.09.23	2018.09.22
Amplifier	HP	HP8347A	2834A00455	2017.09.23	2018.09.22
Amplifier	Agilent	8449B	3008A02664	2017.09.23	2018.09.22
Filter	WAINWRIGHT	WHKX1.0G/1 5G- 10SS	SN40	2017.09.22	2018.09.21
Test Receiver	ROHDE&SCHWA RZ	ESR	1316.3003K03- 102082-Wa	2017.09.23	2018.09.22
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-438	2016.09.30	2018.09.29
9*6*6 anechoic chamber	CHENYU	9*6*6	N/A	2016.07.21	2020.07.20
RF Cable	Resenberger	Cable 1	N/A	2017.09.22	2018.09.21
RF Cable	Resenberger	Cable 2	N/A	2017.09.22	2018.09.21
RF Cable	Resenberger	Cable 3	N/A	2017.09.28	2018.09.27
Power Sensor	DARE	RPR3006W	15100041SNO91	2017.09.23	2018.09.22
Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2016.09.29	2018.09.28
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170294	2017.02.22	2019.02.21
Preamplifier	SCHWARZBECK	BBV9721	9721-031	2017.09.03	2018.09.02
Attenuator	HP	8494B	DC-18G	2017.10.22	2018.10.23
Spectrum analyzer	ROHDE&SCHWA RZ	FSQ40	200061	2017.12.28	2018.12.27
Power meter	Agilent	E4419B	GB40202122	2017.09.22	2018.09.21
20dB Attenuator	ICPROBING	IATS1	82347	2017.09.22	2018.09.21
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2017.09.22	2018.09.21

3. SPURIOUS EMISSION

3.1.Test Limits

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

NOTE:

- a) The tighter limit applies at the band edges.
- b) Emission Level(dB uV/m)=20log Emission Level(uv/m)

3.2. Test Procedure

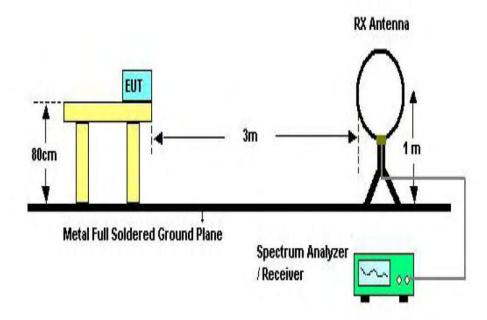
The measuring distance of 3m shall be used for measurements at frequency up to 1GH and above 1GHz, The EUT was placed on a rotating 0.8 m high above ground for below 1GHz and 1.5m high for above 1GHz testing, The table was rotated 360 degrees to determine the position of the highest radiation

The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set of make measurement.

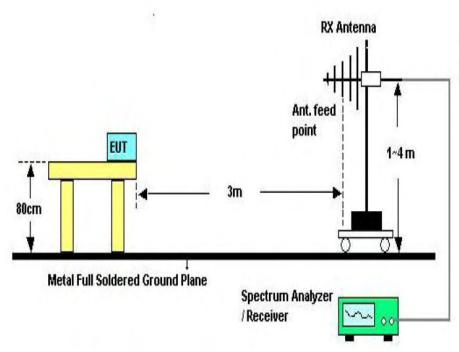
The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then Qusia Peak Detector mode premeasured

If Peak value comply with QP limit Below 1GHz. The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz. For the actual test configuration, please see the test setup photo.

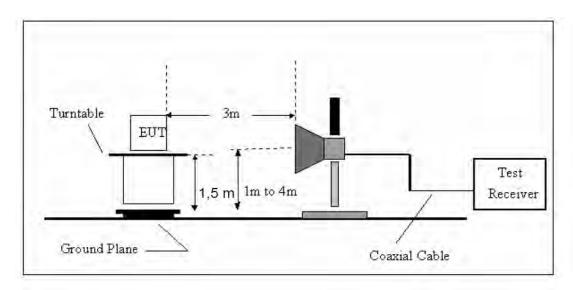
3.3.Test Setup



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

3.4. Test Results

Test Condition

Continual Transmitting in maximum power.

9KHz~150KHz	RBW200Hz	VBW1KHz
150KHz~30MHz	RBW9KHz	VBW 30KHz
30MHZ~1GHz	RBW120KHz	VBW 300KHz
Above1GHz	RBW1MHz	VBW 3MHz

We have scanned the 10th harmonic from 9 kHz to the EUT.

Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

Note: 1.The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

2.Only show the test data of the worst Channel in this report.

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Site LAB Polarization: Vertical Temperature: 23,9
Limit: FCC Part15 Class B Radiation Power: AC 120V/60Hz Humidity: 46 %

EUT: Thiamis Embedded Platform

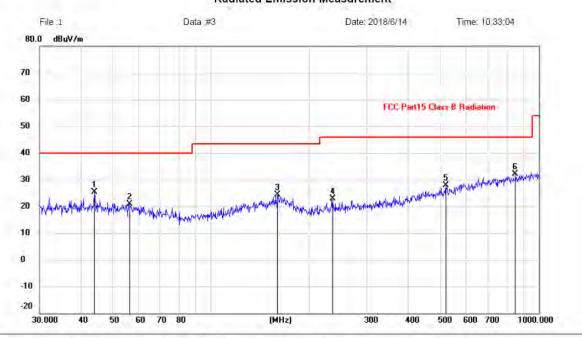
M/N: Thiamis X module Mode: Zigbee 2440

Note:

Engineer Signature:

Radiated Emission Measurement

Distance: 3m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		44.1202	11.57	13.85	25.42	40.00	-14.58	peak			
2	10	56.3948	7.60	13.16	20.76	40.00	-19.24	peak			
3	9.7	160.3456	9.78	14.56	24.34	43.50	-19.16	peak			
4		234.1684	11_03	11.87	22.90	46.00	-23,10	peak			
5		520.8882	9.96	17.92	27.88	46.00	-18.12	peak			
6	*	848.0563	9.39	22.68	32.07	46.00	-13.93	peak			

Report No.: T1871822 08

Site LAB Limit: FCC Part15 Class B Radiation EUT: Thiamis Embedded Platform

M/N: Thiamis X module Mode: Zigbee 2440

Note:

Engineer Signature:

30.000

40

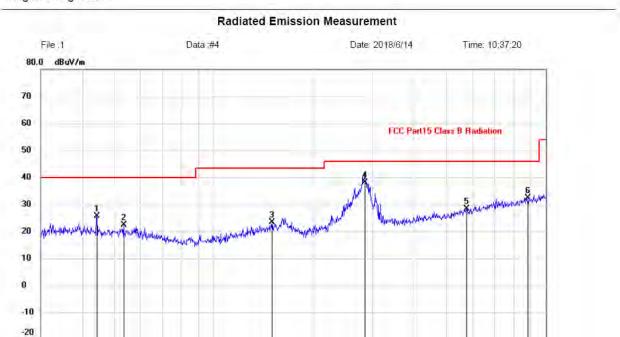
60

70 80

Polarization: Horizontal Power: AC 120V/60Hz

23.9 Temperature: Humidity: 46 %

Distance: 3m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		44.2752	11.73	13.82	25.55	40.00	-14.45	peak			
2		53.3179	8.91	13.44	22.35	40.00	-17.65	peak			
3	1 1	149.4857	8.77	14.52	23.29	43.50	-20.21	peak	0		
4	*	284.9767	24.97	13.04	38.01	46.00	-7.99	QP			
5	1,73	576.6443	9.36	18.99	28.35	46.00	-17.65	peak			
6		887.6099	9.64	22.83	32.47	46.00	-13.53	peak	-		

(MHz)

300

400

500

600 700

1000.000

Note:1. *: Maximum data; x: Over limit; !: over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Notes: Above is below 1GHz test data. This report only shall the worst case mode for TX 2440MHz.

From 1G-25GHz

Test Mo	Test Mode: TX Low								
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4810	43.74	V	33.95	10.18	34.26	53.61	74	20.39	PK
4810	34.43	V	33.95	10.18	34.26	44.30	54	9.70	AV
7215	/		/						
9620	/		/						
4810	43.58	Н	33.95	10.18	34.26	53.45	74	20.55	PK
4810	34.30	Н	33.95	10.18	34.26	44.17	54	9.83	AV
7215									
9620									
Test Mo	ode: TX Mio	d							
4880	41.44	V	33.93	10.2	34.29	51.28	74	22.72	PK
4880	32.31	V	33.93	10.2	34.29	42.15	54	11.85	AV
7320	/								
9760	/								
4880	41.85	Н	33.93	10.2	34.29	51.69	74	22.31	PK
4880	32.42	Н	33.93	10.2	34.29	42.26	54	11.74	AV
7320									
9760									
Test Mo	ode: TX Hig	gh							
4960	42.64	V	33.98	10.22	34.25	52.59	74	21.41	PK
4960	32.53	V	33.98	10.22	34.25	42.48	54	11.52	AV
7440	/								
9920	/								
4960	42.32	Н	33.98	10.22	34.25	52.27	74	21.73	PK
4960	32.29	Н	33.98	10.22	34.25	42.24	54	11.76	AV
7440	/								
9920	/								

Note:

^{1,} Result = Read level + Antenna factor + cable loss-Amp factor 2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

4. POWER LINE CONDUCTED EMISSION

4.1. Test Limits

Frequency	Limits dB(μV)				
MHz	Quasi-peak Level	Average Level			
0.15 -0.50	66 -56*	56 - 46*			
0.50 -5.00	56	46			
5.00 -30.00	60	50			

Notes: 1. *Decreasing linearly with logarithm of frequency.

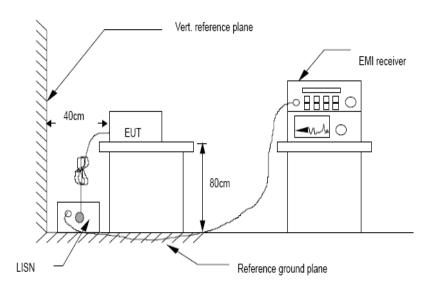
- 2. The lower limit shall apply at the transition frequencies.
- 3. The limit decreases in line with the logarithm of the frequency in rang of 0.15 to 0.50 MHz.

4.2. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10:2013 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9 kHz.

4.3.Test Setup



4.4.Test Results

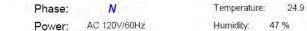
Site LAB Limit: FCC Part 15 CLASS B QP

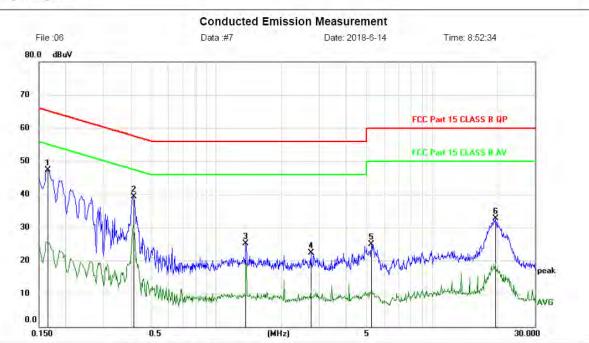
EUT: Thiamis Embedded Platform

M/N: Thiamis X module Mode: Zigbee 2440

Note:

Engineer Signature:





No.	Mk.	Freq.	Level	Factor	Measure- ment	Limit	Margin	1	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1650	37.53	9.73	47.26	65.21	-17.95	peak	
2		0.4140	29.54	9.78	39,32	57.57	-18.25	peak	
3		1.3710	15.33	9.86	25.19	56.00	-30.81	peak	
4		2.7449	12.38	10.02	22.40	56.00	-33.60	peak	
5		5.2440	14.63	10.20	24.83	60.00	-35.17	peak	
6		19.7280	22.12	10.50	32.62	60.00	-27.38	peak	

L1

AC 120V/60Hz

Phase:

Power:

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Temperature:

Humidity:

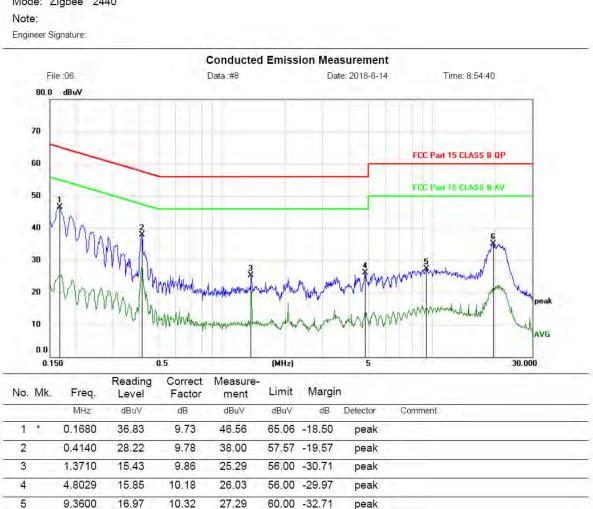
24.9

47 %

Site LAB Limit: FCC Part 15 CLASS B QP

EUT: Thiamis Embedded Platform

M/N: Thiamis X module Mode: Zigbee 2440



24.60

10.48

35.08

19.6290

6

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Remark: All modes and channels have been tested and only listed ZigBee Tx 2440MHz mode that is worst data

60.00 -24.92

peak

^{*:}Maximum data x:Over limit !:over margin

5. CONDUCTED MAXIMUM OUTPUT POWER

5.1.Test limits

Please refer section RSS-247 & 15.247.

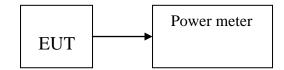
5.2.Test Procedure

Details see the KDB558074 D01 Meas Guidance V04

- 5.2.1 Place the EUT on the table and set it in transmitting mode.
- 5.2.2 Measure out each mode and each bands peak output power of EUT.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

5.3.Test Setup



5.4.Test Results

Channel	Frequency (MHz)	PK Output Power (dBm)	PK Output Power (mW)	Limit (dBm)		
CH1	2405	-1.153	0.767	30		
CH8	2440	-0.953	0.804	30		
CH16	2480	-1.473	0.712	30		
Conclusion: PASS						

6. PEAK POWER SPECTRAL DENSITY

6.1.Test limits

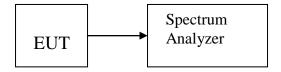
- 6.1.1 Please refer section RSS-247 & 15.247.
- 6.1.2 For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
- 6.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

6.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance V04

- 6.2.1 Place the EUT on the table and set it in transmitting mode.
- 6.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 6.2.3 Set the spectrum analyzer as RBW = 10kHz(Set the RBW to: $3kHz \le RBW \le 100 kHz$.), VBW = 30kHz(Set the VBW $\ge 3 \times RBW$), span= $1.5 \times DTS$ bandwidth., detail see the test plot.
- 6.2.4 Record the max reading.
- 6.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

6.3. Test Setup



6.4. Test Results

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limit (dBm)	Result			
CH1	2405	-10.894	8	PASS			
CH8	2440	-11.369	8	PASS			
CH16	2480	-11.319	8	PASS			
Conclusion: PASS							

CH Low:



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CH Mid:



CH High:



7. BANDWIDTH

7.1.Test limits

Please refer sectionRSS-247 & 15.247

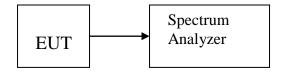
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

7.2.Test Procedure

Details see the KDB558074 D01 Meas Guidance V04

- a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver set RBW = 100kHz, VBW $\geq 3*RBW = 300kHz$, Sweep time set auto, detail see the test plot.

7.3.Test Setup



7.4. Test Results

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
CH1	2405	1.582	0.5	PASS
CH8	2440	1.482	0.5	PASS
CH16	2480	1.432	0.5	PASS

:

CH Low:



CH Mid:



Report No.: T1871822 08

CH High:



8. BAND EDGE CHECK

8.1.Test limits

Please refer section RSS-GEN&15.247.

8.2.Test Procedure

Details see the KDB558074 D01 Meas Guidance V04

- 8.2.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission
- 8.2.2 Check the spurious emissions out of band.
- 8.2.3 RBW 1MHz ,VBW 3MHz ,peak detector for peak value , RBW 1MHz ,VBW 3MHz ,RMS detector for AV value.

8.3.Test Setup

Same as 5.2.2.

8.4. Test Results

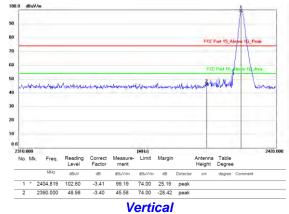
Radiated Test Plots:

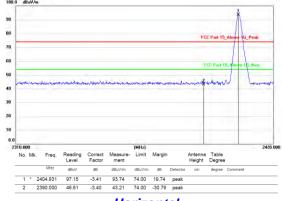
Note:1. *:Maximum data; x:Over limit; !:over margin.

 $2. Measurement = Reading\ Level + Correct\ Factor; Correct\ Factor = Antenna\ Factor + Cable\ Loss.$

O-QPSK

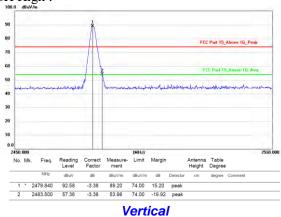
CH LOW:

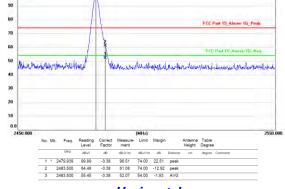




Horizontal

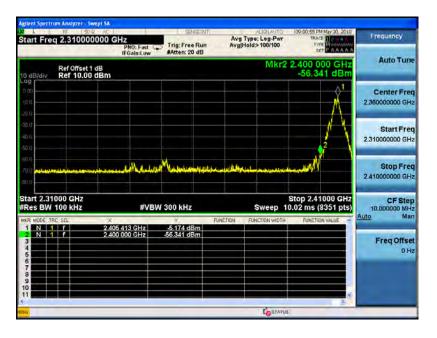
CH High:





Horizontal

Conducted Method: O-QPSK





9. ANTENNA REQUIREMENT

9.1.Standard 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 shall be considered sufficient to comply with the provisions of this Section. 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.

9.2. Antenna Connected Construction

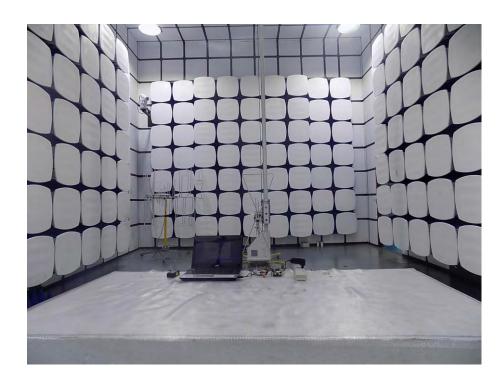
The antenna is Ceramics antenna and no consideration of replacement. Please see EUT photo for details.

9.3.Results

The EUT antenna is Ceramics Antenna. It complies with the standard requirement.

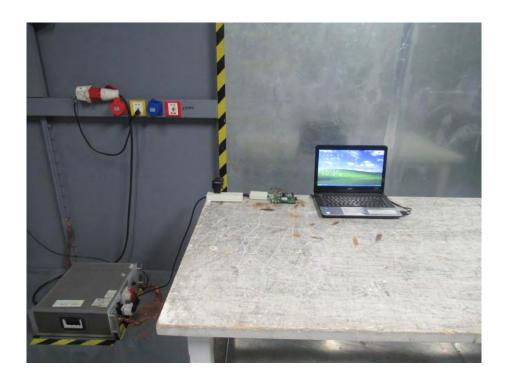
10.TEST SETUP PHOTO

10.1.Photos of Radiated emission

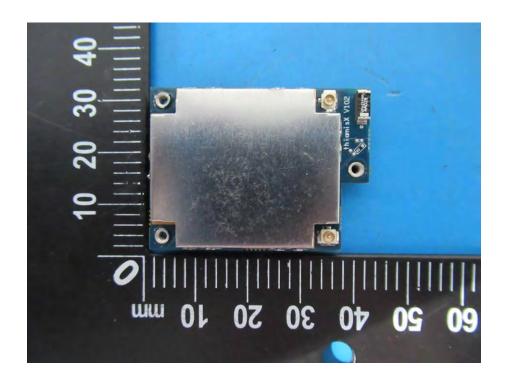


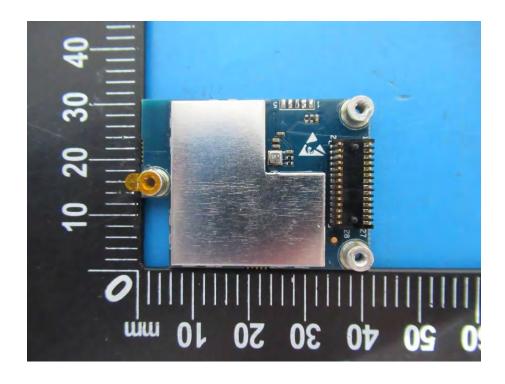


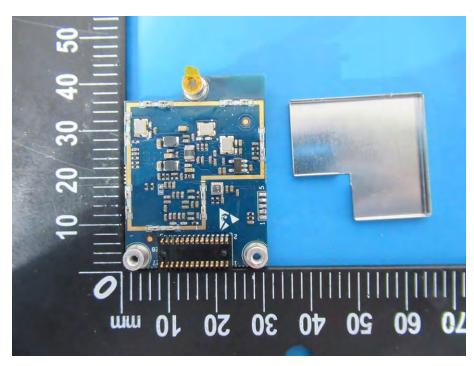
10.2.Photos of Conducted Emission test

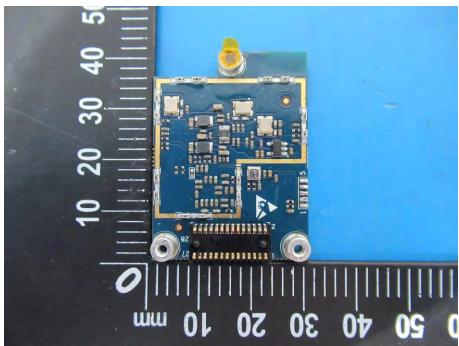


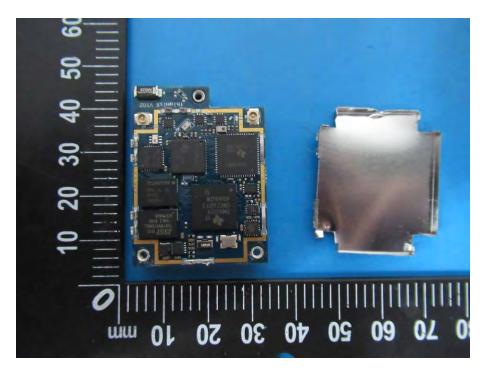
11.TEST SETUP PHOTO

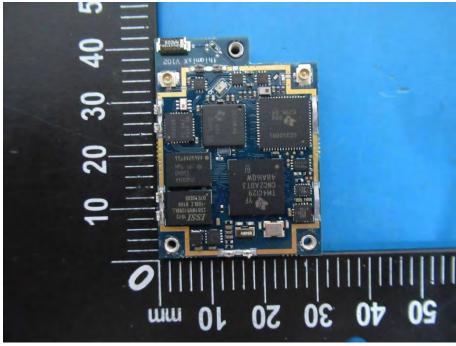












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