

Report No.: SZEM150200068502

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FCC REPORT

Application No: SZEM1502000685CR(GZEM1501000529CR)

Applicant: WOOX Innovations Ltd.

Manufacturer: WOOX Innovations Ltd.

Factory: Arts Electronics Co., Ltd.

Product Name: Smart Home Intelligent Switch

Model No.(EUT): AEH2310/37

Add Model No.: AEH2310/zz, where zz = 00 - 99 (different exported

countries.)
PHILIPS

FCC ID: 2AANUAEH2310

Standards: 47 CFR Part 15, Subpart C (2014)

Date of Receipt: 2015-02-09

Date of Test: 2015-02-11 to 2015-03-05

Date of Issue: 2015-03-23

Test Result: PASS *

Authorized Signature:

Trade Mark:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

^{*} In the configuration tested, the EUT complied with the standards specified above.



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2 Version

	Revision Record					
Version	Chapter	Date	Modifier	Remark		
00		2015-03-23		Original		

Authorized for issue by:		
Tested By	Chros Thong	2015-03-05
	(Chris Zhong) /Project	
	Engineer	Date
Prepared By	Vivi Zhou	2015-03-23
	(Vivi Zhou) /Clerk	Date
Checked By	Emen-Li	2015-03-23
	(Emen Li) /Reviewer	Date



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3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2009	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 (2009)	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	KDB558074 D01 v03r02	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	KDB558074 D01 v03r02	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	KDB558074 D01 v03r02	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01 v03r02	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01 v03r02	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS

Remark:

Model No.: AEH2310/zz, where zz = 00 - 99 (different exported countries.)

Only the Model AEH2310/37 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for all above models. Only different on model No. and exported countries.





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5 General Information

5.1 Client Information

Applicant:	WOOX Innovations Ltd.
Address of Applicant:	5/F., Philips Electronics Building, 5 Science Park East Avenue, Hong Kong Science Park, Shatin, New Territories, Hong Kong
Manufacturer:	WOOX Innovations Ltd.
Address of Manufacturer:	5/F., Philips Electronics Building, 5 Science Park East Avenue, Hong Kong Science Park, Shatin, New Territories, Hong Kong
Factory:	Arts Electronics Co., Ltd.
Address of Factory:	No. 1, SHANGXING LU, SHANGJIAO COMMUNITY, CHANGAN TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

5.2 General Description of EUT

Product Name:	Smart Home Intelligent Switch
Model No.:	AEH2310/37
Trade Mark:	PHILIPS
Wireless technology	Zigbee
Operating Frequency:	2405~2475MHz
Modulation Type:	DSSS(O-QPSK)
Number of Channel:	15
Sample Type:	Portable production
Antenna Type:	Integral
Antenna Gain:	0.5dBi
Test power grade	ClassII (manufacturer declare)
Test software of EUT	Hyperterminal (manufacturer declare)
EUT Function:	Smart Home Intelligent Switch
Test Voltage:	AC 120V 60Hz



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

Note:

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	2405MHz
The Middle channel	2440MHz
The Highest channel	2475MHz



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5.3 Test Environment

Operating Environment:			
Temperature:	20.0 °C		
Humidity:	50 % RH		
Atmospheric Pressure:	1020mbar		

5.4 Description of Support Units

The EUT has been tested independent unit.

5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



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5.6 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 10m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



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5.10 Equipment List

	RE in Chamber				
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2015-06-10
2	EMI Test Receiver	Agilent Technologies	N9038A	SEL0312	2015-09-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	Coaxial cable	SGS	N/A	SEL0028	2015-05-29
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0014	2015-10-24
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2015-05-16
7	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2015-10-24
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2015-10-24
9	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2015-10-24
10	Band filter	Amindeon	Asi 3314	SEL0094	2015-05-16
11	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2015-10-24



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	RF connected test				
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2015-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2015-10-24
4	Coaxial cable	SGS	N/A	SEL0178	2015-05-29
5	Coaxial cable	SGS	N/A	SEL0179	2015-05-29
6	Barometer	ChangChun	DYM3	SEL0088	2015-05-16
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2015-05-16
8	Band filter	amideon	82346	SEL0094	2015-05-16
9	POWER METER	R&S	NRVS	SEL0144	2015-10-24
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2015-05-16
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2015-10-24

Note: The calibration interval is one year, all the instruments are valid.



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6 Test results and Measurement Data

6.1 Antenna Requirement

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

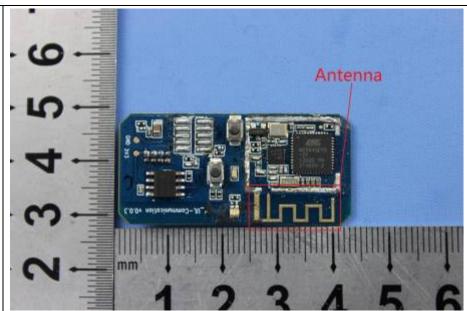
15.203 requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:



The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.5dBi.



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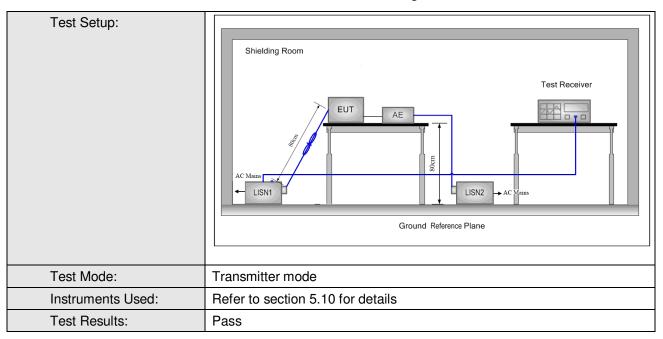
6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2009				
Test Frequency Range:	150kHz to 30MHz				
Limit:	Fueron and the Alley	Limit (dBuV)			
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	56 to 46*			
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithn	n of the frequency.			
Test Procedure:	0.5-5 56 46				



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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.

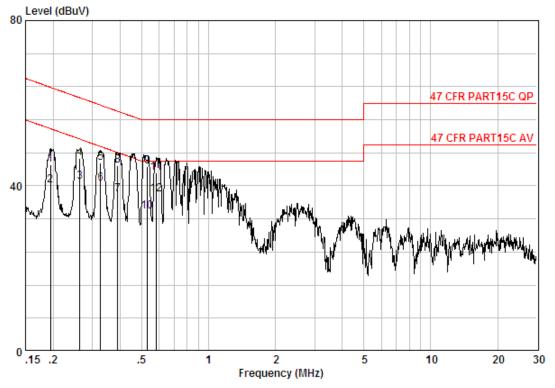




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Live Line:



Site : Shielding Room

Condition : 47 CFR PART15C QP CE LINE

Job No. : 0685CR Test mode : TX mode

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19447	0.02	9.70	35.33	45.05	63.84	-18.79	QP
2	0.19447	0.02	9.70	30.30	40.02	53.84	-13.82	Average
3	0.26303	0.02	9.70	31.19	40.90	51.34	-10.43	Average
4	0.26303	0.02	9.70	36.98	46.70	61.34	-14.64	QP
5	0.32685	0.01	9.73	35.81	45.55	59.53	-13.98	QP
6	0.32685	0.01	9.73	30.77	40.51	49.53	-9.02	Average
7	0.38929	0.01	9.79	28.19	37.99	48.08	-10.09	Average
8	0.38929	0.01	9.79	35.10	44.90	58.08	-13.18	QP
9	0.53200	0.01	9.80	34.80	44.61	56.00	-11.39	QP
10	0.53200	0.01	9.80	24.00	33.81	46.00	-12.19	Average
11	0.57923	0.01	9.80	33.44	43.25	56.00	-12.75	QP
12 @	0.57923	0.01	9.80	28.01	37.83	46.00	-8.17	Average

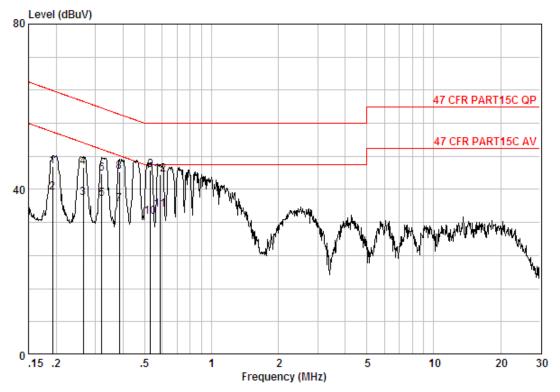
[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



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Neutral Line:



Site : Shielding Room

Condition : 47 CFR PART15C QP CE NEUTRAL

Job No. : 0685CR Test mode : TX mode

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19242	0.02	9.70	35.86	45.58	63.93	-18.35	QP
2	0.19242	0.02	9.70	29.51	39.23	53.93	-14.70	Average
3	0.26442	0.01	9.70	28.32	38.03	51.29	-13.26	Average
4	0.26442	0.01	9.70	35.69	45.40	61.29	-15.89	QP
5	0.31999	0.01	9.72	27.94	37.67	49.71	-12.04	Average
6	0.31999	0.01	9.72	34.13	43.86	59.71	-15.84	QP
7	0.38519	0.01	9.79	26.52	36.31	48.17	-11.85	Average
8	0.38519	0.01	9.79	34.49	44.29	58.17	-13.88	QP
9	0.53200	0.01	9.80	34.90	44.71	56.00	-11.29	QP
10	0.53200	0.01	9.80	23.60	33.41	46.00	-12.59	Average
11	0.58851	0.01	9.80	25.24	35.05	46.00	-10.95	Average
12	0.58851	0.01	9.80	33.72	43.54	56.00	-12.46	QP

Notes:

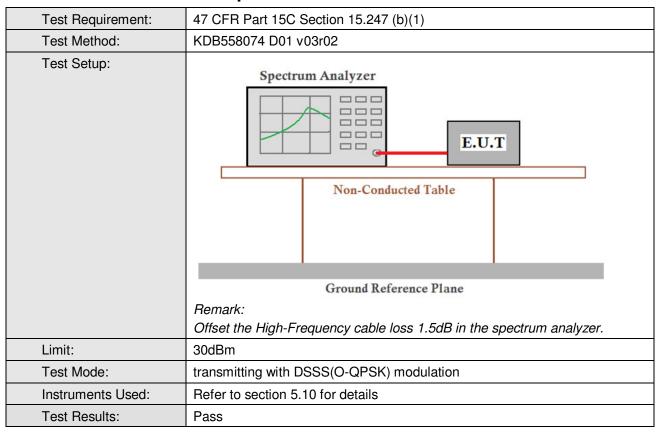
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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6.3 Conducted Peak Output Power



Measurement Data

_	Mododiomont Bata			
		DSSS(O-QPSK)	mode	
	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
	Lowest	3.99	30.00	Pass
	Middle	2.85	30.00	Pass
	Highest	1.69	30.00	Pass

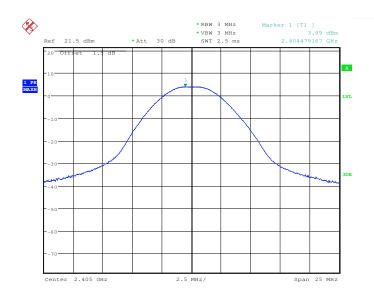


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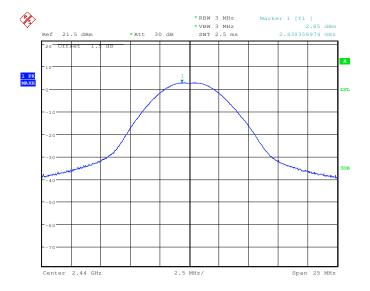
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Test plot as follows:

Test mode: DSSS(O-QPSK) Test channel: Lowest



Test mode: DSSS(O-QPSK) Test channel: Middle

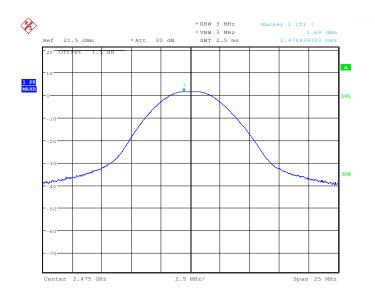




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Test mode: DSSS(O-QPSK) Test channel: Highest

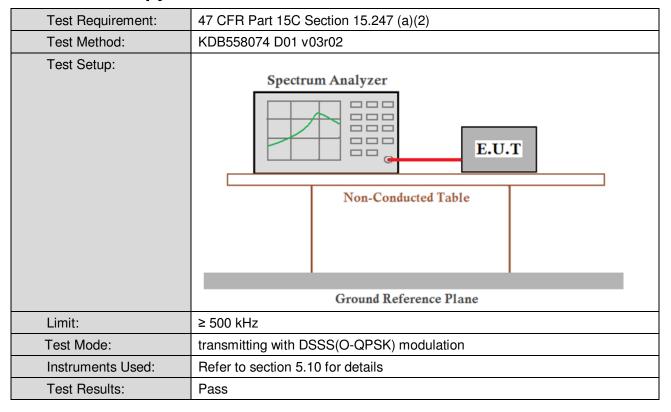




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6.4 6dB Occupy Bandwidth



Measurement Data

Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	1.330	≥500	Pass
Middle	1.514	≥500	Pass
Highest	1.643	≥500	Pass

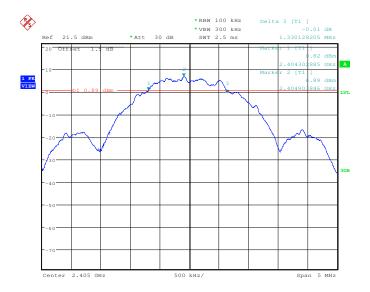


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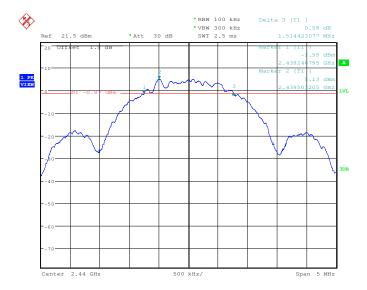
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Test plot as follows:

Test mode: DSSS(O-QPSK) Test channel: Lowest



Test mode: DSSS(O-QPSK) Test channel: Middle

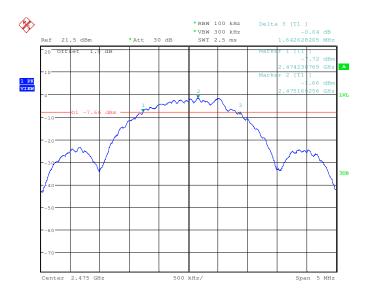




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Test mode: DSSS(O-QPSK) Test channel: Highest

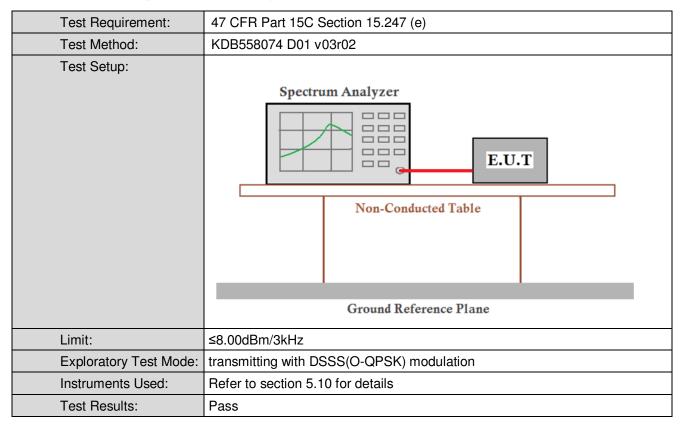




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6.5 Power Spectral Density



Measurement Data

DSSS(O-QPSK) mode				
Test channel	Power Spectral Density (dBm/3kHz)	Limit (8dBm/3kHz)	Result	
Lowest	-2.89	≤8.00	Pass	
Middle	-4.15	≤8.00	Pass	
Highest	-1.80	≤8.00	Pass	

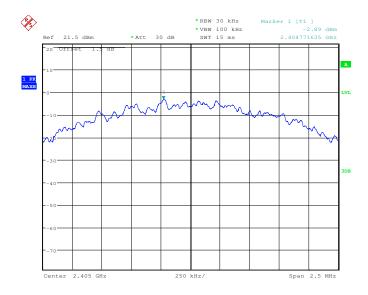


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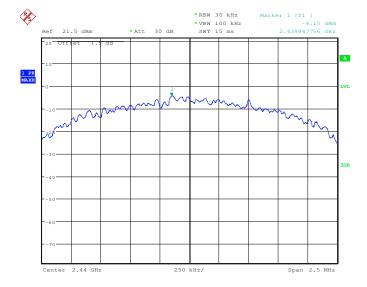
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Test plot as follows:

Test mode: DSSS(O-QPSK) Test channel: Lowest



Test mode: DSSS(O-QPSK) Test channel: Middle



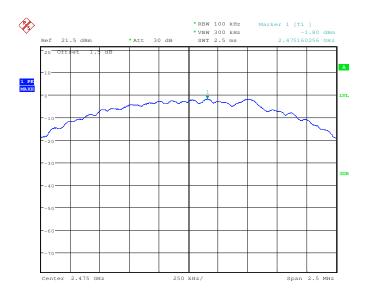




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Test mode: DSSS(O-QPSK) Test channel: Highest

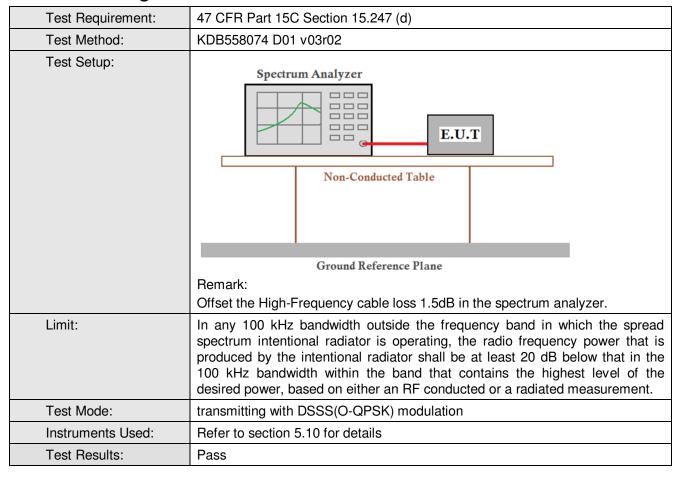




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6.6 Band-edge for RF Conducted Emissions



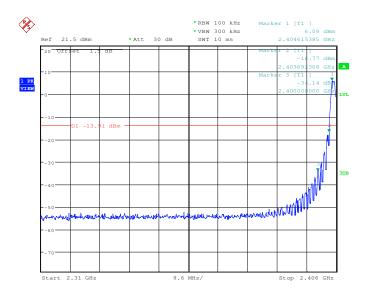


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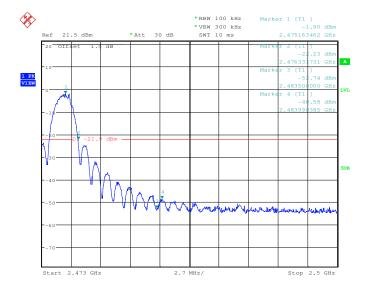
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Test plot as follows:

Test mode: DSSS(O-QPSK) Test channel: Lowest



Test mode: DSSS(O-QPSK) Test channel: Highest





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6.7 Spurious RF Conducted Emissions

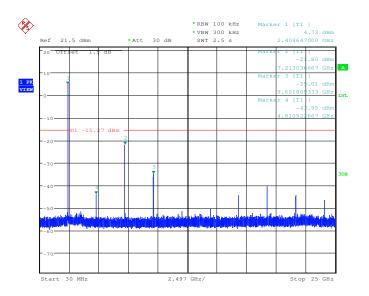
Test Requirement:	47 CFR Part 15C Section 15.247 (d)		
Test Method:	KDB558074 D01 v03r02		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.		
Test Mode:	transmitting with DSSS(O-QPSK) modulation		
Instruments Used:	Refer to section 5.10 for details		
Test Results:	Pass		

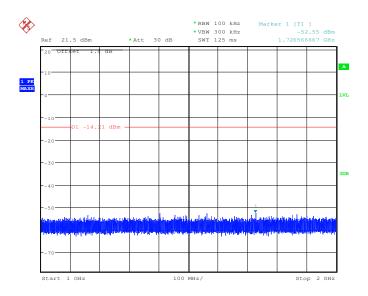


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Test mode: DSSS(O-QPSK) Test channel: Lowest

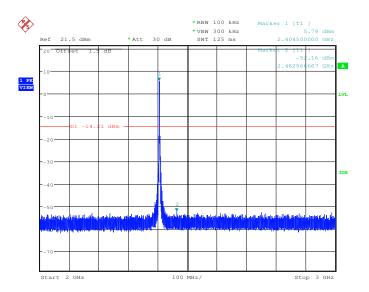


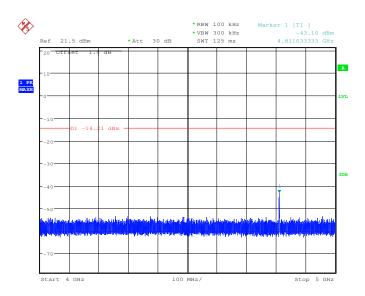




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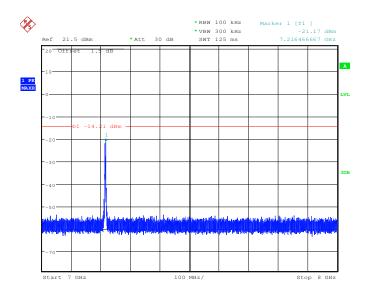


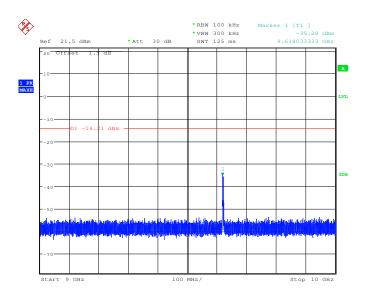




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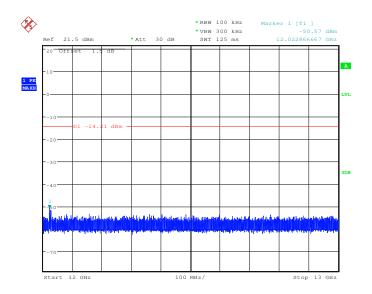






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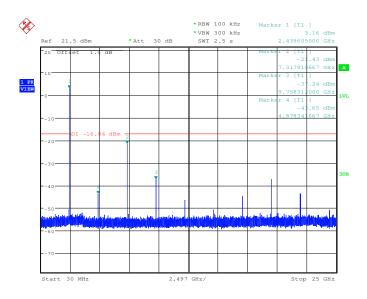


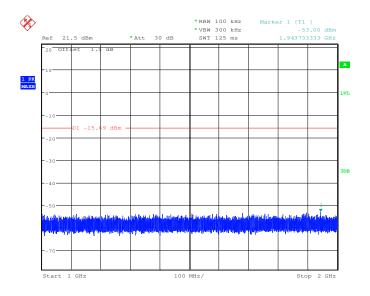


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Test mode: DSSS(O-QPSK) Test channel: Middle

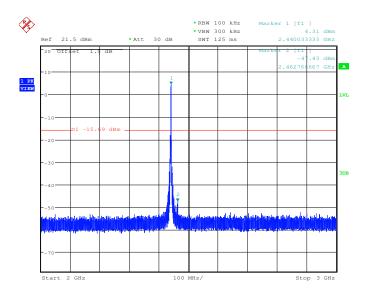


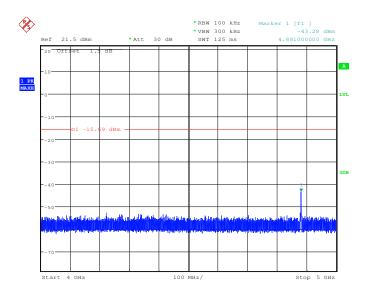




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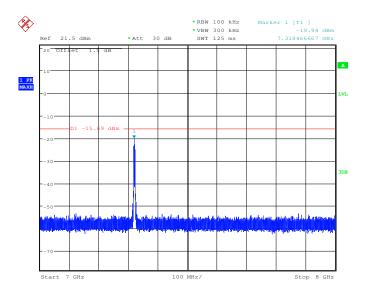


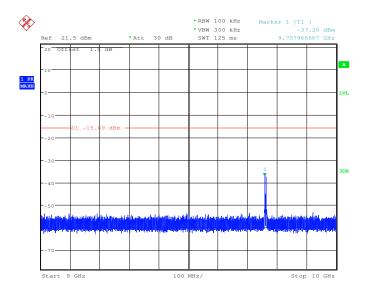




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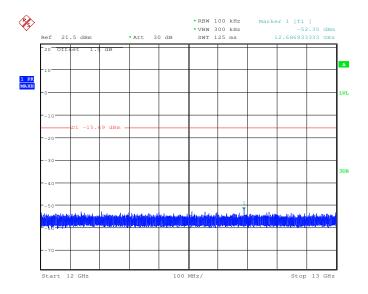






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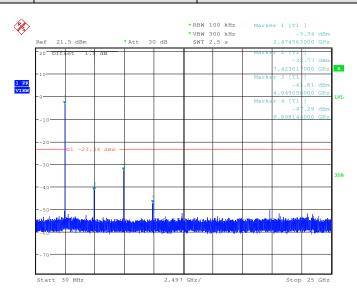


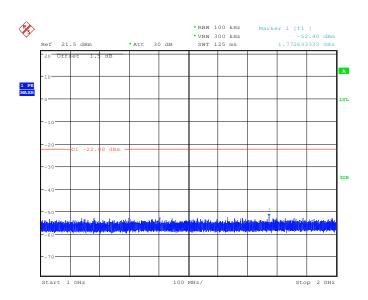


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Test mode: DSSS(O-QPSK) Test channel: Highest

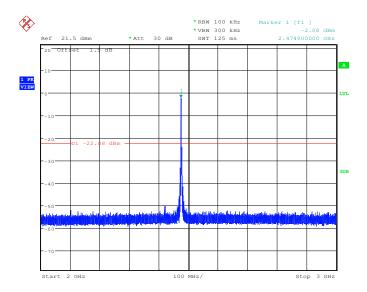


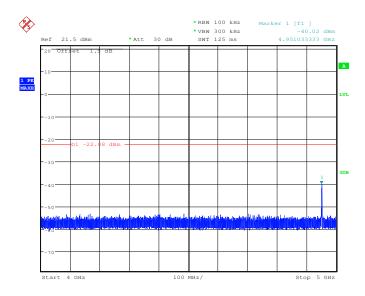




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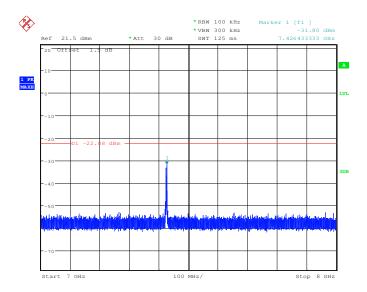






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Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



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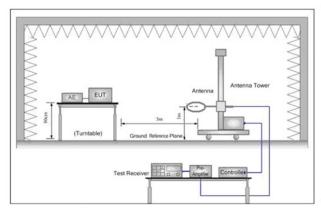
6.8 Radiated Spurious Emission

6.8.1 Spurious Emiss	ions									
Test Requirement:	47 CFR Part 15C Section	on 1	5.209 and 15	.205						
Test Method:	ANSI C63.10 2009									
Test Site:	Measurement Distance	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver Setup:	Frequency		Detector	RBW		VBW	Remark			
	0.009MHz-0.090MH	Z	Peak	10kHz	2	30kHz	Peak			
	0.009MHz-0.090MH	Z	Average	10kHz	2	30kHz	Average			
	0.090MHz-0.110MH	Z	Quasi-peak	10kHz	2	30kHz	Quasi-peak			
	0.110MHz-0.490MH	Z	Peak	10kHz	<u> </u>	30kHz	Peak			
	0.110MHz-0.490MH	Z	Average	10kHz	<u> </u>	30kHz	Average			
	0.490MHz -30MHz		Quasi-peak	10kHz	<u> </u>	30kHz	Quasi-peak			
	30MHz-1GHz		Quasi-peak	100 kH	lz	300kHz	Quasi-peak			
	Above 1GHz		Peak	1MHz	<u>.</u>	3MHz	Peak			
	Above IGH2		Peak	1MHz	<u>.</u>	10Hz	Average			
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)		Remark	Measuremen distance (m)			
	0.009MHz-0.490MHz	2	400/F(kHz)	-		-	300			
	0.490MHz-1.705MHz	24	1000/F(kHz)	-		-	30			
	1.705MHz-30MHz		30	-		-	30			
	30MHz-88MHz		100	40.0	Q	uasi-peak	3			
	88MHz-216MHz		150	43.5	Q	uasi-peak	3			
	216MHz-960MHz		200	46.0	Q	uasi-peak	3			
	960MHz-1GHz		500	54.0	Q	uasi-peak	3			
	Above 1GHz		500	54.0		Average	3			
	Note: 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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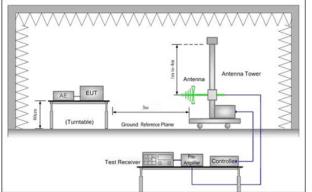


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

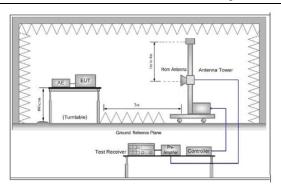


Figure 3. Above 1 GHz

Test Procedure:

- a. The EUT was placed on the top of a rotating table 0.8 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel (2405MHz),the middle channel (2440MHz),the Highest channel (2475MHz)
- 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



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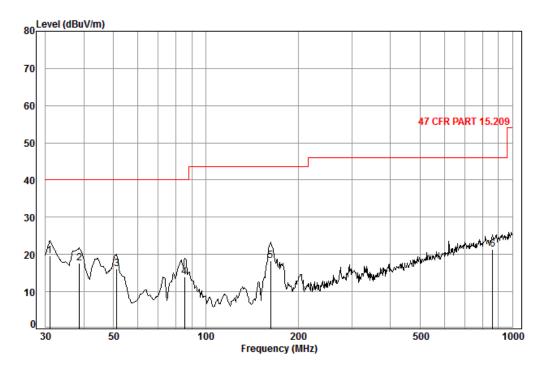
	case. i. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Transmitting with DSSS(O-QPSK) modulation Transmitting mode
	For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



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Radiated Emission below 1GHz							
30MHz~1GHz (QP)							
Test mode: Transmitting Vertical							



Condition: 47 CFR PART 15.209 3m 3142C Vertical

Job No. : 0685CR Test mode: TX mode

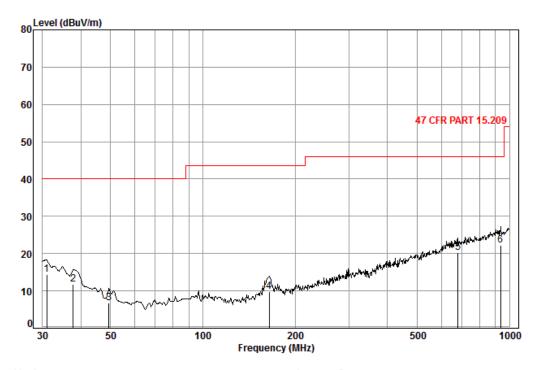
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz .	dB	dB/m	——dB		dBuV/m	dD: 3//	dB
	нпΖ	ub	ub/m	ub	ubuv	ubuv/III	ubuv/m	ub
3	0.96	0.60	18.16	27.35	28.27	19.68	40.00	-20.32
3	8.75	0.60	13.80	27.32	30.62	17.70	40.00	-22.30
5	1.30	0.80	8.50	27.29	34.04	16.05	40.00	-23.95
8	35.30	1.10	8.23	27.22	31.80	13.91	40.00	-26.09
16	2.61	1.34	9.57	26.85	34.18	18.24	43.50	-25.26
86	3.06	3.46	22.71	26.96	22.16	21.37	46.00	-24.63



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Test mode: Transmitting Horizontal



Condition: 47 CFR PART 15.209 3m 3142C Horizontal

Job No. : 0685CR Test mode: TX mode

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.96	0.60	18.16	27.35	22.98	14.39	40.00	-25.61	
2	37.81	0.60	14.33	27.33	24.15	11.75	40.00	-28.25	
3	49.36	0.79	8.98	27.29	24.20	6.68	40.00	-33.32	
4	164.91	1.34	9.55	26.84	25.86	9.91	43.50	-33.59	
5	679.96	2.86	21.44	27.43	23.33	20.20	46.00	-25.80	
6	935 55	3 64	23 30	26 61	21 91	22 24	16 00	-23 76	





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Transmitte	Transmitter Emission above 1GHz								
Test mode:		DSSS(O- QPSK)	Те	st channel:	Lowest		Rema	rk:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)		t Line uV/m)	Over Limit (dB)	Polarization
3537.998	6.95	32.93	38.76	48.53	49.65	7	74	-24.35	Vertical
4810.000	6.43	34.71	39.24	53.71	55.61	7	74	-18.39	Vertical
6069.413	8.06	36.22	39.18	49.78	54.88	1	74	-19.12	Vertical
7215.000	8.93	35.62	39.07	56.06	61.54	1	74	-12.46	Vertical
9620.000	9.98	37.36	37.93	50.22	59.63	7	74	-14.37	Vertical
10842.530	10.19	37.96	38.14	44.95	54.96	7	74	-19.04	Vertical
3641.878	6.89	33.03	38.80	49.31	50.43	1	74	-23.57	Horizontal
4810.000	6.43	34.71	39.24	50.18	52.08	7	74	-21.92	Horizontal
6034.386	8.07	36.26	39.18	50.13	55.28	7	74	-18.72	Horizontal
7215.000	8.93	35.62	39.07	50.21	55.69	7	74	-18.31	Horizontal
9620.000	9.98	37.36	37.93	52.75	62.16	7	74	-11.84	Horizontal
11588.750	10.43	38.29	38.51	45.56	55.77	7	74	-18.23	Horizontal

Test mode:		DSSS(O- QPSK)	Test	channel:	Lowest		Rema	rk:	Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)		mit lV/m)	Over limit (dB)	Polarization
3537.998	6.95	32.93	38.76	38.65	39.77	5	4	-14.23	Vertical
4810.000	6.43	34.71	39.24	44.26	46.16	5	4	-7.84	Vertical
6069.413	8.06	36.22	39.18	40.03	45.13	5	4	-8.87	Vertical
7215.000	8.93	35.62	39.07	44.25	49.73	7	4	-24.27	Vertical
9620.000	9.98	37.36	37.93	39.70	49.11	7	4	-24.89	Vertical
10842.530	10.19	37.96	38.14	35.19	45.20	5	4	-8.80	Vertical
3641.878	6.89	33.03	38.80	38.69	39.81	5	4	-14.19	Horizontal
4810.000	6.43	34.71	39.24	41.02	42.92	5	4	-11.08	Horizontal
6034.386	8.07	36.26	39.18	41.21	46.36	5	4	-7.64	Horizontal
7215.000	8.93	35.62	39.07	40.90	46.38	5	4	-7.62	Horizontal
9620.000	9.98	37.36	37.93	41.39	50.80	7	4	-23.20	Horizontal
11588.750	10.43	38.29	38.51	36.25	46.46	5	4	-7.54	Horizontal



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Test mode:		DSSS(O- QPSK)	Test	channel:	Middle		Remark:		Peak
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)		mit .V/m)	Over limit (dB)	Polarization
3652.432	6.88	33.04	38.81	48.21	49.32	7	4	-24.68	Vertical
4880.000	6.58	34.78	39.26	52.68	54.78	7	4	-19.22	Vertical
5964.939	8.03	36.23	39.19	49.11	54.18	7	4	-19.82	Vertical
7320.000	9.07	35.51	39.06	56.49	62.01	7	4	-11.99	Vertical
9760.000	9.90	37.80	37.84	46.94	56.80	7	4	-17.20	Vertical
11723.670	10.49	38.43	38.57	46.12	56.47	7	4	-17.53	Vertical
3737.975	6.83	33.10	38.84	48.20	49.29	7	4	-24.71	Horizontal
4880.000	6.58	34.78	39.26	47.81	49.91	7	4	-24.09	Horizontal
5930.516	7.97	36.17	39.19	48.44	53.39	7	4	-20.61	Horizontal
7320.000	9.07	35.51	39.06	54.50	60.02	7	4	-13.98	Horizontal
9760.000	9.90	37.80	37.84	47.19	57.05	7	4	-16.95	Horizontal
11389.270	10.37	38.15	38.41	44.44	54.55	7	4	-19.45	Horizontal

Test mode:		DSSS(O- QPSK)	Test	channel:	Middle	Remark:		Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/n	Over limit (dB)	Polarization
3652.432	6.88	33.04	38.81	38.02	39.13	54	-14.87	Vertical
4880.000	6.58	34.78	39.26	41.23	43.33	54	-10.67	Vertical
5964.939	8.03	36.23	39.19	38.56	43.63	54	-10.37	Vertical
7320.000	9.07	35.51	39.06	44.01	49.53	74	-24.47	Vertical
9760.000	9.90	37.80	37.84	35.69	45.55	54	-8.45	Vertical
11723.670	10.49	38.43	38.57	36.01	46.36	54	-7.64	Vertical
3737.975	6.83	33.10	38.84	36.59	37.68	54	-16.32	Horizontal
4880.000	6.58	34.78	39.26	36.89	38.99	54	-15.01	Horizontal
5930.516	7.97	36.17	39.19	38.12	43.07	54	-10.93	Horizontal
7320.000	9.07	35.51	39.06	44.30	49.82	74	-24.18	Horizontal
9760.000	9.90	37.80	37.84	36.59	46.45	54	-7.55	Horizontal
11389.270	10.37	38.15	38.41	33.64	43.75	54	-10.25	Horizontal



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Test mode:		DSSS(O- QPSK)	Tes	t channel:	Highest		Remark:		Peak
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)		mit ιV/m)	Over limit (dB)	Polarization
3657.721	6.88	33.04	38.81	48.18	49.29	7	7 4	-24.71	Vertical
4950.000	6.73	34.85	39.28	52.48	54.78	7	7 4	-19.22	Vertical
5964.939	8.03	36.23	39.19	50.11	55.18	7	⁷ 4	-18.82	Vertical
7425.000	9.21	35.43	39.05	53.72	59.31	7	⁷ 4	-14.69	Vertical
9900.000	9.82	38.21	37.76	45.27	55.54	7	⁷ 4	-18.46	Vertical
11356.360	10.36	38.14	38.40	44.86	54.96	7	⁷ 4	-19.04	Vertical
3631.354	6.89	33.02	38.80	48.70	49.81	7	⁷ 4	-24.19	Horizontal
4950.000	6.73	34.85	39.28	52.80	55.10	7	⁷ 4	-18.90	Horizontal
5964.939	8.03	36.23	39.19	49.77	54.84	7	7 4	-19.16	Horizontal
7425.000	9.21	35.43	39.05	53.49	59.08	7	7 4	-14.92	Horizontal
9900.000	9.82	38.21	37.76	46.24	56.51	7	7 4	-17.49	Horizontal
11622.330	10.44	38.32	38.52	46.46	56.70	7	⁷ 4	-17.30	Horizontal

Test mode:		DSSS(O- QPSK)	Tes	t channel:	Highest		Remark:		Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)		mit ιV/m)	Over limit (dB)	Polarization
3657.721	6.88	33.04	38.81	37.65	38.76	5	54	-15.24	Vertical
4950.000	6.73	34.85	39.28	42.65	44.95	5	54	-9.05	Vertical
5964.939	8.03	36.23	39.19	40.12	45.19	5	54	-8.81	Vertical
7425.000	9.21	35.43	39.05	44.21	49.80	5	54	-4.20	Vertical
9900.000	9.82	38.21	37.76	35.69	45.96	5	54	-8.04	Vertical
11356.360	10.36	38.14	38.40	35.21	45.31	5	54	-8.69	Vertical
3631.354	6.89	33.02	38.80	37.57	38.68	5	54	-15.32	Horizontal
4950.000	6.73	34.85	39.28	42.09	44.39	5	54	-9.61	Horizontal
5964.939	8.03	36.23	39.19	38.96	44.03	5	54	-9.97	Horizontal
7425.000	9.21	35.43	39.05	42.99	48.58	7	7 4	-25.42	Horizontal
9900.000	9.82	38.21	37.76	36.53	46.80	5	54	-7.20	Horizontal
11622.330	10.44	38.32	38.52	37.26	47.50	5	54	-6.50	Horizontal



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Remark:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

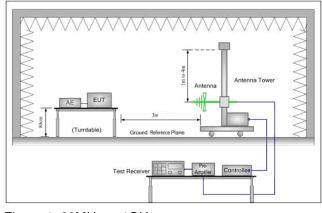


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6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205										
Test Method:	ANSI C63.10 2009	ANSI C63.10 2009									
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Chambe	r)								
Limit:	Frequency	Limit (dBuV/m @3m)	Remark								
	30MHz-88MHz	40.0	Quasi-peak Value								
	88MHz-216MHz	43.5	Quasi-peak Value								
	216MHz-960MHz	46.0	Quasi-peak Value								
	960MHz-1GHz	54.0	Quasi-peak Value								
	Above 1CUz	54.0	Average Value								
	Above 1GHz 74.0 Peak Value										
Test Setup:											



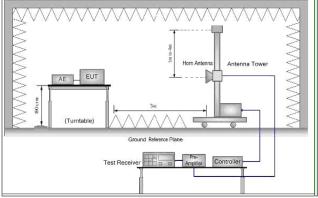


Figure 1. 30MHz to 1GHz	Figure 2. Above 1 GHz
Test Procedure:	a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	 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.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot.

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channel

Repeat for each power and modulation for lowest and highest



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	 g. Test the EUT in the lowest 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.
Test Mode:	Transmitting with DSSS(O-QPSK) modulation Transmitting mode
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

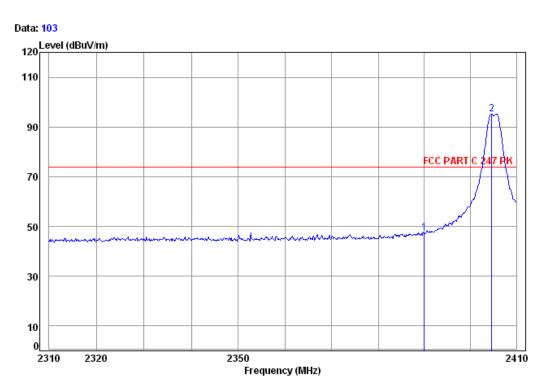


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Test plot as follows:

Restricted bands around fundamental frequency								
Test mode:	Transmitting	Test channel:	Lowest	Remark:	Peak	Vertical		



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 0685CR

Mode: : 2405 Band edge

Cable Ant Preamp Read Limit 0∨er Freq Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dΒ dB/m dΒ dΒ 2390.00 4.90 32.35 38.46 48.60 47.39 74.00 -26.61 2404.59 32.41 38.46 96.35 95.22 74.00 21.22 4.92

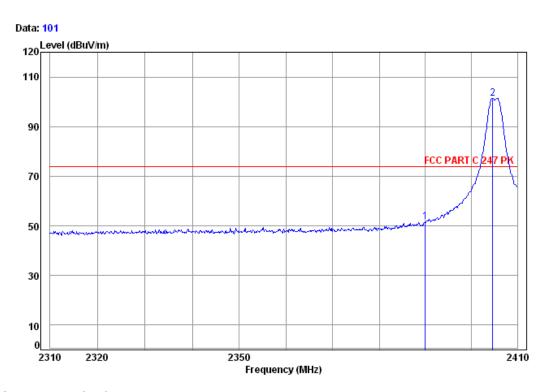
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Test mode: Transmitting Test channel: Lowest Remark: Peak Horizontal



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Cable

Job No: : 0685CR

Mode: : 2405 Band edge

	Freq	LOSS	Factor	Factor	rever	rever	Line	Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	2390.00 2404.59							

Read

Limit

0ver

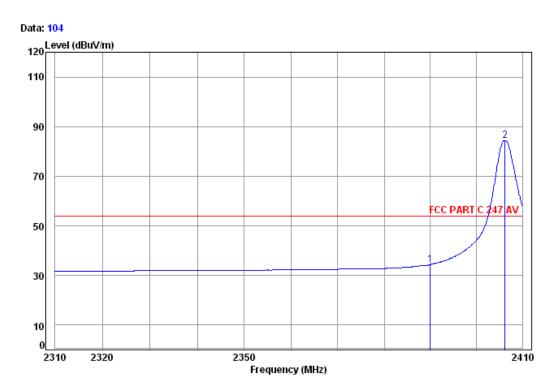
Ant Preamp



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Test mode:	Transmitting	Test channel:	Lowest	Remark:	Average	Vertical



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 0685CR

Mode: : 2405 Band edge

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 pp	2390.00 2406.22							

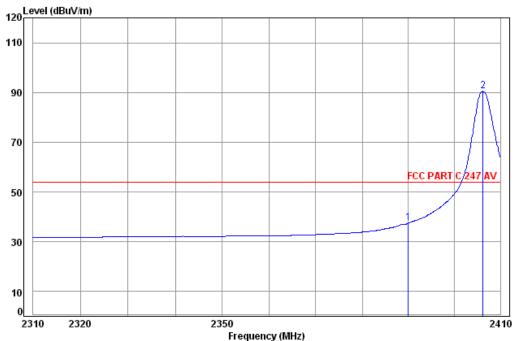


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Test mode: Transmitting Test channel: Lowest Remark: Average Horizontal





Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 0685CR

Mode: : 2405 Band edge

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 pp	2390.00 2406.22							

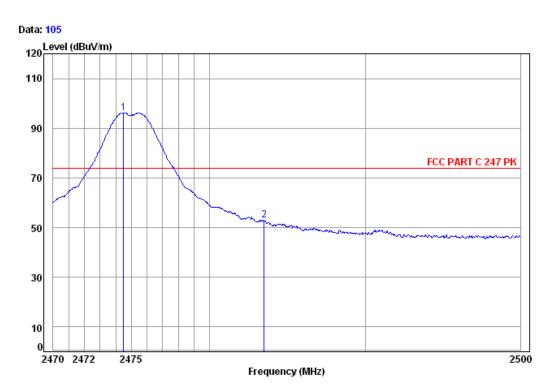




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Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak	Vertical
TOSE IIIOGO.	Transmitting	rest charmer.	riigiicat	ricilian.	i can	VCHICAI



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 0685CR

Mode: : 2475 Band edge

Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dΒ dB/m dΒ dΒ 1 pp 2474.51 5.02 32.44 38.46 97.14 96.14 74.00 22.14 2483.50 5.03 32.44 38.47 53.93 52.93 74.00 -21.07

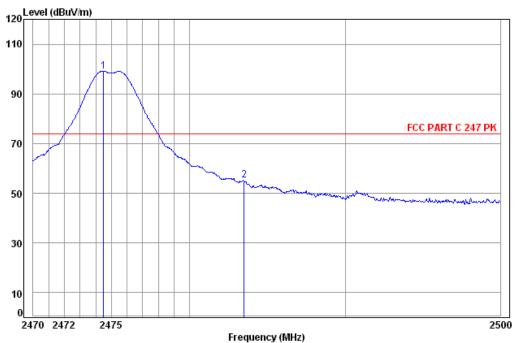


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Test mode: Transmitting Test channel: Highest Remark: Peak Horizontal





Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 0685CR

Mode: : 2475 Band edge

Cable Ant Preamp 0ver Read Limit Loss Factor Factor Level Limit Freq Level Line MHz dB/m dΒ dBuV dBuV/m dBuV/m dΒ 2474.51 5.02 32.44 38.46 100.17 99.17 74.00 25.17 1 pp 2483.50 5.03 32.44 38.47 56.41 55.41 74.00 -18.59

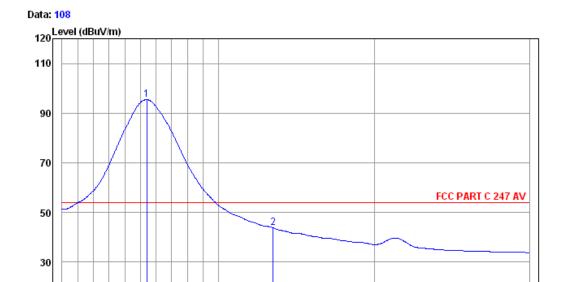


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2500

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Test mode: Transmitting Test channel: Highest Remark: Average Horizontal



Frequency (MHz)

Site : chamber

2470 2472

Condition: FCC PART C 247 AV 3m Horizontal

2475

Job No: : 0685CR

10

Mode: : 2475 Band edge

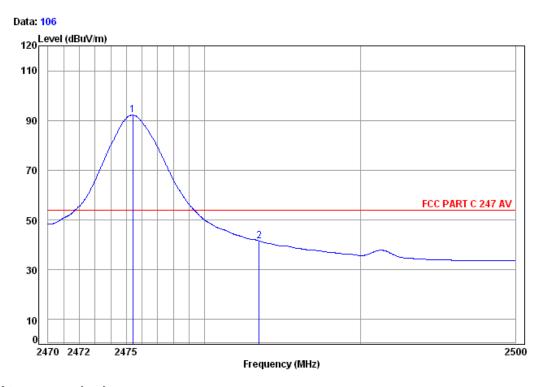
Ant Preamp Cable Read limit 0ver Level Freq Loss Factor Factor Level Line Limit dΒ dB/m dBuV dBuV/m dBuV/m 2475.40 5.02 32.44 38.47 96.43 95.42 54.00 41.42 2483.50 5.03 32.44 38.47 44.82 43.82 54.00 -10.18



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Test mode:	Transmitting	Test channel:	Highest	Remark:	Average	Vertical
TOSE IIIOGO.	rransmitting	Tost charmer.	riigiicat	ricinari.	Average	VCITICAI



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 0685CR

Mode: : 2475 Band edge

				Preamp Factor			Freq	
dB	dBuV/m	dBuV/m	dBuV	dB	dB/m	dB	MHz	_
							2475.40 2483.50	1 pp

Note:

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

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

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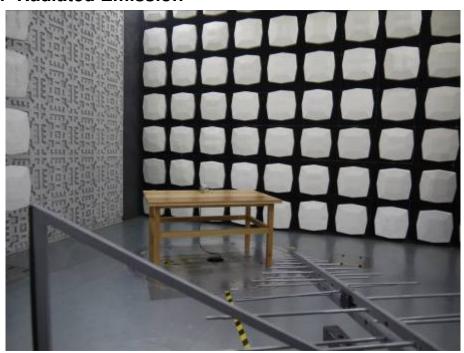
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7 Photographs - EUT Test Setup

Test model No.: AEH2310/37

7.1 Radiated Emission







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7.2 Radiated Spurious Emission



7.3 Conducted Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1502000685CR.