

Global United Technology Services Co., Ltd.

Report No.: GTS201905000217F01

FCC REPORT

Applicant: Kids of America Corp

Address of Applicant: 103 Route 46 West, 2nd Floor, Fairfield, New Jersey 07004,

United States

Kids of America Corp Manufacturer/Factory:

103 Route 46 West, 2nd Floor, Fairfield, New Jersey 07004, Address of

Manufacturer/Factory: **United States**

Equipment Under Test (EUT)

Product Name: 2.4G Interactive Skeleton Witch and Cat

Model No.: R-HA45489A(163957), R-HA37762, R-HA37761, R- HA37735,

> R-HA32577, R-HA27658, R-HA33571, R-HA35414, R-HA38853, R-HA39496, R-XA39794, R-XA39836, R-HA39657, R-HA41700A, R-HA41702A, R-HA41703A, R-HA41704A, R-HA41705A, R-HA41706A, R-HA44198A, R-HF41701A, R-XF41707A, R-HA45280A, R-HA45280A, R-HA00000, R-HA37736, R-HA33935A, R-HA40263A R-HA40277A, R-HA40992A, R-HA41936A, R-HA41939A, R-HF41501A, R-XA31191A, R-XA31265D, R-XA31266A, R-XA32764A, R-XA38974A, R-XA39640A, R-XA39851A,

R-XA40418A, R-XA40439A, R-XA44156A

FCC ID: 2AEQ8RMP87795234

FCC CFR Title 47 Part 15 Subpart C Section 15.249 **Applicable standards:**

Date of sample receipt: May 27, 2019

Date of Test: May 27-30, 2019

Date of report issued: May 31, 2019

PASS * Test Result:

In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Robinson Lo **Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



2 Version

Version No.	Date	Description
00	May 31, 2019	Original

Prepared By:	Bill. Yvan	Date:	May 31, 2019
	Project Engineer		
Check By:	Reviewer	Date:	May 31, 2019



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Remarks:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. Test according to ANSI C63.10:2013.
- 3. N/A:Not applicable

4.1 Measurement Uncertainty

Test Item Frequency Range Measurement Uncertainty Notes							
Radiated Emission 9kHz ~ 30MHz \pm 4.54dB (1)							
Radiated Emission 30MHz ~ 1000MHz \pm 5.34dB (1)							
Radiated Emission 1GHz ~ 26.5GHz ± 5.34dB (1)							
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.							



5 General Information

5.1 General Description of EUT

Product Name: 2.4G Interactive Skeleton Witch and Cat	2:: 23::3: 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3	- Contral Bookinghon of Edit			
R-HA32577, R-HA27658, R-HA33571, R-HA35414, R-HA38853, R-HA39496, R-XA39794, R-XA39836, R-HA39657, R-HA41700A, R-HA41702A, R-HA41703A, R-HA41704A, R-HA41705A, R-HA41706A, R-HA4198A, R-HF41701A, R-XF41707A, R-HA45280A, R-HA45280A, R-HA00000, R-HA37736, R-HA33935A, R-HA40263A R-HA40277A, R-HA40992A, R-HA41936A, R-HA41939A, R-HF41501A, R-XA31191A, R-XA31265D, R-XA31266A, R-XA32764A, R-XA38974A, R-XA39640A, R-XA39851A, R-XA40418A, R-XA40439A, R-XA44156A Test Model No: R-HA45489A(163957) Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The only differences are the model name and appearance for commercial purpose. Test sample(s) ID: GTS201905000217-1	Product Name:	2.4G Interactive Skeleton Witch and Cat			
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Test sample(s) ID: GTS201905000217-1	Remark: All above models are	identical in the same PCB layout, interior structure and electrical circuits.			
100.00.mpro(0) 15.	The only differences are the me	odel name and appearance for commercial purpose.			
Serial No.: 01	Test sample(s) ID:	GTS201905000217-1			
	Serial No.:	01			
Operation Frequency: 2410MHz~2470MHz	Operation Frequency:	2410MHz~2470MHz			
Channel numbers: 3	Channel numbers:	3			
Modulation type: GFSK	Modulation type:	GFSK			
Antenna Type: Integral antenna	Antenna Type:	Integral antenna			
Antenna gain: 2.0dBi (declare by Applicant)	Antenna gain:	2.0dBi (declare by Applicant)			
Power Supply: DC 4.5V(3*1.5V, SIZE"AA")	Power Supply:	DC 4.5V(3*1.5V, SIZE"AA")			

Operation Frequency each of channel				
Channel	Frequency			
1	2410MHz			
2	2440MHz			
3	2470MHz			



5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.				
Remark: During the test, New battery is used during all test. So the report just shows that				

Remark: During the test, New battery is used during all test. So the report just shows that condition's data.

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Υ	Z
Field Strength(dBuV/m)	89.73	91.94	90.25

5.3 Description of Support Units

None.

5.4 Test Facility

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

• FCC —Registration No.: 381383

Global United Technology 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 files. Registration 381383.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2.

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



6 Test Instruments list

Radi	iated Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 03 2015	July. 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 27 2018	June. 26 2019
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 27 2018	June. 26 2019
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 27 2018	June. 26 2019
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 27 2018	June. 26 2019
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 27 2018	June. 26 2019
9	Coaxial Cable	GTS	N/A	GTS211	June. 27 2018	June. 26 2019
10	Coaxial cable	GTS	N/A	GTS210	June. 27 2018	June. 26 2019
11	Coaxial Cable	GTS	N/A	GTS212	June. 27 2018	June. 26 2019
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 27 2018	June. 26 2019
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 27 2018	June. 26 2019
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 27 2018	June. 26 2019
15	Band filter	Amindeon	82346	GTS219	June. 27 2018	June. 26 2019
16	Power Meter	Anritsu	ML2495A	GTS540	June. 27 2018	June. 26 2019
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 27 2018	June. 26 2019
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 27 2018	June. 26 2019
19	Splitter	Agilent	11636B	GTS237	June. 27 2018	June. 26 2019
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 27 2018	June. 26 2019
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 20 2018	Oct. 19 2019
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 20 2018	Oct. 19 2019
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 20 2018	Oct. 19 2019
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 27 2018	June. 26 2019



RF C	onducted:					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 27 2018	June. 26 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 27 2018	June. 26 2019
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 27 2018	June. 26 2019
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 27 2018	June. 26 2019
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 27 2018	June. 26 2019
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 27 2018	June. 26 2019
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 27 2018	June. 26 2019

Gene	General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date	Cal.Due date	
iteiii	rest Equipment	Wallulacturei	woder No.	inventory No.	(mm-dd-yy)	(mm-dd-yy)	
1	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	GTS243	June. 27 2018	June. 26 2019	
2	Barometer	ChangChun	DYM3	GTS255	June. 27 2018	June. 26 2019	



7 Test Results and Measurement Data

7.1 Antenna Requirement

Standard requirement: FCC Part15 C Section 15.203

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.

EUT Antenna:

The antenna is Integral antenna and the best case gain is 2dBi, reference to the appendix II for details.



7.2 Radiated Emission Method

1.2	Z Radiated Emission Method								
	Test Requirement:	FCC Part15 C S	Section 15.20	9					
	Test Method:	ANSI C63.10:20	013						
	Test Frequency Range:	9kHz to 25GHz							
	Test site:	Measurement D	Distance: 3m						
	Receiver setup:	Frequency	Detector	RBW	VBW	Remark			
		9kHz- 150kHz	Quasi-peal	< 200Hz	300Hz	Quasi-peak Value			
		150kHz- 30MHz	Quasi-peal	k 9kHz	10kHz	Quasi-peak Value			
		30MHz- 1GHz	Quasi-peal	120KHz	300KHz	Quasi-peak Value			
		Above 1GHz	Peak	1MHz	3MHz	Peak Value			
		Above Toriz	Peak	1MHz	10Hz	Average Value			
	Limit:	Freque	ency	Limit (dBu\		Remark			
	(Field strength of the fundamental signal)	2400MHz-24	183 5MHz	94.0	00	Average Value			
	Turidamentai Signai)	2400WII 12 2-	+03.5IVII 12	114.	00	Peak Value			
	Limit:	Freque		Limit (ι		Remark			
	(Spurious Emissions)	0.009MHz-0		2400/F(kHz		Quasi-peak Value			
		0.490MHz-1		24000/F(kH		Quasi-peak Value Quasi-peak Value			
			1.705MHz-30.0MHz 30 @30m						
		30MHz-8		100 @		Quasi-peak Value			
		88MHz-2		150 @		Quasi-peak Value			
		216MHz-9 960MHz-		200 @		Quasi-peak Value			
		960101112-	- IGHZ	500 @3m 500 @3m		Quasi-peak Value Average Value			
		Above 1	IGHz	5000 (Peak Value			
	Limit: (Band Edge)	harmonics, sha	II be attenuate to the genera	ed by at least al radiated em	50 dB belov	bands, except for w the level of the in Section 15.209,			
	Test setup:	For radiated e	missions fro	m 9kHz to 3	0MHz				
		For radiated emissions from 9kHz to 30MHz Tum Table EUT Receiver Preamplifier For radiated emissions from 30MHz to1GHz							
		∣ ⊢or radiated e	missions fro	m 301VIHz to	1GHZ				

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Report No.: GTS201905000217F01 Test Antenna < 1m ... 4m > EUT < 80cm Turn Table Receiver Preamplifier. For radiated emissions above 1GHz < 1m ... 4m > EUT Turn Tables <150cm> Receiver-Preamplifier-Test Procedure: 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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. Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.2 for details Humid.: 52% 1012mbar Test environment: Temp.: 25 °C Press.: DC 4.5V Test voltage: Test results: **Pass**



Measurement data:

Report No.: GTS201905000217F01

7.2.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2410.00	88.03	27.57	5.40	30.17	90.83	114.00	-23.17	Vertical
2410.00	86.13	27.57	5.40	30.17	88.93	114.00	-25.07	Horizontal
2440.00	86.71	27.55	5.43	30.06	89.63	114.00	-24.37	Vertical
2440.00	85.23	27.55	5.43	30.06	88.15	114.00	-25.86	Horizontal
2470.00	88.89	27.53	5.46	29.94	91.94	114.00	-22.06	Vertical
2470.00	86.28	27.53	5.46	29.94	89.33	114.00	-24.67	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2410.00	76.24	27.57	5.40	30.17	79.04	94.00	-14.96	Vertical
2410.00	74.53	27.57	5.40	30.17	77.33	94.00	-16.67	Horizontal
2440.00	74.82	27.55	5.43	30.06	77.74	94.00	-16.26	Vertical
2440.00	72.15	27.55	5.43	30.06	75.07	94.00	-18.93	Horizontal
2470.00	76.86	27.53	5.46	29.94	79.91	94.00	-14.09	Vertical
2470.00	74.57	27.53	5.46	29.94	77.62	94.00	-16.38	Horizontal

Note: The 20dB Occupy Bandwidth maximum value for 6.008MHz.

So receiver setup as follow:

Frequency (MHz)	Detector	RBW (MHz)	VBW (MHz)	Remark
2410~2470	Peak	10	10	Peak Value
	RMS	10	10	Average Value



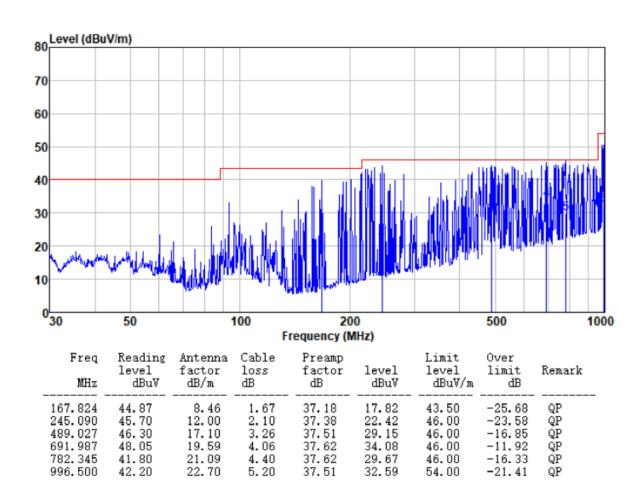
7.2.2 Spurious Emissions

■ Below 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

■ Below 1GHz

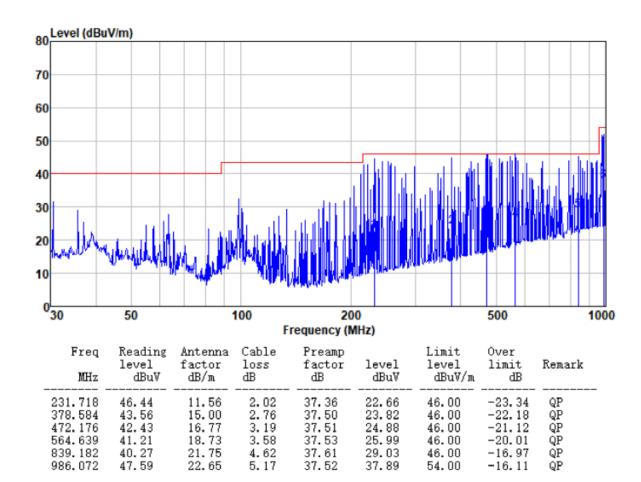
Temp./Hum.(%H): 26°C/56%RH Polarization: Horizontal



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Temp./Hum.(%H): 26℃/56%RH Polarization: Vertical





■ Above 1GHz

Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4820.00	46.25	31.79	8.61	32.08	54.57	74.00	-19.43	Vertical
7230.00	29.25	36.16	11.66	31.99	45.08	74.00	-28.92	Vertical
9640.00	29.17	37.96	14.15	31.61	49.67	74.00	-24.33	Vertical
12050.00	*					74.00		Vertical
14460.00	*					74.00		Vertical
4820.00	47.94	31.79	8.61	32.08	56.26	74.00	-17.74	Horizontal
7230.00	30.67	36.16	11.66	31.99	46.50	74.00	-27.50	Horizontal
9640.00	28.23	37.96	14.15	31.61	48.73	74.00	-25.27	Horizontal
12050.00	*					74.00		Horizontal
14460.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4820.00	32.97	31.79	8.61	32.08	41.29	54.00	-12.71	Vertical
7230.00	18.38	36.16	11.66	31.99	34.21	54.00	-19.79	Vertical
9640.00	17.70	37.96	14.15	31.61	38.20	54.00	-15.80	Vertical
12050.00	*					54.00		Vertical
14460.00	*					54.00		Vertical
4820.00	36.77	31.79	8.61	32.08	45.09	54.00	-8.91	Horizontal
7230.00	20.30	36.16	11.66	31.99	36.13	54.00	-17.87	Horizontal
9640.00	17.11	37.96	14.15	31.61	37.61	54.00	-16.39	Horizontal
12050.00	*					54.00		Horizontal
14460.00	*					54.00		Horizontal

Remarks:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	46.07	31.85	8.67	32.12	54.47	74.00	-19.53	Vertical
7320.00	29.14	36.37	11.72	31.89	45.34	74.00	-28.66	Vertical
9760.00	29.07	38.35	14.25	31.62	50.05	74.00	-23.95	Vertical
12200.00	*					74.00		Vertical
14640.00	*					74.00		Vertical
4880.00	47.73	31.85	8.67	32.12	56.13	74.00	-17.87	Horizontal
7320.00	30.53	36.37	11.72	31.89	46.73	74.00	-27.27	Horizontal
9760.00	28.11	38.35	14.25	31.62	49.09	74.00	-24.91	Horizontal
12200.00	*					74.00		Horizontal
14640.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	32.82	31.85	8.67	32.12	41.22	54.00	-12.78	Vertical
7320.00	18.28	36.37	11.72	31.89	34.48	54.00	-19.52	Vertical
9760.00	17.61	38.35	14.25	31.62	38.59	54.00	-15.41	Vertical
12200.00	*					54.00		Vertical
14640.00	*					54.00		Vertical
4880.00	36.60	31.85	8.67	32.12	45.00	54.00	-9.00	Horizontal
7320.00	20.18	36.37	11.72	31.89	36.38	54.00	-17.62	Horizontal
9760.00	17.00	38.35	14.25	31.62	37.98	54.00	-16.02	Horizontal
12200.00	*					54.00		Horizontal
14640.00	*					54.00		Horizontal

Remarks:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4940.00	46.33	31.92	8.72	32.17	54.80	74.00	-19.20	Vertical
7410.00	29.31	36.58	11.78	31.79	45.88	74.00	-28.12	Vertical
9880.00	29.22	38.80	14.37	31.89	50.50	74.00	-23.50	Vertical
12350.00	*					74.00		Vertical
14820.00	*					74.00		Vertical
4940.00	48.04	31.92	8.72	32.17	56.51	74.00	-17.49	Horizontal
7410.00	30.72	36.58	11.78	31.79	47.29	74.00	-26.71	Horizontal
9880.00	28.28	38.80	14.37	31.89	49.56	74.00	-24.44	Horizontal
12350.00	*					74.00		Horizontal
14820.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4940.00	33.00	31.92	8.72	32.17	41.47	54.00	-12.53	Vertical
7410.00	18.40	36.58	11.78	31.79	34.97	54.00	-19.03	Vertical
9880.00	17.72	38.80	14.37	31.89	39.00	54.00	-15.00	Vertical
12350.00	*					54.00		Vertical
14820.00	*					54.00		Vertical
4940.00	36.80	31.92	8.72	32.17	45.27	54.00	-8.73	Horizontal
7410.00	20.32	36.58	11.78	31.79	36.89	54.00	-17.11	Horizontal
9880.00	17.13	38.80	14.37	31.89	38.41	54.00	-15.59	Horizontal
12350.00	*					54.00		Horizontal
14820.00	*					54.00		Horizontal

Remarks:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



7.2.3 Bandedge Emissions

1.2.3 Bandedge Emissions									
Test channel:				Lov	Lowest channel				
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
2310.00	37.72	27.59	5.38	30.18	40.51	74.00	-33.49	Horizontal	
2400.00	51.77	27.58	5.40	30.18	54.57	74.00	-19.43	Horizontal	
2310.00	37.77	27.59	5.38	30.18	40.56	74.00	-33.44	Vertical	
2400.00	53.25	27.58	5.40	30.18	56.05	74.00	-17.95	Vertical	
Average val	Average value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
2310.00	29.43	27.59	5.38	30.18	32.22	54.00	-21.78	Horizontal	
2400.00	37.36	27.58	5.40	30.18	40.16	54.00	-13.84	Horizontal	
2310.00	29.01	27.59	5.38	30.18	31.80	54.00	-22.20	Vertical	
2400.00	37.12	27.58	5.40	30.18	39.92	54.00	-14.08	Vertical	
Test channel: Highest channel									

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	39.20	27.53	5.47	29.93	42.27	74.00	-31.73	Horizontal
2500.00	39.36	27.55	5.49	29.93	42.47	74.00	-31.53	Horizontal
2483.50	39.19	27.53	5.47	29.93	42.26	74.00	-31.74	Vertical
2500.00	39.87	27.55	5.49	29.93	42.98	74.00	-31.02	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	32.20	27.53	5.47	29.93	35.27	54.00	-18.73	Horizontal
2500.00	30.94	27.55	5.49	29.93	34.05	54.00	-19.95	Horizontal
2483.50	32.98	27.53	5.47	29.93	36.05	54.00	-17.95	Vertical
2500.00	30.43	27.55	5.49	29.93	33.54	54.00	-20.46	Vertical

Remarks:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

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7.3 20dB Occupy Bandwidth

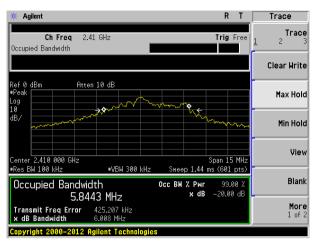
Test Requirement:	FCC Part15 C Section 15.249/15.215				
Test Method:	ANSI C63.10:2013				
Limit:	Operation Frequency range 2400MHz~2483.5MHz				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

Measurement Data

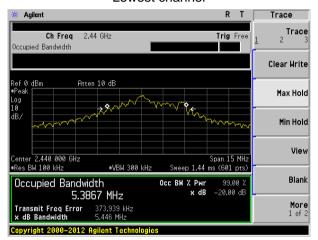
Test channel	20dB bandwidth(MHz)	Result		
Lowest	6.008	Pass		
Middle	5.446	Pass		
Highest	4.202	Pass		



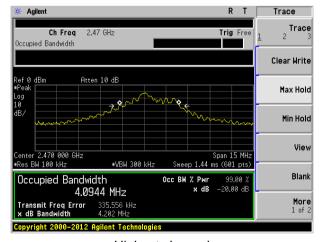
Test plot as follows:



Lowest channel



Middle channel



Highest channel



8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

-----End-----