



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER : CGZ3150210-00171-EF-R1



CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

TEST REPORT For FCC ID

Report Reference No. CGZ3150210-00171-EF-R1

Date of issue..... 29 February 2016

Testing Laboratory Name CENTRE OF TESTING SERVICE CO., LTD.

Address..... A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Testing location/ procedure Full application of Harmonised standards Partial application of Harmonised standards Other standard testing method

Applicant's name Capital Prospect Ltd.

Address..... 1303, Blk B, Veristrong Ind center, 36 Apuiwan Street, Fotan, HK

Test specification

Standard 47 CFR PART 15 OCT, 2015, ANSI C63.10:2013

Test Report Form No. CTSEMC-1.0

TRF Originator CENTRE OF TESTING SERVICE CO., LTD.

Master TRF Dated 2009-01

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Test item description : Alarm System

Trade Mark Skylink

Manufacturer..... Capital Prospect Ltd.

Model/Type reference..... HU-100

Ratings..... Battery 1.5V*4 or DC 6V by adapter;
Adapter Input:AC 100~240V, 50/60Hz; Output:DC 5V

Operating Frequency..... 433.92 MHz

Result **PASSED**

Compiled by:



Kate zhang / Fileadministators

Supervised by:



Duke yang / Technique principal

Approved by:



Vincent yao / Manager

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FCC ID -- T E S T R E P O R T

Test Report No. : **CGZ3150210-00171-EF-R1**29 February 2016
Date of issue

Type / Model..... HU-100

EUT..... Alarm System

Applicant..... Capital Prospect Ltd.

Address..... 1303, Blk B, Veristrong Ind center, 36 Apuiwan Street, Fotan, HK

Telephone..... +852-2602-1318

Fax..... +852-2602-4684

Contact..... Joe Ng

Manufacturer..... Capital Prospect Ltd.

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Factory Capital Prospect Ltd.

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Contact..... Joe Ng

Test Result according to the standards on page 3: **PASSED**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2015
- ANSI C63.10:2013

2. SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	10 February 2015
Testing commenced on	10~11 February 2015
Testing concluded on	29 February 2016

2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

- - fulfilled.
- **not** fulfilled.

The equipment under test

- - fulfils the FCC requirements cited on page 1.
- **does not** fulfil the FCC requirements cited on page 1.

3. EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : AC 120V/60Hz
 Other

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1
Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

For Radiation emission:

- TX +X position
- TX +Y position
- TX +Z position

Operation mode 1: TX +X position

Note: X position of EUT is the worst case, so only these test results be recorded in the test report.

3.4 EUT configuration

3.4.1. Description of configuration (EUT)

Description	:	Alarm System
Model Number	:	HU-100
Operation frequency	:	433.92 MHz
Radio Technology	:	ASK
Modulation Technology	:	ASK modulation
Antenna	:	Internal Antenna

3.4.2. Tested Supporting System Details

N/A

4. TEST ENVIRONMENT

4.1 Address of the test laboratory

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406

4.2 Test facility

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

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD. has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374A

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on 22 May, 2014.

FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD., 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.791995, July 13,2012.

4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

4.4 Definitions of symbols used in this test report

- The black square indicates that the listed condition, standard or equipment is applicable for this report.
- The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
	30MHz~300MHz	±3.14dB	(1)
Radiation emission (3m)	300MHz~1000MHz	±3.18dB	(1)
	1GHz~18GHz	±3.54dB	(1)

(1).This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5. Summary of standards and results

5.1. Description of Standards and Results

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

EMISSION		
Description of Test Item	Standard	Results
Conducted Emission Test	ANSI C63.10:2013 FCC Part 15 C: 15.207	PASSED
Radiated Emission Test	ANSI C63.10:2013 FCC Part 15 C: 15.231(a)	PASSED
20 dB Bandwidth Test	ANSI C63.10:2013 FCC Part 15 C: 15.231	PASSED
Stop Transmitting Time Test	ANSI C63.10:2013 FCC Part 15 C: 15.231	PASSED
N/A is an abbreviation for Not Applicable.		

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6. Power Line Conducted Emission Test

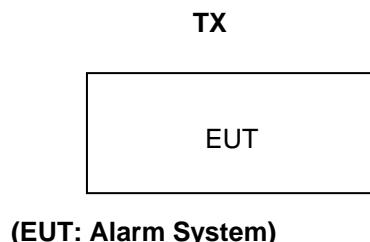
6.1.1 Description of the test location

Test location : Shielding Room

6.1.2 Test Equipment

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2015/11
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2015/11
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/026	2015/11
4	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2015/11
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2015/11

6.2.1 Block Diagram of Test Setup

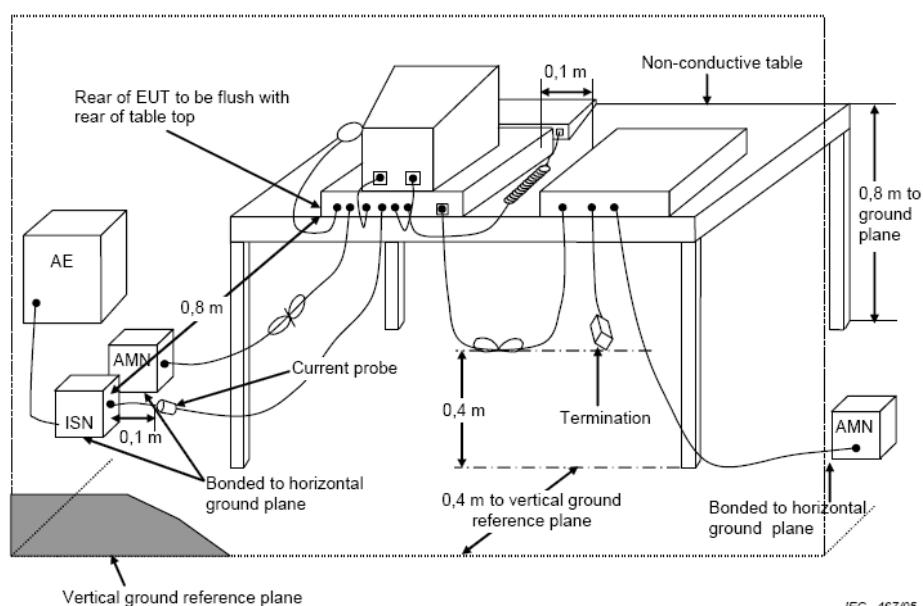


6.2.2 Description of the test set-up

6.1.2.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

6.1.2.2 Block Diagram of Test Setup



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6.2.3 Limits of disturbance (Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

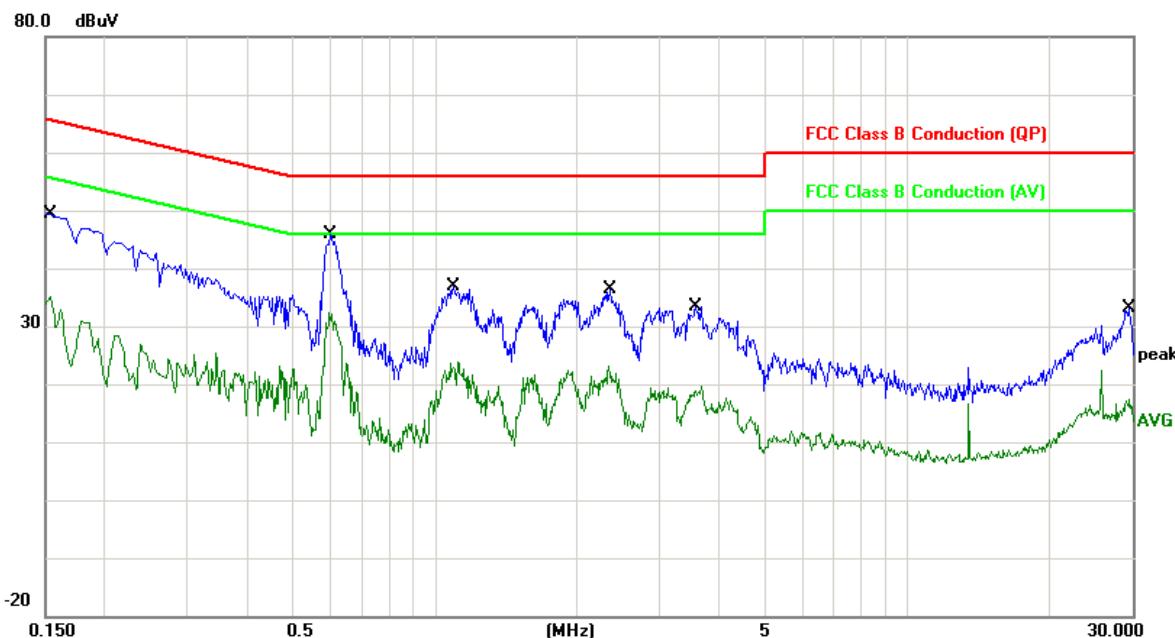
Note: (1) The tighter limit shall apply at the edge between two frequency bands.

6.2.4 Power Line Conducted Emission Test Results

Passed

Test point:	L	Result:	<input checked="" type="checkbox"/> - passed
Frequency range:	0.15MHz~30MHz		<input type="checkbox"/> - not passed

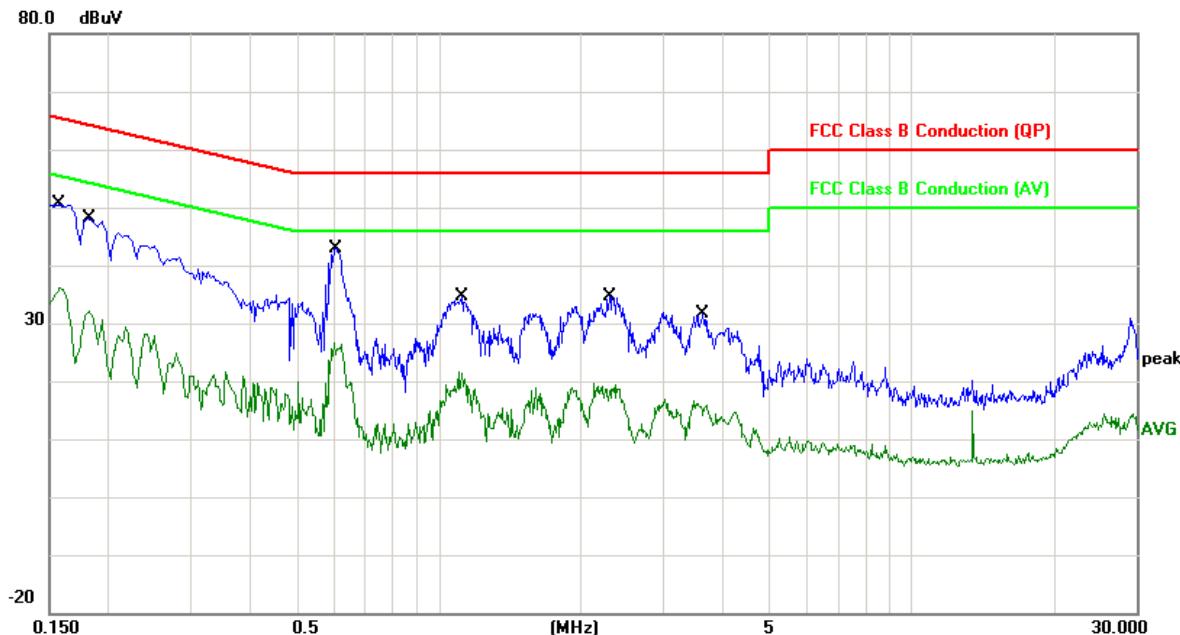
EUT	Alarm System
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	10~11 February 2015
Operator	Duke
MODEL NO	HU-100



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1548	9.78	38.22	48.00	65.74	-17.74	QP
2	0.1548	9.78	23.58	33.36	55.74	-22.38	AVG
3	0.6020	9.84	33.30	43.14	56.00	-12.86	QP
4	0.6020	9.84	19.76	29.60	46.00	-16.40	AVG
5	1.0980	9.83	23.24	33.07	56.00	-22.93	QP
6	1.0980	9.83	11.94	21.77	46.00	-24.23	AVG
7	2.3540	9.88	21.94	31.82	56.00	-24.18	QP
8	2.3540	9.88	11.19	21.07	46.00	-24.93	AVG
9	3.5700	9.90	18.89	28.79	56.00	-27.21	QP
10	3.5700	9.90	7.70	17.60	46.00	-28.40	AVG
11	29.4460	10.10	15.97	26.07	60.00	-33.93	QP
12	29.4460	10.10	4.52	14.62	50.00	-35.38	AVG

Remark: Other frequency mini margin all >6 dB of Limit

Test point:	N	Result:	<input checked="" type="checkbox"/> - passed
Frequency range:	0.15MHz~30MHz		<input type="checkbox"/> - not passed



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1580	9.78	38.44	48.22	65.57	-17.35	QP
2	0.1580	9.78	22.33	32.11	55.57	-23.46	AVG
3	0.1820	9.78	35.88	45.66	64.39	-18.73	QP
4	0.1820	9.78	21.44	31.22	54.39	-23.17	AVG
5	0.6060	9.84	30.50	40.34	56.00	-15.66	QP
6	0.6060	9.84	15.37	25.21	46.00	-20.79	AVG
7	1.1180	9.83	20.52	30.35	56.00	-25.65	QP
8	1.1180	9.83	7.53	17.36	46.00	-28.64	AVG
9	2.2980	9.87	18.26	28.13	56.00	-27.87	QP
10	2.2980	9.87	6.93	16.80	46.00	-29.20	AVG
11	3.6260	9.90	14.16	24.06	56.00	-31.94	QP
12	3.6260	9.90	3.99	13.89	46.00	-32.11	AVG

Remark: Other frequency mini margin all >6 dB of Limit

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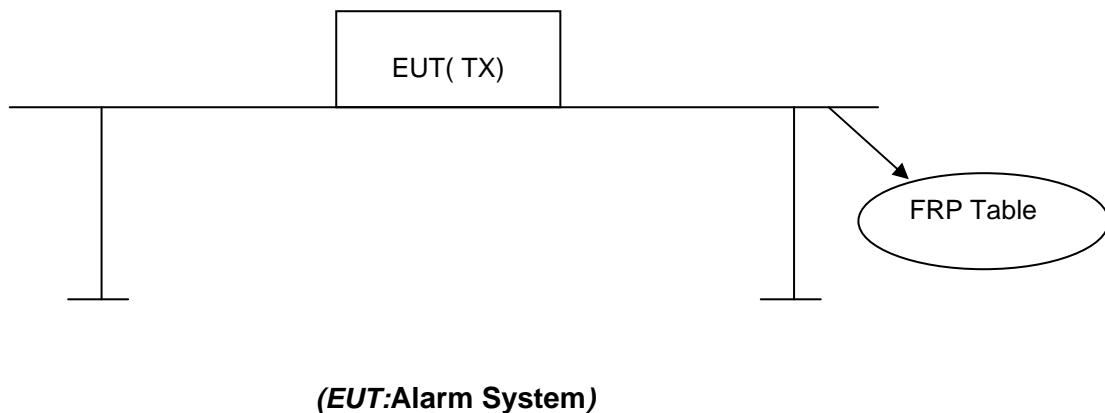
7. Radiated disturbance (electric field)

7.1. Test Equipment

Radiated disturbance (electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2015/11
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2015/03
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2015/03
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2015/03
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2015/03
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2015/11

7.2. Block Diagram of Test Setup

7.2.1 Block Diagram of connection between EUT and simulators



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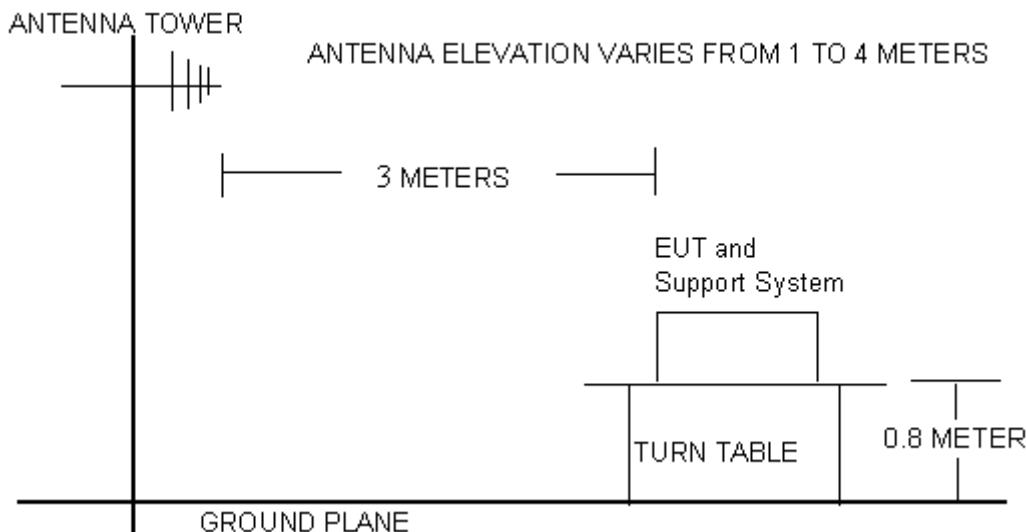
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7.2.2 Anechoic Chamber Setup Diagram



7.3. Radiated Emission Limit Standard: FCC 15.231,209

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μ V/m	dB(μ V)/m
0.009 ~ 0.490	300	2400/F(KHz)	----
0.490 1.705	30	24000/F(KHz)	----
1.705 30	3	30	----
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other: 74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	

Remark: (1) Emission level $dB\mu$ V = $20 \log Emission level \mu$ V/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.4. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 1MHz RBW above 1GHz,

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All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, A average detector be calulated from peak value using duty cycle factor Both 30MHz to 1000MHz and above 1GHz Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX and RX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

7.5.Radiated Emission Test Results

PASSED.

The frequency range from 9KHz to 30MHz,30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

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Test Mode:	TX -X Position Mode	Result:	<input checked="" type="checkbox"/> - passed
Frequency range:	9KHz~30MHz		<input type="checkbox"/> - not passed

No.	Frequency (MHz)	Factor (dB/m)	Reading (dB μ V/m)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Det.
-----	-----------------	---------------	------------------------	----------------------	----------------------	-------------	------

Remark:Other frequency no specific emission form the EUT (Margin > 10dB form the applicable Limit)

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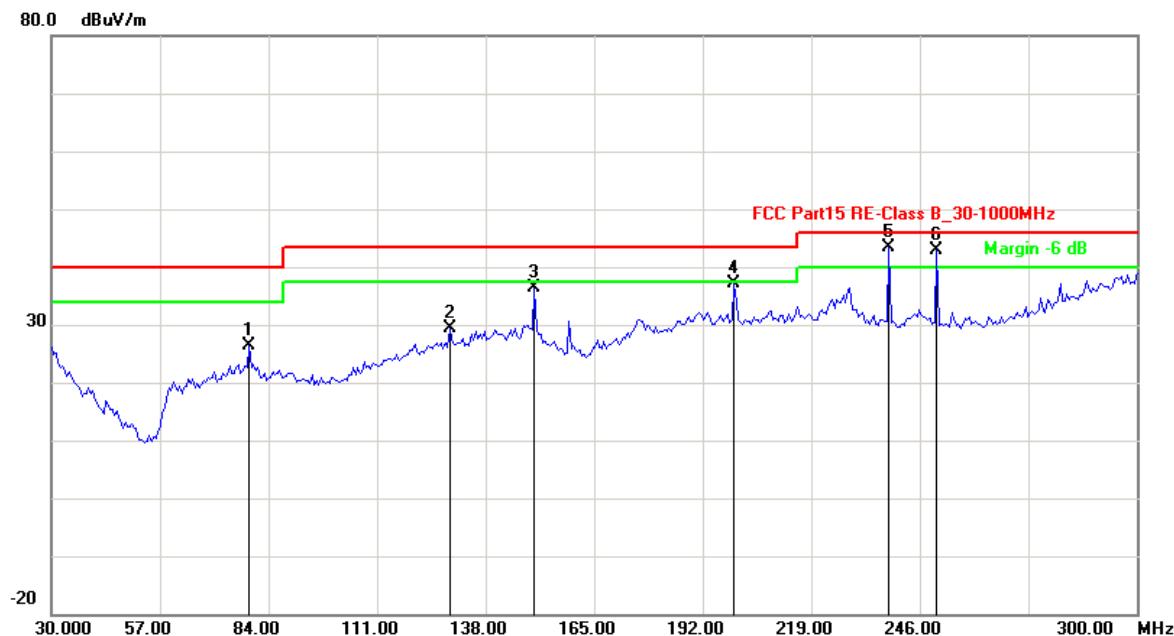
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Channel:	433.92 MHz (TX)	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	30MHz ~18GHz		

EUT	Alarm System		
Operating Condition	Battery 3V		
Test Condition	Ambient Temperature: 25°C Humidity: 56%		
Test Date:	10~11 February 2015		
Operator	Duke		
MODEL NO	HU-100		

Fundamental and Harmonics Average Result							
Frequency (MHz)	Factor (dB/m)	Reading (dB μ V)	Duty Cycle Correction Factor(dB)	Level (dB μ V/m)	Limit (15.231a) (dB μ V/m)	Margin (dB)	Det.
433.92	-24.78	101.90	-----	77.12	100.83	-23.71	Peak
433.92	-24.78	101.90	-4.54	72.58	80.83	-8.25	AVG

Note:Level=Reading+Factor. Margin= Limit-Level.
 Average Level=Peak level + Duty Factor



No.	Frequency (MHz)	Factor (dB/m)	Reading (dB μ V/m)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Det.
1	79.2385	-27.42	53.76	26.34	40.00	-13.66	QP
2	129.0180	-23.17	52.56	29.39	43.50	-14.11	QP
3	150.1202	-23.36	59.72	36.36	43.50	-7.14	QP
4	199.8998	-18.65	55.82	37.17	43.50	-6.33	QP
5	238.3166	-19.00	62.47	43.47	46.00	-2.53	QP
6	250.2204	-18.77	61.57	42.80	46.00	-3.20	QP

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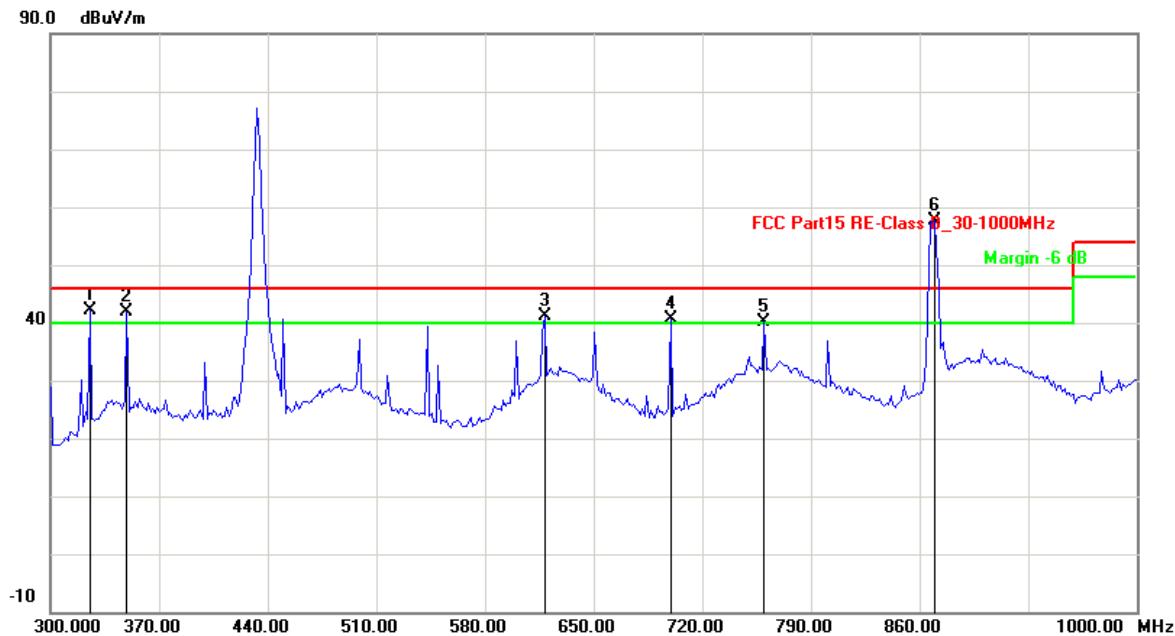
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dB μ V/m)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Det.
1	325.2505	-26.52	68.65	42.13	46.00	-3.87	QP
2	349.0982	-23.27	65.22	41.95	46.00	-4.05	QP
3	618.4369	-15.91	57.07	41.16	46.00	-4.84	QP
4	699.7996	-21.86	62.59	40.73	46.00	-5.27	QP
5	760.1201	-13.88	54.11	40.23	46.00	-5.77	QP
No.	Frequency (MHz)	Factor (dB/m)	Reading (dB μ V)	Duty Cycle Correction Factor(dB)	Level (dB μ V/m)	Limit (15.231a) (dB μ V/m)	Margin (dB)
6	869.5390	-14.55	72.08	-----	57.53	80.83	-23.30
	869.5390	-14.55	72.08	-4.54	52.99	60.83	-7.84
							AVG

Note:Level=Reading+Factor. Margin= Limit-Level.

Average Level=Peak level + Duty Factor (For line 6 **AVG** value)

Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dB μ V/m)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Det.
1	1286.573	-13.15	62.16	49.01	74.00	-24.99	peak
2	1286.573	-13.15	56.43	43.28	54.00	-10.72	AVG
3	1727.455	-10.82	53.46	42.64	74.00	-31.36	peak
4	1727.455	-10.82	47.39	36.57	54.00	-17.43	AVG
5	2388.778	-5.61	52.97	47.36	74.00	-26.64	peak
6	2388.778	-5.61	48.19	42.58	54.00	-11.42	AVG

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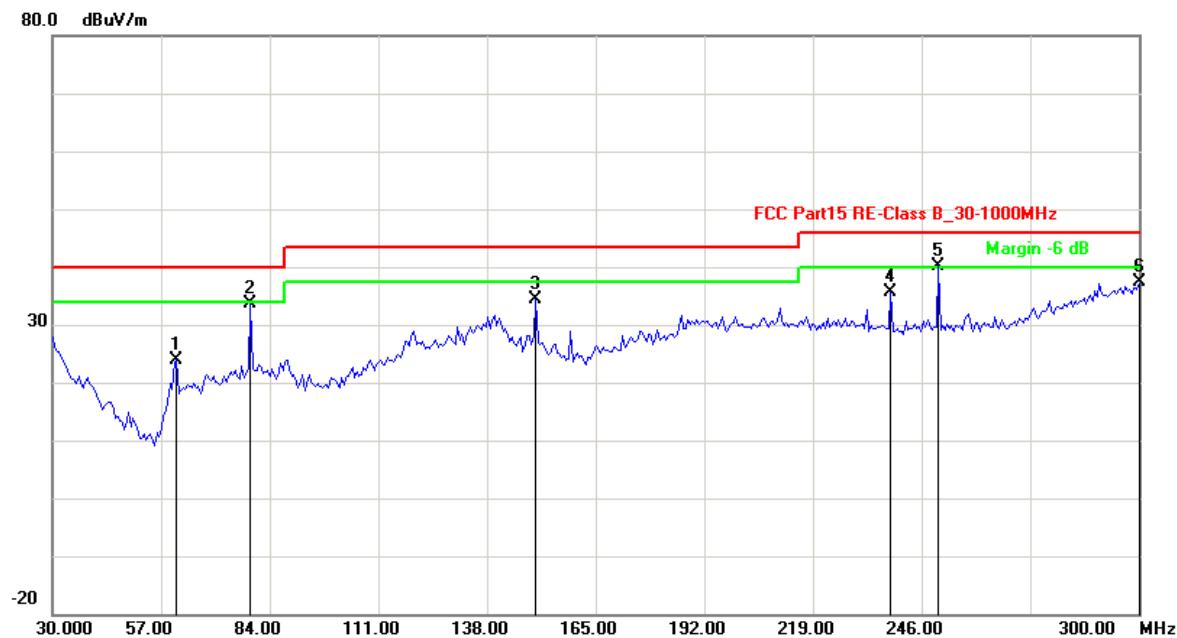
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Channel:	433.92 MHz (TX)	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	30MHz ~18GHz		

EUT	Alarm System
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	10~11 February 2015
Operator	Duke
MODEL NO	HU-100

Fundamental and Harmonics Average Result							
Frequency (MHz)	Factor (dB/m)	Reading (dB μ V)	Duty Cycle Correction Factor(dB)	Level (dB μ V/m)	Limit (15.231a) (dB μ V/m)	Margin (dB)	Det.
433.92	-24.78	98.30	----	73.52	100.83	-27.31	Peak
433.92	-24.78	98.30	-4.54	68.98	80.83	-11.85	AVG

Note:Level=Reading+Factor. Margin= Limit - Level.
 Average Level=Peak level + Duty Factor



No.	Frequency (MHz)	Factor (dB/m)	Reading (dB μ V/m)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Det.
1	60.8417	-30.09	53.95	23.86	40.00	-16.14	QP
2	79.2385	-27.42	61.16	33.74	40.00	-6.26	QP
3	150.1202	-23.36	57.71	34.35	43.50	-9.15	QP
4	238.3166	-19.00	54.66	35.66	46.00	-10.34	QP
5	250.2204	-18.77	58.87	40.10	46.00	-5.90	QP
6	300.0000	-12.07	49.42	37.35	46.00	-8.65	QP

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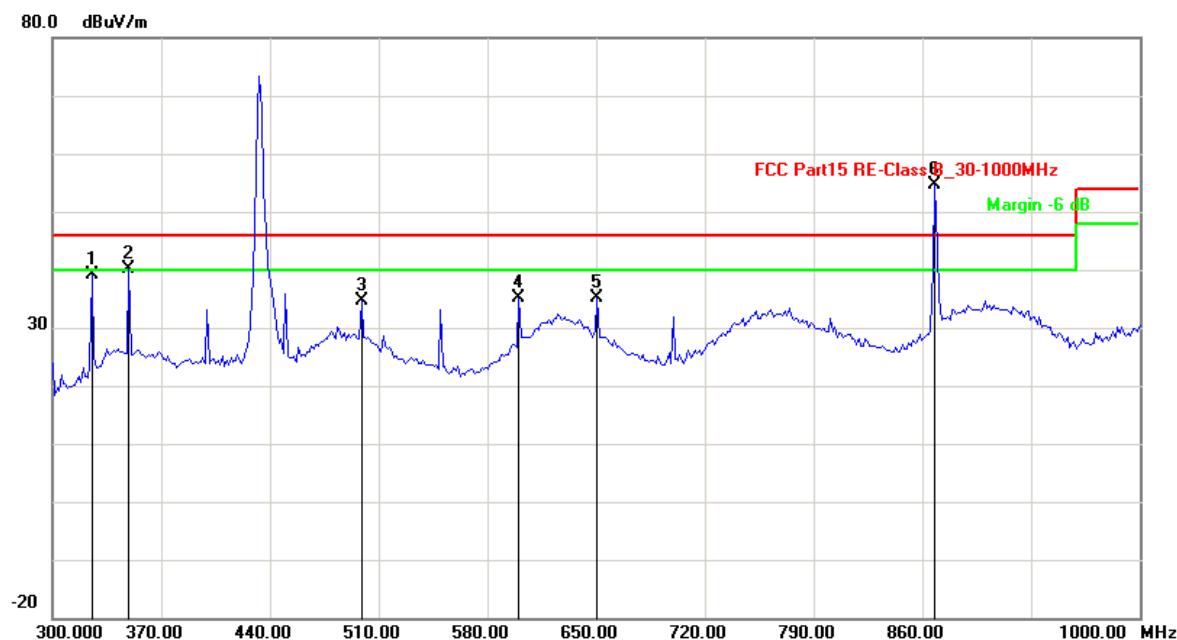
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dB μ V/m)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Det.	
1	325.2505	-26.52	65.60	39.08	46.00	-6.92	QP	
2	349.0981	-23.27	63.47	40.20	46.00	-5.80	QP	
3	499.1983	-19.01	53.69	34.68	46.00	-11.32	QP	
4	600.2004	-19.49	54.58	35.09	46.00	-10.91	QP	
5	650.7014	-17.71	52.73	35.02	46.00	-10.98	QP	
No.	Frequency (MHz)	Factor (dB/m)	Reading (dB μ V)	Duty Cycle Correction Factor(dB)	Level (dB μ V/m)	Limit (15.231a) (dB μ V/m)	Margin (dB)	Det.
6	868.1362	-14.87	69.58	-----	54.71	80.83	-26.12	Peak
	868.1362	-14.87	69.58	-4.54	50.17	60.83	-10.66	AVG

Note:Level=Reading+Factor. Margin= Limit - Level.

Average Level=Peak level + Duty Factor (For line 6 **AVG** value)

Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dB μ V/m)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Det.
1	1286.573	-13.15	54.08	40.93	74.00	-33.07	peak
2	1286.573	-13.15	45.84	32.69	54.00	-21.31	AVG
3	2388.778	-5.61	51.22	45.61	74.00	-28.39	peak
4	2388.778	-5.61	45.78	40.17	54.00	-13.83	AVG
5	2587.174	-4.10	51.88	47.78	74.00	-26.22	peak
6	2587.174	-4.10	45.38	41.28	54.00	-12.72	AVG

Note:Level=Reading+Factor. Margin= Limit-Level.

Remark: Others frequency Radiated Emission level margin all >10dB of Limit.

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8. 20 dB Bandwidth test

8.1. Test Equipment

20 dB Bandwidth test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2015/11
2	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2015/03
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2015/03

8.2. Test Information

EUT:	Alarm System
M/N:	HU-100
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.231a
Test mode:	Transmitting
Test Frequency:	433.92 MHz
Test Date:	11 February 2014
Test By:	Duke

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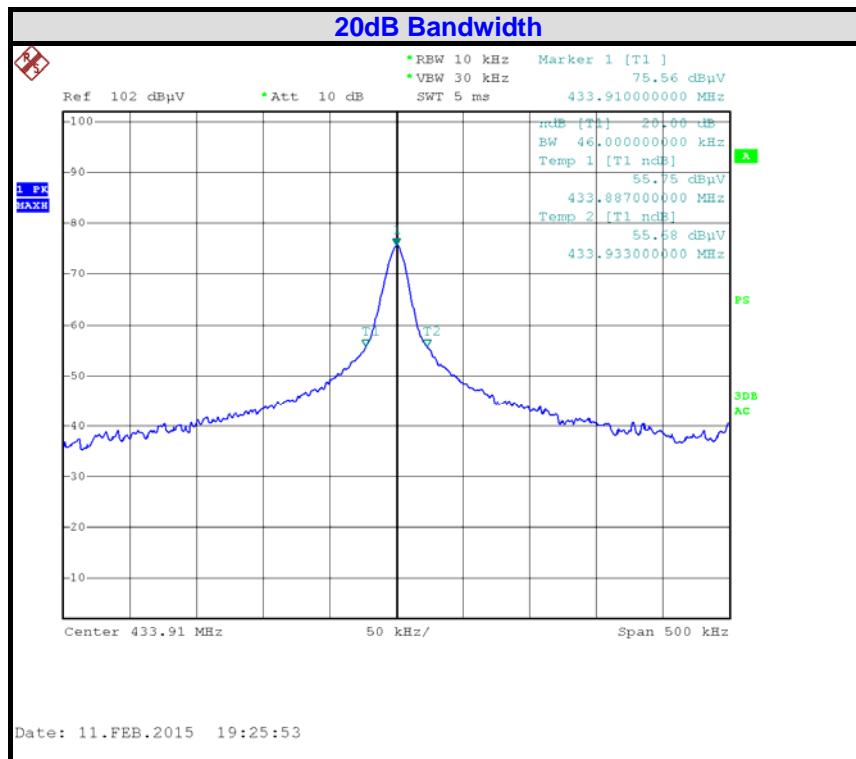
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8.3. Test Results

PASSED.

The testing data was attached in the next pages.

Frequency (MHz)	20 dB Bandwidth (kHz)	Limit(kHz): No wider than 0.25% of the center frequency	Conclusion
433.92	46	433.92*0.25%=1.085MHz	PASSED



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~~9. Stop Transmitting Time Test~~**9.1. Test Equipment**

Band Edge Compliance test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2015/11
2	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2015/03
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2015/03

9.2. Test Information

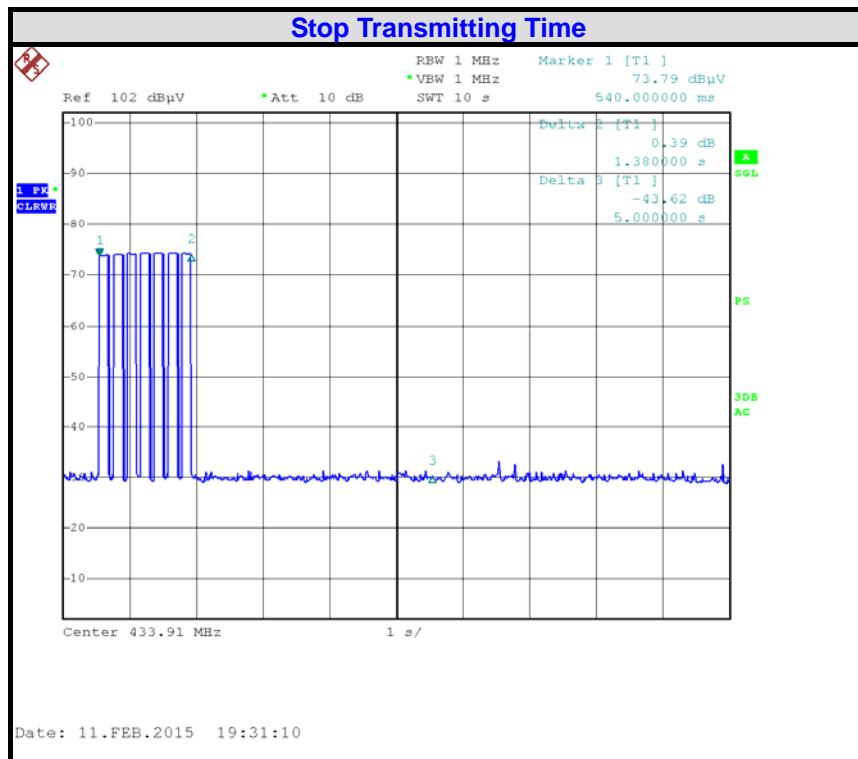
EUT:	Alarm System
M/N:	HU-100
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.231(a)
Test mode:	Transmitting
Test Frequency:	433.92 MHz
Test Date:	11 February 2014
Test By:	Duke

9.3. Test Results**PASSED.**

The testing data was attached in the next pages.

Set the spectrum to zero span, activated the EUT automatically, And then, we could see the transmitting wave in the spectrum, when the time marker went to “1R”, released the EUT, After 1.38s, we could see the EUT stop transmitting.

Frequency (MHz)	Stop Transmitting Time	Limit: not more than 5 seconds of being released	Conclusion
433.92	1.38s	5s	PASSED



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10. Pulse Desensitization Correction Factor

10.1. Test Equipment

Band Edge Compliance test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2015/11
2	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2015/03
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2015/03

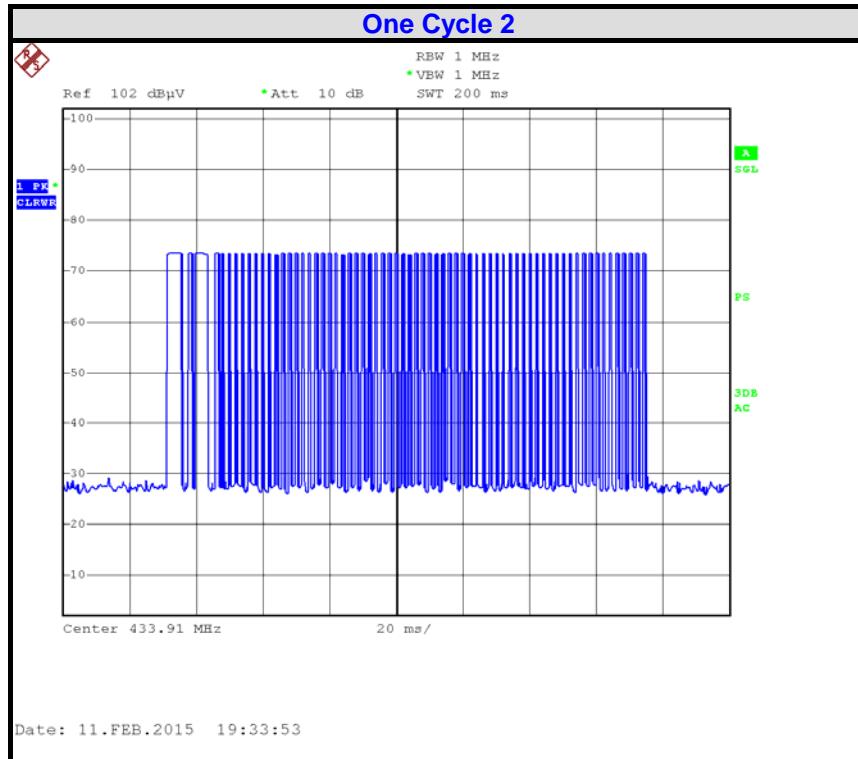
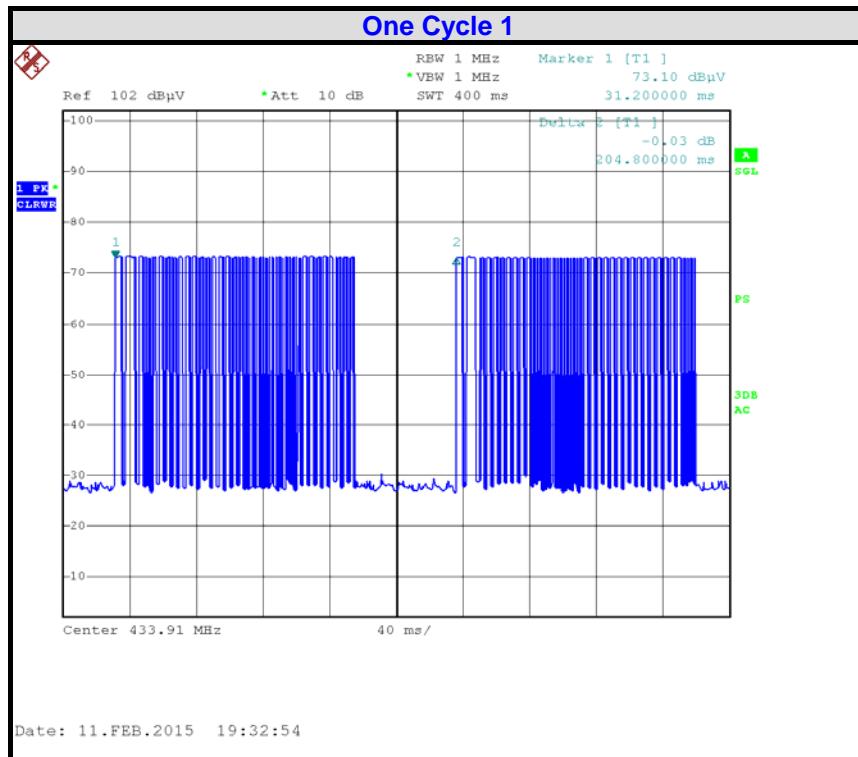
10.2. Test Information

EUT:	Alarm System
M/N:	HU-100
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.231
Test mode:	Transmitting
Test Frequency:	433.92 MHz
Test Date:	11 February 2014
Test By:	Duke

10.3. Test Results

PASSED.

The testing data was attached in the next pages.



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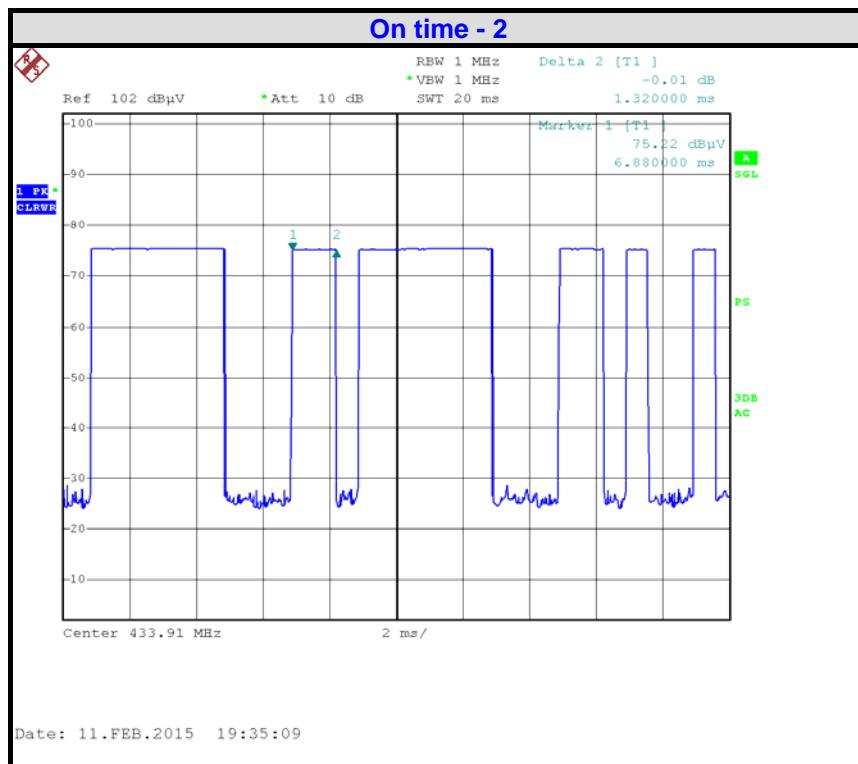
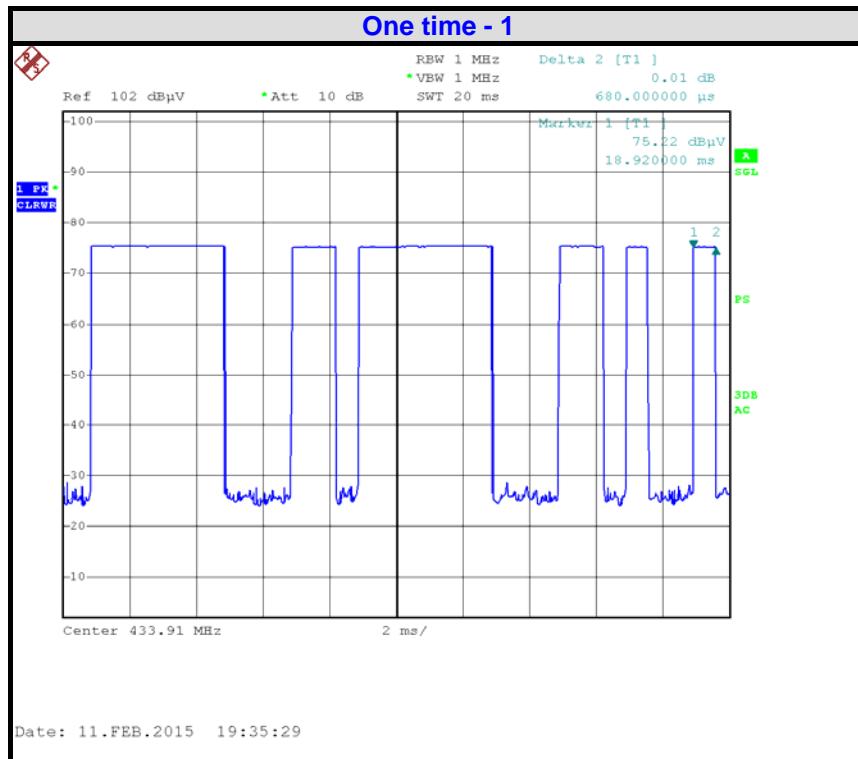
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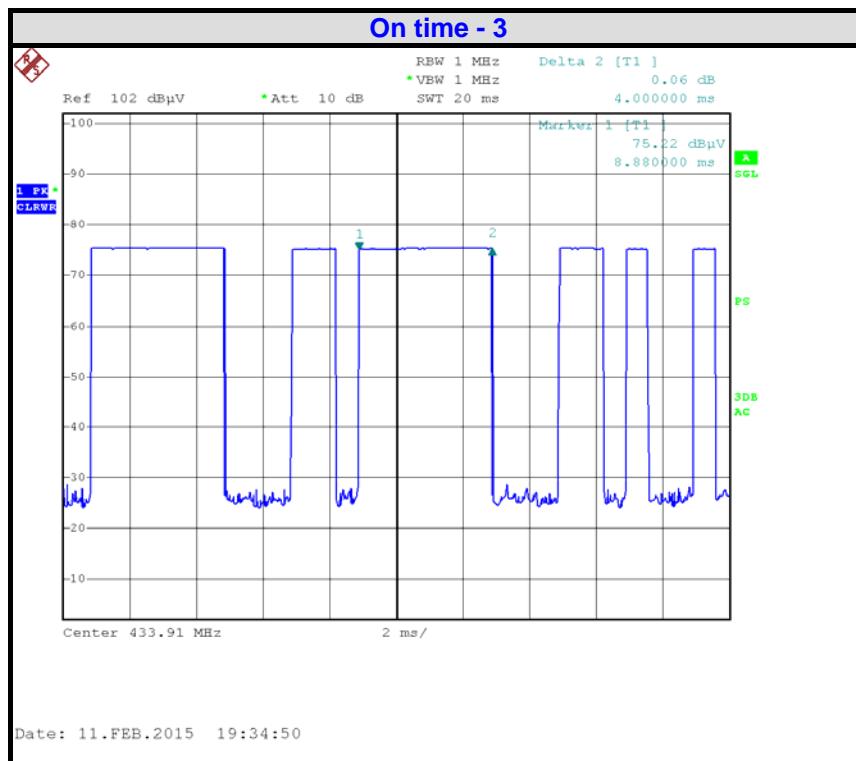
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Test Data

$Ton+off=204.8$ ms(which exceeds 0.1 seconds, and use the formula $Ton/100ms$ to calculate the duty-cycle correction factor)

$$Ton=0.68*56+1.32*10+4.0*2=59.28ms$$

$$\text{Duty cycle Correction Factor}=20*\log(Ton/Ton+off)=20*\log 59.28ms /100ms= -4.54dB$$

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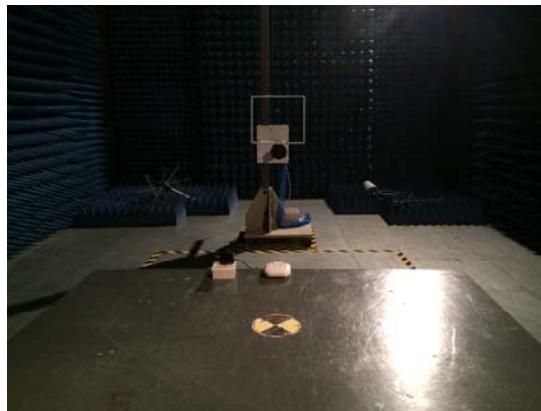
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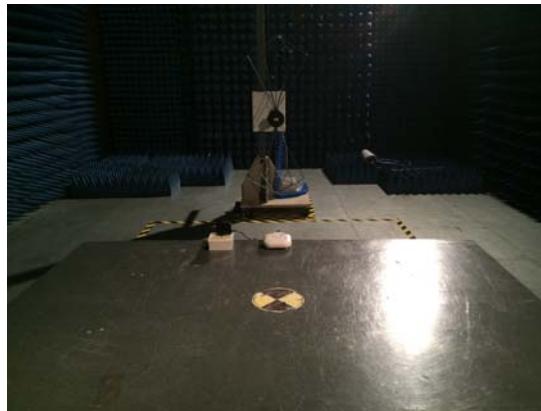
11. TEST PHOTOGRAPHS

11.1. Photos of TX Radiated Emission Test (In Anechoic Chamber)

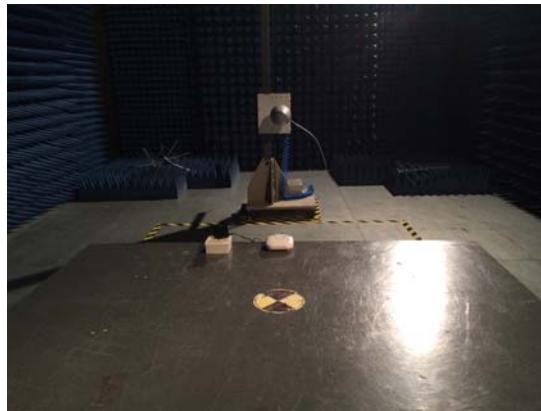
Below 30MHz



Below 1GHz



Above 1GHz



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12. External and Internal Photos of the EUT**External view****External view-1****External view-2**

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External view-3



External view-4



External view-5

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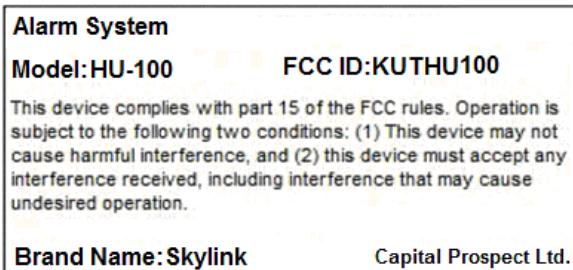
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External view-6



Adapter Label view



Label

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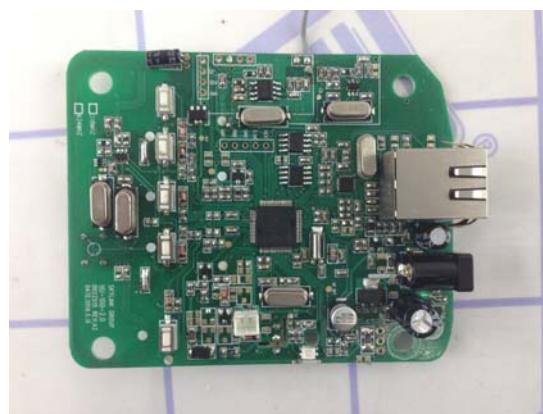
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Internal view



PCB Side 1 view



PCB Side 2 view

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13. Manufacturer/ Approval holder Declaration

The following identical model(s):

N/A

Belong to the tested device:

Product description: **Alarm System**

Model name: **HU-100**

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