



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER : CGZ3121015-00833-EF



CENTRE OF TESTING SERVICE CO., LTD.

**2/F., South Tower, Huoju Building, No.181, Canghai Road,
Jiangdong Science and Technology Park, Ningbo, Zhejiang, China**



TEST REPORT For FCC ID

47 CFR PART 15 OCT, 2012

Report Reference No. **CGZ3121015-00833-EF**

Date of issue..... 07 December 2012

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

Address..... Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.

Testing location/ procedure Full application of Harmonised standards ☒

Partial application of Harmonised standards ☐

Other standard testing method ☐

Applicant's name..... Quanzhou Future Robot Technology Co., Ltd.

Address..... No.153, Zhongbao road, Xibao Community, Fengze District, Quanzhou, Fujian, China

Test specification

Standard **47 CFR PART 15 OCT, 2012, ANSI C63.4-2009**

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 RBOT

Trade Mark RBOT

Manufacturer..... Quanzhou Future Robot Technology Co., Ltd.

Model/Type reference..... RBOT 100

Ratings..... Battery 12V, AC 100~240V for Charger Adapter

Operating Frequency..... /

Result **PASSED**

Compiled by:

Kate zhang / File administrators

Supervised by:

Duke yang / Technique principal

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Vincent yao / Manager

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

Test Report No. :	CGZ3121015-00833-EF	<u>07 December 2012</u> Date of issue
--------------------------	----------------------------	--

Type / Model.....	RBOT 100
EUT.....	RBOT
Applicant.....	Quanzhou Future Robot Technology Co., Ltd.
Address.....	No.153, Zhongbao road, Xibao Community, Fengze District,Quanzhou, Fujian, China
Telephone.....	+86-595-22776165
Fax.....	+86-595-22776165
Contact.....	MR. STEVEN YAN
Manufacturer.....	Quanzhou Future Robot Technology Co., LTd.
Address.....	No.153, Zhongbao road, Xibao Community, Fengze District,Quanzhou, Fujian, China
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Factory	Quanzhou Future Robot Technology Co., Ltd.
Address.....	No.153, Zhongbao road, Xibao Community, Fengze District,Quanzhou, Fujian, China
Telephone.....	+86-595-22776165
Fax.....	+86-595-22776165
Contact.....	MR. STEVEN YAN

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, 2012
- ANSI C63.4-2009

2. SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	15 October 2012
Testing commenced on	16 October 2012 - 07 December 2012
Testing concluded on	07 December 2012

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.

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3. EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : ☒ Battery 12V, AC 100~240V for Charger Adapter
☐ 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:

- ☒ -Charging
- ☒ -Normal

Operation mode 1: Normal
Operation mode 2: Charging

Note: 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	:	RBOT
Model Number	:	RBOT 100

3.4.2. Tested Supporting System Details

3.4.2.1. Server

M/N	:	N/A
S/N	:	N/A
Manufacturer	:	DELL
Power Cord	:	Unshielded, Detachable, 1.8m , 3Pin
FCC	:	By DoC

3.4.2.2. PC

M/N	:	390MT
S/N	:	37217371837
Manufacturer	:	DELL
Power Cord	:	Unshielded, Detachable, 1.8m , 3Pin
FCC	:	By DoC

3.4.2.3. Router

M/N	:	E3000
S/N	:	N/A
Manufacturer	:	CISCO
Power Cord	:	Unshielded, Detachable, 1.5m , 2Pin
FCC	:	ID

3.4.2.4. Monitor

M/N	:	ST-2220Lb
S/N	:	CN-0HXG85-74261-18K-139M
Manufacturer	:	DELL
Power Cord	:	Unshielded, Detachable, 1.5m , 2Pin
FCC	:	DOC

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4. TEST ENVIRONMENT

4.1 Address of the test laboratory

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

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

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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 June 6, 2011 .

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	$\pm 1.22\text{dB}$	(1)
Power disturbance	30MHz~300MHz	$\pm 1.38\text{dB}$	(1)
Radiation emission (3m)	30MHz~300MHz	$\pm 3.14\text{dB}$	(1)
	300MHz~1000MHz	$\pm 3.18\text{dB}$	(1)
	1GHz~18GHz	$\pm 3.54\text{dB}$	(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 C63.4-2009 FCC Part 15 B: 15.107	PASSED
Radiated Emission Test	ANSI C63.4-2009 FCC Part 15 B: 109	PASSED
N/A is an abbreviation for Not Applicable.		

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6. Power Line Conducted Emission Test

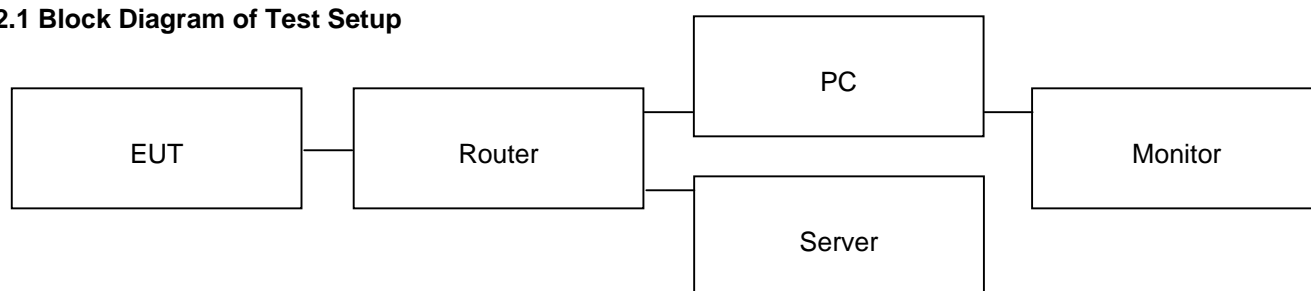
6.1.1 Description of the test location

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	2011/12
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2011/12
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/026	2011/12
4	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2011/12
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2011/12

6.2.1 Block Diagram of Test Setup



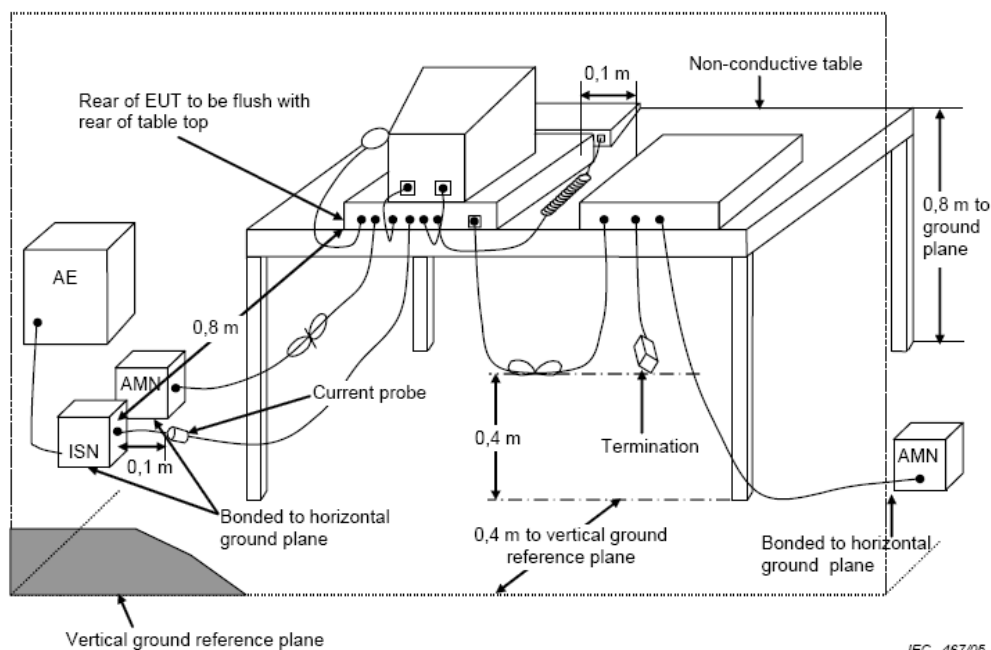
(EUT: RBOT)

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



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.

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6.2.4 Test result

The requirements are	Fulfilled
Band width	9kHz
Frequency range	0.15 MHz - 30 MHz
Min. limit margin	>2.02 dB at 0.15 - 30 MHz

Remarks: The limits are kept. For detailed results, please see the following page(s).

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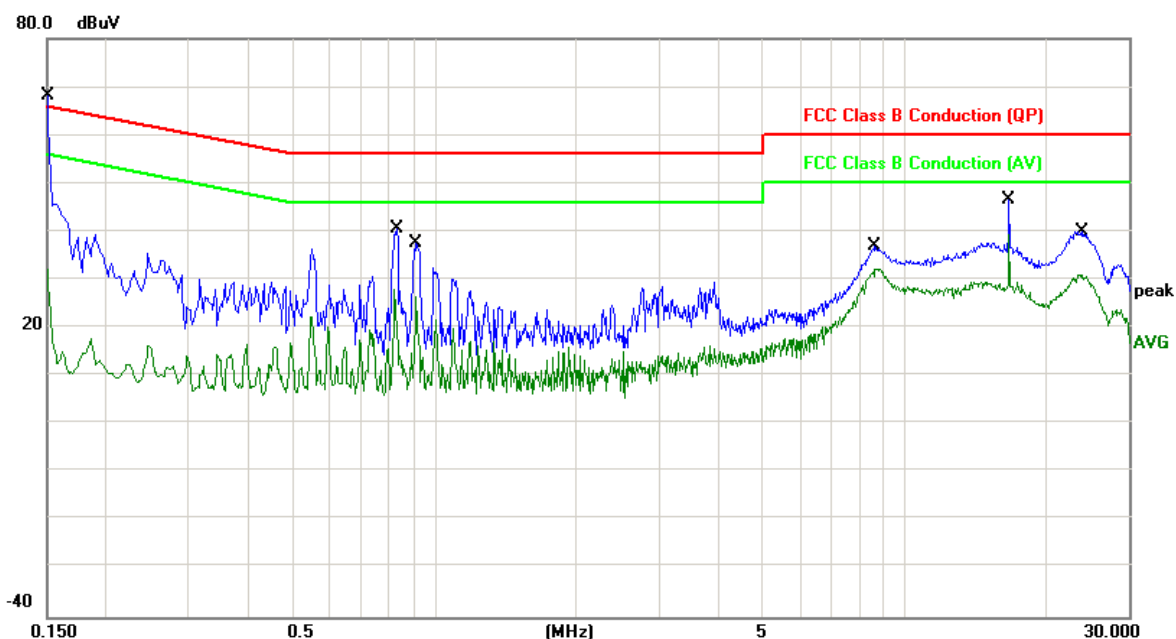
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6.2.5 Test protocol

Test point	L	Result:	■ - passed
Operation mode	Charging		□ - not passed
Remarks:	/		
EUT	HVAC		
MODEL NO.	RBOT 100		
Operating Condition	AC 120V/60Hz for Charger adapter		
Test Condition	Ambient Temperature: 24°C Humidity: 56%		
Operator	Duke		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	9.99	53.98	63.97	65.99	-2.02	QP
2	0.1500	9.99	22.41	32.40	55.99	-23.59	AVG
3	0.8342	10.11	28.72	38.83	56.00	-17.17	QP
4	0.8342	10.11	10.61	20.72	46.00	-25.28	AVG
5	0.9181	10.11	25.44	35.55	56.00	-20.45	QP
6	0.9181	10.11	14.81	24.92	46.00	-21.08	AVG
7	8.6382	10.14	23.81	33.95	60.00	-26.05	QP
8	8.6382	10.14	19.73	29.87	50.00	-20.13	AVG
9	16.7099	10.20	25.16	35.36	60.00	-24.64	QP
10	16.7099	10.20	18.58	28.78	50.00	-21.22	AVG
11	24.0101	10.45	21.97	32.42	60.00	-27.58	QP
12	24.0101	10.45	13.62	24.07	50.00	-25.93	AVG

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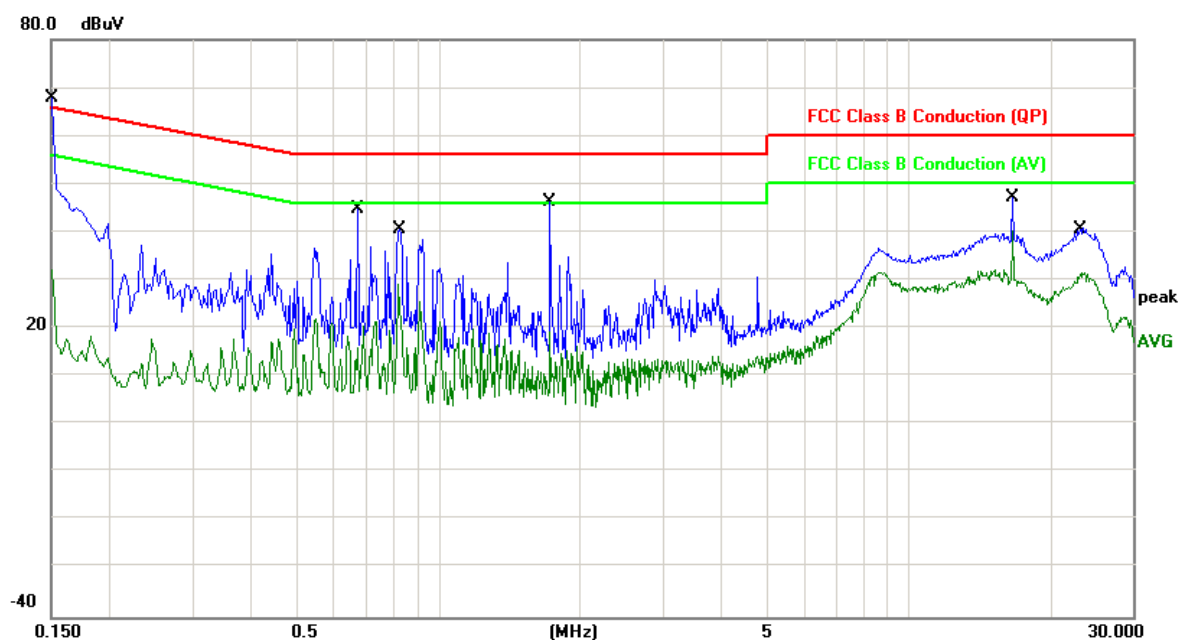
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Test point:	N	Result:	<input checked="" type="checkbox"/> - passed
Operation mode	Charging		<input type="checkbox"/> - not passed
Remarks:			



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	9.99	53.94	63.93	65.99	-2.06	QP
2	0.1500	9.99	24.68	34.67	55.99	-21.32	AVG
3	0.6741	10.09	9.99	20.08	56.00	-35.92	QP
4	0.6741	10.09	-3.50	6.59	46.00	-39.41	AVG
5	0.8300	10.11	27.96	38.07	56.00	-17.93	QP
6	0.8300	10.11	10.83	20.94	46.00	-25.06	AVG
7	1.7300	10.09	10.22	20.31	56.00	-35.69	QP
8	1.7300	10.09	1.21	11.30	46.00	-34.70	AVG
9	16.6580	10.20	27.44	37.64	60.00	-22.36	QP
10	16.6580	10.20	18.39	28.59	50.00	-21.41	AVG
11	22.9341	10.39	25.35	35.74	60.00	-24.26	QP
12	22.9341	10.39	17.78	28.17	50.00	-21.83	AVG

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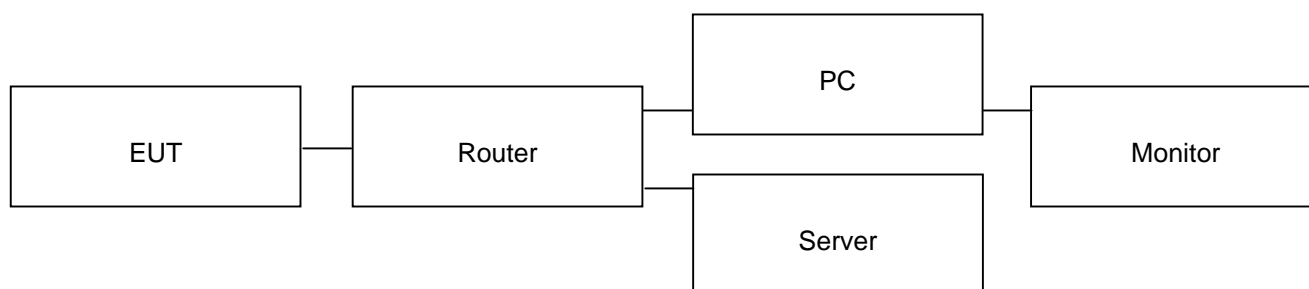
7. Radiated disturbance (electric field)

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	2011/12
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2011/12
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2011/12
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2011/12
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2011/12
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2011/12

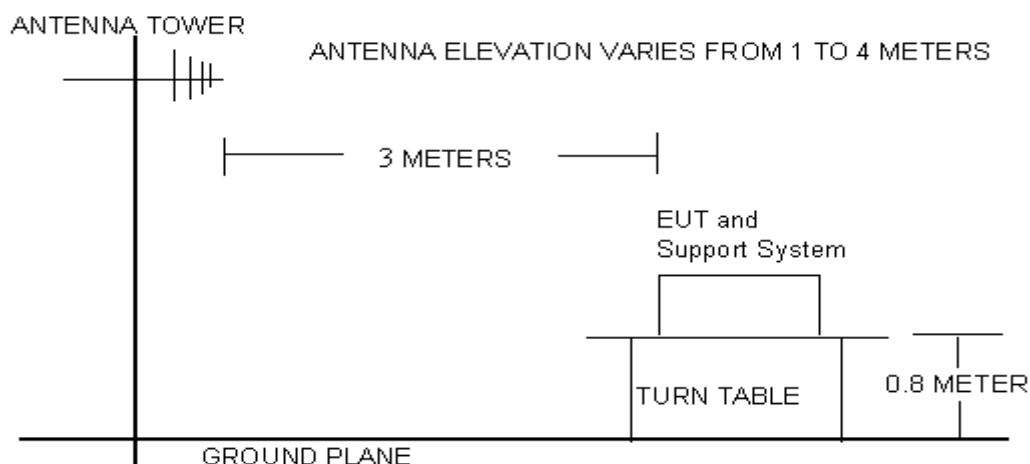
7.2.Block Diagram of Test Setup

7.2.1 Block Diagram of connection between EUT and simulators



(EUT:RBOT)

7.2.2 Anechoic Chamber Setup Diagram



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7.3.Radiated Emission Limit Standard: FCC 109

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
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 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Remark: (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$
 (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 C63.4-2009 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,

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, Pretest of EUT, final, select the worst case test and record the test results in the report.

The test modes is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

7.5.Radiated Emission Test Results

The requirements are	Fulfilled
Band width	100KHz for 30MHz~1GHz, 1MHz for 1GHz~18GHz
Frequency range	30MHz – 18GHz
Min. limit margin	>6.29 dB at 30 MHz~18GHz

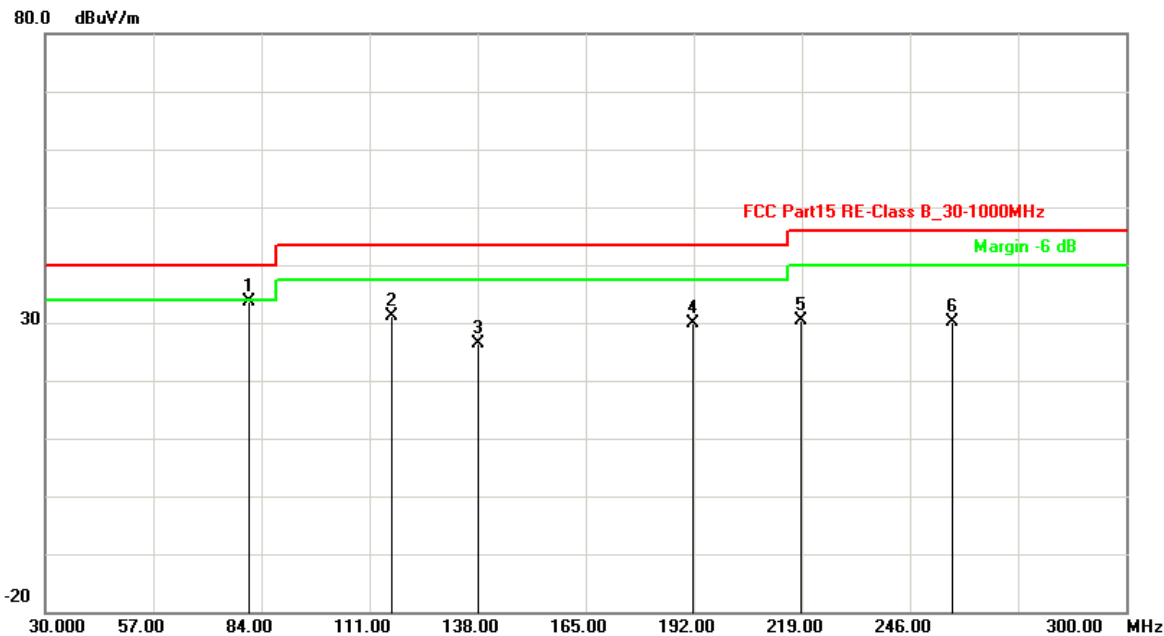
Remarks: The limits are kept. For detailed results, please see the following page(s).



Test point:	Horizontal	Result:	■ - passed
Frequency range:	30MHz-18GHz		□ - not passed
Test Mode:	Normal		

EUT	RBOT
Operating Condition	AC 120V/60Hz for Charger adapter
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	16 October 2012 - 07 December 2012
Operator	Duke
MODEL NO	RBOT 100

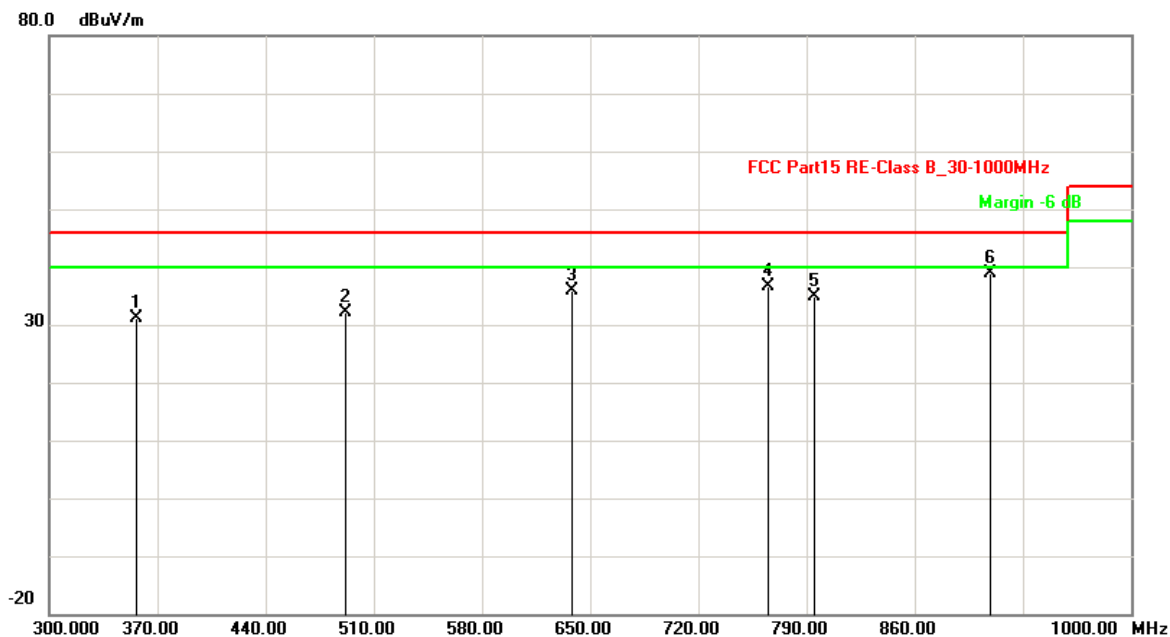
Below 1GHz



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	80.8617	-21.60	55.31	33.71	40.00	-6.29	QP
2	116.5731	-18.96	50.01	31.05	43.50	-12.45	QP
3	138.2164	-16.50	42.95	26.45	43.50	-17.05	QP
4	191.7836	-12.13	42.04	29.91	43.50	-13.59	QP
5	218.8377	-12.39	42.66	30.27	46.00	-15.73	QP
6	256.7134	-12.67	42.80	30.13	46.00	-15.87	QP

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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	356.1122	-13.74	44.93	31.19	46.00	-14.81	QP
2	492.1844	-9.98	42.07	32.09	46.00	-13.91	QP
3	638.0762	-7.56	43.37	35.81	46.00	-10.19	QP
4	765.7315	-5.62	42.20	36.58	46.00	-9.42	QP
5	795.1904	-7.89	42.86	34.97	46.00	-11.03	QP
6	908.8176	-4.18	43.01	38.83	46.00	-7.17	QP

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	1771.543	-1.26	40.71	39.45	74.00	-34.55	peak
2	1771.543	-1.26	26.62	25.36	54.00	-28.64	AVG
3	2256.513	1.37	40.41	41.78	74.00	-32.22	peak
4	2256.513	1.37	25.00	26.37	54.00	-27.63	AVG
5	3777.555	9.10	38.78	47.88	74.00	-26.12	peak
6	3777.555	9.10	22.01	31.11	54.00	-22.89	AVG
7	4879.760	11.88	36.66	48.54	74.00	-25.46	peak
8	4879.760	11.88	20.26	32.14	54.00	-21.86	AVG
9	5783.567	14.68	37.50	52.18	74.00	-21.82	peak
10	5783.567	14.68	22.60	37.28	54.00	-16.72	AVG
11	7789.579	18.90	35.41	54.31	74.00	-19.69	peak
12	7789.579	18.90	19.76	38.66	54.00	-15.34	AVG

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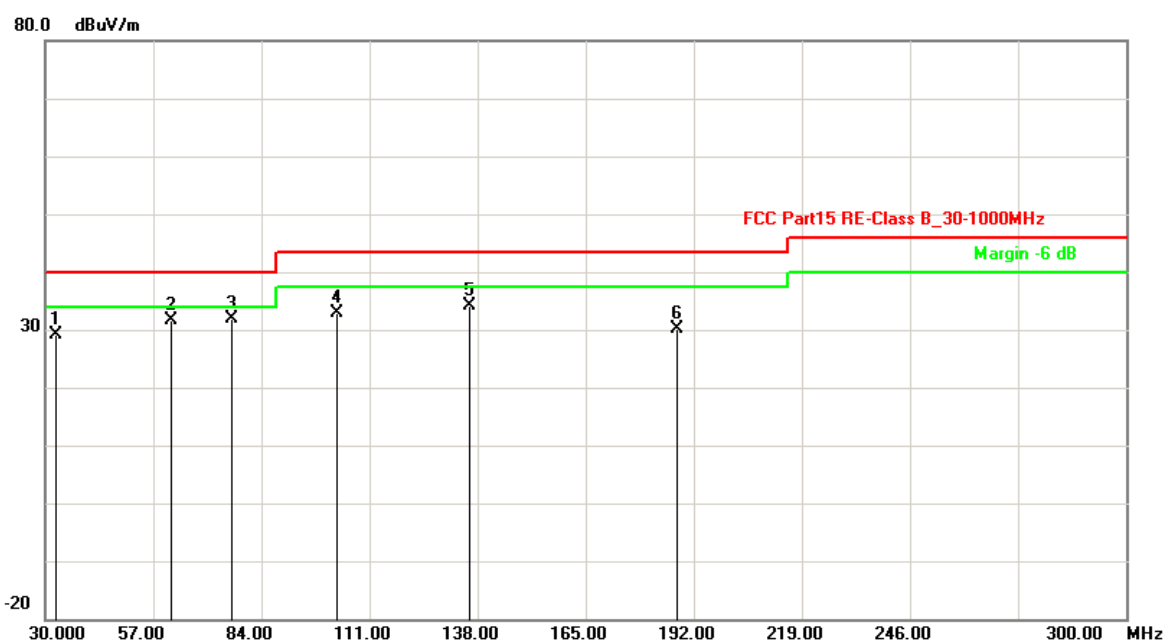
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Test point:	Vertical	Result:	■ - passed
Frequency range:	30MHz-18GHz		□ - not passed
Test Mode:	Normal		

EUT	RBOT
Operating Condition	AC 120V/60Hz for Charger adapter
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	16 October 2012 - 07 December 2012
Operator	Duke
MODEL NO	RBOT 100



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	32.7054	-23.95	53.07	29.12	40.00	-10.88	QP
2	61.3828	-24.05	55.62	31.57	40.00	-8.43	QP
3	76.5331	-21.44	53.30	31.86	40.00	-8.14	QP
4	103.0461	-22.36	55.15	32.79	43.50	-10.71	QP
5	136.0521	-16.65	50.85	34.20	43.50	-9.30	QP
6	187.9960	-12.72	42.84	30.12	43.50	-13.38	QP

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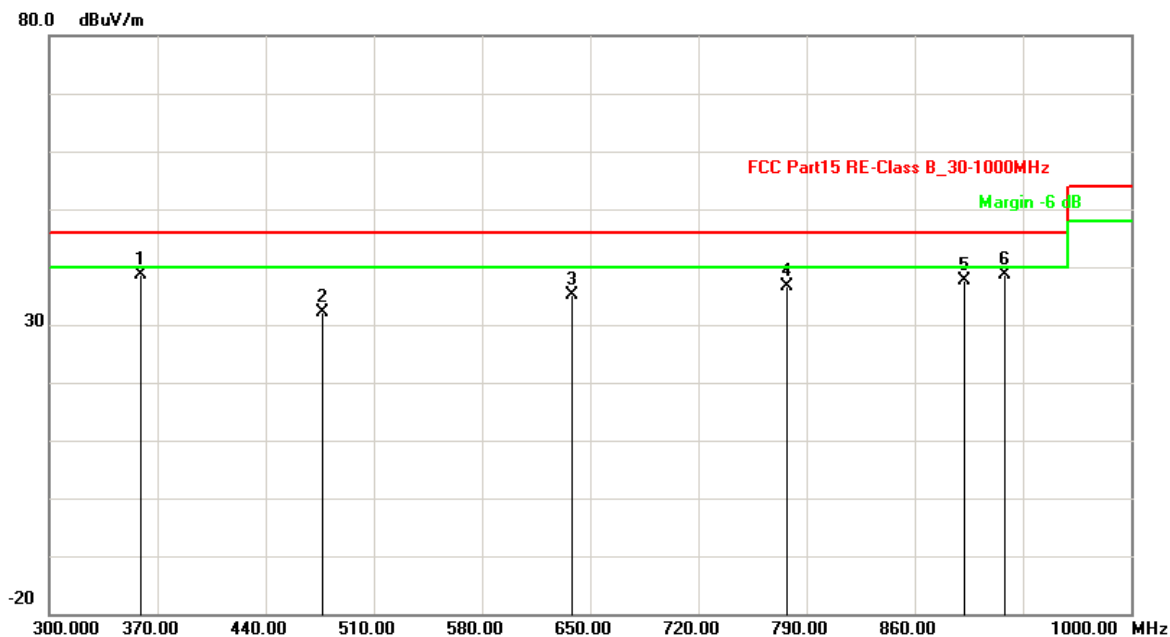
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	358.9178	-13.85	52.58	38.73	46.00	-7.27	QP
2	476.7535	-10.28	42.37	32.09	46.00	-13.91	QP
3	638.0762	-7.56	42.63	35.07	46.00	-10.93	QP
4	776.9539	-5.88	42.41	36.53	46.00	-9.47	QP
5	891.9840	-4.33	42.02	37.69	46.00	-8.31	QP
6	918.6373	-4.48	43.20	38.72	46.00	-7.28	QP

Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	2212.425	0.94	41.52	42.46	74.00	-31.54	peak
2	2212.425	0.94	25.74	26.68	54.00	-27.32	AVG
3	3270.541	7.47	40.22	47.69	74.00	-26.31	peak
4	3270.541	7.47	26.06	33.53	54.00	-20.47	AVG
5	4416.834	10.79	37.22	48.01	74.00	-25.99	peak
6	4416.834	10.79	22.86	33.65	54.00	-20.35	AVG
7	5100.200	12.48	36.24	48.72	74.00	-25.28	peak
8	5100.200	12.48	20.50	32.98	54.00	-21.02	AVG
9	5519.038	13.83	37.92	51.75	74.00	-22.25	peak
10	5519.038	13.83	21.26	35.09	54.00	-18.91	AVG
11	7326.653	18.25	35.48	53.73	74.00	-20.27	peak
12	7326.653	18.25	19.72	37.97	54.00	-16.03	AVG

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

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



8. Manufacturer/ Approval holder Declaration

The following identical model(s):

N/A

Belong to the tested device:

Product description: **RBOT**

Model name: **RBOT 100**

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