

FCC 47 CFR PART 15 SUBPART C TEST REPORT

For

Applicant: DONGGUAN SMARTPOOL PRODUCTS

INCORPORATED CO., LTD.

2TH BILUDING, FENGCHEXIA INDUSTRIAL PARK,

Address: WULIANXIUMUQIAO, FENGGANG TOWN, DONGGUAN

CITY, GUANGDONG, CHINA

Product Name: ROBOTIC POOL CLEANER

Model Name: NC71,NC71QR, NC71QCRC, NC71RC

Brand Name: NITRO

FCC ID: YFS-NC71

Report No.: MOST100411F1

Date of Issue: May 8, 2010

Issued by: Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Address:

Park, Nanshan, Shenzhen, Guangdong, China

Tel: 86-755-8617 0306

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1. VERIFICATION OF CONFORMITY

Equipment Under Test: Robotic Pool Cleaner

Brand Name: NITRO

Model Number: NC71, NC71QR, NC71QCRC, NC71RC

Series Model Difference

description:

Only the model name is different.

FCC ID: YFS-NC71

Applicant: DONGGUAN SMARTPOOL PRODWCTS INCORPORATED CO., LTD.

2th Biluding, Fengchexia Industrial Park, Wulianxiumuqiao, Fenggang Town,

Dongguan City, Guangdong, China

Manufacturer: DONGGUAN SMARTPOOL PRODWCTS INCORPORATED CO., LTD.

2th Biluding, Fengchexia Industrial Park, Wulianxiumuqiao, Fenggang Town,

Dongguan City, Guangdong, China

Technical Standards: 47 CFR Part 15 Subpart C

File Number: MOST100411F1

Date of test: April. 27, 2010 – May 8, 2010

Deviation: None
Condition of Test Sample: Normal
Test Result: PASS

The above equipment was tested by MOST for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Review by (+ signature):

Petter Ping May 8, 2010

Approved by (+ signature):

July Wen May 8, 2010

Terry Yang May 8, 2010

2. GENERAL INFORMATION

2.1 Product Information

Product Name:	Robotic Pool Cleaner
Brand Name:	NITRO
Model Number:	NC71
Power Supply:	DC 3V supplied by the battery
Frequency Range:	912.50 MHz
Channel Number:	1
Modulation Technique:	FSK
Antenna Type:	Internal
Temperature Range:	-20°C ~ +55°C

NOTE:

1. Please refer to Appendix I for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 Objective

The objective of the report is to perform tests according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

N	0.	Identity	Document Title
	1	47 CFR Part 15 (10-1-05 Edition)	Radio Frequency Devices

2.3 Test Standards and Results

Test items and the results are as bellow:

No.	Section	Description	Result	Date of Test
1	15.249(a)	Spurious Emission	PASS	April 29,2010
2	15.249(a)	Band Edge	PASS	May 8,2010
3	15.207	Power Line Conducted Emission Test	PASS	Not Applicable

Note: 1. The test result judgment is decided by the limit of measurement standard

2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

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

- Temperature: 15-35°C - Humidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

3. TEST FACILITY 3.1TEST FACILITY

Test Site: Most Technology Service Co., ltd

Location: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan

Shenzhen, Guangdong, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final

test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003 and CISPR

16 requirements.

The FCC Registration Number is **490827**. The **IC** Registration Number is **46405-7103**.

The CNAS Registration Number is CNAS L3573.

Site Filing: The site description is on file with the Federal Communications

Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4:2003 and CISPR 16

requirements that meet industry regulatory agency and accreditation agency

requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted

Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire

area between the EUT and the antenna.

3.2 GENERAL TEST PROCEDURES

EUT Function and Test Mode

The EUT has been tested under normal operating (TX) and standby (RX) condition.

The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis).

The following data show only with the worst case setup.

The worst case of Y axis was reported.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4:2003, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2003.

3.3 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110 10.495 - 0.505 2.1735 - 2.1905 4.125 - 4.128 4.17725 - 4.17775 4.20725 - 4.20775 6.215 - 6.218 6.26775 - 6.26825 6.31175 - 6.31225	16.42 - 16.423 16.69475 - 16.69525 16.80425 - 16.80475 25.5 - 25.67 37.5 - 38.25 73 - 74.6 74.8 - 75.2 108 - 121.94 123 - 138	399.9 - 410 608 - 614 960 - 1240 1300 - 1427 1435 - 1626.5 1645.5 - 1646.5 1660 - 1710 1718.8 - 1722.2 2200 - 2300	4.5 - 5.15 5.35 - 5.46 7.25 - 7.75 8.025 - 8.5 9.0 - 9.2 9.3 - 9.5 10.6 - 12.7 13.25 - 13.4 14.47 - 14.5
8.291 - 8.294 8.362 - 8.366 8.37625 - 8.38675 8.41425 - 8.41475 12.29 - 12.293 12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41	149.9 - 150.05 156.52475 - 156.52525 156.7 - 156.9 162.0125 - 167.17 167.72 - 173.2 240 - 285 322 - 335.4	2310 - 2390 2483.5 - 2500 2655 - 2900 3260 - 3267 3332 - 3339 3345.8 - 3358 3600 - 4400	15.35 - 16.2 17.7 - 21.4 22.01 - 23.12 23.6 - 24.0 31.2 - 31.8 36.43 - 36.5 (²)

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

² Above 38.6

4. SETUP OF EQUIPMENT UNDER TEST

4.1 SUPPORT EQUIPMENT

Device Type	Brand	Model	FCC ID	Series No.	Data Cable	Power Cord
N/A						

Remark:

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.2 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	mentation from 10 kHz to 1 Equipment	Manufacturer	Model No.	S/N	Calibration due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2011/03/14
2	L.I.S.N.	L.I.S.N. Rohde & Schwarz ENV216		100093	2011/03/14
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2011/03/14
4	Terminator	Hubersuhner	50Ω	No.1	2011/03/14
5	RF Cable	SchwarzBeck	N/A	No.1	2011/03/14
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2011/03/14
7	Bilog Antenna	SCHWARZBECK	BBHA9120D	D69250	2011/03/14
8	Cable	Resenberger	N/A	NO.1	2011/03/14
9	Cable	SchwarzBeck	N/A	NO.2	2011/03/14
10	Cable	SchwarzBeck	N/A	NO.3	2011/03/14
11	DC Power Filter	DuoJi	DL2×30B	N/A	2011/03/14
12	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2011/03/14
13	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2011/03/14
14	Test Receiver	Rohde & Schwarz	ESCI	100492	2011/03/14
15	Absorbing Clamp	Luthi	MDS21	3635	2011/03/14
16	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2011/03/14
17	AC Power Source	Kikusui	AC40MA	LM003232	2011/03/14
18	Test Analyzer	Kikusui	KHA1000	LM003720	2011/03/14
19	Line Impendence Network	Kikusui	LIN40MA- PCR-L	LM002352	2011/03/14
20	ESD Tester	Kikusui	KES4021	LM003537	2011/03/14
21	EMCPRO System	EM Test	UCS-500-M4	V0648102026	2011/03/14
22	Signal Generator	IFR	2032	203002/100	2011/03/14
23	Amplifier	A&R	150W1000	301584	2011/03/14
24	CDN	FCC	FCC-801-M2-25	47	2011/03/14
25	CDN	FCC	FCC-801-M3-25	107	2011/03/14
26	EM Injection Clamp	FCC	F-203I-23mm	403	2011/03/14
27	RF Cable	MIYAZAKI	N/A	No.1/No.2	2011/03/14
28	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2011/03/14
29	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2011/03/14
30	Telecommunication Test Equipment	R&S	CMU200	N/A	2011/03/14
31	Loop Antenna	SCHWARZBECK	BBHA9120D	D69250	2011/03/14

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 15C 15.249 Requirements

5.1 Spurious Emission Test

5.1.1 Requirement

According to FCC section 15.249(a):

Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (μV/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

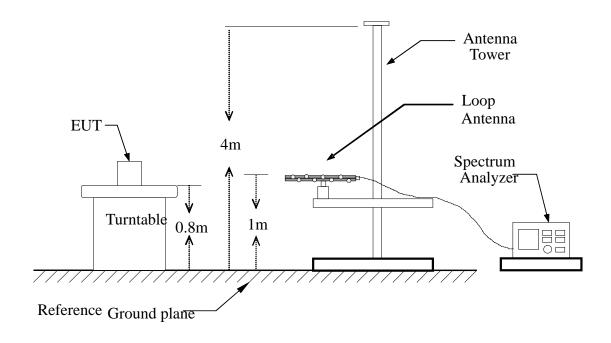
In the above emission table, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

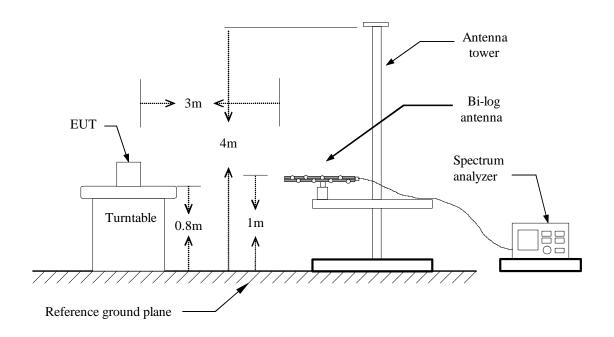
5.1.2 Test Description

Test Setup:

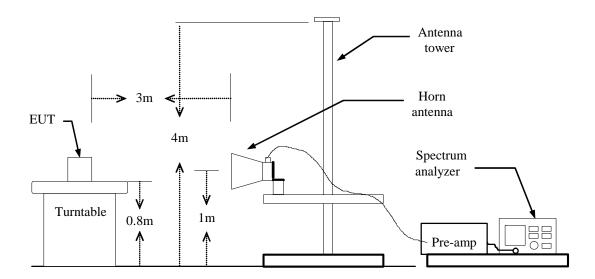
Below 30 MHz:



Below 1GHz:



Above 1GHz:



5.1.3 Test Description

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz:(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

5.1.4 Test Result

Fundamental Emission Level

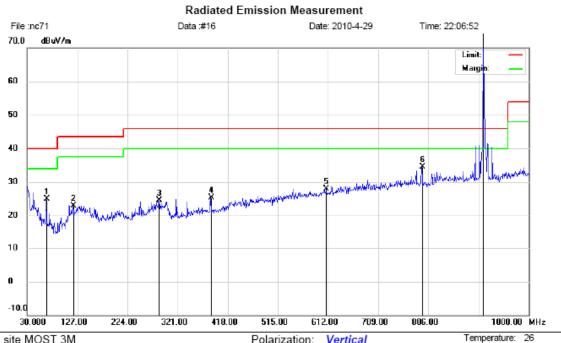
	Ant.	Peak	AV	Ant./	Actua	l Fs	Peak	AV			
Freq. (MHz)	Pol H/V		Reading (dBuV)	CL CF (dB)	Peak (dBuV/m)	AV (dBuV/ m)	Limit (dBuV/m)	Limit	Margin (dB)	Remark	
912.50	Н	61.50		27.65	89.15	1		94.00	-4.85	Peak	
			_		_		_		_	_	
912.50	V	65.18		27.65	92.83			94.00	-1.17	Peak	

Below 1GHz:



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310



Polarization:

Power: DC 3V

Vertical

Distance:

Humidity:

60 %

Site site MOST 3M

Limit: FCC Part15 B 3M Radiation

EUT: Robotic Pool Cleaner

M/N: NC71

Mode: NORMAL WORKING

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBu∀/m	dBu∀/m	dB	Detector	cm	degree	Comment
1		66.8600	13.44	11.45	24.89	40.00	-15.11	peak			
2	1	18.2700	5.53	17.33	22.86	43.50	-20.64	peak			
3	2	84.1400	5.12	19.44	24.56	46.00	-21.44	peak			
4	3	85.0200	7.12	18.20	25.32	46.00	-20.68	peak			
5	6	08.1200	4.74	23.20	27.94	46.00	-18.06	peak			
6	7	93.3900	8.58	25.96	34.54	46.00	-11.46	peak			

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



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement File:nc71 Data:#15 Date: 2010-4-29 Time 22,05:37 90.0 dBuV/m Limit Marg 80 70 60 50 40 30 20 10.0 30.000 127.00 224.00 321.00 418.00 709.00 806.00 1000.00 MHz

Polarization:

Power, DC 3V

Horizontal

Distance:

Site site MOST 3M

Limit: FCC Part15 B 3M Radiation

EUT: Robotic Pool Cleaner

M/N: NC71

Mode: NORMAL WORKING

Note:

No.	Mk.	Freq	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1		79.4700	12.17	11.43	23.60	40.00	-16.40	peak			
2	2	294.8100	5.31	19.30	24.61	46.00	-21.39	peak			
3	2	544.1000	5.24	22.28	27.52	46.00	-18.48	peak			
4	ť	644.0100	5.68	24.04	29.72	46.00	-16.28	peak			
5	9	792.4200	13.73	25.97	39.70	46.00	-6.30	peak			

Temperature: 26

60 %

Humidity:

^{*}Maximum data x:Over limit I cover margin

Below 30 MHz;

Freq	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak	AV	Margin	
Freq. (MHz)					Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	(dB)	Remark
N/A									>20	
									_	
N/A									>20	

Above 1 GHz

_	Ant.	Peak Reading (dBuV)	AV Reading (dBuV)		Actual Fs		Peak	AV		
Freq. (MHz)	Pol H/V				Peak (dBuV/m)	AV (dBuV/m)	Limit	Limit (dBuV/m)	(dB)	Remark
1825.03	Ι	44.13		-11.89	32.24		74.00	54.00	-21.76	Peak
3650.00	Н	44.93		-5.77	39.16		74.00	54.00	-14.84	Peak
N/A									>20	
		•			•			•		•
1825.03	V	46.61		-11.89	34.72		74.00	54.00	-19.28	Peak
3650.00	V	47.15		-5.77	41.38		74.00	54.00	-12.62	Peak
N/A									>20	

Notes:

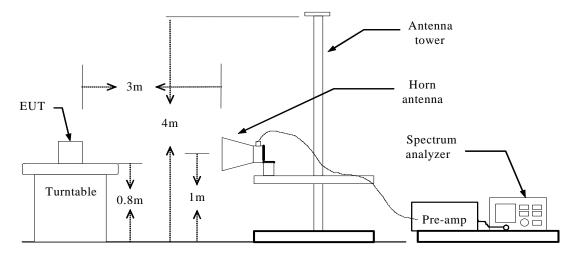
- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

5.2 Band Edge

5.2.1 Requirement

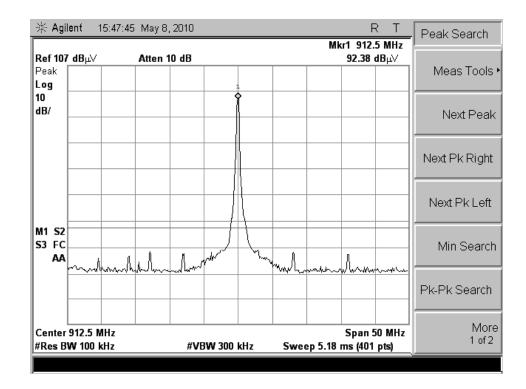
According to FCC section 15.249(d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

5.2.2 Test Description



5.2.3Test Result

The EUT operates at hopping-off test mode. The lowest and highest channels are tested to verify the band edge emissions.



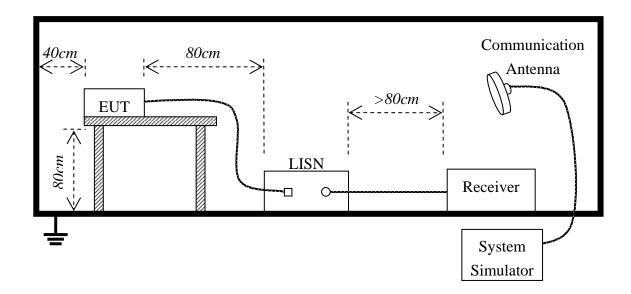
5.3 Power Line Conducted Emission Test (Not Applicable)

5.3.1 Limits of Line Conducted Emission Test

Fraguency	Maximum RF Line Voltage					
Frequency	Q.P.(dBuV)	Average(dBuV)				
150kHz-500kHz	66-56	56-46				
500kHz-5MHz	56	46				
5MHz-30MHz	60	50				

^{**}Note: 1. the lower limit shall apply at the transition frequency.

5.3.2 BLOCK DIAGRAM OF TEST SETUP



^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

5.3.3 PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per FCC Part 15 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

- 2) Support equipment, if needed, was placed as per FCC Part 15.
- 3) All I/O cables were positioned to simulate typical actual usage as per FCC Part 15.
- 4) The EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5) All support equipments received power from a second LISN supplying power of AC 120V/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test:

Preliminary Conducted Emission Test									
Frequency Range I	nvestigated	150KHz TO 30 MHz							
Mode of operation	Mode of operation Date		Data#	Worst Mode					

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

5.3.4 FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

EUT and support equipment was set up on the test bench as per step 9 of the preliminary test.

A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

The test data of the worst case condition(s) was reported on the Summary Data page.

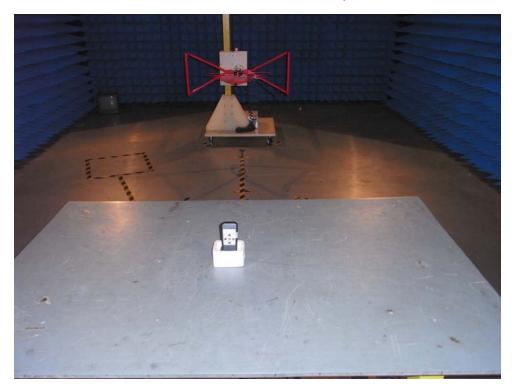
5.3.5 TEST RESULT OF LINE CONDUCTED EMISSION TEST

The EUT Power is battery.

Not Applicable

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP





APPENDIX 2 PHOTOGRAPHS OF EUT

FRONT VIEW OF THE RECEIVER



BACK VIEW OF THE RECEIVER



LEFT VIEW OF THE RECEIVER



RIGHT VIEW OF THE RECEIVER



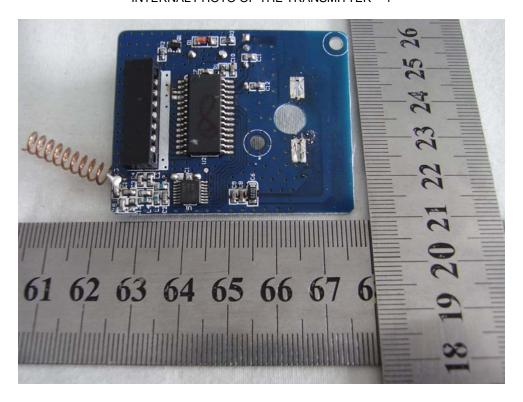
TOP VIEW OF THE RECEIVER



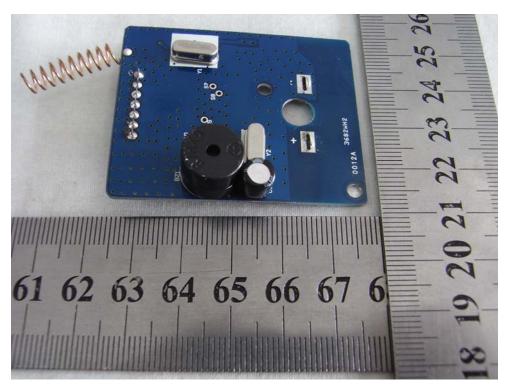
BOTTOM VIEW OF THE RECEIVER



INTERNAL PHOTO OF THE TRANSMITTER - 1



INTERNAL PHOTO OF THE TRANSMITTER - 2



-----END OF REPORT-----