Test Report of FCC CFR 47 Part 15 Subpart B

On Behalf of

Guangdong Yinrun Industry Co., LTD.

Yinrun Ind. Garden, Laimei Zone, Chenghai, Shantou City, Guangdong, China

FCC ID: XHT-SC-49MR

Product Description: TOY-R/C SAVAGE

Model No.: 8008,8009(Two model just different with colour)

Prepared for: Guangdong Yinrun Industry CO., LTD.

Yinrun Ind. Garden, Laimei Zone, Chenghai, Shantou City,

Guangdong, China

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1 - GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Guangdong Yinrun Industry CO., LTD.

Address of applicant: Yinrun Ind. Garden, Laimei Zone, Chenghai, Shantou City,

Guangdong, China

Manufacturer: Guangdong Yinrun Industry CO., LTD.

Address of manufacturer: Yinrun Ind. Garden, Laimei Zone, Chenghai, Shantou City,

Guangdong, China

General Description of E.U.T

Items	Description			
EUT Description:	TOY-R/C SAVAGE			
Trade Name:	N/A			
Test Model:	8008			
Supplementary Model:	8009(Two models just different with colour)			
Adapter description:	Product name:AC/DC ADAPTOR			
	Model: G-35207			
	Input: 100-240V 50/60Hz			
	Output: DC 7.2V 250mA Length:1.5m			
	Trademark: C&G			
Rechargeable Battery	6*1.2DC			

Remark: * The test data gathered are from the production sample provided by the manufacturer.

1.2 Test Standards

The following Declaration of Conformity report of EUT is prepared in accordance with FCC Rules and Regulations Part 15 Subpart B 2006

The objective of the manufacturer is to demonstrate compliance with the described above standards.

1.3 Test Summary

For the EUT described above. The standards used were FCC Part 15 Subpart B for Emissions

Table 1: Tests Carried Out Under FCC Part 15 Subpart B

Standard	Test Items	Status
FCC Part 15 Subpart B	Conduction Emission, 0.15MHz to 30MHz	$\sqrt{}$
FCC Part 15 Subpart B	Radiation Emission, 30MHz to 1000MHz	$\sqrt{}$

- $\sqrt{}$ Indicates that the test is applicable
- × Indicates that the test is not applicable

1.4 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

The maximum emission levels emanating from the device are compared to the FCC Part 15 Subpart B limits for radiation emissions and the measurement results contained in this test report show that EUT is to be technically compliant with FCC requirements.

All measurement required was performed at BONTEK COMPLIANCE TESTING LABORATORY LTD at 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China

1.5 Test Facility

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

FCC - Registration No.: 338263

BONTEK COMPLIANCE TESTING LABORATORY 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 338263, March, 2008.

IC Registration No.: 7631A

The 3m alternate test site of BONTEK COMPLIANCE TESTING LABORATORY LTD EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 7631A on August 2009.

CNAS - Registration No.: L3923

BONTEK COMPLIANCE TESTING LABORATORY LTD to ISO/IEC 17025:25 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

The acceptance letter from the CNAS is maintained in our files: Registration:L3923,February,2009.

TUV - Registration No.: UA 50145371-0001

BONTEK COMPLIANCE TESTING LABORATORY LTD An assessment of the laboratory was conducted according to the "Procedures and Conditions for EMC Test Laboratories" with reference to EN ISO/IEC 17025 by a TUV Rheinland auditor. Audit Report NO. 17010783-001

2 - SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

2.3 General Test Procedures

Conducted Emissions: The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.1 of ANSI C63.4-2003 and Part 15.207. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode.

Radiated Emissions: The EUT is a placed on as turntable, 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 and Part 15.209.

2.4 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Power Line Conducted Emission	+/- 2.3 dB
Radiated Emission	+/- 3.4 dB

Uncertainty figures are valid to a confidence level of 95%.

2.5 EUT Exercise Software

The EUT exercising program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software offered by manufacture, can let the EUT being Normal operation.

2.6 List of Measuring Equipments Used

Test equipments list of BONTEK COMPLIANCE TESTING LABORATORY LTD.

No.	Instrument no.	Equipment	Manufacturer	Model No.	S/N	Calculator date	Calculator due date
1	BCT- EMC001	EMI Test Receiver	R&S	ESCI	100687	2010-4-14	2011-4-13
2	BCT- EMC002	EMI Test Receiver	R&S	ESPI	100097	2010-4-14	2011-4-13
3	BCT- EMC003	Amplifier	HP	8447D	1937A02492	2010-4-14	2011-4-13
4	BCT- EMC004	Single Power Conductor Module	FCC	FCC-LISN-5- 50-1-01- CISPR25	07101	2010-4-14	2011-4-13
5	BCT- EMC005	Single Power Conductor Module	FCC	FCC-LISN-5- 50-1-01- CISPR25	07102	2010-4-14	2011-4-13
6	BCT- EMC006	Power Clamp	SCHWARZBECK	MDS-21	3812	2010-4-14	2011-4-13
7	BCT- EMC007	Positioning Controller	C&C	CC-C-1F	MF7802113	N/A	N/A
8	BCT- EMC008	`Electrostatic Discharge Simulator	TESEQ	NSG437	125	2010-4-14	2011-4-13
9	BCT- EMC009	Fast Transient Burst Generator	SCHAFFNER	MODULA6150	34572	2010-4-14	2011-4-13
10	BCT- EMC010	Fast Transient Noise Simulator	Noiseken	FNS-105AX	31485	2010-4-14	2011-4-13
11	BCT- EMC011	Color TV Pattern Genenator	PHILIPS	PM5418	TM209947	N/A	N/A
12	BCT- EMC012	Power Frequency Magnetic Field Generator	EVERFINE	EMS61000-8K	608002	2010-4-14	2011-4-13
13	BCT- EMC013	N/A	N/A	N/A	N/A	N/A	N/A
14	BCT- EMC014	Capacitive Coupling Clamp	TESEQ	CDN8014	25096	2010-4-14	2011-4-13
15	BCT- EMC015	High Field Biconical Antenna	ELECTRO- METRICS	EM-6913	166	2010-4-14	2011-4-13

		1		7	T	r	
16	BCT- EMC016	Log Periodic Antenna	ELECTRO- METRICS	EM-6950	811	2010-4-14	2011-4-13
17	BCT- EMC017	Remote Active Vertical Antenna	ELECTRO- METRICS	EM-6892	304	2010-4-14	2011-4-13
18	BCT- EMC018	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2010-4-14	2011-4-13
19	BCT- EMC019	Horn Antenna	SCHWARZBECK	BBHA9120A B08000991- 0001		2010-4-14	2011-4-13
20	BCT- EMC020	Teo Line Single Phase Module	SCHWARZBECK	NSLK8128	K8128 D-69250		2011-4-13
21	BCT- EMC021	10dB attenuator	SCHWARZBECK	MTAIMP-136	R65.90.0001#06	2010-4-14	2011-4-13
22	BCT- EMC022	Electric bridge	Zentech	100 LCR METER	803024	N/A	N/A
23	BCT- EMC023	RF Current Probe	FCC	F-33-4	80	2010-4-14	2011-4-13
24	BCT- EMC024	SIGNAL GENERATOR	HP	8647A	3349A02296	2010-4-14	2011-4-13
25	BCT- EMC025	MICROWAVE AMPLIFIER	HP	8349B	2627A00994	2010-4-14	2011-4-13
26	BCT- EMC026	Triple-Loop Antenna	EVERFINE	LLA-2	607004	2010-4-14	2011-4-13
27	BCT- EMC027	CDN	FRANKONIA	M2+M3	A3027019	2009-10-20	2011-10-19
28	BCT- EMC028	6dB Attenuator	FRANKONIA	75-A-FFN-06	1001698	2009-10-20	2010-10-19
29	BCT- EMC029	EMV-Mess- Systeme GMBH	FRANKONIA	FLL-75	1020A1109	2009-10-20	2010-10-19
30	BCT- EMC030	EM Injection Clamp	FCC	F-203I-13mm	091536	2009-10-20	2010-10-19
31	BCT- EMC031	9KHz-2.4GHz Signal generator	MARCONI INSTRUMENTS	2024	112260/042	2009-10-20	2010-10-19

3 - DISTURBANCE VOLTAGE AT THE MAINS TERMINALS

3.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

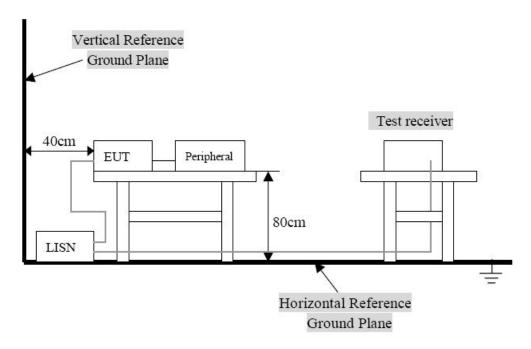
The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is 3.4 dB.

3.2 Limit of Disturbance Voltage at The Mains Terminals

Frequency Range (MHz)	Limits (dBuV)				
Trequency Kange (Miliz)	Quasi-Peak	Average			
0.150~0.500	66~56	56~46			
0.500~5.000	56	46			
5.000~30.00	60	50			

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

3.3 EUT Setup



Remark: The EUT was connected to a 120 VAC/ 60Hz power source.

3.4 Instrument Setup

The test receiver was set with the following configurations:

Test Receiver Setting:

Frequency Range......150 KHz to 30 MHz

Detector.....Peak & Quasi-Peak & Average

3.5 Test Procedure

During the conducted emission test, the EUT power cord was connected to the auxiliary outlet of the first Artificial Mains.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination.

All data was recorded in the peak detection mode. Quasi-peak and Average readings were only performed when an emission was found to be marginal (within -10 dB $_{\mu}$ V of specification limits). Quasi-peak readings are distinguished with a "**QP**". Average readings are distinguished with a "**AV**".

3.6 Summary of Test Results

According to the data in section 3.6, the EUT complied with the FCC Part 15 B Conducted margin, with the worst margin reading of:

3.7 Disturbance Voltage Test Data

Temperature ($^{\circ}$ C) : 23~25	EUT: TOY-R/C SAVAGE
Humidity (%RH): 45~58	M/N: 8008
Barometric Pressure (mbar): 950~1000	Operation Condition: Charging

Remark: (1) When PK reading is less than relevant limit 20dB, the QP reading and AV reading will not be recorded.

(2) Where QP reading is less than relevant AV limit, the AV reading will not be measured

3.8 Test Result

PASS

Conducted Emission:

EUT: TOY-R/C SAVAGE

M/N: 8008 **Operating Condition:** charging

Test Site: Shielded Room

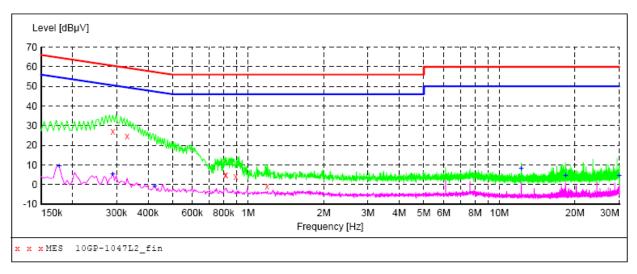
Operator: Chen

Test Specification: AC 120V/60Hz for Adapter

Comment: Live Line

Tem:25°C Hum:50%

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "10GP-1047L2 fin"

7/	/28/2010 21:	28						
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.289500	27.20	10.0	61	33.3	QP	L1	GND
	0.330000	24.90	10.0	60	34.6	QP	L1	GND
	0.811500	4.80	10.0	56	51.2	QP	L1	GND
	0.816000	4.90	10.0	56	51.1	QP	L1	GND
	0.892500	4.10	10.0	56	51.9	QP	L1	GND
	1.189500	-0.90	9.9	56	56.9	QP	L1	GND

MEASUREMENT RESULT: "10GP-1047L2 fin2"

7/28/2010 21:							
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.177000	9.40	9.9	55	45.2	AV	L1	GND
0.289500	5.60	10.0	51	44.9	AV	L1	GND
0.424500	-0.90	9.9	47	48.3	AV	L1	GND
12.210000	8.30	10.0	50	41.7	AV	L1	GND
18.316500	4.50	9.7	50	45.5	AV	L1	GND
29.998500	4.70	10.1	50	45.3	AV	L1	GND

Conducted Emission:

EUT: TOY-R/C SAVAGE

M/N: 8008 **Operating Condition:** charging

Test Site: Shielded Room

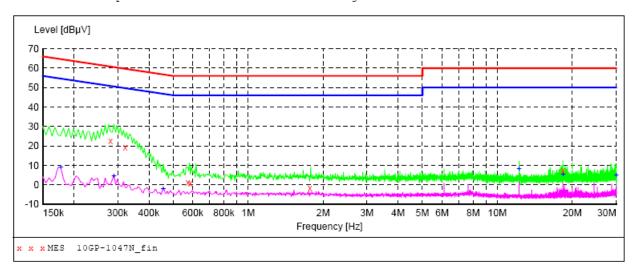
Operator: Chen

Test Specification: AC 120V/60Hz for Adapter

Comment: **Neutral Line**

Tem:25°C Hum:50%

SCAN TABLE: "Voltage(150K-30M)FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "10GP-1047N fin"

7/28/2010 2	21:25						
Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.280500	22.60	9.9	61	38.2	QP	N	GND
0.321000	19.50	10.0	60	40.2	QP	N	GND
0.573000	1.20	9.9	56	54.8	QP	N	GND
0.586500	1.00	9.9	56	55.0	QP	N	GND
1.770000	-1.60	9.9	56	57.6	QP	N	GND
18.316500	7.60	9.7	60	52.4	QP	N	GND

MEASUREMENT RESULT: "10GP-1047N fin2"

7/28/2010	21:25						
Frequenc MF	-		Limit dBµV	Margin dB	Detector	Line	PE
0.17700	0 9.10	9.9	55	45.5	AV	N	GND
0.28950	0 4.50	10.0	51	46.0	AV	N	GND
0.45600	0 -1.90	9.9	47	48.7	AV	N	GND
12.21000	0 8.20	10.0	50	41.8	AV	N	GND
18.31650	0 5.20	9.7	50	44.8	AV	N	GND
29.99850	0 4.80	10.1	50	45.2	AV	N	GND

4 - RADIATED DISTURBANCES

4.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is 4.0 dB.

4.2 Limit of Radiated Disturbances

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dBμV/m)
30 ~ 88	3	40
88~216	3	43.5
216 ~ 960	3	46
960 ~ 1000	3	54

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

(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

4.3 EUT Setup

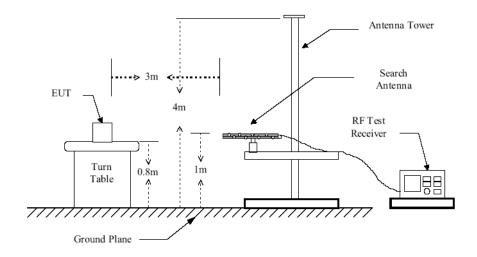
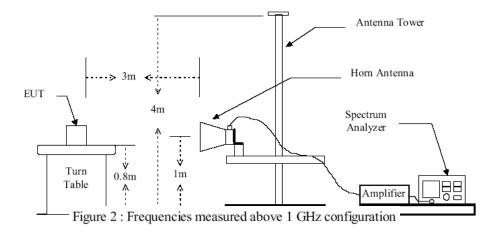


Figure 1: Frequencies measured below 1 GHz configuration

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4.4 Test Receiver Setup

According to FCC Part 15 rule, the frequency was investigated from 30 to 1000 MHz. During the radiated emission test, the test receiver was set with the following configurations:

Test Receiver Setting:

Detector	Peak & Quasi-Peak
IF Band Width	
Frequency Range	30MHz to 1000MHz
Turntable Rotated	0 to 360 degrees

Antenna Position:

Height	1m to 4m
Polarity	Horizontal and Vertical

4.5 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the peak detection mode. Quasi-peak readings performed only when an emission was found to be marginal (within -10 dB $_{\mu}$ V of specification limits), and are distinguished with a "**QP**" in the data table.

4.6 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB $_{\mu}$ V means the emission is 7dB $_{\mu}$ V below the maximum limit for Subpart B. The equation for margin calculation is as follows:

Margin = Limit - Corr. Ampl.

4.7 Radiated Emissions Test Result

Temperature (°C) : 22~23	EUT: TOY-R/C SAVAGE
Humidity (%RH): 50~54	M/N: 8008
Barometric Pressure (mbar): 950~1000	Operation Condition: Charging & Normal operation

Remark: (1) When PK reading is less than relevant limit 20dB, the QP reading and AV reading will not be recorded.

(2) Where QP reading is less than relevant AV limit, the AV reading will not be measured

4.8 Test Result

PASS

EUT: TOY-R/C SAVAGE

M/N: 8008 **Operating Condition:** charging

Test Site: 3m CHAMBER

Operator: Chen

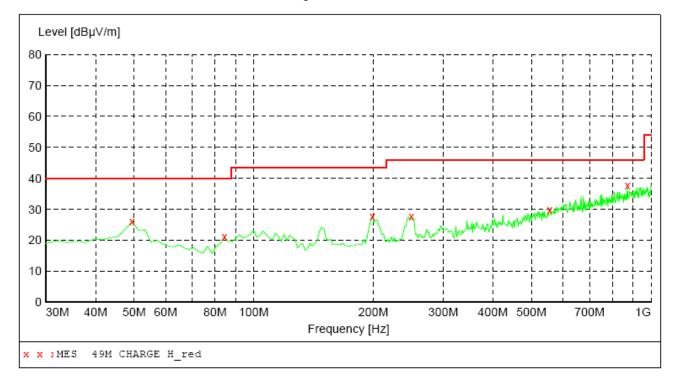
Test Specification: AC 120V/60Hz for Adapter Comment: Polarization: Horizontal Tem:25℃ Hum:50%

SWEEP TABLE: "test (30M-1G)"
Short Description: Fi Field Strength Start Detector Meas. IF Stop

Transducer

Frequency Frequency Time Bandw.

Coupled 100 kHz 30.0 MHz 1.0 GHz MaxPeak VULB9163 NEW



MEASUREMENT RESULT: "49M CHARGE H red"

7/29/2010	16:14							
Frequen M	cy Leve Hz dBµV			Margin dB	Det.	Height cm	Azimuth deg	Polarization
49.4000	00 26.0	00 15.8	40.0	14.0		100.0	0.00	HORIZONTAL
84.3200	00 21.0	00 14.1	40.0	19.0		100.0	0.00	HORIZONTAL
198.7800	00 27.	70 16.1	43.5	15.8		100.0	0.00	HORIZONTAL
249.2200	00 27.	50 17.2	46.0	18.4		100.0	0.00	HORIZONTAL
555.7400	00 30.0	00 25.3	46.0	16.0		100.0	0.00	HORIZONTAL
871.9600	00 37.	50 30.7	46.0	8.4		100.0	0.00	HORIZONTAL

EUT: TOY-R/C SAVAGE

M/N: 8008 **Operating Condition:** charging

Test Site: 3m CHAMBER

Operator: Chen

Test Specification: AC 120V/60Hz for Adapter

Comment: Polarization: Vertical

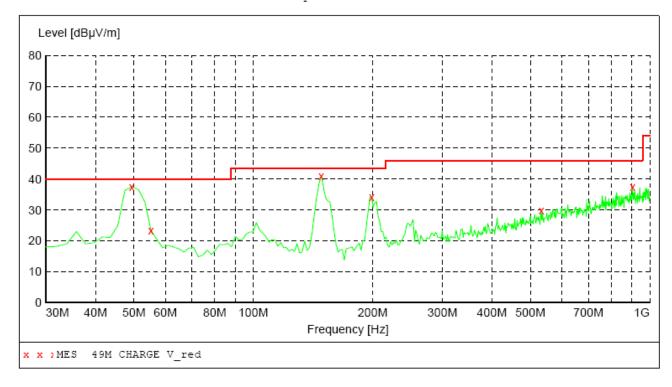
Tem:25°C Hum:50%

SWEEP TABLE: "test (30M-1G)"
Short Description: Fi Field Strength

Stop Detector Meas. Transducer

Frequency Frequency Time Bandw.

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz VULB9163 NEW



MEASUREMENT RESULT: "49M CHARGE V red"

7/29/2010 16:17								
Frequency MHz	Level dBµV/m		Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
49.400000	37.50	15.8	40.0	2.5		100.0	0.00	VERTICAL
55.220000	23.40	15.6	40.0	16.6		100.0	0.00	VERTICAL
148.340000	41.10	13.3	43.5	2.4		100.0	0.00	VERTICAL
198.780000	34.30	16.1	43.5	9.2		100.0	0.00	VERTICAL
532.460000	30.00	24.7	46.0	16.0		100.0	0.00	VERTICAL
904.940000	37.30	31.3	46.0	8.7		100.0	0.00	VERTICAL

EUT: TOY-R/C SAVAGE

M/N: 8008

Operating Condition: **Normal Operation** Test Site: 3m CHAMBER

Operator: Chen

Test Specification: Power by battery

Comment: Polarization: Horizontal

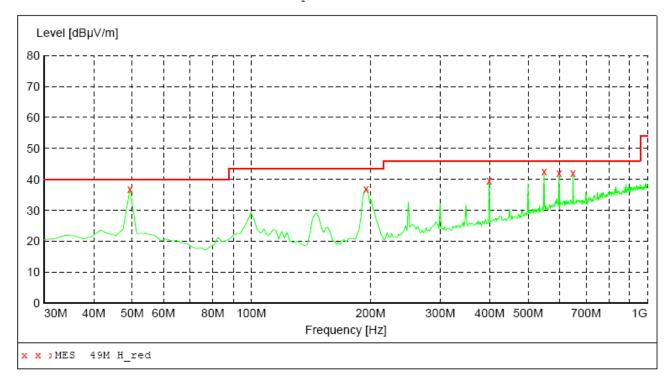
Tem:25°C Hum:50%

SWEEP TABLE: "test (30M-1G)"
Short Description: Fi Field Strength Start Stop

Detector Meas. IF Transducer

Frequency Frequency Time Bandw.

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz VULB9163 NEW



MEASUREMENT RESULT: "49M H red"

7	7/29/2010 16:	:18							
	Frequency MHz	Level dBµV/m		Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
	49.400000	37.00	15.8	40.0	3.0		100.0	0.00	HORIZONTAL
	194.900000	37.00	16.1	43.5	6.5		100.0	0.00	HORIZONTAL
	398.600000	39.60	21.4	46.0	6.4		100.0	0.00	HORIZONTAL
	547.980000	42.50	25.1	46.0	3.5		100.0	0.00	HORIZONTAL
	598.420000	42.20	26.4	46.0	3.8		100.0	0.00	HORIZONTAL
	648.860000	42.00	26.9	46.0	4.0		100.0	0.00	HORIZONTAL

EUT: TOY-R/C SAVAGE

M/N: 8008

Operating Condition: Normal Operation Test Site: 3m CHAMBER

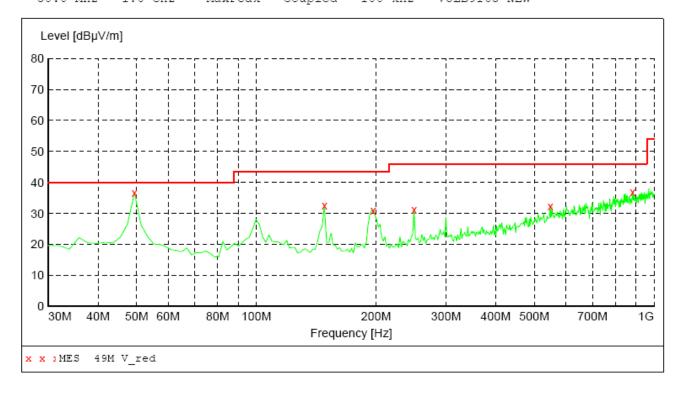
Operator: Chen

Test Specification: Power by battery Comment: Polarization: Vertical Tem:25°C Hum:50%

SWEEP TABLE: "test (30M-1G)"
Short Description: Fi Field Strength Start Detector Meas. IF Stop

Frequency Frequency Time Bandw.

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz VULB9163 NEW



Transducer

MEASUREMENT RESULT: "49M V red"

7/29/2010 16:18								
Frequency MHz	Level dBµV/m		Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
49.400000	36.70	15.8	40.0	3.3		100.0	0.00	VERTICAL
148.340000	32.60	13.3	43.5	10.9		100.0	0.00	VERTICAL
196.840000	31.00	16.1	43.5	12.5		100.0	0.00	VERTICAL
249.220000	31.30	17.2	46.0	14.7		100.0	0.00	VERTICAL
547.980000	32.40	25.1	46.0	13.6		100.0	0.00	VERTICAL
883.600000	37.00	30.9	46.0	9.0		100.0	0.00	VERTICAL