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TEST REPORT

Product : Scalextric ARC C8433 APP Race control power base

Trade mark : SCALEXTRIC

Item/Lot No. : C8433

Model/Type reference : SSA-00184

Serial number : N/A

Ratings : AC ADAPTOR:

Input:120V~, 60Hz, Output: 15V=== , 1,2A

Scalextric ARC C8433 APP Race control power base:

15V===, 1,2A, IPX0, Class III

ic : 12075A-C8433

FCC ID : 2ACUF-C8433

Report number : EESZG05070029-1

Date : Jun. 11, 2014

Regulations : See below

Test Standards	Results
	PASS
RSS-Gen Issue 3	PASS
	PASS

Prepared for:

Hornby Hobbies Ltd

Enterprise Road Westwood Industrial Estate CT9 4JX United Kingdom

Prepared by:

Centre Testing International (Shenzhen) Corporation Hongwei Industrial Zone, 70 Area, Bao'an District, Shenzhen, Guangdong, China

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Approved by:

Date:

Jun. 11, 2014

Check No.: 1022596274





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1. CERTIFICATION INFORMATION

Applicant: Hornby Hobbies Ltd

Enterprise Road Westwood Industrial Estate CT9 4JX

United Kingdom

Manufacturer: The Refined Industry co. Ltd.

7/F., Sun King Factory Building, 1-7, shing chuen Road,

Shatin, N.T. Hong Kong.

IC: 12075A-C8433
FCC ID: 2ACUF-C8433

Product: Scalextric ARC C8433 APP Race control power base

Item/Lot No.:C8433Country of Origin:China

Exported to: Europe & U.S.A & Canada & Japan & Australia &

NewZealand

Client Specified Age Grading: 3+

Trade Mark:

Report Number: EESZG05070029-1

Sample Received Date: May 08, 2014

Sample tested Date: May 06, 2014 to Jun. 11, 2014

The above equipment was tested by Centre Testing International (Shenzhen) Corporation for compliance with the requirements set forth in the IC/FCC Rules and the measurement procedure according to ANSI C63.4:2009.

2. TEST SUMMARY

No.	Test Item	Rule	Result
1	99% Bandwidth	RSS-Gen 4.6.1	PASS
2	6dB Bandwidth	FCC PART15.247(a)(2) & RSS-210 A8.2	PASS
3	Transmitter Output Power	FCC PART15.247(b)(3) & RSS-210 A8.4	PASS
4	Power Spectral Density	FCC PART15.247(e) & RSS-210 A8.2	PASS
5	Conducted Bandedge Emission / Conducted Spurious Emission	FCC PART15.247(d) & RSS-210 A8.5	PASS
6	Radiated Bandedge Emission / Radiated Spurious Emission	FCC PART15.247(d) & RSS-210 A8.5	PASS
7	AC Conducted Emission	FCC PART15.207 & RSS-Gen 7.2.4	PASS
8	Antenna requirements	FCC PART15.203 & RSS-Gen 7.1.2	PASS (See Note)

Note: According to Section 15.203 and RSS-Gen 7.1.2, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The EUT has a built in antenna which is a short wire solder on the PCB, this is permanently attached antenna and meets the requirements of this section.











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3. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Value (dB)
Conducted Emission Test	3.2 dB
Radiated Emissions / Bandedge Emission	4.5 dB

4. PRODUCT INFORMATION

		7 30	kA .	/ 23/4
Items		Descript	tion	
Rating	AC 120V/60Hz			
Type of Modulation	BT4.0: GFSK	25	-	
Antenna Type	Integral antenna	(25)	(85)	(6
Frequency Range	2402 ~ 2480 MHz			
Gain	0dBi			

5. TEST EQUIPMENT LIST

E ATT. T. I			Law Control
Manufacturer	Model	Serial No.	Due Date
ETS-LINDGREN	FACT-3	3510	07/12/2016
Agilent	E4443A	MY45300910	01/15/2015
R&S	ESCI	100435	07/19/2014
schwarzbeck	VULB 9163	618	06/25/2014
ETS-LINGREN	2090	00057230	N/A
ETS-LINGREN	3117	00057407	07/19/2014
Agilent	8449B	3008A02425	03/19/2015
R&S	FSP40	100416	07/06/2014
R&S	ESCI	100009	07/19/2014
R&S	ENV216	100098	07/19/2014
	ETS-LINDGREN Agilent R&S schwarzbeck ETS-LINGREN ETS-LINGREN Agilent R&S R&S	ETS-LINDGREN FACT-3 Agilent E4443A R&S ESCI schwarzbeck VULB 9163 ETS-LINGREN 2090 ETS-LINGREN 3117 Agilent 8449B R&S FSP40 R&S ESCI	ETS-LINDGREN FACT-3 3510 Agilent E4443A MY45300910 R&S ESCI 100435 schwarzbeck VULB 9163 618 ETS-LINGREN 2090 00057230 ETS-LINGREN 3117 00057407 Agilent 8449B 3008A02425 R&S FSP40 100416 R&S ESCI 100009

6. SUPPORT EQUIPMENT LIST

Device Type	Brand	Model	Series No.	Data Cable	Remark
(E)		(3,7)	((3×)	(CZ)





















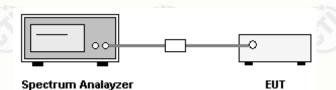
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7. 99% BANDWIDTH MEASUREMENT

7.1. LIMITS

None

7.2. BLOCK DIAGRAM OF TEST SETUP



7.3. TEST PROCEDURE

- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Use the following spectrum analyzer settings for 99 % Bandwidth measurement. For 99% Bandwidth measurement, the RBW=30 kHz, and VBW = 100 kHz. Sweep = auto; Detector function = peak. Trace = max hold.
- 4. Measure and record the results in the test report.

7.4. TEST RESULT

The test data of worst case are below:

Frequency (MHz)	99% BW (MHz)	Result
2402	1.032	PASS
2440	1.020	PASS
2480	1.026	PASS













































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Please see the following plots (worst case):



2402MHz

















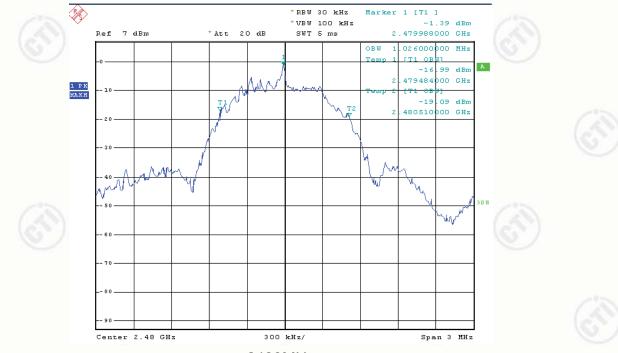








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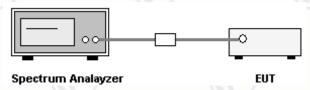
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8. 6DB BANDWIDTH MEASUREMENT

8.1. LIMITS

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

8.2. BLOCK DIAGRAM OF TEST SETUP



8.3. TEST PROCEDURE

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

8.4. TEST RESULT

The test data of worst case are below:

Frequency (MHz)	Measured Value (kHz)	Result
2402	700	PASS
2440	690	PASS
2480	690	PASS





















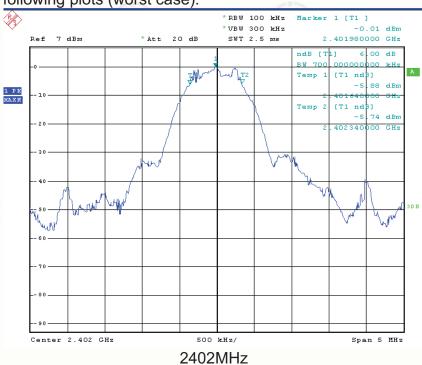








Please see the following plots (worst case):















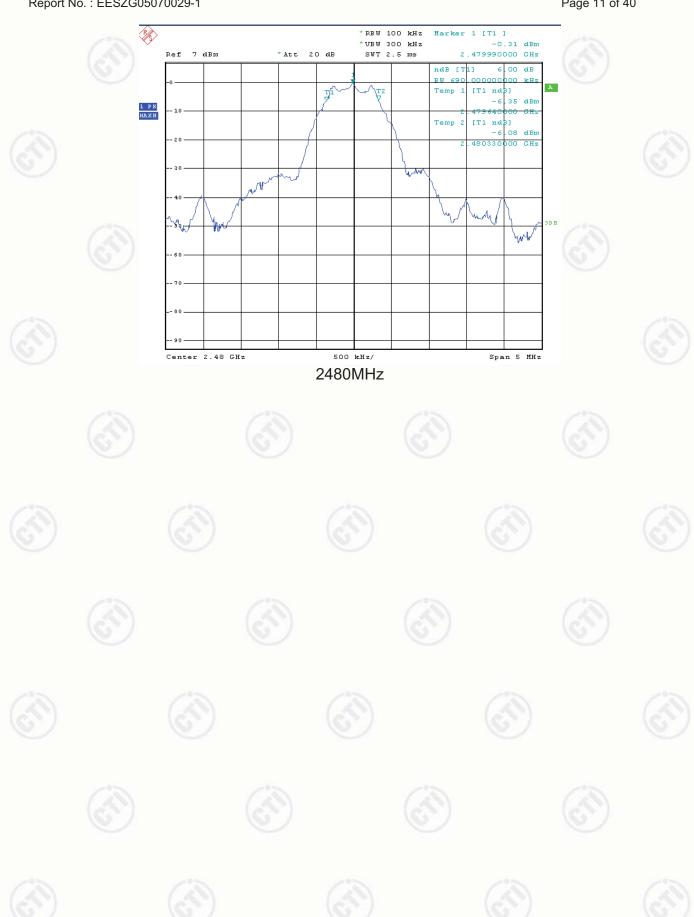








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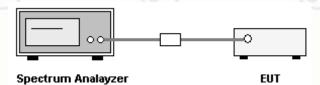


9. POWER SPECTRAL DENSITY

9.1. LIMITS

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

9.2. BLOCK DIAGRAM OF TEST SETUP



9.3. TEST PROCEDURE

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to 3 kHz.
- d) Set the VBW $\geq 3 \times RBW$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.

9.4. TEST RESULT

The test data of worst case are below:

Frequency (MHz)	Measured Value (dBm)	Result
2402	-18.43	PASS
2440	-17.93	PASS
2480	-17.27	PASS







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Hotline













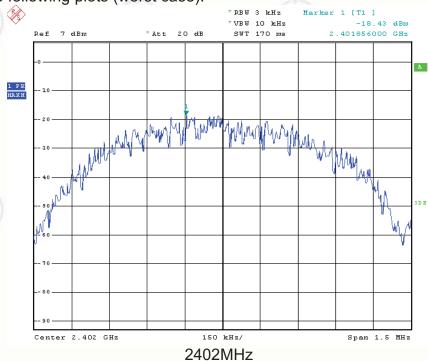






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Please see the following plots (worst case):













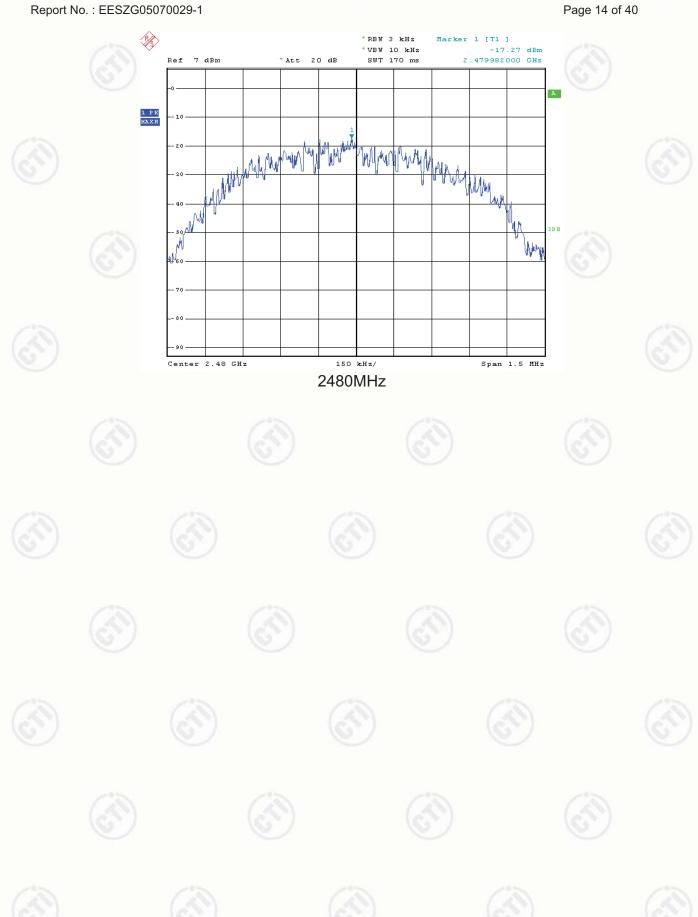




















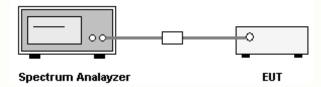
10. MAXIMUM PEAK CONDUCTED OUTPUT POWER MEASUREMENT

10.1. LIMITS

The maximum peak conducted output power of the intentional radiator shall not exceed the following:

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt (30dBm).

10.2. BLOCK DIAGRAM OF TEST SETUP



10.3. TEST PROCEDURE

- a) Set the RBW ≥ DTS bandwidth.
- b) Set the VBW ≥ 3 x RBW
- c) Set span ≥ 3 x RBW
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

10.4. TEST RESULT

The test data of worst case are below:

Frequency (MHz)	Measured Value (dBm)	Result
2402	-1.03	PASS
2440	-1.25	PASS
2480	-2.70	PASS



















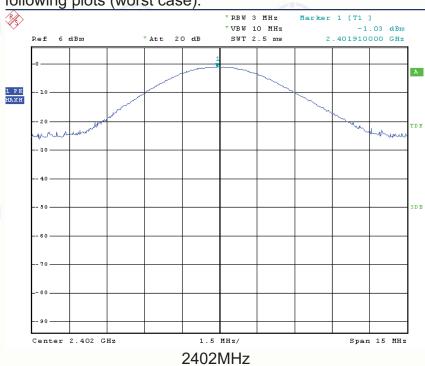








Please see the following plots (worst case):



































































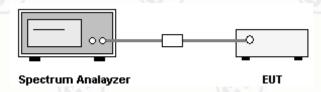


11. CONDUCTED BANDEDGE EMISSION MEASUREMENT

11.1. LIMITS

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

11.2. BLOCK DIAGRAM OF TEST SETUP



11.3. TEST PROCEDURE

- a) Set to the maximum power setting and enable the EUT transmit continuously.
- b) Set RBW = 100 kHz, VBW = 300 kHz (≥ RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
- c) Enable hopping function of the EUT and then repeat step a and b.
- d) Measure and record the results in the test report.

11.4. TEST RESULT

Worst case data attached.--- please see the following plots.



























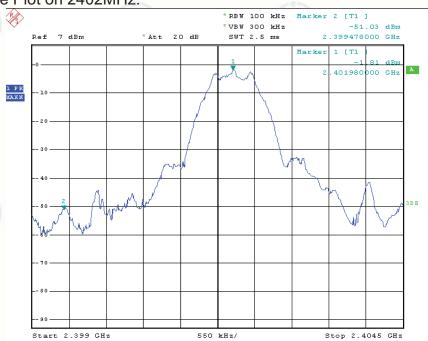






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Low Band Edge Plot on 2402MHz:



High Band Edge Plot on 2480MHz:























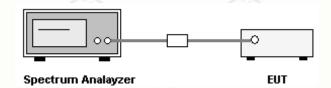
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12. CONDUCTED SPURIOUS EMISSION MEASUREMENT

12.1. LIMITS

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

12.2. BLOCK DIAGRAM OF TEST SETUP

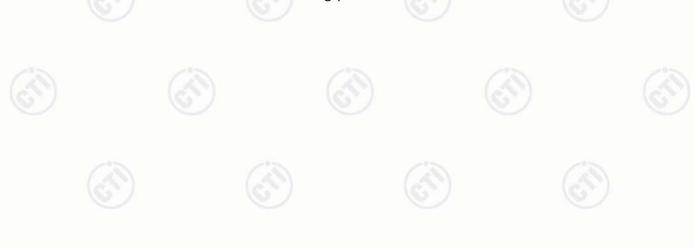


12.3. TEST PROCEDURE

- a) The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
- b) Set to the maximum power setting and enable the EUT transmit continuously.
- c) Set RBW = 100 kHz, VBW = 300 kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
- d) Measure and record the results in the test report.
- e) The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

12.4. TEST RESULT

Worst case data---Please see the following plots.







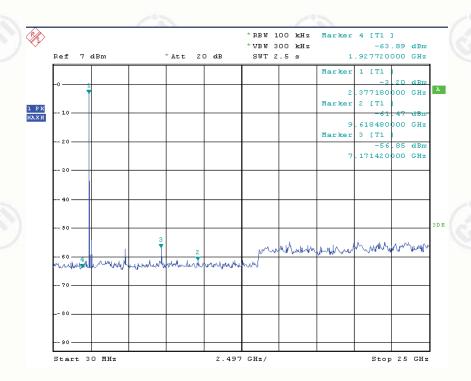




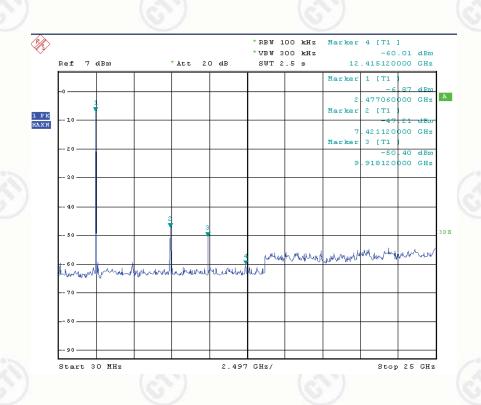


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2402MHz:



2440MHz:















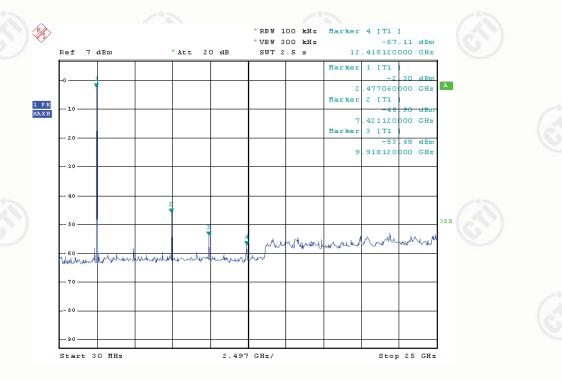






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2480MHz:

































































13. RADIATED BANDEDGE EMISSION / RADIATED SPURIOUS EMISSION MEASUREMENT

13.1. LIMITS

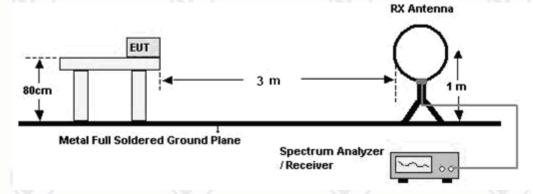
The field strength of any emissions, which appear outside of operating frequency band and restricted band specified on 15.205(a), shall not exceed the general radiated emission limits as below.

eld strength (μV/m)	Distance (m)			
	Distance (m)			
2400/F(kHz)	300			
24000/F(kHz)	30			
30	30			
100	3			
150	3			
200	3			
500	3			
	2400/F(kHz) 24000/F(kHz) 30 100 150 200			

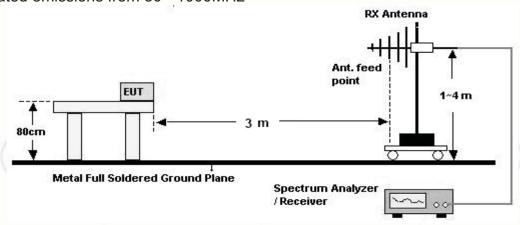
Note: the tighter limit applies at the band edges.

13.2. BLOCK DIAGRAM OF TEST SETUP

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30 - 1000MHz



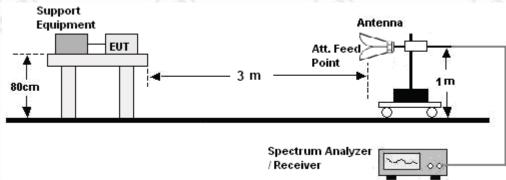








For radiated emissions from 1GHz to 25GHz



13.3. TEST PROCEDURE

Below 30MHz

- a. The Product is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The maximum values of the field strength are recorded by adjusting the polarizations of the test antenna and rotating the turntable.
- b. For each suspected emission, the Product was arranged to its worst case and then turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- c. The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

30MHz ~ 1GHz:

- a. The Product was placed on the non-conductive turntable 0.8m above the ground at a chamber.
- b. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 100 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- c. For each frequency whose maximum record was higher or close to limit, measure its QP value (120 kHz RBW): vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

Above 1GHz:

- a. The EUT was placed on the non-conductive turntable 0.8 m above the ground at a chamber.
- b. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 1MHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.











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13.4. TEST RESULT

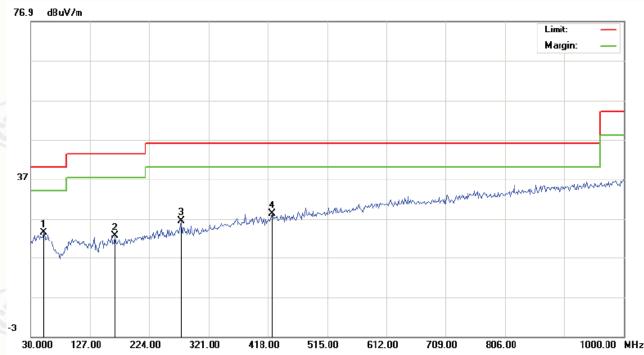
Below 30MHz:

No emissions were found higher than the background below 30MHz and background is lower than the limit, so it deems to compliance with the limit without recorded.

30MHz \sim 1GHz:

The test data of low channel, middle channel and high channel are almost same in frequency bands 30MHz to 1GHz, and the data of middle channel are chosen as representative in below:

H:



No	. Freq.		ling_L dBuV)	evel	Correct Factor	Measurement (dBuV/m)		Limit (dBuV/m)		Margin) (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F Comment
1	51.0167	8.04			15.45	23.49			40.00		-16.51		Р
2	167.4167	10.91			11.75	22.66			43.50		-20.84		Р
3	275.7333	10.85			15.46	26.31			46.00		-19.69		Р
4	424.4667	9.48			18.74	28.22			46.00		-17.78		Р



















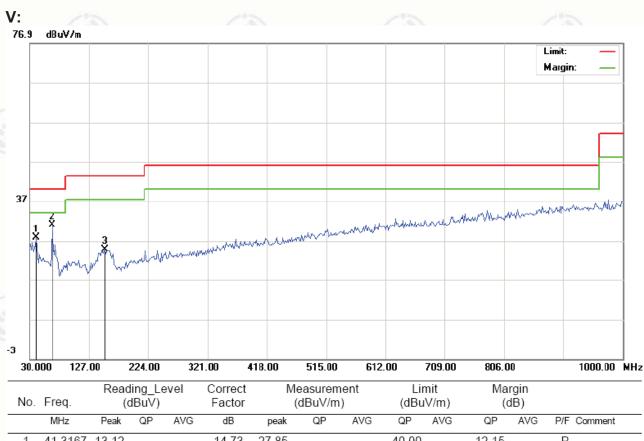


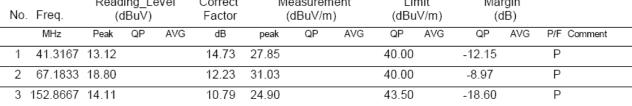






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Above 1GHz:

ADOVE 101	12.		4.7		-6.7		
	Test Resu	ılts-(Measur	ement Dista	nce: 3m)_Cl	hannel low_	2402MHz	
_	Mea	asurement v	alue	Li	mit	Antenna	Result
Frequency (MHz)	PK (dBµV/m)	AV factor (dB)	AV (dBμV/m)	PK (dBµV/m)	AV (dBµV/m)	(H/V)	(P/F)
2390.0	36.21	(S)	(8	74	54	Н	Р
2402.0*	98.12			/ <u></u>	//	Н	Р
2483.5	34.12			74	54	Н	Р
4804.0	44.25			74	54	Н	Р
(2	(2)	(2		(2		(2)	
2390.0	35.12	(6))	74	54	V	Р
2402.0*	100.23					V	Р
2483.5	35.02			74	54	V	Р
4804.0	46.39	(I)	(74	54	V	P
7206.0	43.52	<i>D</i>	//	74	54	V	Р

^{*:} fundamental frequency

	Test Results-(Measurement Distance: 3m)_Channel middle_2440MHz												
_	Mea	asurement v	alue	Li	mit	Antenna	Result						
Frequency (MHz)	PK (dBµV/m)	AV factor (dB)	AV (dBμV/m)	PK (dBµV/m)	AV (dBµV/m)	(H/V)	(P/F)						
2390.0	34.01		>	74	54	Н	Р						
2440.0*	97.25	S3)	(@	SS)	(c	N) H	Р						
2483.5	36.56			74	54	Н	Р						
4880.0	45.63			74	54	Н	Р						
-	0.50		0.000		200	24	100						
2390.0	35.12	(2	(1)	74	54	V	P						
2440.0*	99.63	(6	J	/6	V	V	P						
2483.5	36.01			74	54	V	Р						
4880.0	47.21			74	54	V	Р						
7320.0	44.21	(II)	(74	54	V	Р						

^{*:} fundamental frequency



























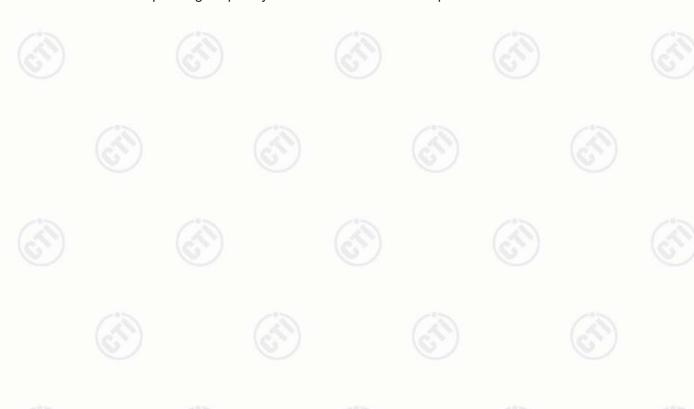
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	Test Resu	Its-(Measure	ement Dista	nce: 3m) Ch	nannel high	2480MHz	
	Me	Antenna	Result				
Frequency (MHz)	PK AV fact (dBµV/m) (dB)		AV (dBµV/m)	PK (dBµV/m)	AV (dBµV/m)	(H/V)	(P/F)
2390.0	34.01	(I)	(74	54	Н	Р /
2480.0*	95.53)	(6	IJ	//	2/H	Р
2483.5	43.12			74	54	Н	Р
4960.0	44.69			74	54	Н	Р
	10%		10%		10.5		-11
2390.0	34.26	(6	N)	74	54	V	Р
2480.0*	97.12					V	Р
2483.5	44.10			74	54	V	Р
4960.0	45.23	B	(74	54	V	Р
7440.0	42.63	M)	(6	74	54	V	Р

^{*:} fundamental frequency

Remark:

- 1. The above tables show that the frequencies peak data are all below the average limit, so the average data of these frequencies are deems to fulfill the average limits and not reported.
- 2. No emission found from 18GHz to 25GHz.
- 3. All outside of operating frequency band and restricted band specified are below FCC PART15.209.













14. AC CONDUCTED EMISSION TEST

14.1. **LIMITS**

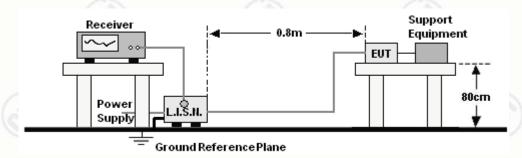
Limits for Class B digital devices

Frequency range	Limits dB(μ V)
(MHz)	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.

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

14.2. BLOCK DIAGRAM OF TEST SETUP



14.3. PROCEDURE OF CONDUCTED EMISSION TEST

- a. The Product was placed on a nonconductive table above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.









23℃



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14.4. GRAPHS AND DATA

Product: Scalextric ARC - C8433 - APP RACE CONTROL POWER

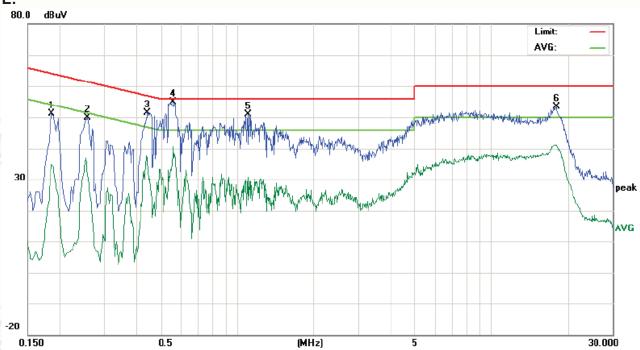
BASE

Item/Lot No. : C8433

Power : AC 120V/60Hz Temperature

Mode : Keeping TX Humidity : 52%





No.	Freq.		ding_Le dBuV)	vel	Correct Factor	Measuremer (dBuV)			Limit (dBuV)		Margin (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1860	41.41		25.14	9.79	51.20		34.93	64.21	54.21	-13.01	-19.28	Р	
2	0.2580	39.97		22.00	9.80	49.77		31.80	61.49	51.49	-11.72	-19.69	Р	
3	0.4460	41.63	33.70	26.23	9.80	51.43	43.50	36.03	56.95	46.95	-13.45	-10.92	Р	
4	0.5620	44.97	42.99	26.43	9.80	54.77	52.79	36.23	56.00	46.00	-3.21	-9.77	Р	
5	1.1060	41.08		20.98	9.81	50.89		30.79	56.00	46.00	-5.11	-15.21	Р	
6	18.1220	43.09		30.61	10.29	53.38		40.90	60.00	50.00	-6.62	-9.10	Р	



























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30.0 dBuV			
30			Limit: — AV6: —
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	allegar of bornomer transfer	And the state of t	Man
	both by mary many the	describes of the second	Pi Contractor A
20 0.150 0.5	(MHz)	5	30.000

No.	Freq.		ling_Le dBuV)	evel	Correct Factor	Measurement (dBuV)		Limit (dBuV)		Margin (dB)				
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.5299	38.14		6.49	9.80	47.94		16.29	56.00	46.00	-8.06	-29.71	Р	
2	1.0060	39.89		19.10	9.80	49.69		28.90	56.00	46.00	-6.31	-17.10	Р	
3	1.0859	40.35		19.11	9.81	50.16		28.92	56.00	46.00	-5.84	-17.08	Р	
4	17.8260	42.74		29.78	10.27	53.01		40.05	60.00	50.00	-6.99	-9.95	Р	





































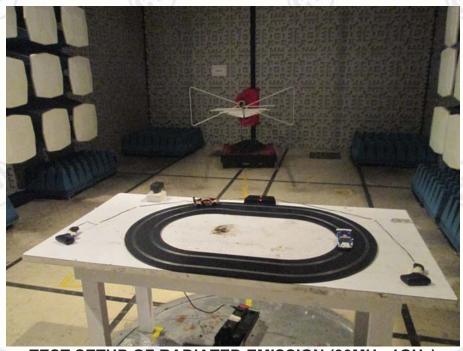








## **APPENDIX 1 PHOTOGRAPHS OF TEST SETUP**



TEST SETUP OF RADIATED EMISSION (30MHz-1GHz)



TEST SETUP OF RADIATED EMISSION (above 1GHz)



















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## **APPENDIX 2 EXTERNAL PHOTOGRAPHS OF PRODUCT**



External View of product-1



External View of product-2





















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External View of product-3



External View of product-4



















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External View of product-5



External View of product-6



















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## **APPENDIX 3 INTERNAL PHOTOGRAPHS OF PRODUCT**



Internal View of product-1



Internal View of product-2













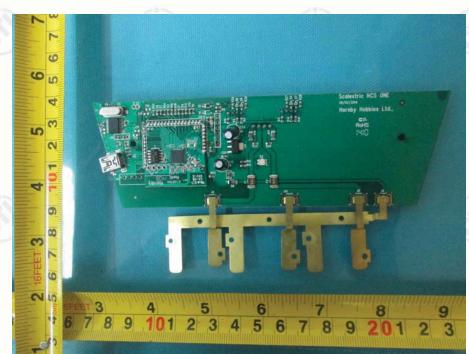




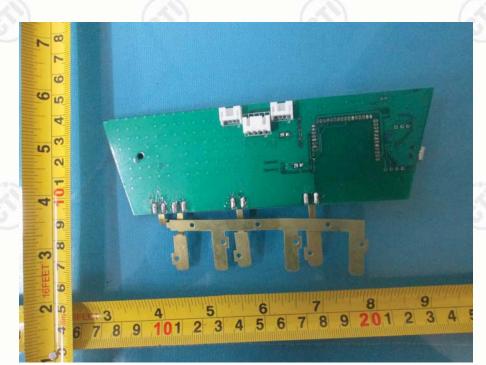








Internal View of product-3



Internal View of product-4



















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Internal View of product-5



*** End of Report ***

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