



TEST REPORT

Applicant	XQ Arts toys co., Ltd
Address	North of Xing Ye Road, Lai Mei Industrial District, Shan Tou, China

Manufacturer or Supplier	XQ Arts toys co., Ltd
Address	North of Xing Ye Road, Lai Mei Industrial District, Shan Tou, China
Product	1:10 RC TOYS
Brand Name	XQ
Model	XQRC10-5(49M)
Additional Model & Model Difference	N/A
Date of tests	Apr. 03, 2014 ~ Apr. 29, 2014

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Approved by Madison Luo Supervisor / EMC Department		
Madison Date: Apr. 30, 2014		

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RELEASE CONTROL RECORD

ISSUE NO. REASON FOR CHANGE		DATE ISSUED
FV140403N046	Original release	Apr. 30, 2014

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1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15 Subpart B Class B				
Standard Section	Test Item	Result	Remark	
FCC Part 15	Conducted emission test (150kHz ~ 30MHz)		Meets limit mninimum passing margin is -3.98dB at 0.17346MHz	
Subpart B, Class B	Radiated emission test (30MHz ~ 1GHz)	PASS	Meet the requirement of limit. Minimum passing margin is -1.38dB at 120.08MHz.	

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT 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.

MEASUREMENT	FREQUENCY	UNCERTAINTY	
Conducted emissions	150kHz ~ 30MHz	+/- 2.67 dB	
Radiated emissions	30MHz ~ 1GHz	+/- 4.12 dB	

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2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	1:10 RC TOYS	
MODEL NO.	XQRC10-5(49M)	
ADDITIONAL MODEL	N/A	
POWER SUPPLY	Car: DC 7.2V from battery, Battery:DC9V from adapter	
CABLE SUPPLIED	N/A	
THE HIGHEST OPERATING FREQUENCY	49MHz	

NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was showed in test report.

3. The EUT was powered by the following adapter:

the man personal by the temption grandprost		
BRAND:	XQ	
MODEL:	ZX-090070US	
INPUT:	AC 120V, 60Hz, 0.35A	
OUTPUT:	DC 9V, 700mA	
DC LINE:	Unshielded, undetachable, 1.85m	

4. Please refer to the EUT photo document (Reference No.:140403N046) for detailed product photo.

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2.2 DESCRIPTION OF TEST MODES

The EUT was tested under the following modes. The final worst mode were marked in boldface and recorded in this report.

♦ FOR MAINS TERMINAL DISTURBANCE VOLTAGE TEST:

Test Mode	Test Voltage	
Charging	DC9V from adapter input AC120V 60Hz	

♦ FOR RADIATED TEST:

Test Mode	Test Voltage		
Charging	DC9V from adapter input AC120V 60Hz		
TV DV Link Normal working	Controller: DC 9V from battery		
TX RX Link Normal working	Car: DC 7.2V from battery		

2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit without any other necessary accessory or support units.

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EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
FREQUENCY (MINZ)	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

- **NOTES**: (1) The lower limit shall apply at the transition frequencies.
 - (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
 - (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU 26	100005	May 14,13	May 13,14
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	May 14,13	May 13,14
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	May 14,13	May 13,14
Test software	ADT	ADT_Cond_ V7.3.7	N/A	N/A	N/A

NOTE: 1. The test was performed in shielded room 553.

2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

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3.1.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2009(section 7).

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit 20dB) were not recorded.

NOTE:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.

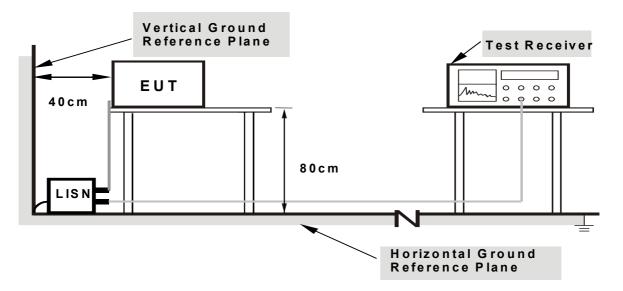
3.1.4 DEVIATION FROM TEST STANDARD

No deviation

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3.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.

3.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power of all equipment.
- b. EUT was operated according to the type described in manufacturer's specifications or the user's manual.

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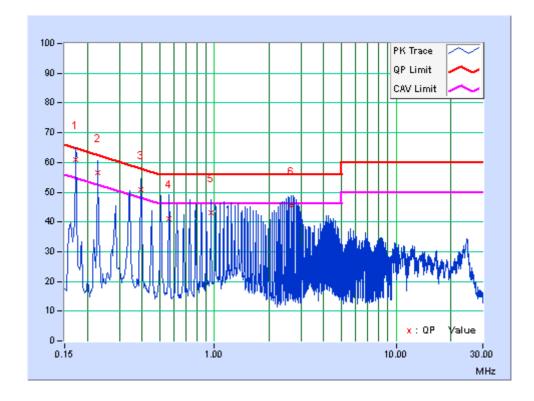


3.1.7 TEST RESULTS

TEST MODE	Charging	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC9V from adapter input AC120V 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	20deg. C, 50% RH	TESTED BY	Eric

	Freq.	Corr.	Reading Value			ssion vel	Lir	nit	Mar	gin
No		Factor	[dB	[dB (uV)] [dB (uV)]		[dB	(uV)]	(dl	B)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17346	10.53	50.29	34.31	60.82	44.84	64.79	54.79	-3.98	-9.96
2	0.22820	10.40	46.27	30.13	56.67	40.53	62.51	52.51	-5.85	-11.99
3	0.39635	10.28	40.51	29.22	50.79	39.50	57.93	47.93	-7.14	-8.43
4	0.56446	10.19	30.96	21.82	41.15	32.01	56.00	46.00	-14.85	-13.99
5	0.95937	9.97	33.09	21.24	43.06	31.21	56.00	46.00	-12.94	-14.79
6	2.65240	9.86	35.57	22.48	45.43	32.34	56.00	46.00	-10.57	-13.66

REMARKS: The emission levels of other frequencies were very low against the limit.



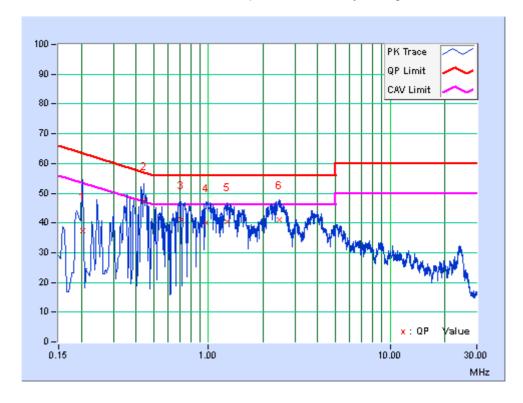
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TEST MODE	Charging	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC9V from adapter input AC120V 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	20deg. C, 50% RH	TESTED BY	Eric

	Freq.	Corr.	Reading Value		Corr. Reading Value			sion vel	Lir	nit	Mai	rgin
No		Factor	[dB	[dB (uV)] [dB (uV)]		[dB	(uV)]	(d	B)			
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.		
1	0.20458	10.32	26.96	11.29	37.28	21.61	63.42	53.42	-26.14	-31.81		
2	0.44273	10.40	37.22	17.18	47.62	27.58	57.01	47.01	-9.39	-19.43		
3	0.70913	10.02	31.17	16.37	41.19	26.39	56.00	46.00	-14.81	-19.61		
4	0.97501	9.86	30.16	16.29	40.02	26.15	56.00	46.00	-15.98	-19.85		
5	1.27217	9.79	30.65	17.42	40.44	27.21	56.00	46.00	-15.56	-18.79		
6	2.45299	9.66	31.38	19.09	41.04	28.75	56.00	46.00	-14.96	-17.25		

REMARKS: The emission levels of other frequencies were very low against the limit.



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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

FREQUENCY	Class A	(at 10m)	Class B	(at 3m)
(MHz)	uV/m	uV/m dBuV/m		dBuV/m
30 – 88	90	39.1	100	40.0
88 – 216	150	43.5	150	43.5
216 – 960	210	46.4	200	46.0
960 – 1000	300	49.5	500	54.0

FREQUENCY RANGE OF RADIATED MEASUREMENT

(For unintentional radiators)

or annitoritional radiatoroj						
Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)					
Below 1.705	30					
1.705 – 108	1000					
108 – 500	2000					
500 – 1000	5000					
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower					

LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHz

FREQUENCY (MHz)	Class A (dBu	ıV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
FREQUENCT (IVITIZ)	PEAK AVERAGE		PEAK	AVERAGE	
Above 1000	80.0	60.0	74.0	54.0	

Note: (1) The lower limit shall apply at the transition frequencies.

- (2) Emission level (dBuV/m) = 20 log Emission level (uV/m).
- (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

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3.2.2 TEST INSTRUMENTS

FOR FREQUENCY BELOW 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4446A	MY46180622	April 24,14	April 23,15
EMI Test Receiver	Rohde&Schwarz	ESVD	847398/003	May 14,13	May 13, 14
Bilog Antenna	Teseq	CBL 6111D	27089	Jul. 27, 13	Jul. 26, 14
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Dec. 03, 13	Dec. 02, 14
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-555	Dec. 03, 13	Dec. 02, 14
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8 .8m	NSEMC006	Jun. 11, 13	Jun. 10, 14
Amplifier (9kHz-1GHz)	SONOMA	310D	186955	Mar. 05,14	Mar. 04, 15
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A

FOR FREQUENCY ABOVE 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4446A	MY46180622	April 24,13	April 23,14
Pre-Amplifier (100MHz-26.5GHz)	Agilent	8449B	3008A00409	May 14,13	May 13,14
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 04,13	Nov. 03,14
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A
Horn Antenna	ETS-Lindgren	3117	00062558	Oct. 18,12	Oct. 17,14

- **NOTE:** 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 - 2. The test was performed in 10m Chamber.
 - 3. The FCC Site Registration No. is 502831

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	ETS-Lindgren	3117	00062558	Oct. 18,12	Oct. 17,14

- **NOTE:** 1. The calibration interval of the above test instruments is 24 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 - 2. The test was performed in 10m Chamber.
 - 3. The FCC Site Registration No. is 502831

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	Feb. 13,14	Feb. 12,17

- **NOTE:** 1. The calibration interval of the above test instruments is 36 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 - 2. The test was performed in 10m Chamber.
 - 3. The FCC Site Registration No. is 502831

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3.2.3 TEST PROCEDURE

A signal generator, not the matching transmitter, shall be used to radiate an unmodulated CW signal to a superregenerative receiver at its operating frequency in order to "cohere" or to resolve the individual components of the characteristic broadband emissions from such a receiver. The level of the signal may need to be increased for this to occur. If a superregenerative receiver is tested for radiated emissions with a resistive termination instead of an antenna connected to the antenna input terminals, apply the unmodulated signal at a level of approximately –60 dBm to the antenna terminals, using an impedance-matching network if necessary, to "cohere" the emissions. It may be necessary to adjust the signal level to accomplish this.

The basic test procedure was in accordance with ANSI C63.4:2009 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

NOTE:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. For measurement above 1GHz, the test receiver/spectrum analyzer resolution bandwidth is 1MHz and video bandwidth is 3MHz for Peak detection. For Average measurement, the resolution bandwidth was set to 1MHz and video bandwidth was set to 10Hz.
- 3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
- 4. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 6. Margin value = Emission level Limit value.

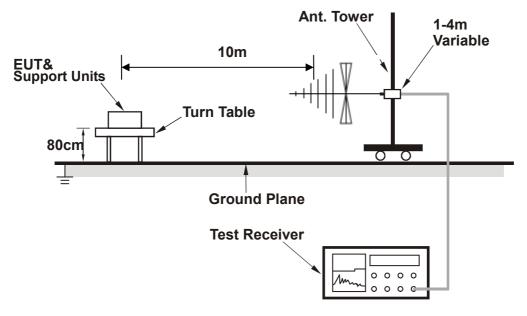


3.2.4 DEVIATION FROM TEST STANDARD

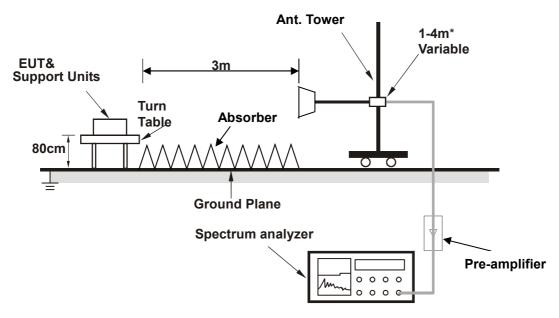
No deviation

3.2.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



*: depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

3.2.6 EUT OPERATING CONDITIONS

Same as item 3.1.6.

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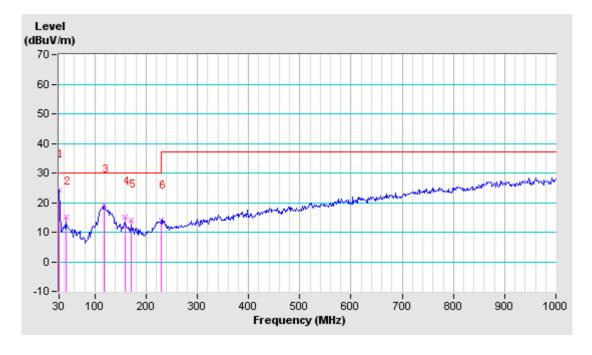


3.2.7 TEST RESULTS

TEST MODE	Charging	FREQUENCY RANGE	30-1000MHz	
TEST VOLTAGE	DC9V from adapter input AC120V 60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz	
ENVIRONMENTAL CONDITIONS	22deg. C, 50% RH	TESTED BY: Robert		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M									
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)		
1	30.00	13.19	11.00	24.19	30.00	-5.81	347	294		
2	42.93	15.04	0.02	15.06	30.00	-14.94	266	226		
3	118.92	13.01	6.19	19.20	30.00	-10.80	312	265		
4	159.33	15.01	0.03	15.04	30.00	-14.96	285	241		
5	170.65	14.10	0.03	14.13	30.00	-15.87	162	137		
6	230.00	13.43	0.55	13.98	30.00	-16.02	236	200		

REMARKS: The emission levels of other frequencies were very low against the limit.



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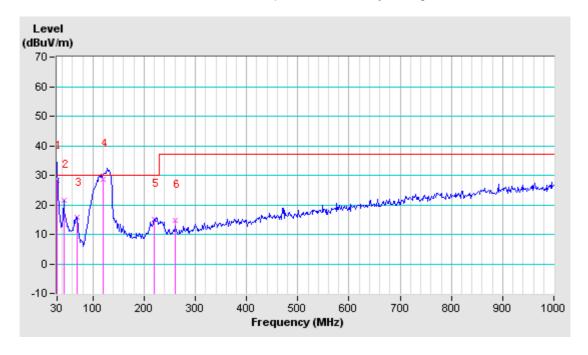
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TEST MODE	Charging	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	DC9V from adapter input AC120V 60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	22deg. C, 50% RH	TESTED BY: Rober	t

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M										
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)			
1	30.00	13.19	15.00	28.19	30.00	-1.81	100	0			
2	42.93	15.04	6.50	21.54	30.00	-8.46	100	216			
3	68.80	12.53	3.07	15.60	30.00	-14.40	100	216			
4	120.08	13.12	15.50	28.62	30.00	-1.38	100	310			
5	219.15	12.71	2.44	15.15	30.00	-14.85	100	216			
6	261.18	14.69	0.02	14.71	37.00	-22.29	100	216			

REMARKS: The emission levels of other frequencies were very low against the limit.



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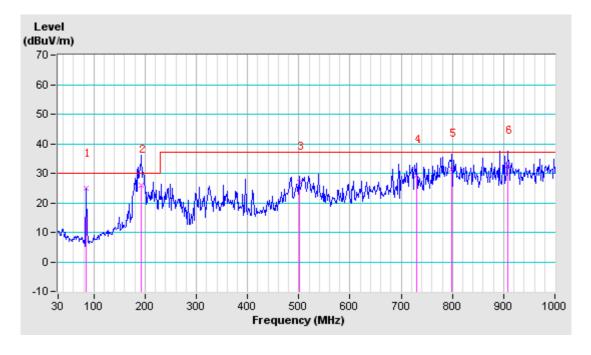
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TEST MODE	TX RX Link Normal working	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	Controller: DC 9V from battery Car: DC 7.2V from battery	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	22deg. C, 50% RH	TESTED BY: Robert	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M									
No.	Freq. (MHz)	Correction Factor	Raw Value	Emission Level	Limit (dBuV/m)	Margin (dB)	Antenna Height	Table Angle		
1	30.00	(dB/m) 13.19	(dBuV) 11.00	(dBuV/m) 24.19	30.00	-5.81	(cm) 347	(Degree) 294		
2	42.93	15.04	0.02	15.06	30.00	-14.94	266	226		
3	118.92	13.01	6.19	19.20	30.00	-10.80	312	265		
4	159.33	15.01	0.03	15.04	30.00	-14.96	285	241		
5	170.65	14.10	0.03	14.13	30.00	-15.87	162	137		
6	230.00	13.43	0.55	13.98	30.00	-16.02	236	200		

REMARKS: The emission levels of other frequencies were very low against the limit.



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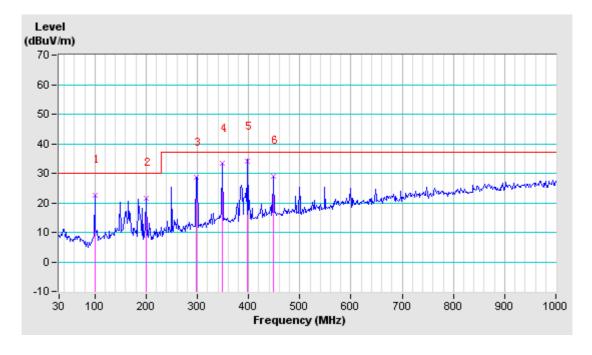
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TEST MODE	TX RX Link Normal working	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	Controller: DC 9V from battery Car: DC 7.2V from battery	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	22deg. C, 50% RH	TESTED BY: Robe	rt

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M									
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)		
1	99.52	11.05	11.59	22.64	30.00	-7.36	100	0		
2	199.75	11.90	9.72	21.62	30.00	-8.38	100	0		
3	298.37	16.05	12.50	28.55	37.00	-8.45	100	0		
4	348.48	17.48	15.80	33.28	37.00	-3.72	100	0		
5	398.60	18.88	15.02	33.90	37.00	-3.10	100	0		
6	448.72	20.44	8.68	29.12	37.00	-7.88	100	0		

REMARKS: The emission levels of other frequencies were very low against the limit.



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the test photo document (Reference No.:140403N046)

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5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

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