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TEST REPORT N°: CQL-09MY031LTSPB EMC TEST REPORT

To :	Linhai Chuangqi Lights Co., Ltd.	Fax :	0576-51331708
Attn :	Ma Shunli	Email :	longfengma@163.com
Address :	Sanxigang Village, Dayang Street, Linhai City, Zhejiang, China		
Cc :	--	Fax/Email	--
Attn :	--		
This document includes : 17 pages		Test date :	May 7 to June 5, 2009

FACTORY NAME :	Linhai Chuangqi Lights Co., Ltd.	
ADDRESS :	Sanxigang Village, Dayang Street, Linhai City, Zhejiang, China	
PRODUCT :	Lighting Chain	
TYPE REFERENCE :	(See Model List for Detail)	
RATED VOLTAGE :	220-240VAC, 50Hz	
RATED INPUT POWER :	--	
PROTECTION CLASS :	II	
TESTS REALISED :	On 1 sample of one model with flash LED lamp	
STANDARDS USED(DATE) :	EN 55014-1:2006 EN 55014-2:1997+A1:2001 EN 55015:2006+A1:2007 EN 61547:1995+A1:2000 EN 61000-3-2:2006 EN 61000-3-3:1995+A1:2001+A2:2005	
CLAUSES EXAMINED :	All Clauses Relevant	

All the tests done in this report are subcontracted to ADT Corporation, which is accredited by A2LA under number '2343.01'.

CONCLUSION :		The samples do satisfy the clauses examined.
Test done by,	<i>Toffee Wang</i>	Approved by,
Name : Toffee.Wang		Name : <i>YIXU</i>
Date : May 9, 2009		Date : <i>May 9, 2009</i>

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EMC TEST REPORT

To :	Linhai Chuangqi Lights Co., Ltd.	Fax :	0576-51331708
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Address :	Sanxigang Village, Dayang Street, Linhai City, Zhejiang, China		
Cc :	--	Fax/Email	--
Attn :	--		
This document includes : 17 pages		Test date :	May 7 to June 5, 2009

FACTORY NAME :	Linhai Chuangqi Lights Co., Ltd.	
ADDRESS :	Sanxigang Village, Dayang Street, Linhai City, Zhejiang, China	
PRODUCT :	Lighting Chain	
TYPE REFERENCE :	(See Model List for Detail)	
RATED VOLTAGE :	220-240VAC, 50Hz	
RATED INPUT POWER :	--	
PROTECTION CLASS :	II	
TESTS REALISED :	On 1 sample of one model with flash LED lamp	

STANDARDS USED(DATE) :	EN 55014-1:2006 EN 55014-2:1997+A1:2001 EN 55015:2006+A1:2007 EN 61547:1995+A1:2000 EN 61000-3-2:2006 EN 61000-3-3:1995+A1:2001+A2:2005
CLAUSES EXAMINED :	All Clauses Relevant

All the tests done in this report are subcontracted to ADT Corporation, which is accredited by A2LA under number '2343.01'.

CONCLUSION :	The samples do satisfy the clauses examined.
Test done by,	Approved by,
Name : Toffee.Wang	Name : Yi XU
Date : May 9, 2009	Date : May 9, 2009

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Page 1 of 17		TEST REPORT EN 61000-6-3/-1(2001) Ver 1.4



TEST REPORT N°: CQL-09MY031LTSPB

1 TESTING PROGRAM

The tests have been carried out according to the requirements of the following standards :

Emission standard EN 55014-1:2006

- Measurement of the disturbance voltage levels.
- Measurement of the discontinuous disturbance levels.
- Measurement of the disturbance power levels.
- Measurement of the radiated disturbance levels.

Immunity standard EN 55014-2:1997+A1:2001

- Immunity to electrostatic discharges - publication IEC 61000-4-2.
- Immunity to fast transients/bursts - publication IEC 61000-4-4.
- Immunity to conducted disturbances induced by radio-frequency fields - publication IEC 61000-4-6.
- Immunity to radiated radio-frequency electromagnetic field with amplitude modulation - publication IEC 61000-4-3.
- Immunity to surges - publication IEC 61000-4-5.
- Immunity to voltage dips -publication IEC 61000-4-11.
- Immunity to voltage interruptions - publication IEC 61000-4-11.

Emission standard EN 55015:2006+A1:2007

- Measurement of the continuous conducted emission levels.
- Measurement of the radiated emission levels.

Immunity standard EN 61547:1995+A1:2000

- Immunity to electrostatic discharges - publication IEC 61000-4-2.
- Immunity to fast transients/bursts - publication IEC 61000-4-4.
- Immunity to conducted disturbances induced by radio-frequency fields - publication IEC 61000-4-6.
- Immunity to radiated radio-frequency electromagnetic field with amplitude modulation - publication IEC 61000-4-3.
- Immunity to surges - publication IEC 61000-4-5.
- Immunity to voltage dips -publication IEC 61000-4-11.
- Immunity to voltage interruptions - publication IEC 61000-4-11.

Emission standard EN 61000-3-2:2006

- Measurement of the harmonic currents.

Emission standard EN 61000-3-3:1995+A1:2001+A2:2005

- Measurement of the voltage fluctuations.

Special Comment : The models have flash LED lamp or steady LED lamp only. So we performed all tests on one model with flash LED lamp with max. input power.

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Page 2 of 17		
TEST REPORT EN 61000-6-3-1(2001) Ver 1.4		



TEST REPORT N°: CQL-09MY031LTSPB

2 HISTORY OF FAILURE

None.

3 Model List

Type	No of bulbs	Rated Power(W)Range	Type of Rectifier	Rated voltage(V)	Remark
HED#XXX*-44	10-300	3.6-18	CCH06	220-240	
HED/HLED#XXX*	10-300	3.6-18	CCH06	220-240	

Explanation

HLED/HED Factory code for led non replaceable (we make two references number for the same lighting chain for two customers)

color of led

xxx number of bulbs(min:10bulbs max:300bulbs)

***** shape of decoration

44 lighting chain for outdoor use /without code :for indoor use

color of bulb: A=purple, B=blue, G=green ,P=pink, S=selfblinking and etc.

Shape of Light Chain: C=Curtain light D=flower light I=icicle N=net light without code=lighting chain without decoration

E.G.:HEDB120: 220-240V IP20 120L Light Chain, Bulb LED

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Page 3 of 17		

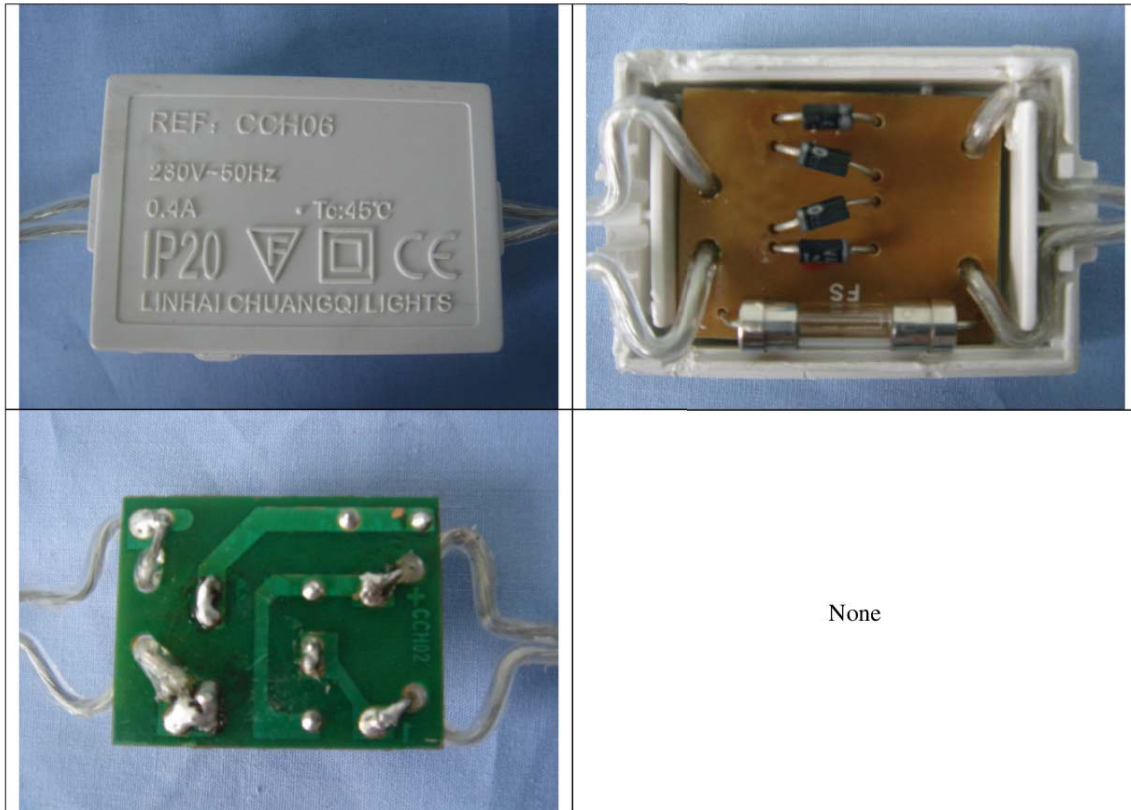


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TEST REPORT N°: CQL-09MY031LTSPB

4 EQUIPMENT CHARACTERISTICS

4.1 Picture of Tested Sample



4.2 List of critical EMC components

Object/Part No.	Manufacturer / Trademark	Type / Model	Technical data	Mark(s) of conformity
Rectifier	LINHAI CHUANGQI LIGHTS CO., LTD	CCH06	-	--



TEST REPORT N°: CQL-09MY031LTSPB

5 OPERATING CONDITIONS

The apparatus was placed in a shielded room, full anechoic chamber, and was powered with an alternative current source through filters mounted on the shielded room wall. The apparatus was worked continuously.

Ambient conditions :
Temperature : 20-21 °C
Relative humidity : 50-51 %
Atmospheric pressure : 100-101 kPa

6 PERFORMANCE CRITERIA

For EN55014-2

Criterion A : The apparatus operate as intended during the test. No degradation of performance or loss of function is allowed below the performance level.

Criterion B : The apparatus operate as intended after the test. No change of operating state and the stored data are allowed. During the test, degradation of performance is allowed.

Criterion C : Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

For EN 61547

Criterion A : During the test no change of the luminous intensity shall be observed, if any, shall operate during the test as intended.

Criterion B : During the test the luminous intensity may change to any value. After the test the luminous intensity shall be restored to its initial value within 1 min.

Criterion C : During and after the test any change of the luminous intensity is allowed and the lamp may be extinguished. After the test, within 30 min, all functions shall return to normal if necessary by temporary interruption of the mains supply.

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Page 5 of 17		TEST REPORT EN 61000-6-3/-1(2001) Ver 1.4



TEST REPORT N°: QQL-09MY031LTSPB

7 TEST RESULTS

7.1 EMISSION STANDARD EN 55014-1:2006

Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Rem
4.1	<u>Disturbance Voltage Limit</u> Frequency range: 0.15 to 30 MHz	Operating conditions : according to the article 7.3.1 <input checked="" type="checkbox"/> Not for Toy <input type="checkbox"/> Toys of Category: Port(s) : • AC mains port • Diagram No. <1>	[X]	[]	[]	[]
4.1.2	<u>Disturbance Power Limit</u> Frequency range : 30 to 300 MHz	<input checked="" type="checkbox"/> Not for Toy <input type="checkbox"/> Toys of Category: Port(s) : • AC mains port • Diagram No. < >	[]	[]	[X]	[1]
4.1.3	<u>Radiated disturbance limits</u> Frequency range: 30 to 1000 MHz	Operating conditions : according to the article 7.3.6 <input type="checkbox"/> For Toys of Category: Measuring Distance: Antenna : - horizontal position - vertical position Diagram(s) No. <>	[] []	[] []	[X] [X]	[] []
4.2	<u>Discontinuous Disturbance Limit</u> Frequency range: 0.15 to 30 MHz	Operating conditions : according to the article 7.3.1 <input checked="" type="checkbox"/> Not for Toy <input type="checkbox"/> Toys of Category: Port(s) : • AC mains port • Table(s) No. <1>	[X]	[]	[]	[2]

P : pass – F : Fail – NA : not applicable – Rem : remark

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Page 6 of 17		TEST REPORT EN 61000-6-3/-1(2001) Ver 1.4



TEST REPORT N°: CQL-09MY031LTSPB

7.2 IMMUNITY STANDARD EN 55014-2:1997+A1:2001

Apparatus category : II

Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Rem
5.1	<u>Electrostatic discharges</u> Table 1 Enclosure Performance Criterion B	Contact discharges Level : ± 4 kV Application points : • horizontal coupling plane	[X]	[]	[]	[]
		• vertical coupling plane	[X]	[]	[]	[]
		Air discharges Level : ± 8 kV Application points : • plastic enclosure • lamp	[X]	[]	[]	[]
			[X]	[]	[]	[]
5.2	<u>Fast transients/bursts</u> Table 4 Alternative current power input and output port(s) Performance Criterion B	Level : ± 1 kV Repetition rate : 5 kHz Testing time : 2 min Port(s) : • AC mains •	[]	[]	[X]	[]
			[]	[]	[]	[]
5.3	<u>Injected current 0.15 to 230 MHz</u> Table 7 Alternative current power input and output port(s) Performance Criterion A Article 8.4	Voltage level : 3V (unmodulated signal) Modulation frequency : 1 kHz Modulation depth : 80 % Frequency Step : 1% Dwell Time: 2 s Application with CDN-M2 Port(s) : • AC mains	[X]	[]	[]	[]
		•	[]	[]	[]	[]
		Selected frequencies (MHz) :				
		• 0.5	[X]	[]	[]	[]
		• 1	[X]	[]	[]	[]
		• 10	[X]	[]	[]	[]
		• 100	[X]	[]	[]	[]
• 200	[X]	[]	[]	[]		

P : pass - F : Fail - NA : not applicable - Rem : remark



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TEST REPORT N°: CQL-09MY031LTSPB

Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Rem
5.5	<p>Radio-frequency electromagnetic fields 80 to 1000 MHz</p> <p>Table 11 Enclosure</p> <p>Performance criteria A</p>	<p>Test field strength : 3 V/m (unmodulated signal)</p> <p>Modulation frequency : 1 kHz</p> <p>Modulation depth : 80 %</p> <p>Frequency Step : 1% Dwell Time : 2 s</p> <p><input type="checkbox"/> Logperiodic antenna <input type="checkbox"/> GTEM:</p> <p>- horizontal position</p> <p>- vertical position</p> <p>Selected frequencies (MHz) :</p> <ul style="list-style-type: none"> • 100 • 300 • 500 • 700 • 900 				
			[]	[]	[X]	[]
			[]	[]	[X]	[]
			[]	[]	[X]	[]
			[]	[]	[X]	[]
			[]	[]	[X]	[]
5.6	<p>Surges</p> <p>Table 12</p> <p>Alternative current power input and output port(s)</p> <p>Performance Criterion B</p>	<p>Tr/Th(μs) : 1.2/50 (8/20)</p> <p>Number of surges : 5 positive and 5 negative</p> <p>Phase angles : 0°, 90°, 180° and 270°</p> <p>Level : ± 1 kV</p> <p>Port(s) :</p> <ul style="list-style-type: none"> • power input, between lines and neutral • 				
			[X]	[]	[]	[]
			[]	[]	[]	[]
		<p>Level : ± 2 kV</p> <p>Port(s) :</p> <ul style="list-style-type: none"> • power input, between lines and earth • power input, between neutral and earth • 				
			[X]	[]	[]	[]
			[X]	[]	[]	[]

P : pass - F : Fail - NA : not applicable - Rem : remark



TEST REPORT N°: CQL-09MY031LTSPB

Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Rem
5.7	<u>Voltage dips and voltage interruptions</u> Table 13 Alternative current power input port(s) Performance Criterion C	<u>Voltage interruptions</u> Test level : 0 % Ut -> 0 V Duration : 10 ms Phase angles : 0° and 180° Port(s) : • AC mains	[X]	[]	[]	[]
		<u>Voltage dips</u> Test level : 40 % Ut -> 92 V Duration : 200 ms Phase angles : 0° Port(s) : • AC mains	[X]	[]	[]	[]
		<u>Voltage dips</u> Test level : 70 % Ut -> 161 V Duration : 1000 ms Phase angles : 0° Port(s) : • AC mains	[X]	[]	[]	[]

P : pass - F : Fail - NA : not applicable - Rem : remark



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TEST REPORT N°: CQL-09MY031LTSPB

7.3 EMISSION STANDARD EN 55015:2006+A1:2007

Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Rem
4.3	<u>Disturbance Voltage</u>	Operating conditions : according to the article 6				
4.3.1	Mains terminals Frequency range: 0,009 to 30 MHz	Port(s) : • AC mains port • Diagram(s) No. <1>	[X] []	[] []	[] []	[] []
4.3.2	Load and control terminals Frequency range : 0,009 to 30 MHz	• Load and control terminals • Diagram(s) No. <>	[] []	[] []	[X] []	[3] []
4.4	<u>Radiated Electromagnetic Disturbance</u>	Operating conditions : according to the article 6				
	Frequency range : 0,009 to 30 MHz	• 2 m Loop antenna • Diagram (s) No. <>	[] []	[] []	[X] []	[4] []
	<u>Radiated disturbance limits</u>					
	Frequency range: 30 to 300 MHz	Measuring Distance: 3 m Antenna : - horizontal position - vertical position Diagram(s) No. <>	[] []	[] []	[X] [X]	[4] [4]

P : pass - F : Fail - NA : not applicable - Rem : remark



TEST REPORT N°: CQL-09MY031LTSPB

7.4 IMMUNITY STANDARD EN 61547:1995+A1:2000

For lighting equipment containing active electronic components which e.g. convert or regulate the operating voltage and/or the frequency of the light source.

Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Rem
5.2	<u>Electrostatic discharges</u>	Contact discharges Level : \pm 4 kV				
	Table 1 Enclosure Performance criteria B	Application points : • horizontal coupling plane • vertical coupling plane	[X] [X]	[] []	[] []	[] []
	Performance criteria B	Air discharges Level : \pm 8 kV Application points : • plastic enclosure • lamp	[X] [X]	[] []	[] []	[] []
5.3	<u>Radio-frequency electromagnetic fields 80 to 1000 MHz</u>	Test field strength : 3 V/m (unmodulated signal) Modulation frequency : 1 kHz Modulation depth : 80 % Frequency Step : 1% Dwell Time : 2 s Logperiodic antenna :				
	Table 2 Enclosure Performance criteria A	- horizontal position - vertical position	[X] [X]	[] []	[] []	[] []
5.4	<u>Fast transients/bursts</u>	Level : \pm 1 kV Rise time/hold time : 5/50 ns Repetition rate : 5 kHz Testing time : 2 min Port(s) :				
	Table 6 Alternative current power input and output ports Performance criteria B	• AC mains	[X]	[]	[]	[]

P : pass - F : Fail - NA : not applicable - Rem : remark



TEST REPORT N°: CQL-09MY031LTSPB

Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Rem
5.5	<u>Injected current 0,15 to 80 MHz</u> Table 9 Alternative current power input and output ports Performance criterion A	Voltage level : 3 V (unmodulated signal) Modulation frequency : 1 kHz Modulation depth : 80 % Frequency Step : 1% Dwell Time: 2 s Application with CND-M2 Port(s) : • AC mains •	[X]	[]	[]	[]
5.6	<u>Surges</u> Table 10 Alternative current power input and output ports Performance criterion C	Tr/Th(μs) : 1.2/50 (8/20) Number of surges : 5 positive and 5 negative Phase angles : 0°, 90°, 180° and 270° Level : ± 1 kV Port(s) : • power input, between lines and neutral	[X]	[]	[]	[]
	Performance criterion C	Level : ± 2 kV Port(s) : • power input, between lines and earth • power input, between neutral and earth	[X] [X]	[] []	[] []	[] []
5.7	<u>Voltage dips and voltage interruptions</u> Table 12 Alternative current power input and output port(s) Performance criterion B	<u>Voltage interruptions</u> Test level : 0 % Ut-> 0 V Duration : 10 ms Phase angles : 0° and 180° Port(s) : • AC mains	[X]	[]	[]	[]
	Table 11 Alternative current power input and output port (s) Performance criterion C	<u>Voltage dips</u> Test level : 70 % Ut-> 161 V Duration : 200 ms Phase angles : 0° Port(s) : • AC mains	[X]	[]	[]	[]

P : pass - F : Fail - NA : not applicable - Rem : remark



TEST REPORT N°: CQL-09MY031LTSPB

7.5 EMISSION STANDARD EN 61000-3-2:2006

TEST	TEST SPECIFICATION	RESULTS			
		P	F	NA	Rem
<u>Limits for harmonic currents emission</u>	Frequency range: 0 to 2 kHz Class of the apparatus : A Table(s) No. <2>	[X]	[]	[]	[]

P : pass - F : Fail - NA : not applicable - Rem : remark

7.6 EMISSION STANDARD EN 61000-3-3:1995+A1:2001+A2:2005

TEST	TEST SPECIFICATION	RESULTS			
		P	F	NA	Rem
<u>Limitation of voltage fluctuations and flicker in low-voltage supply systems</u>	Frequency range: 0 to 2 kHz Table(s) No. <>	[X]	[]	[]	[5]

P : pass - F : Fail - NA : not applicable - Rem : remark

Remark(s) :

- 1 : According to Clause 4.1.2.4 of this standard, the EUT does not contain any internal frequency or clock generator operating at frequency higher than 9 kHz, so the disturbance power test is not applicable.
- 2 : No clicks were observed.
- 3 : There is no load and control terminals.
- 4 : The operation frequency of the lamp current is not in excess of 100 Hz, so this test item is not applicable.
- 5 : The inrush current of this EUT does not exceed 20A, and the supply current after inrush is within a variation band of 1,5A. So according to 6.1 of this standard, the EUT is deemed to comply with this standard without further testing.

8 CONCLUSION

The apparatuses *Lighting Chain* and model (*See Model List for Detail*) are in compliance with the requirements of the standards EN 55014-1:2006, EN 55014-2:1997+A1:2001, EN 55015:2006+A1:2007, EN 61547:1995+A1:2000, EN 61000-3-2:2006 and EN 61000-3-3:1995+A1:2001+A2:2005.



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Page 13 of 17		
TEST REPORT EN 61000-6-3/-1(2001) Ver 1.4		

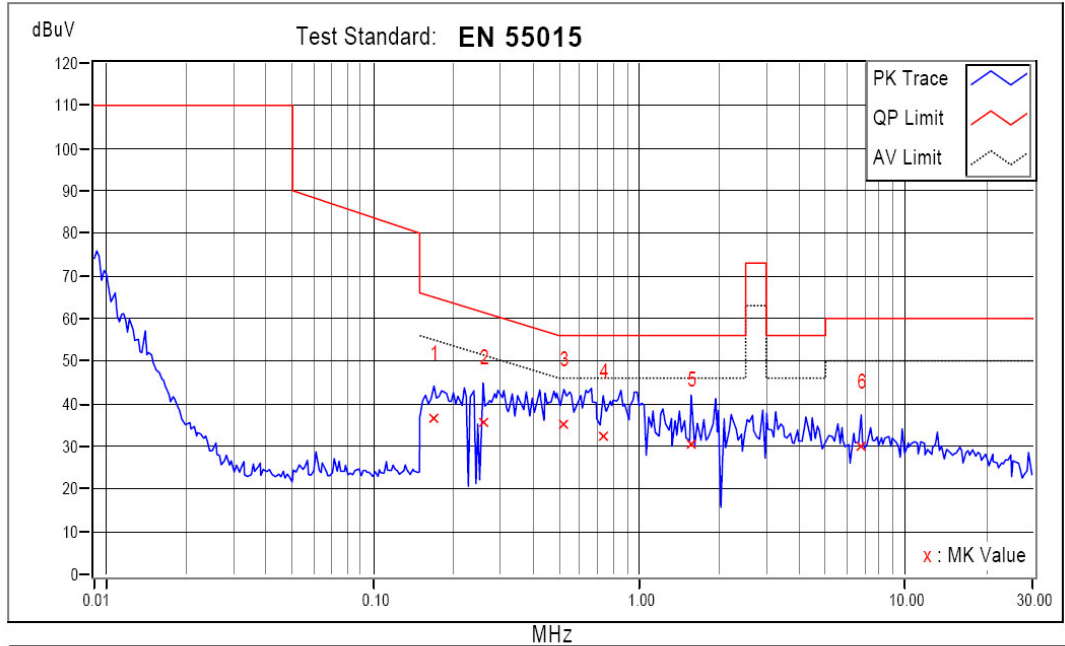


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TEST REPORT N°: CQL-09MY031LTSPB

Continued

Location: Conduction 1 Date: 2009-5-11 Time: 9:35:39 Phase N
 Temperatur (C): 20 Humidity (%): 50 Approved by:



No.	Frequency	Corr. Factor	Reading dBuV		Emission dBuV		Limit dBuV		Margins dB		Notes
	MHz		QP	AV	QP	AV	QP	AV	QP	AV	
1	0.16955	9.76	26.95	2.66	36.71	12.42	64.98	54.98	-28.27	-42.56	
2	0.25948	9.71	25.74	2.76	35.45	12.47	61.45	51.45	-26.00	-38.98	
+3	0.52145	9.71	25.54	15.91	35.25	25.62	56.00	46.00	-20.75	-20.38	
4	0.73821	9.75	22.81	10.28	32.56	20.03	56.00	46.00	-23.44	-25.97	
5	1.56695	9.76	20.50	10.65	30.26	20.41	56.00	46.00	-25.74	-25.59	
6	6.81417	10.01	20.11	10.06	30.12	20.07	60.00	50.00	-29.88	-29.93	



TEST REPORT N°: CQL-09MY031LTSPB

Table No. 1

Frequency	150kHz	500kHz	1.4MHz	30MHz
Limit value (L)(dB/uV)	66	56	56	60
Amount of clicks > L	short: 0 long: 0	short: 0 long: 0	short: 0 long: 0	short: 0 long: 0
Registration ">2 in 2sec"?	N	N	N	N
DIA Continuous (sec)	cont: 0.00	cont: 0.00	cont: 0.00	cont: 0.00
Only if "cont" > 0:				
Conform with exceptions 4.2.3?				
Total amount of clicks > L (short + long)	n = 0	n = 0	n = 0	n = 0
Switching operations: s = 0				
Observation time T = 120 min 0 sec				
Click Rate (N = n/T) MHz)	N = 0.00	N = 0.00 (used for 0,5 MHz to 30		
New limit: Lq = L + 20 log 30/N (maximum L + 44)	-	-	-	-
Amount of clicks > Lq	-	-	-	-
Observation time = -				
% > Lq (max 25%)	-	-	-	-
Remarks:	Apparatus Passes (subject to exceptions) Click rate not > 5 and no long clicks. Run time limit reached			
Conformity:	YES			



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TEST REPORT N°: CQL-09MY031LTSPB

Table No. 2

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.001	1.080	0.1	0.001	1.620	0.08	Pass
3	0.007	2.300	0.3	0.009	3.450	0.25	Pass
4	0.001	0.430	0.2	0.001	0.645	0.16	Pass
5	0.002	1.140	0.2	0.003	1.710	0.15	Pass
6	0.001	0.300	0.2	0.001	0.450	0.14	Pass
7	0.001	0.770	0.1	0.001	1.155	0.09	Pass
8	0.000	0.230	0.1	0.000	0.345	0.10	Pass
9	0.000	0.400	0.1	0.001	0.600	0.10	Pass
10	0.000	0.184	0.2	0.000	0.276	0.13	Pass
11	0.001	0.330	0.2	0.001	0.495	0.14	Pass
12	0.000	0.153	0.2	0.000	0.230	0.17	Pass
13	0.000	0.210	0.2	0.001	0.315	0.20	Pass
14	0.000	0.131	0.2	0.000	0.197	0.17	Pass
15	0.000	0.150	0.3	0.000	0.225	0.22	Pass
16	0.000	0.115	0.2	0.000	0.173	0.17	Pass
17	0.000	0.132	0.3	0.000	0.199	0.24	Pass
18	0.000	0.102	0.2	0.000	0.153	0.20	Pass
19	0.000	0.118	0.3	0.000	0.178	0.27	Pass
20	0.000	0.092	0.3	0.000	0.138	0.23	Pass
21	0.000	0.107	0.4	0.001	0.161	0.33	Pass
22	0.000	0.084	0.3	0.000	0.125	0.25	Pass
23	0.000	0.098	0.4	0.001	0.147	0.34	Pass
24	0.000	0.077	0.3	0.000	0.115	0.28	Pass
25	0.000	0.090	0.5	0.001	0.135	0.40	Pass
26	0.000	0.071	0.4	0.000	0.106	0.30	Pass
27	0.000	0.083	0.5	0.001	0.125	0.45	Pass
28	0.000	0.066	0.4	0.000	0.099	0.33	Pass
29	0.000	0.078	0.6	0.001	0.116	0.48	Pass
30	0.000	0.061	0.4	0.000	0.092	0.40	Pass
31	0.000	0.073	0.7	0.001	0.109	0.54	Pass
32	0.000	0.058	0.5	0.000	0.086	0.38	Pass
33	0.000	0.068	0.7	0.001	0.102	0.60	Pass
34	0.000	0.054	0.5	0.000	0.081	0.44	Pass
35	0.000	0.064	0.7	0.001	0.096	0.60	Pass
36	0.000	0.051	0.5	0.000	0.077	0.43	Pass
37	0.000	0.061	0.7	0.001	0.091	0.61	Pass
38	0.000	0.048	0.6	0.000	0.073	0.47	Pass
39	0.000	0.058	0.8	0.001	0.087	0.68	Pass
40	0.000	0.046	0.4	0.000	0.069	0.39	Pass

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