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TEST REPORT N°: TDF-08JA245LCSPB

### EMC TEST REPORT

To :	TAIZHOU D&F LIGHTING MFG. CO., LTD.	Fax :	0576-82434704
Attn :	Mr. Zhang Haijun	Email :	-
Address :	No.438 Airport Road, Luqiao District, Taizhou, 318050 Zhejiang, CHINA		
Cc :		Fax/Email :	
Attn :			
This document includes : 35 pages		Test date :	Jan. 14 – May 26, 2008

FACTORY NAME :	TAIZHOU D&F LIGHTING MFG. CO., LTD.	
ADDRESS :	No.438 Airport Road, Luqiao District, Taizhou, 318050 Zhejiang, CHINA	
PRODUCT :	Lighting Chain	
TYPE REFERENCE :	(See Page. 3-13 for detail)	
RATED VOLTAGE :	AC 230V, 50Hz	
RATED INPUT POWER:	-	
PROTECTION CLASS :	II	
TESTS REALISED :	On samples of DF-LED-1600S, DF-LED-1600C, DF-GS-136C-4, DF-LED-925SE, DF-GS-250SE	
OSTANDARDS USED(DATE) :	EN 55014-1:2006 EN 55014-2:1997+A1:2001 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 Shanghai Testing and Inspection Institute for Electrical Appliances (TIET), which is accredited by CNAS under number 'L0200'.		
CONCLUSION :		<b>The samples do satisfy the clauses examined .</b>
Test done by:		Approved by:
Name Trulli LI <i>Trulli Li</i>	Date : May 30, 2008	Name Yi XU Date : May 30, 2008
<small>This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.</small>		

LCIE CHINA 上海欧亚电气技术咨询服务有限公司	F3-F4-F5 BUILDING 10, No 489 NORTH TIBET ROAD, SHANGHAI, 200071, P.R.CHINA	Tel.: +86 21 6605 8286 Fax: +86 21 6605 9394 Email: <a href="mailto:contact@cn.bureauveritas.com">contact@cn.bureauveritas.com</a>
Page 1 of 35		TEST REPORT EN 55014-1+A1+A2 VER.1.3



TEST REPORT N°: TDF-08JA245LCSPB

# 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 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 and flickers.

Special Comment : For the LED without the controller, we performed all EMC tests on the model DF-LED-1600S to represent the others.  
For the rice bulb without the controller, no EMC tests are needed.  
For the LED with the controller, we performed all EMC tests on the model DF-LED-1600C to represent the others.  
For the rice bulb with the controller, we performed disturbance voltage & harmonic tests on the model DF-GS-136C-4 to represent the others.  
For the rice bulb & LED with the single flashing controller, we performed all EMC tests on the model DF-LED-925SE and click & harmonic on the model DF-GS-250SE to represent the others.

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Page 2 of 35		
TEST REPORT EN 55014-1+A1+A2 VER.1.3		



TEST REPORT N°: TDF-08JA245LCSPB

2 HISTORY OF FAILURE

None.

3 Model List

RICE BULB(230V, Ordinary can not be replaced, IP20 and decoration series)								
WITHOUT				CONTROLLER				
Model List				bulb	bulb		Lighting Chain	controller
IP20	IP20 sigle flash	IP20 with decoration	IP20 with decoration sigle flash	(bulb/groupXgroup /chain)	Voltage/ Current	Power	Power	
DF-GS-20S	DF-GS-20SE	DF-GS-20SP	DF-GS-20SPE	20X1	12V/50MA	0.6W	12W	
DF-GS-24S	DF-GS-24SE	DF-GS-24SP	DF-GS-24SPE	24X1	9.5V/50MA	0.475W	11.4W	
DF-GS-25S	DF-GS-25SE	DF-GS-25SP	DF-GS-25SPE	25X1	9.5V/50MA	0.475W	11.9W	
DF-GS-30S	DF-GS-30SE	DF-GS-30SP	DF-GS-30SPE	30X1	8V/70MA	0.56W	16.8W	
DF-GS-35S	DF-GS-35SE	DF-GS-35SP	DF-GS-35SPE	35X1	6.5V/70MA	0.455W	16.0W	
DF-GS-36S	DF-GS-36SE	DF-GS-36SP	DF-GS-36SPE	36X1	6.5V/70MA	0.455W	16.4W	
DF-GS-40S	DF-GS-40SE	DF-GS-40SP	DF-GS-40SPE	40X1	6V/70MA	0.42W	16.8W	
DF-GS-44S	DF-GS-44SE	DF-GS-44SP	DF-GS-44SPE	44X1	5.5V/70MA	0.385W	17.0W	
DF-GS-45S	DF-GS-45SE	DF-GS-45SP	DF-GS-45SPE	45X1	5V/70MA	0.35W	15.8W	
DF-GS-48S	DF-GS-48SE	DF-GS-48SP	DF-GS-48SPE	48X1	5V/70MA	0.35W	16.8W	
DF-GS-50S	DF-GS-50SE	DF-GS-50SP	DF-GS-50SPE	50X1	5V/70MA	0.35W	17.5W	
DF-GS-54S	DF-GS-54SE	DF-GS-54SP	DF-GS-54SPE	54X1	4.5V/70MA	0.315W	17.1W	
DF-GS-60S	DF-GS-60SE	DF-GS-60SP	DF-GS-60SPE	60X1	4V/70MA	0.28W	16.8W	
DF-GS-64S	DF-GS-64SE	DF-GS-64SP	DF-GS-64SPE	64X1	3.5V/70MA	0.245W	15.7W	
DF-GS-66S	DF-GS-66SE	DF-GS-66SP	DF-GS-66SPE	66X1	3.5V/70MA	0.245W	16.2W	
DF-GS-68S	DF-GS-68SE	DF-GS-68SP	DF-GS-68SPE	68X1	3.5V/70MA	0.245W	16.7W	
DF-GS-69S	DF-GS-69SE	DF-GS-69SP	DF-GS-69SPE	69X1	3.5V/70MA	0.245W	17.0W	
DF-GS-72S	DF-GS-72SE	DF-GS-72SP	DF-GS-72SPE	72X1	3.5V/70MA	0.245W	17.7W	
DF-GS-76S	DF-GS-76SE	DF-GS-76SP	DF-GS-76SPE	76X1	3V/70MA	0.21W	16.0W	
DF-GS-78S	DF-GS-78SE	DF-GS-78SP	DF-GS-78SPE	78X1	3V/70MA	0.21W	16.4W	
DF-GS-80S	DF-GS-80SE	DF-GS-80SP	DF-GS-80SPE	80X1	3V/70MA	0.21W	16.8W	
DF-GS-84S	DF-GS-84SE	DF-GS-84SP	DF-GS-84SPE	84X1	2.8V/70MA	0.196W	16.5W	
DF-GS-88S	DF-GS-88SE	DF-GS-88SP	DF-GS-88SPE	88X1	2.8V/70MA	0.196W	17.3W	
DF-GS-90S	DF-GS-90SE	DF-GS-90SP	DF-GS-90SPE	90X1	2.5V/70MA	0.175W	15.8W	
DF-GS-96S	DF-GS-96SE	DF-GS-96SP	DF-GS-96SPE	96X1	2.5V/70MA	0.175W	16.8W	
DF-GS-100S	DF-GS-100SE	DF-GS-100SP	DF-GS-100SPE	100X1	2.4V/70MA	0.168W	16.8W	
DF-GS-114S	DF-GS-114SE	DF-GS-114SP	DF-GS-114SPE	114X1	2V/70MA	0.14W	16.0W	
DF-GS-120S	DF-GS-120SE	DF-GS-120SP	DF-GS-120SPE	60X2	4V/70MA	0.28W	33.6W	



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**TEST REPORT N°: TDF-08JA245LCSPB**

DF-GS-124S	DF-GS-124SE	DF-GS-124SP	DF-GS-124SPE	62X2	4V/70MA	0.28W	34.8W	
DF-GS-128S	DF-GS-128SE	DF-GS-128SP	DF-GS-128SPE	64X2	3.5V/70MA	0.245W	31.4W	
DF-GS-132S	DF-GS-132SE	DF-GS-132SP	DF-GS-132SPE	66X2	3.5V/70MA	0.245W	32.4W	
DF-GS-136S	DF-GS-136SE	DF-GS-136SP	DF-GS-136SPE	68X2	3.5V/70MA	0.245W	33.4W	
DF-GS-137S	DF-GS-137SE	DF-GS-137SP	DF-GS-137SPE	68X1+69X1	3.5V/70MA	0.245W	33.6W	
DF-GS-140S	DF-GS-140SE	DF-GS-140SP	DF-GS-140SPE	70X2	3.5V/70MA	0.245W	34.3W	
DF-GS-144S	DF-GS-144SE	DF-GS-144SP	DF-GS-144SPE	72X2	3.5V/70MA	0.245W	35.3W	
DF-GS-150S	DF-GS-150SE	DF-GS-150SP	DF-GS-150SPE	75X2	3V/70MA	0.21W	31.5W	
DF-GS-152S	DF-GS-152SE	DF-GS-152SP	DF-GS-152SPE	76X2	3V/70MA	0.21W	32.0W	
DF-GS-160S	DF-GS-160SE	DF-GS-160SP	DF-GS-160SPE	80X2	3V/70MA	0.21W	33.6W	
DF-GS-168S	DF-GS-168SE	DF-GS-168SP	DF-GS-168SPE	84X2	2.8V/70MA	0.196W	33.0W	
DF-GS-175S	DF-GS-175SE	DF-GS-175SP	DF-GS-175SPE	35X5	6.5V/70MA	0.455W	80.0W	
DF-GS-176S	DF-GS-176SE	DF-GS-176SP	DF-GS-176SPE	88X2	2.8V/70MA	0.196W	34.5W	
DF-GS-180S	DF-GS-180SE	DF-GS-180SP	DF-GS-180SPE	90X2	2.5V/70MA	0.175W	31.5W	
DF-GS-180S	DF-GS-180SE	DF-GS-180SP	DF-GS-180SPE	45X4	5V/70MA	0.35W	63.0W	
DF-GS-190S	DF-GS-190SE	DF-GS-190SP	DF-GS-190SPE	95X2	2.5V/70MA	0.175W	33.3W	
DF-GS-192S	DF-GS-192SE	DF-GS-192SP	DF-GS-192SPE	96X2	2.5V/70MA	0.175W	33.6W	
DF-GS-200S-2	DF-GS-200SE-2	DF-GS-200SP-2	DF-GS-200SPE-2	100X2	2.4V/70MA	0.165W	33.6W	
DF-GS-200S-10		DF-GS-200SP-10		20X10	12V/50MA	0.6W	120W	
DF-GS-208S	DF-GS-208SE	DF-GS-208SP	DF-GS-208SPE	52X4	4.5V/70MA	0.315W	65.6W	
DF-GS-225S	DF-GS-225SE	DF-GS-225SP	DF-GS-225SPE	75X3	3V/70MA	0.21MA	47.3W	
DF-GS-240S	DF-GS-240SE	DF-GS-240SP	DF-GS-240SPE	60X4	4V/70MA	0.28W	67.2W	
DF-GS-250S	DF-GS-250SE	DF-GS-250SP	DF-GS-250SPE	50X5	5V/70MA	0.35W	87.5W	
DF-GS-256S	DF-GS-256SE	DF-GS-256SP	DF-GS-256SPE	64X4	3.5V/70MA	0.245W	62.8W	
DF-GS-280S	DF-GS-280SE	DF-GS-280SP	DF-GS-280SPE	70X4	3.5V/70MA	0.245W	68.6W	
DF-GS-288S	DF-GS-288SE	DF-GS-288SP	DF-GS-288SPE	72X4	3.5V/70MA	0.245W	70.6W	
DF-GS-300S	DF-GS-300SE	DF-GS-300SP	DF-GS-300SPE	75X4	3V/70MA	0.21W	63.0W	
DF-GS-320S	DF-GS-320SE	DF-GS-320SP	DF-GS-320SPE	80X4	3V/70MA	0.21W	67.2W	
DF-GS-350S	DF-GS-350SE	DF-GS-350SP	DF-GS-350SPE	70X5	3.5V/70MA	0.245W	85.8W	
DF-GS-360S	DF-GS-360SE	DF-GS-360SP	DF-GS-360SPE	90X4	2.5V/70MA	0.175W	63.0W	
DF-GS-400S-4	DF-GS-400SE-4	DF-GS-400SP-4	DF-GS-400SPE-4	100X4	2.4V/70MA	0.165W	67.2W	
DF-GS-400S-20		DF-GS-400SP-20		20X20	12V/50MA	0.6W	240W	
DF-GS-406S		DF-GS-406SP		58X7	4V/70MA	0.28W	114W	
DF-GS-408S	DF-GS-408SE	DF-GS-408SP	DF-GS-408SPE	102X4	2.4V/70MA	0.165W	68.6W	
DF-GS-456S		DF-GS-456SP		19X24	12V/50MA	0.6W	274W	
DF-GS-468S		DF-GS-468SP		78X6	3V/70MA	0.21W	98.3W	
DF-GS-480S		DF-GS-480SP		80X6	3V/70MA	0.21W	100.8W	
DF-GS-500S	DF-GS-500SE	DF-GS-500SP	DF-GS-500SPE	100X5	2.4V/70MA	0.165W	84.0W	
DF-GS-600S-6		DF-GS-600SP-6		100X6	2.4V/70MA	0.165W	100.8W	
DF-GS-600S-20		DF-GS-600SP-20		30X20	8V/70MA	0.56W	336W	
DF-GS-720S-8		DF-GS-720SP-8		90X8	2.5V/70MA	0.175W	126.0W	
DF-GS-720S-30		DF-GS-720SP-30		24X30	9.5V/50MA	0.475W	342W	
DF-GS-800S-8		DF-GS-800SP-8		100X8	2.4V/70MA	0.165W	134.4W	
DF-GS-800S-20		DF-GS-800SP-20		40X20	6V/70MA	0.42W	336W	
DF-GS-912S		DF-GS-912SP		38X24	6V/70MA	0.42W	384W	
DF-GS-925S		DF-GS-925SP		37X25	6.5V/70MA	0.455W	421W	
DF-GS-1440S		DF-GS-1440SP		36X40	6.5V/70MA	0.455W	656W	
DF-GS-1520S		DF-GS-1520SP		76X20	3V/70MA	0.21W	320W	
DF-GS-1600S		DF-GS-1600SP		40X40	6V/70MA	0.42W	675W	

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With Controller								
Model			Bulb	Bulb		Lighting Chain	Controller	
IP20	IP20 with decoration		(bulb/groupXgroup /chain)	Voltage/Current	Power	Power	technique type	
DF-GS-40C-2	DF-GS-40CP-2		20X2	12V/50MA	0.6W	24.0W	TWO circle 0.84A	
DF-GS-44C-2	DF-GS-44CP-2		22X2	11V/50MA	0.55W	24.2W	TWO circle 0.84A	
DF-GS-48C-2	DF-GS-48CP-2		24X2	9.5V/50MA	0.475W	22.8W	TWO circle 0.84A	
DF-GS-50C-2	DF-GS-50CP-2		25X2	9.5V/50MA	0.475W	23.8W	TWO circle 0.84A	
DF-GS-54C-2	DF-GS-54CP-2		27X2	9V/50MA	0.45W	24.3W	TWO circle 0.84A	
DF-GS-60C-2	DF-GS-60CP-2		30X2	8V/70MA	0.56W	33.6W	TWO circle 0.84A	
DF-GS-64C-2	DF-GS-64CP-2		32X2	7.5V/70MA	0.525W	33.6W	TWO circle 0.84A	
DF-GS-66C-2	DF-GS-66CP-2		33X2	7.5V/70MA	0.525W	34.7W	TWO circle 0.84A	
DF-GS-68C-2	DF-GS-68CP-2		34X2	7V/70MA	0.49W	33.4W	TWO circle 0.84A	
DF-GS-72C-2	DF-GS-72CP-2		36X2	6.5V/70MA	0.455W	32.8W	TWO circle 0.84A	
DF-GS-76C-2	DF-GS-76CP-2		38X2	6.5V/70MA	0.455W	34.6W	TWO circle 0.84A	
DF-GS-78C-2	DF-GS-78CP-2		39X2	6V/70MA	0.42W	32.8W	TWO circle 0.84A	
DF-GS-80C-2	DF-GS-80CP-2		40X2	6V/70MA	0.42W	33.6W	TWO circle 0.84A	
DF-GS-80C-4	DF-GS-80CP-4		20X4	12V/50MA	0.6W	48.0W	FOUR circle 0.84A	
DF-GS-84C-2	DF-GS-84CP-2		42X2	5.5V/70MA	0.385W	32.4W	TWO circle 0.84A	
DF-GS-84C-4	DF-GS-84CP-4		21X4	11V/50MA	0.55W	46.2W	FOUR circle 0.84A	
DF-GS-88C-2	DF-GS-88CP-2		44X2	5.5V/70MA	0.385W	33.9W	TWO circle 0.84A	
DF-GS-88C-4	DF-GS-88CP-4		22X4	11V/50MA	0.55W	48.4W	FOUR circle 0.84A	
DF-GS-90C-2	DF-GS-90CP-2		45X2	5V/70MA	0.35W	31.5W	TWO circle 0.84A	
DF-GS-90C-4	DF-GS-90CP-4		23X2+22X2	11V/50MA	0.55W	49.5W	FOUR circle 0.84A	
DF-GS-96C-2	DF-GS-96CP-2		48X2	5V/70MA	0.35W	33.6W	TWO circle 0.84A	
DF-GS-96C-4	DF-GS-96CP-4		24X4	9.5V/50MA	0.475W	45.6W	FOUR circle 0.84A	
DF-GS-100C-2	DF-GS-100CP-2		50X2	5V/70MA	0.35W	35.0W	TWO circle 0.84A	
DF-GS-100C-4	DF-GS-100C-4		25X4	9.5V/50MA	0.475W	47.5W	FOUR circle 0.84A	
DF-GS-114C-2	DF-GS-114CP-2		57X2	4V/70MA	0.28W	32.0W	TWO circle 0.84A	
DF-GS-114C-4	DF-GS-114CP-4		29X2+28X2	8V/70MA	0.56W	63.9W	FOUR circle 0.84A	
DF-GS-120C-2	DF-GS-120CP-2		60X2	4V/70MA	0.28W	33.6W	TWO circle 0.84A	

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DF-GS-120C-4	DF-GS-120CP-4	30X4	7.5V/70MA	0.525W	63.0W	FOUR circle 0.84A
DF-GS-124C-2	DF-GS-124CP-2	62X2	4V/70MA	0.28W	34.8W	TWO circle 0.84A
DF-GS-124C-4	DF-GS-124CP-4	31X4	7.5V/70MA	0.525W	65.1W	FOUR circle 0.84A
DF-GS-128C-2	DF-GS-128CP-2	64X2	3.5V/70MA	0.245W	31.4W	TWO circle 0.84A
DF-GS-128C-4	DF-GS-128CP-4	32X4	7.5V/70MA	0.525W	67.2W	FOUR circle 0.84A
DF-GS-132C-2	DF-GS-132CP-2	66X2	3.5V/70MA	0.245W	32.4W	TWO circle 0.84A
DF-GS-132C-4	DF-GS-132CP-4	33X4	7.5V/70MA	0.525W	69.3W	FOUR circle 0.84A
DF-GS-136C-2	DF-GS-136CP-2	68X2	3.5V/70MA	0.245W	33.4W	TWO circle 0.84A
DF-GS-136C-4	DF-GS-136CP-4	34X4	7V/70MA	0.49W	66.7W	FOUR circle 0.84A
DF-GS-140C-2	DF-GS-140CP-2	70X2	3.5V/70MA	0.245W	34.3W	TWO circle 0.84A
DF-GS-140C-4	DF-GS-140CP-4	35X4	6.5V/70MA	0.455W	63.7W	FOUR circle 0.84A
DF-GS-144C-2	DF-GS-144CP-2	72X2	3.5V/70MA	0.245W	35.3W	TWO circle 0.84A
DF-GS-144C-4	DF-GS-144CP-4	36X4	6.5V/70MA	0.455W	65.6W	FOUR circle 0.84A
DF-GS-150C-2	DF-GS-150CP-2	75X2	3V/70MA	0.21W	31.5W	TWO circle 0.84A
DF-GS-150C-4	DF-GS-150CP-4	38X2+37X2	6.5V/70MA	0.455W	68.3W	FOUR circle 0.84A
DF-GS-152C-2	DF-GS-152CP-2	76X2	3V/70MA	0.21W	32.0W	TWO circle 0.84A
DF-GS-152C-4	DF-GS-152CP-4	38X4	6V/70MA	0.42W	63.9W	FOUR circle 0.84A
DF-GS-160C-2	DF-GS-160CP-2	80X2	3V/70MA	0.21W	33.6W	TWO circle 0.84A
DF-GS-160C-4	DF-GS-160CP-4	40X4	6V/70MA	0.42W	67.2W	FOUR circle 0.84A
DF-GS-168C-2	DF-GS-168CP-2	84X2	3V/70MA	0.21W	35.3W	TWO circle 0.84A
DF-GS-168C-4	DF-GS-168CP-4	42X4	5.5V/70MA	0.385W	64.7W	FOUR circle 0.84A
DF-GS-176C-2	DF-GS-176CP-2	88X2	2.8V/70MA	0.196W	34.5W	TWO circle 0.84A
DF-GS-176C-4	DF-GS-176CP-4	44X4	5.5V/70MA	0.385W	67.8W	FOUR circle 0.84A
DF-GS-180C-2	DF-GS-180CP-2	90X2	2.5V/70MA	0.175W	31.5W	TWO circle 0.84A
DF-GS-180C-4	DF-GS-180CP-4	45X4	5V/70MA	0.35W	63.0W	FOUR circle 0.84A
DF-GS-190C-2	DF-GS-190CP-2	95X2	2.5V/70MA	0.175W	33.3W	TWO circle 0.84A
DF-GS-190C-4	DF-GS-190CP-4	48X2+47X2	5V/70MA	0.35W	66.5W	FOUR circle 0.84A
DF-GS-192C-2	DF-GS-192CP-2	96X2	2.5V/70MA	0.175W	33.6W	TWO circle 0.84A
DF-GS-192C-4	DF-GS-192CP-4	48X4	5V/70MA	0.35W	67.2W	FOUR circle 0.84A
DF-GS-200C-2	DF-GS-200CP-2	100X2	2.4V/70MA	0.168W	33.6W	TWO circle 0.84A
DF-GS-200C-4	DF-GS-200CP-4	50X4	5V/70MA	0.35W	70.0W	FOUR circle 0.84A
DF-GS-208C-2	DF-GS-208CP-2	104X2	2.4V/70MA	0.168W	35.0W	TWO circle 0.84A
DF-GS-208C-4	DF-GS-208CP-4	52X4	4.5V/70MA	0.315	65.6W	FOUR circle 0.84A
DF-GS-240C-2	DF-GS-240CP-2	120X2	2V/70MA	0.14W	33.6W	TWO circle 0.84A
DF-GS-240C-4	DF-GS-240CP-4	60X4	4V/70MA	0.28W	67.2W	FOUR circle 0.84A
DF-GS-250C-2	DF-GS-250CP-2	125X2	2V/70MA	0.14W	35.0W	TWO circle 0.84A

**LCIE CHINA**

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**TEST REPORT N°: TDF-08JA245LCSPB**

DF-GS-250C-4	DF-GS-250CP-4	63X2+62X2	4V/70MA	0.28W	70.0W	FOUR circle 0.84A
DF-GS-256C-4	DF-GS-256CP-4	64X4	3.5V/70MA	0.245W	62.8W	FOUR circle 0.84A
DF-GS-280C-4	DF-GS-280CP-4	70X4	3.5V/70MA	0.245W	68.6W	FOUR circle 0.84A
DF-GS-288C-4	DF-GS-288CP-4	72X4	3.5V/70MA	0.245W	70.6W	FOUR circle 0.84A
DF-GS-300C-4	DF-GS-300CP-4	75X4	3V/70MA	0.21W	63.0W	FOUR circle 0.84A
DF-GS-320C-4	DF-GS-320CP-4	80X4	3V/70MA	0.21W	67.2W	FOUR circle 0.84A
DF-GS-350C-4	DF-GS-350CP-4	88X2+87X2	2.8V/70MA	0.196W	68.6W	FOUR circle 0.84A
DF-GS-360C-4	DF-GS-360CP-4	90X4	2.5V/70MA	0.175W	63.0W	FOUR circle 0.84A
DF-GS-400C-4	DF-GS-400CP-4	100X4	2.4V/70MA	0.168W	67.2W	FOUR circle 0.84A
DF-GS-408C-4	DF-GS-408CP-4	102X4	2.4V/70MA	0.168W	68.6W	FOUR circle 0.84A
DF-GS-468C-4	DF-GS-468CP-4	117X4	2V/70MA	0.14W	65.6W	FOUR circle 0.84A
DF-GS-480C-4	DF-GS-480CP-4	120X4	2V/70MA	0.14W	67.2W	FOUR circle 0.84A

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**L C I E**

**TEST REPORT N°: TDF-08JA245LCSPB**

LED BULB(230V, Ordinary can not be replaced, IP20 and decoration series)								
Without Controller								
Model list				Bulb	Bulb	Lighting Chain	Controller	
IP20	IP20 sigle flash	IP20 with decoration	IP20 with decoration sigle flash	(bulb/groupXgroup /chain)	Voltage/ Current	Power	Power	
DF-LED-10S	DF-LED-10SE	DF-LED-10SP	DF-LED-10SPE	10X1	3V/20MA	0.06W	2.7W	
DF-LED-15S	DF-LED-15SE	DF-LED-15SP	DF-LED-15SPE	15X1	3V/20MA	0.06W	2.8W	1
	DF-LED-16SE	DF-LED-16SP	DF-LED-16SPE	16X1	3V/20MA	0.06W	2.9W	1
DF-LED-20S	DF-LED-20SE	DF-LED-20SP	DF-LED-20SPE	20X1	3V/20MA	0.06W	3.2W	1
DF-LED-24S	DF-LED-24SE	DF-LED-24SP	DF-LED-24SPE	24X1	3V/20MA	0.06W	3.4W	
DF-LED-25S	DF-LED-25SE	DF-LED-25SP	DF-LED-25SPE	25X1	3V/20MA	0.06W	3.5W	
DF-LED-30S	DF-LED-30SE	DF-LED-30SP	DF-LED-30SPE	30X1	3V/20MA	0.06W	3.6W	
DF-LED-35S	DF-LED-35SE	DF-LED-35SP	DF-LED-35SPE	35X1	3V/20MA	0.06W	3.6W	
DF-LED-36S	DF-LED-36SE	DF-LED-36SP	DF-LED-36SPE	36X1	3V/20MA	0.06W	3.6W	
DF-LED-40S	DF-LED-40SE	DF-LED-40SP	DF-LED-40SPE	40X1	3V/20MA	0.06W	3.6W	
DF-LED-44S	DF-LED-44SE	DF-LED-44SP	DF-LED-44SPE	44X1	3V/20MA	0.06W	3.7W	
DF-LED-45S	DF-LED-45SE	DF-LED-45SP	DF-LED-45SPE	45X1	3V/20MA	0.06W	3.8W	
DF-LED-48S	DF-LED-48SE	DF-LED-48SP	DF-LED-48SPE	48X1	3V/20MA	0.06W	3.8W	
DF-LED-50S	DF-LED-50SE	DF-LED-50SP	DF-LED-50SPE	50X1	3V/20MA	0.06W	3.8W	
DF-LED-54S	DF-LED-54SE	DF-LED-54SP	DF-LED-54SPE	54X1	3V/20MA	0.06W	3.8W	
DF-LED-60S	DF-LED-60SE	DF-LED-60SP	DF-LED-60SPE	60X1	3V/20MA	0.06W	3.8W	
DF-LED-64S	DF-LED-64SE	DF-LED-64SP	DF-LED-64SPE	64X1	3V/20MA	0.06W	3.8W	
DF-LED-66S	DF-LED-66SE	DF-LED-66SP	DF-LED-66SPE	66X1	3V/20MA	0.06W	4.5W	
DF-LED-68S	DF-LED-68SE	DF-LED-68SP	DF-LED-68SPE	68X1	3V/20MA	0.06W	4.0W	
DF-LED-69S	DF-LED-69SE	DF-LED-69SP	DF-LED-69SPE	69X1	3V/20MA	0.06W	4.0W	
DF-LED-72S	DF-LED-72SE	DF-LED-72SP	DF-LED-72SPE	72X1	3V/20MA	0.06W	3.6W	
DF-LED-76S	DF-LED-76SE	DF-LED-76SP	DF-LED-76SPE	76X1	3V/20MA	0.06W	3.6W	
DF-LED-78S	DF-LED-78SE	DF-LED-78SP	DF-LED-78SPE	78X1	3V/20MA	0.06W	4.0W	
DF-LED-80S	DF-LED-80SE	DF-LED-80SP	DF-LED-80SPE	80X1	3V/20MA	0.06W	3.6W	
DF-LED-84S	DF-LED-84SE	DF-LED-84SP	DF-LED-84SPE	84X1	3V/20MA	0.06W	3.6W	
DF-LED-88S	DF-LED-88SE	DF-LED-88SP	DF-LED-88SPE	44X2	3V/20MA	0.06W	7.5W	
DF-LED-90S	DF-LED-90SE	DF-LED-90SP	DF-LED-90SPE	45X2	3V/20MA	0.06W	7.6W	
DF-LED-96S	DF-LED-96SE	DF-LED-96SP	DF-LED-96SPE	48X2	3V/20MA	0.06W	7.6W	
DF-LED-100S	DF-LED-100SE	DF-LED-100SP	DF-LED-100SPE	50X2	3V/20MA	0.06W	8.0W	
DF-LED-114S	DF-LED-114SE	DF-LED-114SP	DF-LED-114SPE	57X2	3V/20MA	0.06W	8.0W	
DF-LED-120S	DF-LED-120SE	DF-LED-120SP	DF-LED-120SPE	60X2	3V/20MA	0.06W	8.0W	
DF-LED-124S	DF-LED-124SE	DF-LED-124SP	DF-LED-124SPE	62X2	3V/20MA	0.06W	8.0W	
DF-LED-128S	DF-LED-128SE	DF-LED-128SP	DF-LED-128SPE	64X2	3V/20MA	0.06W	8.0W	
DF-LED-132S	DF-LED-132SE	DF-LED-132SP	DF-LED-132SPE	66X2	3V/20MA	0.06W	8.0W	
DF-LED-136S	DF-LED-136SE	DF-LED-136SP	DF-LED-136SPE	68X2	3V/20MA	0.06W	8.0W	
DF-LED-137S	DF-LED-137SE	DF-LED-137SP	DF-LED-137SPE	68X1+69X1	3V/20MA	0.06W	8.0W	
DF-LED-140S	DF-LED-140SE	DF-LED-140SP	DF-LED-140SPE	70X2	3V/20MA	0.06W	8.0W	



**L C I E**

**TEST REPORT N°: TDF-08JA245LCSPB**

DF-LED-144S	DF-LED-144SE	DF-LED-144SP	DF-LED-144SPE	72X2	3V/20MA	0.06W	8.0W	
DF-LED-150S	DF-LED-150SE	DF-LED-150SP	DF-LED-150SPE	75X2	3V/20MA	0.06W	8.0W	
DF-LED-152S	DF-LED-152SE	DF-LED-152SP	DF-LED-152SPE	76X2	3V/20MA	0.06W	8.0W	
DF-LED-160S	DF-LED-160SE	DF-LED-160SP	DF-LED-160SPE	80X2	3V/20MA	0.06W	8.0W	
DF-LED-168S	DF-LED-168SE	DF-LED-168SP	DF-LED-168SPE	84X2	3V/20MA	0.06W	8.0W	
DF-LED-175S	DF-LED-175SE	DF-LED-175SP	DF-LED-175SPE	35X5	3V/20MA	0.06W	18.0W	
DF-LED-176S	DF-LED-176SE	DF-LED-176SP	DF-LED-176SPE	44X4	3V/20MA	0.06W	15.0W	
DF-LED-180S	DF-LED-180SE	DF-LED-180SP	DF-LED-180SPE	60X3	3V/20MA	0.06W	11.5W	
DF-LED-190S	DF-LED-190SE	DF-LED-190SP	DF-LED-190SPE	48X2+47X2	3V/20MA	0.06W	15.5W	
DF-LED-192S	DF-LED-192SE	DF-LED-192SP	DF-LED-192SPE	48X4	3V/20MA	0.06W	15.5W	
DF-LED-200S	DF-LED-200SE	DF-LED-200SP	DF-LED-200SPE	50X4	3V/20MA	0.06W	14.6W	
DF-LED-200S	DF-LED-200SE	DF-LED-200SP	DF-LED-200SPE	20X10	3V/20MA	0.06W	32.0W	
DF-LED-208S	DF-LED-208SE	DF-LED-208SP	DF-LED-208SPE	52X4	3V/20MA	0.06W	14.6W	
DF-LED-225S	DF-LED-225SE	DF-LED-225SP	DF-LED-225SPE	75X3	3V/20MA	0.06W	10.0W	
DF-LED-240S	DF-LED-240SE	DF-LED-240SP	DF-LED-240SPE	60X4	3V/20MA	0.06W	14.6W	
DF-LED-250S	DF-LED-250SE	DF-LED-250SP	DF-LED-250SPE	50X5	3V/20MA	0.06W	18.0W	
DF-LED-256S	DF-LED-256SE	DF-LED-256SP	DF-LED-256SPE	64X4	3V/20MA	0.06W	14.6W	
DF-LED-280S	DF-LED-280SE	DF-LED-280SP	DF-LED-280SPE	70X4	3V/20MA	0.06W	15.0W	
DF-LED-288S	DF-LED-288SE	DF-LED-288SP	DF-LED-288SPE	72X4	3V/20MA	0.06W	15.0W	
DF-LED-300S	DF-LED-300SE	DF-LED-300SP	DF-LED-300SPE	75X4	3V/20MA	0.06W	13.0W	
DF-LED-320S	DF-LED-320SE	DF-LED-320SP	DF-LED-320SPE	80X4	3V/20MA	0.06W	14.5W	
DF-LED-350S	DF-LED-350SE	DF-LED-350SP	DF-LED-350SPE	70X5	3V/20MA	0.06W	18.5W	
DF-LED-360S	DF-LED-360SE	DF-LED-360SP	DF-LED-360SPE	60X6	3V/20MA	0.06W	22.0W	
DF-LED-400S-5	DF-LED-400SE-5	DF-LED-400SP-5	DF-LED-400SPE-5	80X5	3V/20MA	0.06W	18.0W	
DF-LED-400S-20	DF-LED-400SE-20	DF-LED-400SP-20	DF-LED-400SPE-20	20X20	3V/20MA	0.06W	62.0W	
DF-LED-406S	DF-LED-406SE	DF-LED-406SP	DF-LED-406SPE	58X7	3V/20MA	0.06W	27.0W	
DF-LED-408S	DF-LED-408SE	DF-LED-408SP	DF-LED-408SPE	68X6	3V/20MA	0.06W	23.0W	
DF-LED-456S	DF-LED-456SE	DF-LED-456SP	DF-LED-456SPE	19X24	3V/20MA	0.06W	81.0W	
DF-LED-468S	DF-LED-468SE	DF-LED-468SP	DF-LED-468SPE	78X6	3V/20MA	0.06W	23.0W	
DF-LED-480S	DF-LED-480SE	DF-LED-480SP	DF-LED-480SPE	80X6	3V/20MA	0.06W	22.0W	
DF-LED-500S	DF-LED-500SE	DF-LED-500SP	DF-LED-500SPE	50X10	3V/20MA	0.06W	36.0W	
DF-LED-600S-10	DF-LED-600SE-10	DF-LED-600SP-10	DF-LED-600SPE-10	60X10	3V/20MA	0.06W	36.0W	
DF-LED-600S-20	DF-LED-600SE-20	DF-LED-600SP-20	DF-LED-600SPE-20	30X20	3V/20MA	0.06W	72.0W	
DF-LED-720S-9	DF-LED-720SE-9	DF-LED-720SP-9	DF-LED-720SPE-9	80X9	3V/20MA	0.06W	32.0W	
DF-LED-720S-30	DF-LED-720SE-30	DF-LED-720SP-30	DF-LED-720SPE-30	24X30	3V/20MA	0.06W	110.0W	
DF-LED-800S-10	DF-LED-800SE-10	DF-LED-800SP-10	DF-LED-800SPE-10	80X10	3V/20MA	0.06W	36.0W	
DF-LED-800S-20	DF-LED-800SE-20	DF-LED-800SP-20	DF-LED-800SPE-20	40X20	3V/20MA	0.06W	72.0W	
DF-LED-912S	DF-LED-912SE	DF-LED-912SP	DF-LED-912SPE	38X24	3V/20MA	0.06W	88.8W	
DF-LED-925S	DF-LED-925SE	DF-LED-925SP	DF-LED-925SPE	25x37	3V/20MA	0.06W	88.0W	
DF-LED-1520S		DF-LED-1520SP		76X20	3V/20MA	0.06W	70.0W	
DF-LED-1600S		DF-LED-1600SP		20x80	3V/20MA	0.06W	145.0W	1.



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**TEST REPORT N°: TDF-08JA245LCSPB**

With Controller								
model list			bulb	bulb	Lighting Chain	Controller		
IP20	IP20 with decoration		(bulb/group/group /chain)	Voltage/ Current	Power	Power	technique type	
DF-LED-20C		DF-LED-20CP	10X2	3V/20MA	0.06W	5.5W	TWO circle 0.84A	
DF-LED-24C		DF-LED-24CP	12X2	3V/20MA	0.06W	5.5W	TWO circle 0.84A	
DF-LED-30C		DF-LED-30CP	15X2	3V/20MA	0.06W	5.5W	TWO circle 0.84A	
DF-LED-32C		DF-LED-32CP	16X2	3V/20MA	0.06W	5.7W	TWO circle 0.84A	
DF-LED-36C		DF-LED-36CP	18X2	3V/20MA	0.06W	5.8W	TWO circle 0.84A	
DF-LED-40C-2		DF-LED-40CP-2	20X2	3V/20MA	0.06W	6.3W	TWO circle 0.84A	
DF-LED-40C-4		DF-LED-40CP-4	10X4	3V/20MA	0.06W	11.2W	FOUR circle 0.84A	
DF-LED-44C-2		DF-LED-44CP-2	22X2	3V/20MA	0.06W	6.5W	TWO circle 0.84A	
DF-LED-44C-4		DF-LED-44CP-4	11X4	3V/20MA	0.06W	11.5W	FOUR circle 0.84A	
DF-LED-48C-2		DF-LED-48CP-2	24X2	3V/20MA	0.06W	7.0W	TWO circle 0.84A	
DF-LED-48C-4		DF-LED-48CP-4	12X4	3V/20MA	0.06W	14.0W	FOUR circle 0.84A	
DF-LED-50C-2		DF-LED-50CP-2	25X2	3V/20MA	0.06W	7.2W	TWO circle 0.84A	
DF-LED-50C-4		DF-LED-50CP-4	13X2+12X2	3V/20MA	0.06W	14.5W	FOUR circle 0.84A	
DF-LED-54C-2		DF-LED-54CP-2	27X2	3V/20MA	0.06W	7.2W	TWO circle 0.84A	
DF-LED-54C-4		DF-LED-54CP-4	14X2+13X2	3V/20MA	0.06W	14.6W	FOUR circle 0.84A	
DF-LED-60C-2		DF-LED-60CP-2	30X2	3V/20MA	0.06W	7.6W	TWO circle 0.84A	
DF-LED-60C-4		DF-LED-60CP-4	15X4	3V/20MA	0.06W	14.7W	FOUR circle 0.84A	
DF-LED-64C-2		DF-LED-64CP-2	32X2	3V/20MA	0.06W	7.8W	TWO circle 0.84A	
DF-LED-64C-4		DF-LED-64CP-4	16X4	3V/20MA	0.06W	15.0W	FOUR circle 0.84A	
DF-LED-66C-2		DF-LED-66CP-2	33X2	3V/20MA	0.06W	7.5W	TWO circle 0.84A	
DF-LED-66C-4		DF-LED-66CP-4	17X2+16X2	3V/20MA	0.06W	13.5W	FOUR circle 0.84A	
DF-LED-68C-2		DF-LED-68CP-2	34X2	3V/20MA	0.06W	7.0W	TWO circle 0.84A	
DF-LED-68C-4		DF-LED-68CP-4	17X4	3V/20MA	0.06W	13.6W	FOUR circle 0.84A	
DF-LED-72C-2		DF-LED-72CP-2	36X2	3V/20MA	0.06W	7.5W	TWO circle 0.84A	
DF-LED-72C-4		DF-LED-72CP-4	18X4	3V/20MA	0.06W	14.2W	FOUR circle 0.84A	
DF-LED-76C-2		DF-LED-76CP-2	38X2	3V/20MA	0.06W	7.7W	TWO circle 0.84A	
DF-LED-76C-4		DF-LED-76CP-4	19X4	3V/20MA	0.06W	14.3W	FOUR circle 0.84A	
DF-LED-78C-2		DF-LED-78CP-2	39X2	3V/20MA	0.06W	7.8W	TWO circle 0.84A	
DF-LED-78C-4		DF-LED-78CP-4	20X2+19X2	3V/20MA	0.06W	14.6W	FOUR circle 0.84A	



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**TEST REPORT N°: TDF-08JA245LCSPB**

DF-LED-80C-2	DF-LED-80CP-2	40X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-80C-4	DF-LED-80CP-4	20X4	3V/20MA	0.06W	14.4W	FOUR circle 0.84A
DF-LED-84C-2	DF-LED-84CP-2	42X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-84C-4	DF-LED-84CP-4	21X4	3V/20MA	0.06W	14.5W	FOUR circle 0.84A
DF-LED-88C-2	DF-LED-88CP-2	44X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-88C-4	DF-LED-88CP-4	22X4	3V/20MA	0.06W	14.5W	FOUR circle 0.84A
DF-LED-90C-2	DF-LED-90CP-2	45X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-90C-4	DF-LED-90CP-4	23X2+22X2	3V/20MA	0.06W	14.6W	FOUR circle 0.84A
DF-LED-96C-2	DF-LED-96CP-2	48X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-96C-4	DF-LED-96CP-4	24X4	3V/20MA	0.06W	15.2W	FOUR circle 0.84A
DF-LED-100C-2	DF-LED-100CP-2	50X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-100C-4	DF-LED-100CP-4	25X4	3V/20MA	0.06W	15.2W	FOUR circle 0.84A
DF-LED-114C-2	DF-LED-114CP-2	57X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-114C-4	DF-LED-114CP-4	29X2+28X2	3V/20MA	0.06W	14.8W	FOUR circle 0.84A
DF-LED-120C-2	DF-LED-120CP-2	60X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-120C-4	DF-LED-120CP-4	30X4	3V/20MA	0.06W	14.8W	FOUR circle 0.84A
DF-LED-124C-2	DF-LED-124CP-2	62X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-124C-4	DF-LED-124CP-4	31X4	3V/20MA	0.06W	14.6W	FOUR circle 0.84A
DF-LED-128C-2	DF-LED-128CP-2	64X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-128C-4	DF-LED-128CP-4	32X4	3V/20MA	0.06W	14.5W	FOUR circle 0.84A
DF-LED-132C-2	DF-LED-132CP-2	66X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-132C-4	DF-LED-132CP-4	33X4	3V/20MA	0.06W	14.5W	FOUR circle 0.84A
DF-LED-136C-2	DF-LED-136CP-2	68X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-136C-4	DF-LED-136CP-4	34X4	3V/20MA	0.06W	14.6W	FOUR circle 0.84A
DF-LED-140C-2	DF-LED-140CP-2	70X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-140C-4	DF-LED-140CP-4	35X4	3V/20MA	0.06W	14.8W	FOUR circle 0.84A
DF-LED-144C-2	DF-LED-144CP-2	72X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-144C-4	DF-LED-144CP-4	36X4	3V/20MA	0.06W	14.9W	FOUR circle 0.84A
DF-LED-150C-2	DF-LED-150CP-2	75X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-150C-4	DF-LED-150CP-4	38X2+37X2	3V/20MA	0.06W	15.0W	FOUR circle 0.84A
DF-LED-152C-2	DF-LED-152CP-2	76X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-152C-4	DF-LED-152CP-4	38X4	3V/20MA	0.06W	15.2W	FOUR circle 0.84A
DF-LED-160C-2	DF-LED-160CP-2	80X2	3V/20MA	0.06W	8.0W	TWO circle 0.84A
DF-LED-160C-4	DF-LED-160CP-4	40X4	3V/20MA	0.06W	16.0W	FOUR circle 0.84A
DF-LED-168C	DF-LED-168CP	42X4	3V/20MA	0.06W	16.2W	Two/Four circle 0.84A
DF-LED-176C	DF-LED-176CP	44X4	3V/20MA	0.06W	16.2W	Two/Four circle 0.84A

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DF-LED-180C		DF-LED-180CP		45X4	3V/20MA	0.06W	16.0W	Two/Four circle 0.84A
DF-LED-190C		DF-LED-190CP		48X2+47X2	3V/20MA	0.06W	15.8W	Two/Four circle 0.84A
DF-LED-192C		DF-LED-192CP		48X4	3V/20MA	0.06W	16.0W	Two/Four circle 0.84A
DF-LED-200C-4		DF-LED-200CP-4		50X4	3V/20MA	0.06W	15.2W	Two/Four circle 0.84A
DF-LED-200C-10		DF-LED-200CP-10		20X10	3V/20MA	0.06W	31.0W	Two/Four circle 0.84A
DF-LED-208C		DF-LED-208CP		52X4	3V/20MA	0.06W	14.3W	Two/Four circle 0.84A
DF-LED-240C		DF-LED-240CP		60X4	3V/20MA	0.06W	14.6W	Two/Four circle 0.84A
DF-LED-250C		DF-LED-250CP		63X2+62X2	3V/20MA	0.06W	14.6W	Two/Four circle 0.84A
DF-LED-256C		DF-LED-256CP		64X4	3V/20MA	0.06W	15.3W	Two/Four circle 0.84A
DF-LED-280C		DF-LED-280CP		70X4	3V/20MA	0.06W	15.2W	Two/Four circle 0.84A
DF-LED-288C		DF-LED-288CP		72X4	3V/20MA	0.06W	15.3W	Two/Four circle 0.84A
DF-LED-300C		DF-LED-300CP		75X4	3V/20MA	0.06W	13.4W	Two/Four circle 0.84A
DF-LED-320C		DF-LED-320CP		80X4	3V/20MA	0.06W	15.0W	Two/Four circle 0.84A
DF-LED-360C		DF-LED-360CP		45X8	3V/20MA	0.06W	30.0W	Two/Four circle 0.84A
DF-LED-400C-8		DF-LED-400CP-8		50X8	3V/20MA	0.06W	36.0W	Two/Four circle 0.84A
DF-LED-400C-20		DF-LED-400CP-20		20X20	3V/20MA	0.06W	60.0W	Two/Four circle 0.84A
DF-LED-406C		DF-LED-406CP		29X14	3V/20MA	0.06W	51.0W	Two/Four circle 0.84A
DF-LED-408C		DF-LED-408CP		51X8	3V/20MA	0.06W	30.0W	Two/Four circle 0.84A
DF-LED-456C		DF-LED-456CP		57X8	3V/20MA	0.06W	30.5W	Two/Four circle 0.84A
DF-LED-468C		DF-LED-468CP		59X4+58X4	3V/20MA	0.06W	30.0W	Two/Four circle 0.84A
DF-LED-480C		DF-LED-480CP		60X8	3V/20MA	0.06W	30.5W	Two/Four circle 0.84A
DF-LED-500C		DF-LED-500CP		63X4+62X4	3V/20MA	0.06W	30.2W	Two/Four circle 0.84A
DF-LED-600C-8		DF-LED-600CP-8		75X8	3V/20MA	0.06W	30.0W	Two/Four circle 0.84A
DF-LED-600C-20		DF-LED-600CP-20		30X20	3V/20MA	0.06W	72.0W	Two/Four circle 0.84A
DF-LED-720C-12		DF-LED-720CP-12		60X12	3V/20MA	0.06W	43.5W	Two/Four circle 0.84A
DF-LED-720C-20		DF-LED-720CP-20		36X20	3V/20MA	0.06W	70.0W	Two/Four circle 0.84A
DF-LED-800C-16		DF-LED-800CP-16		50X16	3V/20MA	0.06W	58.0W	Two/Four circle 0.84A
DF-LED-800C-20		DF-LED-800CP-20		40X20	3V/20MA	0.06W	74.0W	Two/Four circle 0.84A
DF-LED-912C		DF-LED-912CP		38X24	3V/20MA	0.06W	88.0W	Two/Four circle 0.84A
DF-LED-1520C		DF-LED-1520CP		76X20	3V/20MA	0.06W	72.0W	Four circle 0.84A
DF-LED-1600C		DF-LED-1600CP		40X40	3V/20MA	0.06W	146.0W	Four circle 0.84A

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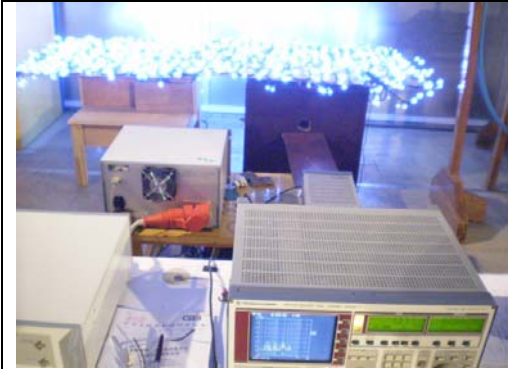
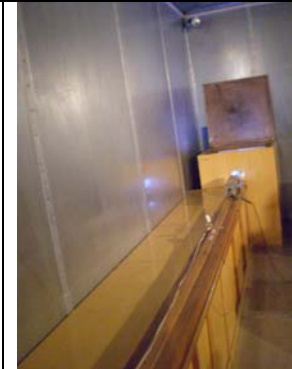




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#### 4 Pictures for the test setup

			
<p>Disturbance Voltage Test</p>		<p>Disturbance Power Test</p>	
			
<p>Clicks</p>		<p>Harmonic</p>	
			
<p>Electrostatic Discharge</p>		<p>Electrical Fast Transit</p>	



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**TEST REPORT N°: TDF-08JA245LCSPB**

<p>Injected Current</p>	<p>Voltage Dips</p>
	<p>None</p>
<p>Surge</p>	<p>None</p>



TEST REPORT N°: TDF-08JA245LCSPB

## 5 Electrical Components For the controllers

### 5.1 List of critical EMC components for the controller YX-4S-G

Object/Part No.	Manufacturer / Trademark	Type / Model	Technical data	Mark(s) of conformity
Capacitor X2	-	CBB 62	470nk AC275V	-
Inductor x 2	-	-	1.5mH & 25mH	-
Capacitor x 2	-	-	104	-
Capacitor	-	-	16V 47 $\mu$ F	-
IC	-	QDSMS	-	-
Triac x 4	-	PCR 406J	-	-
Varistor	-	10D471K	-	-



TEST REPORT N°: TDF-08JA245LCSPB

**5.2 List of critical EMC components for the single flashing controller (DF-05A-ET/DF-05A-EC)**

Object/Part No.	Manufacturer / Trademark	Type / Model	Technical data	Mark(s) of conformity
Capacitor X2	-	CBB 62	100nk AC275V	-
Inductor	-	-	1.5mH	-
Capacitor	-	-	25V 22 $\mu$ F	-
IC	-	CW03	-	-
Triac	-	PCR 406J	-	-
Varistor	-	7D471K	-	-



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**TEST REPORT N°: TDF-08JA245LCSPB**

**6 Pictures for the electrical components**

**6.1 For the controller YX-4S-G**






		<p>None</p>



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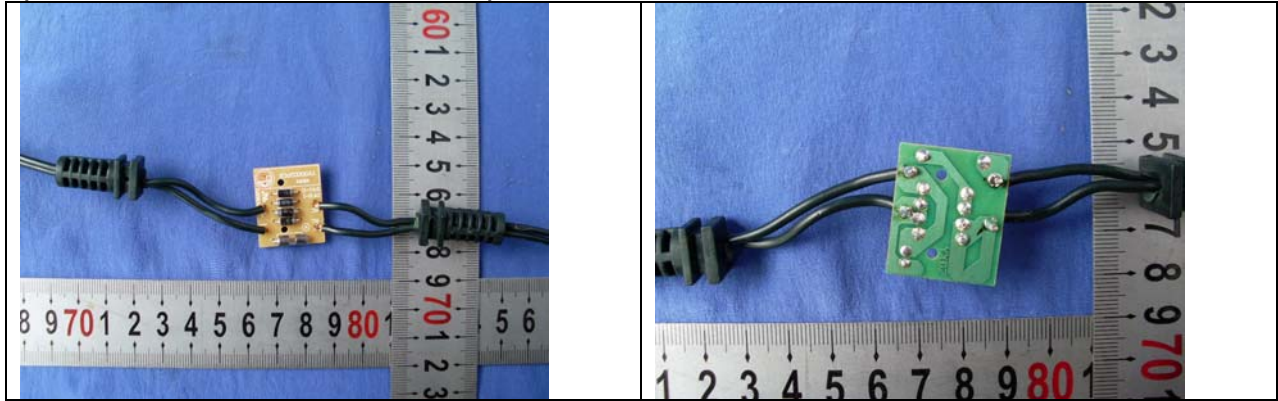
TEST REPORT N°: TDF-08JA245LCSPB

6.2 For the single flashing controller  
(DF-05A-ET/DF-05A-EC)

		
		
		None

**TEST REPORT N°: TDF-08JA245LCSPB**

**6.3 For the AC/DC convertor controller  
(DF-0.7A-ZT, DF-0.7A-ZZ, DF-0.7A-ZC)**



**7 OPERATING CONDITIONS**

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

Climatic conditions :	Temperature	:	20	°C
	Relative humidity	:	45-56	%
	Atmospheric pressure	:	101.5	kPa

**8 PERFORMANCE CRITERIA**

- 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.



TEST REPORT N°: TDF-08JA245LCSPB

## 9 TEST RESULTS

### 9.1 EMISSION STANDARD EN 55014-1:2006

Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Rem
4.1 4.1.1	<b><u>Disturbance Voltage Limit</u></b> 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> for DF-LED-1600S Diagram No. <2> for DF-LED-1600C Diagram No. <3> for DF-GS-136C-4 Diagram No. <4> for DF-LED-925SE	[X]	[ ]	[ ]	[ ]
4.1.2	<b><u>Disturbance Power Limit</u></b> Frequency range : 30 to 300 MHz	<input checked="" type="checkbox"/> Not for Toy <input type="checkbox"/> Toys of Category: E Port(s) : • AC mains port • Diagram No. <5> for DF-LED-1600C Diagram No. <6> for DF-LED-925SE	[X]	[ ]	[ ]	[ ]
4.1.3	<b><u>Radiated disturbance limits</u></b> 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	<b><u>Discontinuous Disturbance Limit</u></b> 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. < >	[X]	[ ]	[ ]	[*]

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

**Remark(s) :**

\* : No clicks were observed.



TEST REPORT N°: TDF-08JA245LCSPB

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

Apparatus category : II

Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Rem
5.1	<b>Electrostatic discharges</b>  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 :				
		• controller	[X]	[ ]	[ ]	[*]
		• bulb & power cord	[X]	[ ]	[ ]	[*]
		• gap	[X]	[ ]	[ ]	[*]
		• switch	[X]	[ ]	[ ]	[*]
5.2	<b>Fast transients/bursts</b>  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	<b>Injected current 0.15 to 230 MHz</b>  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

**Remark(s) :**

\* : During and after the test, there are no loss of function and no change of operating state.



TEST REPORT N°: TDF-08JA245LCSPB

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

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

**Remark(s) :**

\* : During and after the test, there are no loss of function and no change of operating state.



**TEST REPORT N°: TDF-08JA245LCSPB**

Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Rem
5.7	<b><u>Voltage dips and voltage interruptions</u></b>  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

**Remark(s) :**

\* : During and after the test, there are no loss of function and no change of operating state.



TEST REPORT N°: TDF-08JA245LCSPB

9.3 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 : C Table 1 of this standard applied on the model DF-LED-1600C, DF-GS-136C-4 Table 2 of this standard applied on the model DF-LED-1600S, DF-LED-925SE, DF-GS-250SE Table(s) No. <1> for DF-LED-1600S Table(s) No. <2> for DF-LED-1600C Table(s) No. <3> for DF-GS-136C-4 Table(s) No. <4> for DF-LED-925SE Table(s) No. <5> for DF-GS-250SE	[X]	[ ]	[ ]	[ ]

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

9.4 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]	[ ]	[ ]	[*]

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

Remark(s) :

\* : 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.

10 CONCLUSION

The apparatuses *Lighting Chain* and models (See Page. 3-13 for detail) are in compliance with the requirements of the standards EN 55014-1:2006, EN 55014-2:1997+A1:2001, EN 61000-3-2:2006 and EN 61000-3-3:1995+A1:2001+A2:2005.

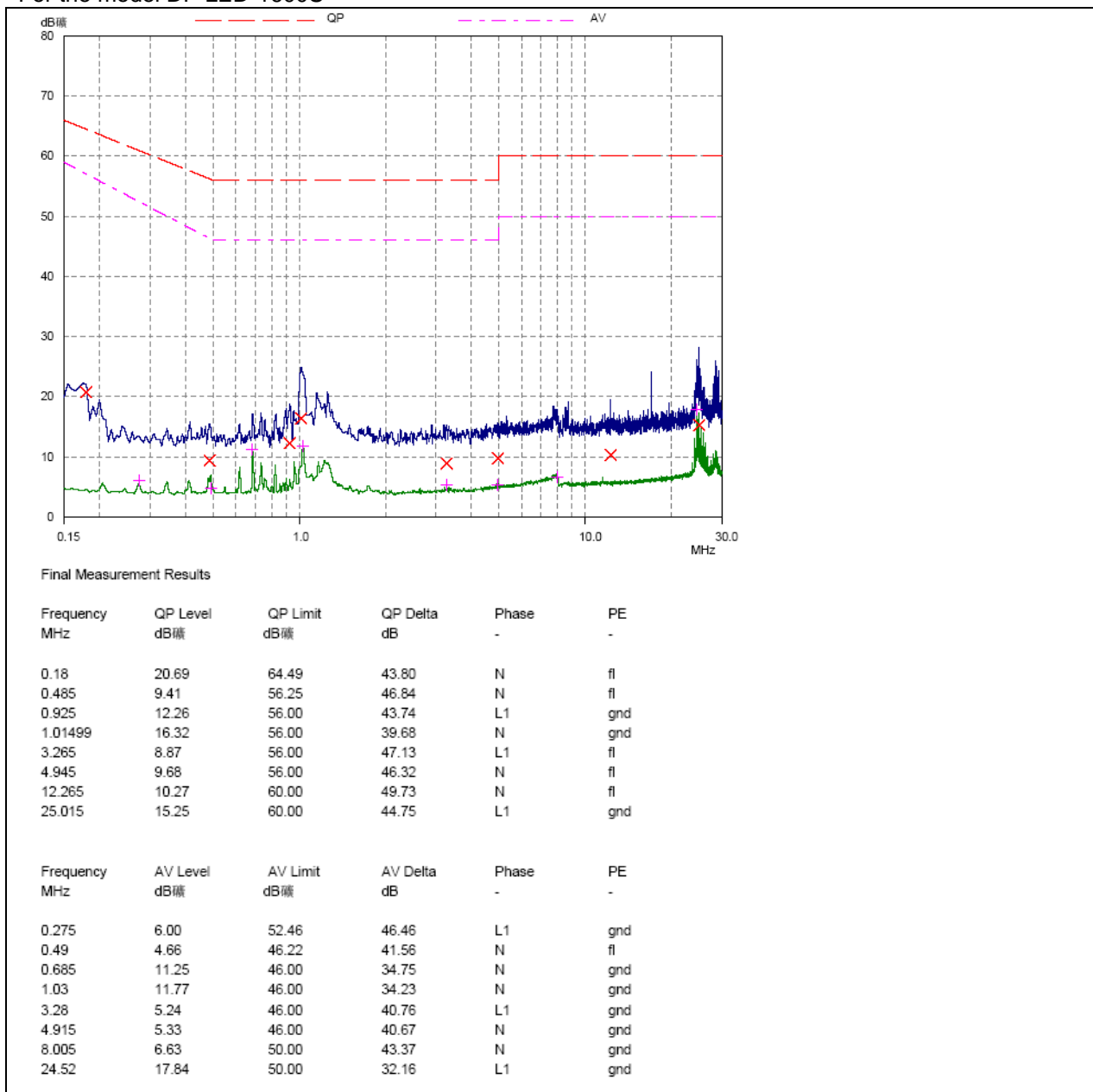




TEST REPORT N°: TDF-08JA245LCSPB

Diagram No. 1

For the model DF-LED-1600S

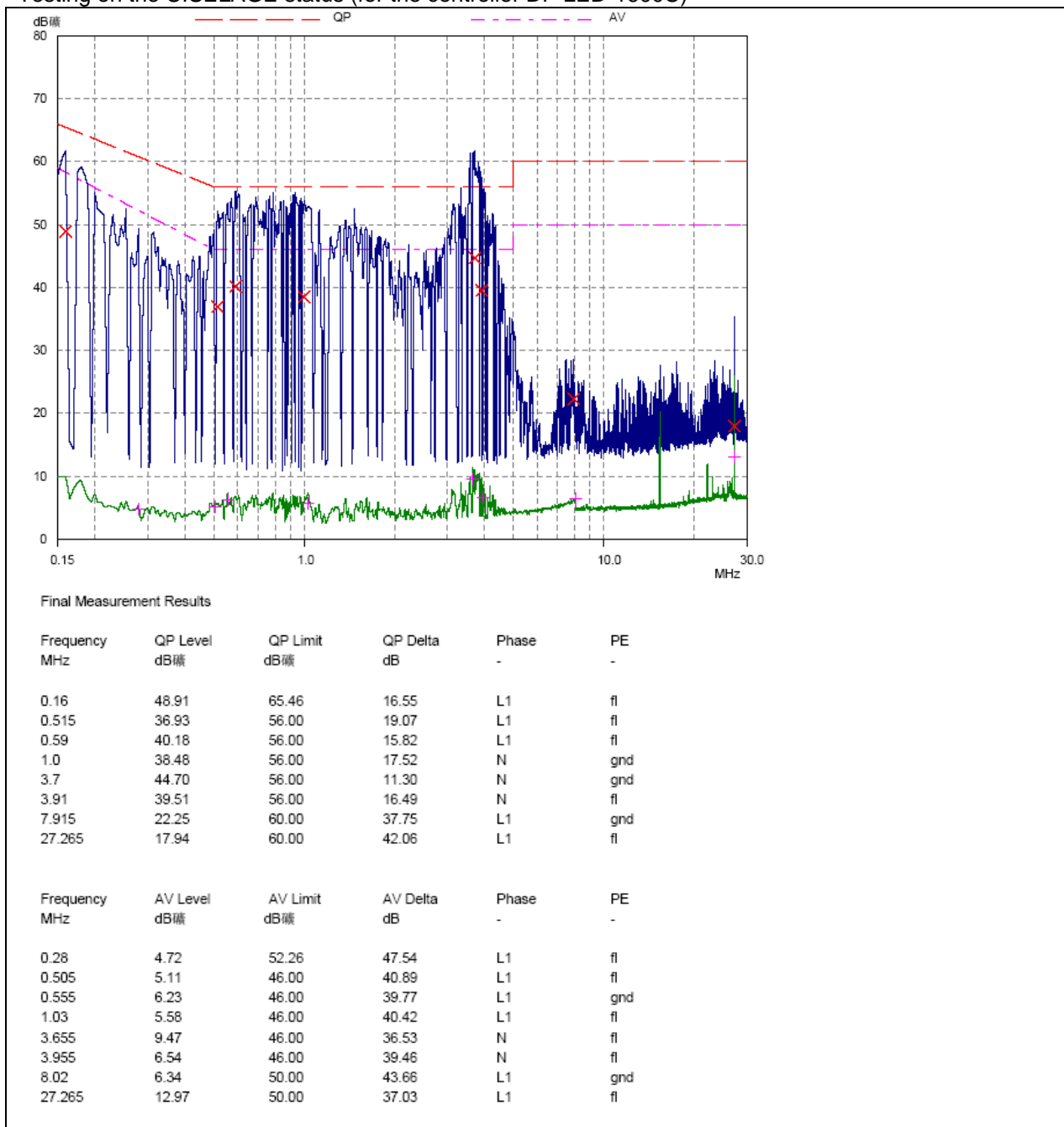




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Diagram No. 2

Testing on the CISELAGE status (for the controller DF-LED-1600C)

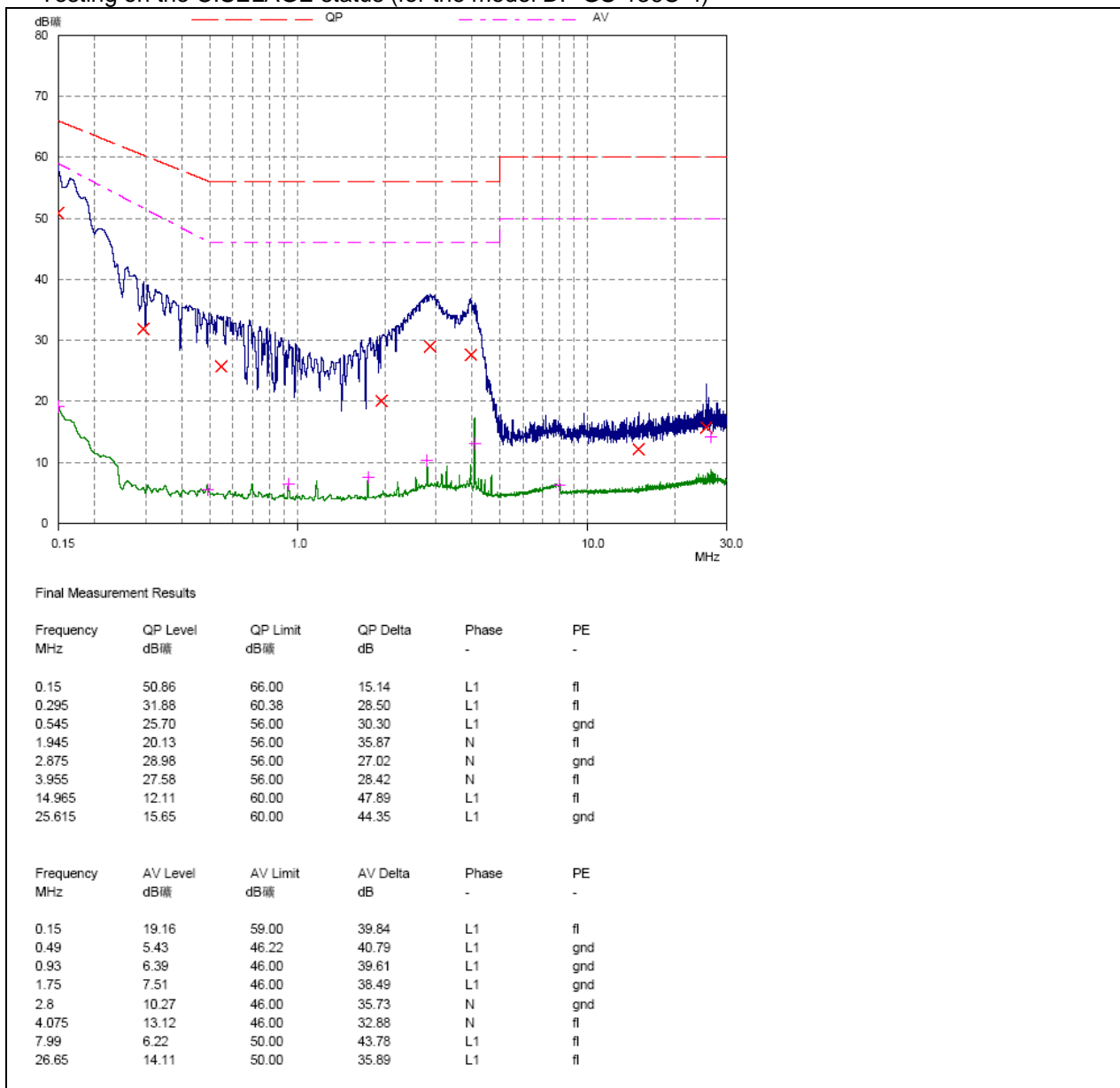




TEST REPORT N°: TDF-08JA245LCSPB

Diagram No. 3

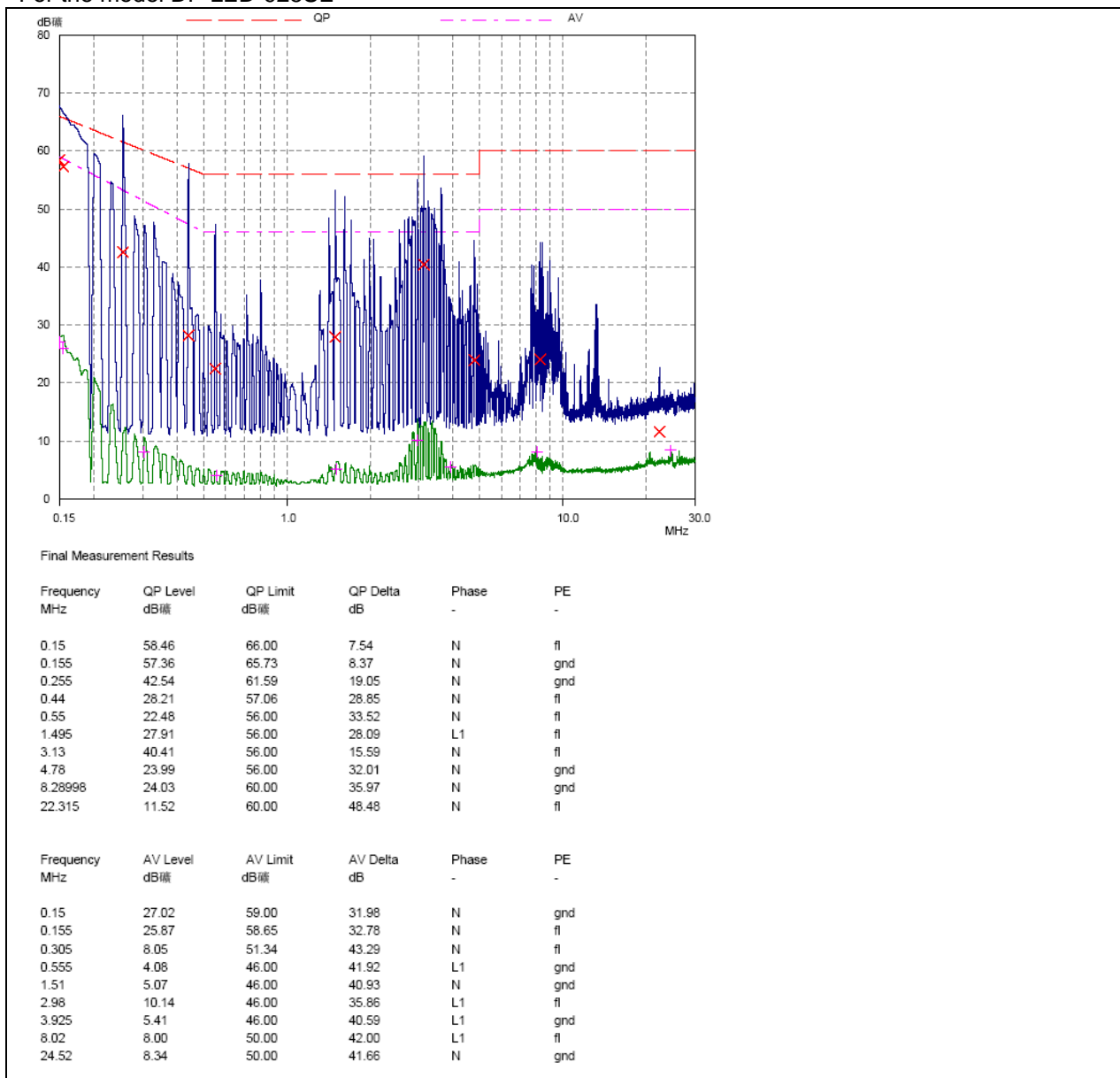
Testing on the CISELAGE status (for the model DF-GS-136C-4)





TEST REPORT N°: TDF-08JA245LCSPB

Diagram No. 4  
For the model DF-LED-925SE

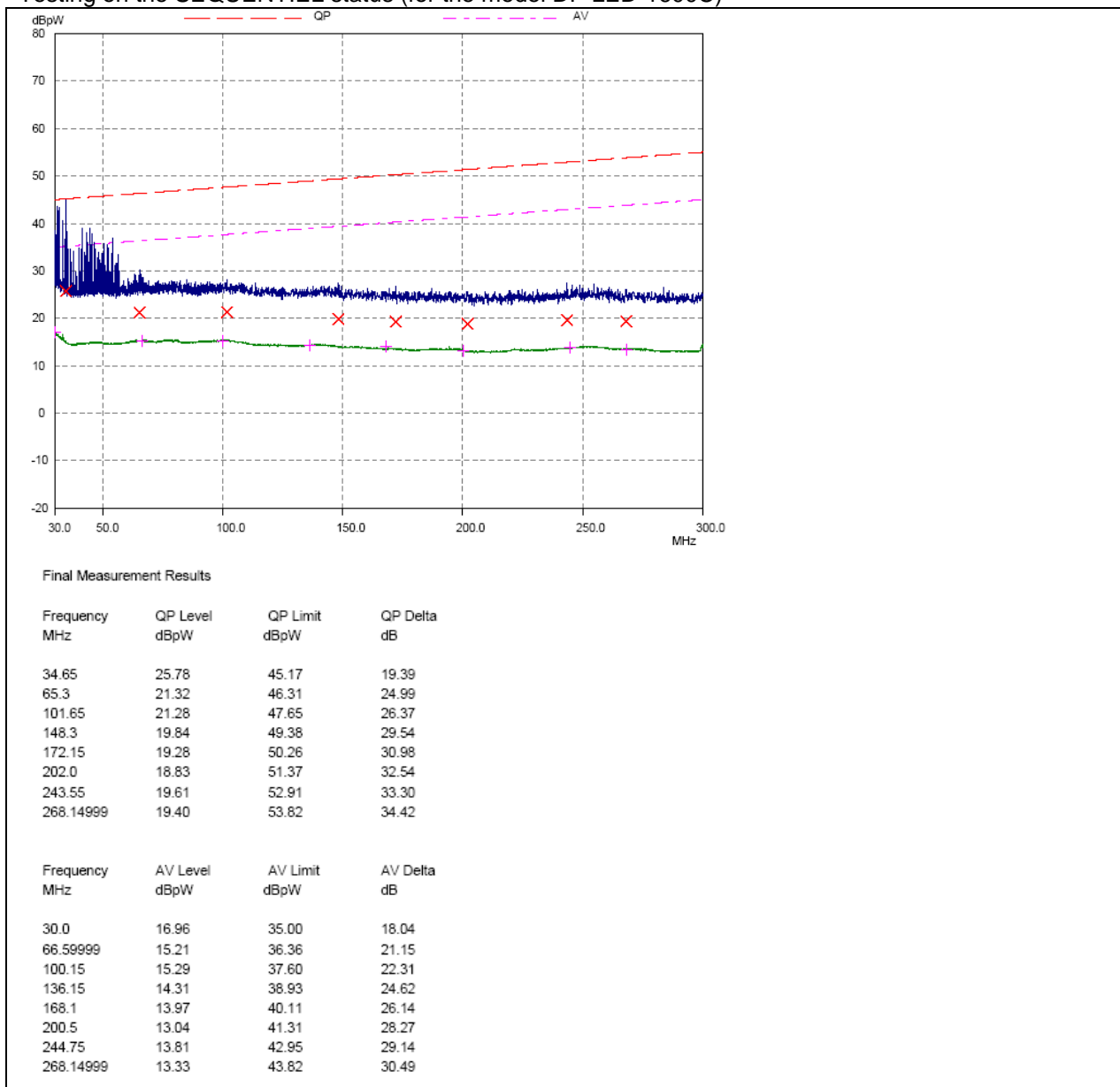




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Diagram No. 5

Testing on the SEQUENTIEL status (for the model DF-LED-1600C)

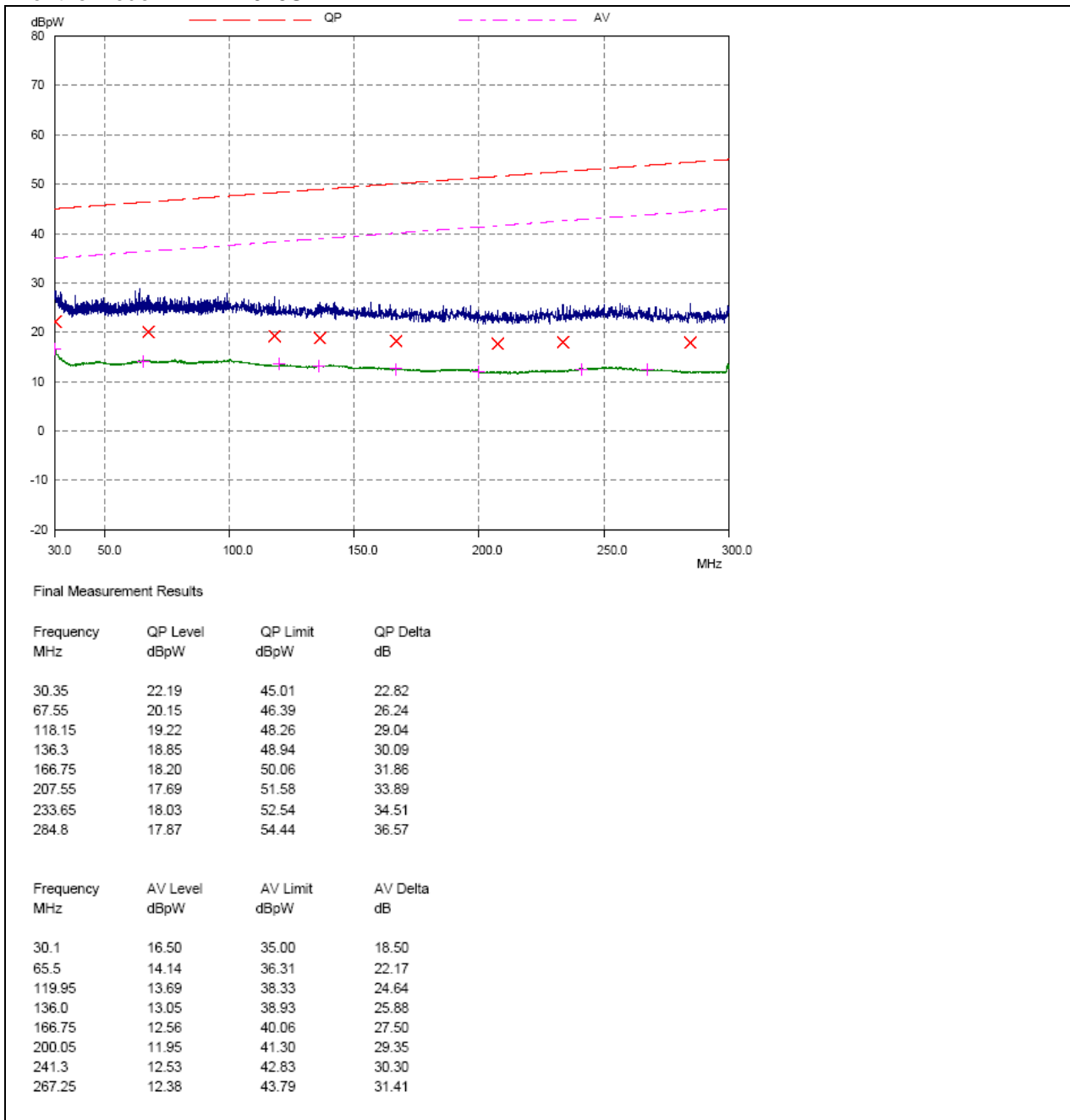




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Diagram No. 6

For the model DF-LED-925SE





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**Table No. 1**

For the model DF-LED-1600S

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.002	0.014	11.9	0.002	0.022	9.78	Pass
3	0.064	0.214	29.9	0.066	0.321	20.62	Pass
4	0.001						
5	0.034	0.072	47.1	0.035	0.107	32.14	Pass
6	0.000						
7	0.021	0.050	41.3	0.021	0.075	28.30	Pass
8	0.000						
9	0.013	0.036	37.1	0.014	0.054	25.34	Pass
10	0.000						
11	0.008	0.022	39.0	0.009	0.032	27.28	Pass
12	0.000						
13	0.005	0.022	23.3	0.005	0.032	16.12	Pass
14	0.000						
15	0.003	0.022	12.5	0.003	0.032	8.95	Pass
16	0.000						
17	0.001	0.022	5.4	0.001	0.032	4.06	Pass
18	0.000						
19	0.000	0.022	0.6	0.000	0.032	0.49	Pass
20	0.000						
21	0.001	0.022	3.2	0.001	0.032	2.51	Pass
22	0.000						
23	0.001	0.022	4.9	0.001	0.032	3.65	Pass
24	0.000						
25	0.001	0.022	5.4	0.001	0.032	3.83	Pass
26	0.000						
27	0.001	0.022	5.5	0.001	0.032	3.97	Pass
28	0.000						
29	0.001	0.022	4.9	0.001	0.032	3.55	Pass
30	0.000						
31	0.001	0.022	3.9	0.001	0.032	2.80	Pass
32	0.000						
33	0.001	0.022	2.7	0.001	0.032	1.96	Pass
34	0.000						
35	0.000	0.022	1.7	0.000	0.032	1.29	Pass
36	0.000						
37	0.000	0.022	0.8	0.000	0.032	0.68	Pass
38	0.000						
39	0.000	0.022	0.3	0.000	0.032	0.35	Pass
40	0.000						



**LCIE**

**TEST REPORT N°: TDF-08JA245LCSPB**

**TABLE No. 2**

For the model DF-LED-1600C

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.003	1.080	0.3	0.007	1.620	0.43	Pass
3	0.048	2.300	2.1	0.072	3.450	2.10	Pass
4	0.001	0.430	0.2	0.001	0.645	0.19	Pass
5	0.018	1.140	1.6	0.028	1.710	1.65	Pass
6	0.000	0.300	0.1	0.000	0.450	0.08	Pass
7	0.006	0.770	0.8	0.009	1.155	0.81	Pass
8	0.000	0.230	0.1	0.000	0.345	0.14	Pass
9	0.000	0.400	0.1	0.001	0.600	0.12	Pass
10	0.000	0.184	0.2	0.000	0.276	0.15	Pass
11	0.002	0.330	0.7	0.003	0.495	0.68	Pass
12	0.000	0.153	0.1	0.000	0.230	0.07	Pass
13	0.003	0.210	1.2	0.004	0.315	1.21	Pass
14	0.000	0.131	0.1	0.000	0.197	0.12	Pass
15	0.002	0.150	1.1	0.002	0.225	1.06	Pass
16	0.000	0.115	0.1	0.000	0.173	0.15	Pass
17	0.001	0.132	0.5	0.001	0.199	0.47	Pass
18	0.000	0.102	0.1	0.000	0.153	0.13	Pass
19	0.000	0.118	0.2	0.000	0.178	0.16	Pass
20	0.000	0.092	0.1	0.000	0.138	0.18	Pass
21	0.001	0.107	0.7	0.001	0.161	0.66	Pass
22	0.000	0.084	0.1	0.000	0.125	0.14	Pass
23	0.001	0.098	0.7	0.001	0.147	0.72	Pass
24	0.000	0.077	0.2	0.000	0.115	0.35	Pass
25	0.000	0.090	0.5	0.001	0.135	0.52	Pass
26	0.000	0.071	0.3	0.000	0.106	0.47	Pass
27	0.000	0.083	0.3	0.000	0.125	0.31	Pass
28	0.000	0.066	0.3	0.000	0.099	0.47	Pass
29	0.000	0.078	0.2	0.000	0.116	0.19	Pass
30	0.000	0.061	0.3	0.000	0.092	0.41	Pass
31	0.000	0.073	0.5	0.001	0.109	0.47	Pass
32	0.000	0.058	0.2	0.000	0.086	0.21	Pass
33	0.000	0.068	0.5	0.001	0.102	0.51	Pass
34	0.000	0.054	0.3	0.000	0.081	0.35	Pass
35	0.000	0.064	0.5	0.001	0.096	0.82	Pass
36	0.000	0.051	0.2	0.000	0.077	0.28	Pass
37	0.000	0.061	0.5	0.000	0.091	0.51	Pass
38	0.000	0.048	0.3	0.000	0.073	0.31	Pass
39	0.000	0.058	0.5	0.000	0.087	0.57	Pass
40	0.000	0.046	0.5	0.000	0.069	0.58	Pass



**LCIE**

**TEST REPORT N°: TDF-08JA245LCSPB**

**TABLE No.3**

For the model DF-GS-136C-4

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.003	1.080	0.2	0.005	1.620	0.30	Pass
3	0.003	2.300	0.1	0.004	3.450	0.11	Pass
4	0.001	0.430	0.3	0.002	0.645	0.25	Pass
5	0.001	1.140	0.1	0.001	1.710	0.05	Pass
6	0.000	0.300	0.1	0.000	0.450	0.10	Pass
7	0.000	0.770	0.1	0.001	1.155	0.06	Pass
8	0.000	0.230	0.1	0.000	0.345	0.12	Pass
9	0.000	0.400	0.1	0.001	0.600	0.09	Pass
10	0.000	0.184	0.2	0.000	0.276	0.15	Pass
11	0.000	0.330	0.1	0.001	0.495	0.10	Pass
12	0.000	0.153	0.1	0.000	0.230	0.07	Pass
13	0.000	0.210	0.1	0.000	0.315	0.11	Pass
14	0.000	0.131	0.1	0.000	0.197	0.15	Pass
15	0.000	0.150	0.2	0.000	0.225	0.22	Pass
16	0.000	0.115	0.1	0.000	0.173	0.17	Pass
17	0.000	0.132	0.2	0.000	0.199	0.17	Pass
18	0.000	0.102	0.1	0.000	0.153	0.13	Pass
19	0.000	0.118	0.1	0.000	0.178	0.13	Pass
20	0.000	0.092	0.2	0.000	0.138	0.18	Pass
21	0.000	0.107	0.2	0.000	0.161	0.22	Pass
22	0.000	0.084	0.1	0.000	0.125	0.15	Pass
23	0.000	0.098	0.2	0.000	0.147	0.14	Pass
24	0.000	0.077	0.3	0.000	0.115	0.39	Pass
25	0.000	0.090	0.1	0.000	0.135	0.14	Pass
26	0.000	0.071	0.3	0.001	0.106	0.50	Pass
27	0.000	0.083	0.2	0.000	0.125	0.22	Pass
28	0.000	0.066	0.4	0.001	0.099	0.55	Pass
29	0.000	0.078	0.2	0.000	0.116	0.20	Pass
30	0.000	0.061	0.3	0.000	0.092	0.46	Pass
31	0.000	0.073	0.2	0.000	0.109	0.17	Pass
32	0.000	0.058	0.2	0.000	0.086	0.20	Pass
33	0.000	0.068	0.2	0.000	0.102	0.17	Pass
34	0.000	0.054	0.2	0.000	0.081	0.34	Pass
35	0.000	0.064	0.7	0.001	0.096	0.59	Pass
36	0.000	0.051	0.2	0.000	0.077	0.28	Pass
37	0.000	0.061	0.3	0.000	0.091	0.34	Pass
38	0.000	0.048	0.3	0.000	0.073	0.33	Pass
39	0.000	0.058	0.2	0.000	0.087	0.18	Pass
40	0.000	0.046	0.5	0.000	0.069	0.63	Pass



**LCIE**

**TEST REPORT N°: TDF-08JA245LCSPB**

**TABLE No.4**

For the model DF-LED-925SE

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.004	0.007	57.9	0.007	0.011	62.32	Pass
3	0.022	0.107	20.9	0.027	0.160	16.62	Pass
4	0.002						
5	0.011	0.036	30.6	0.013	0.054	23.87	Pass
6	0.001						
7	0.006	0.025	24.7	0.007	0.038	19.64	Pass
8	0.001						
9	0.003	0.018	19.4	0.004	0.027	15.32	Pass
10	0.001						
11	0.002	0.011	16.3	0.002	0.016	13.61	Pass
12	0.000						
13	0.001	0.011	6.6	0.001	0.016	6.15	Pass
14	0.000						
15	0.000	0.011	2.9	0.000	0.016	2.69	Pass
16	0.000						
17	0.001	0.011	4.9	0.001	0.016	4.42	Pass
18	0.000						
19	0.001	0.011	6.0	0.001	0.016	5.25	Pass
20	0.000						
21	0.001	0.011	5.9	0.001	0.016	5.11	Pass
22	0.000						
23	0.001	0.011	5.2	0.001	0.016	4.49	Pass
24	0.000						
25	0.000	0.011	3.7	0.001	0.016	3.25	Pass
26	0.000						
27	0.000	0.011	2.5	0.000	0.016	2.17	Pass
28	0.000						
29	0.000	0.011	1.6	0.000	0.016	1.57	Pass
30	0.000						
31	0.000	0.011	1.5	0.000	0.016	1.51	Pass
32	0.000						
33	0.000	0.011	1.9	0.000	0.016	1.83	Pass
34	0.000						
35	0.000	0.011	2.2	0.000	0.016	2.14	Pass
36	0.000						
37	0.000	0.011	2.3	0.000	0.016	2.27	Pass
38	0.000						
39	0.000	0.011	2.0	0.000	0.016	2.05	Pass
40	0.000						



**LCIE**

**TEST REPORT N°: TDF-08JA245LCSPB**

**TABLE No.5**

For the model DF-GS-250SE

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.006	0.007	75.7	0.008	0.011	69.49	Pass
3	0.004	0.110	3.6	0.005	0.164	3.34	Pass
4	0.003						
5	0.001	0.037	3.9	0.002	0.055	3.84	Pass
6	0.002						
7	0.001	0.026	4.1	0.002	0.039	4.26	Pass
8	0.001						
9	0.001	0.018	4.3	0.001	0.028	4.26	Pass
10	0.001						
11	0.001	0.011	6.7	0.001	0.016	6.41	Pass
12	0.001						
13	0.001	0.011	5.1	0.001	0.017	5.15	Pass
14	0.001						
15	0.001	0.011	4.6	0.001	0.016	4.69	Pass
16	0.001						
17	0.000	0.011	4.2	0.001	0.017	3.97	Pass
18	0.000						
19	0.000	0.011	3.5	0.001	0.016	3.66	Pass
20	0.000						
21	0.000	0.011	3.4	0.001	0.017	3.40	Pass
22	0.000						
23	0.000	0.011	3.1	0.001	0.017	3.04	Pass
24	0.000						
25	0.000	0.011	3.0	0.000	0.017	2.93	Pass
26	0.000						
27	0.000	0.011	2.7	0.000	0.017	2.65	Pass
28	0.000						
29	0.000	0.011	2.6	0.000	0.017	2.60	Pass
30	0.000						
31	0.000	0.011	2.6	0.000	0.017	2.64	Pass
32	0.001						
33	0.000	0.011	2.8	0.000	0.017	3.01	Pass
34	0.000						
35	0.000	0.011	2.8	0.000	0.017	2.90	Pass
36	0.000						
37	0.000	0.011	2.7	0.001	0.017	3.14	Pass
38	0.001						
39	0.000	0.011	2.5	0.000	0.017	2.63	Pass
40	0.000						

