







ISO/IEC17025 Accredited Lab.

Report No: FCC 0908143 File reference No: 2009-09-10

Applicant: Shenzhen Qiyue Optronics Company Limited

Product: 17" LCD monitor

Brand Name: N/A

Model No: QLM17xxxxxx

Test Standards: FCC Part 15 Subpart B: 2008

Test result:

It is herewith confirmed and found to comply with the requirements

set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of

electromagnetic compatibility

Approved By

Temp Torg

Terry Tang

Manager

Dated: September 10, 2009

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996

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Date: 2009-09-10



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

IC- Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

VCCI- Registration No.: R-3015 and C-3332

The EMC Laboratory has been registered and fully described in a report filed with the (VCCI) Voluntary Control Council for Interference. The acceptance letter from the VCCI is maintained in our files. Registration IC No.: R-3015 and C-3332

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

Address: East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. CheGongMiao, FuTian District,

Shenzhen, CHINA.

Telephone: (755) 83448688 Fax: (755) 83442996

1.2 Applicant Details

Applicant: Shenzhen Qiyue Optronics Company Limited

Address: Room 501, Zhongxin Technology Building, Bagua Road, Futian District, Shenzhen, China

Telephone: +86-755-25887900 Fax: +86-755-25884583

1.3 Description of EUT

Product: 17" LCD monitor

Manufacturer: Shenzhen Qiyue Optronics Company Limited

Address: BLOCK D, SEIYU INDUSTRIAL PARK, DA SAN VILLAGE, DA SHUI KENG,

GUANLAN TOWN, BAO AN DISTRICT, SHENZHEN, P.R.C

Brand Name: N/A

Model Number: QLM17xxxxx Additional Model Number: N/A

Rating: $100-240V \sim 50-60Hz$, 1A, 30W

Remark: --

1.4 Submitted Sample(s): 1 Samples

1.5 Test Duration: 2009-08-21 to 2009-09-10

1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB Radiated Emissions Uncertainty = 4.7dB

1.7 Test Engineer

The sample tested by

Print Name: Henry Ding

The report refers only to the sample tested and does not apply to the bulk.

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2.0 List of Measurement Equipment

2.1 Conducted Emission Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2009.2.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
LISN	NTFM8132	8132137	SCHWARZBECK	2009.2.24	1Year
LISN	NTFM8134	8134109	SCHWARZBECK	2009.2.24	1Year
LISN	NTFM8136	8136102	SCHWARZBECK	2009.2.24	1Year

2.2 Radiated electromagnetic disturbance test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2009.2.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer(with					
Tracking Generator)	MS2661C	MT72089	ANRITSU	2009.2.23	1Year
Amplifier	MH648A	M20494	ANRITSU	2009.2.24	1Year
Bilog Antenna	CBL6101C	2576	CHASE	2009.2.23	1Year

2.3 Auxiliary Equipment

	Equipment			T	
Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
				Data cable of	
				2m length	
Keyboard	KB-0225	1211815	IBM	unshielded	FCC DOC
				Data cable of	
				2m length	
				unshielded	
				and 1.8m length	
Printer	BOISB-027-00	CNFG029476	EPSON	AC Mains cable	DOC
				1.8m length	
PC	8434		IBM	AC Mains cable	FCC DOC
				Data cable of	
Mouse	OM860XC	HM0509	BIGCOW	1.5m length	FCC DOC

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3.0 **Technical Details**

3.1 **Investigations Requested** Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

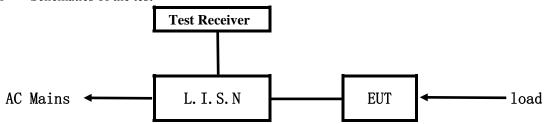
3.2 **Test Standards**

FCC Part 15 Subpart B: 2008



4.0 Conducted Power line Test

4.1 Schematics of the test

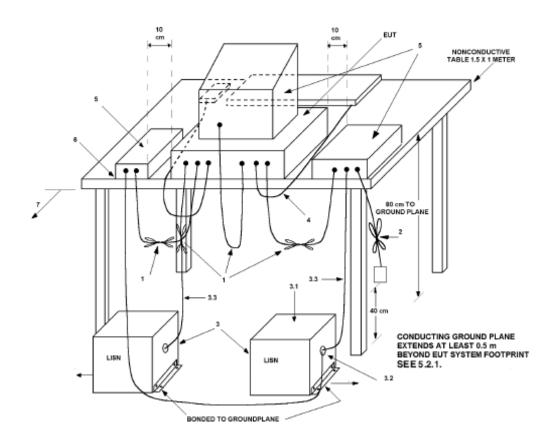


EUT: Equipment Under Test

4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Block diagram of Test setup



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4.3 Power line conducted Emission Limit

Eraguanay (MHz)	Class A Li	mits dB(μV)	Class B Limits dB(μV)		
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*	
$0.50 \sim 5.00$	73.00	60.00	56.00	46.00	
$5.00 \sim 30.00$	73.00	60.00	60.00	50.00	

Notes: 1. *decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.



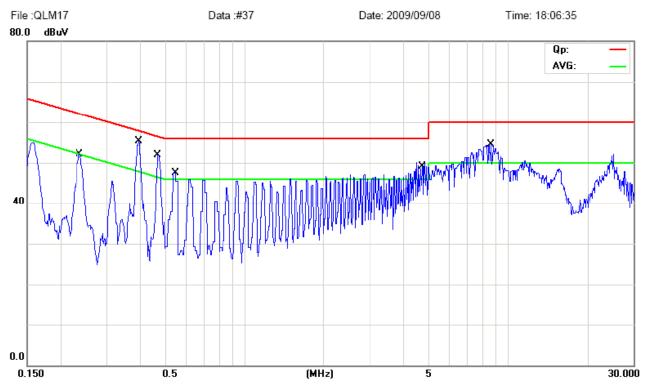
A: Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT Operating Environment

Temperature: 23°C Humidity:70%RH Atmospheric Pressure: 101 KPa

EUT set Condition: VGA Input
Level: Class B
Results: Pass

Please refer to following diagram for individual



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.394	Live	56.86	46.96	57.96	47.96
0.473	Live	53.44	44.74	56.46	46.46
8.615	Live	45.38	38.18	60.00	50.00
4.617	Live	48.46	43.66	56.00	46.00
0.551	Live	53.32	40.52	56.00	46.00
0.236	Live	52.99	47.69	62.23	52.23

The report refers only to the sample tested and does not apply to the bulk.



B: Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT Operating Environment

Temperature: 23°C Humidity:70%RH Atmospheric Pressure: 101 KPa

EUT set Condition: VGA Input

Level: Class B
Results: Pass

Please refer to following diagram for individual

File:QLM17 Data:#38 Date: 2009/09/08 Time: 18:11:53 80.0 dBuV Qp: AVG: 0.0 0.150 0.5 (MHz) 30.000 Reading(dBµV) Limit(dBµV) Frequency Line (MHz) Quasi-peak Quasi-peak Average Average 0.629 Neutral 52.41 44.41 56.00 46.00 8.569 Neutral 54.00 48.40 60.00 50.00 4.560 Neutral 50.52 44.52 56.00 46.00 0.472 Neutral 48.54 43.04 56.00 46.00 0.393 47.86 57.99 47.99 Neutral 46.46

44.57

56.00

46.00

Neutral

2.434

47.87

The report refers only to the sample tested and does not apply to the bulk.



C: Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

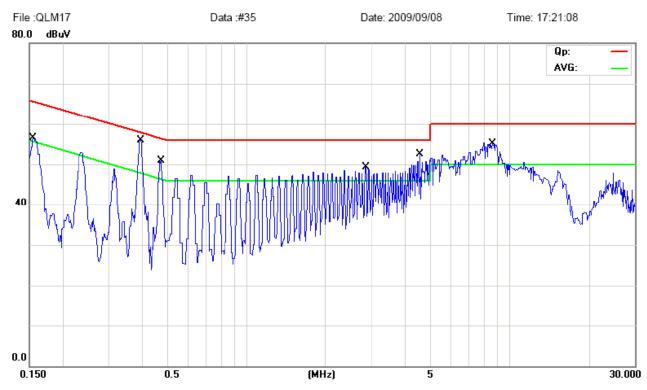
EUT Operating Environment

Temperature: 23°C Humidity:70%RH Atmospheric Pressure: 101 KPa

EUT set Condition: DVI Input

Level: Class B
Results: Pass

Please refer to following diagram for individual



Frequency	Line	Reading(dBμV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.394	Live	56.86	45.76	57.97	47.97
0.471	Live	54.44	44.84	56.50	46.50
8.479	Live	53.74	46.14	60.00	50.00
4.555	Live	50.52	44.72	56.00	46.00
2.829	Live	48.93	42.93	56.00	46.00
0.156	Live	49.11	47.41	65.67	55.67

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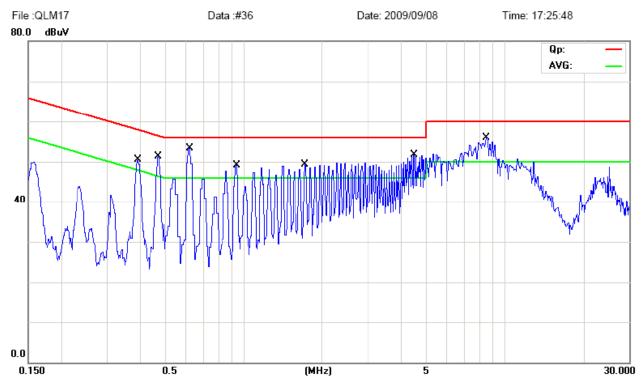
D: Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT Operating Environment

Temperature: 23°C Humidity:70%RH Atmospheric Pressure: 101 KPa

EUT set Condition: DVI Input Level: Class B Results: Pass

Please refer to following diagram for individual



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.628	Neutral	53.01	44.41	56.00	46.00
0.470	Neutral	50.44	44.24	56.00	46.00
8.504	Neutral	43.23	35.13	60.00	50.00
4.478	Neutral	50.29	43.59	56.00	46.00
0.393	Neutral	48.46	46.76	58.00	48.00
0.931	Neutral	47.73	42.63	56.00	46.00
1.723	Neutral	45.39	41.99	56.00	46.00

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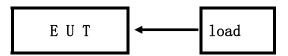
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5.0 Radiated Disturbance Test

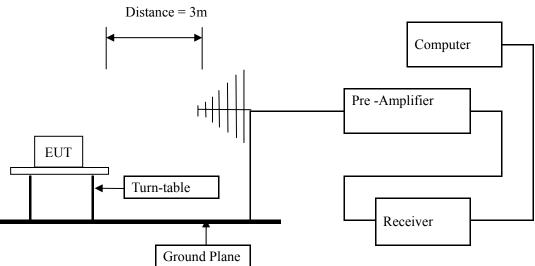
5.1 Schematics of the test



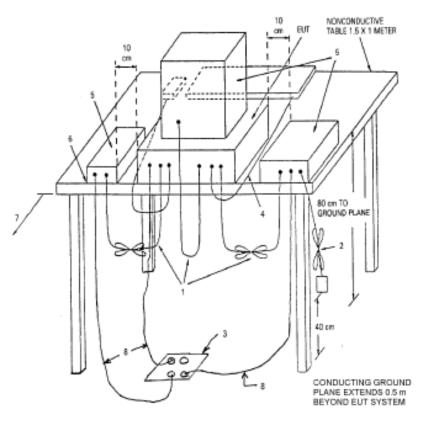
5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak 0values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

Block diagram of Test setup







5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

5.4 Test result

The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.



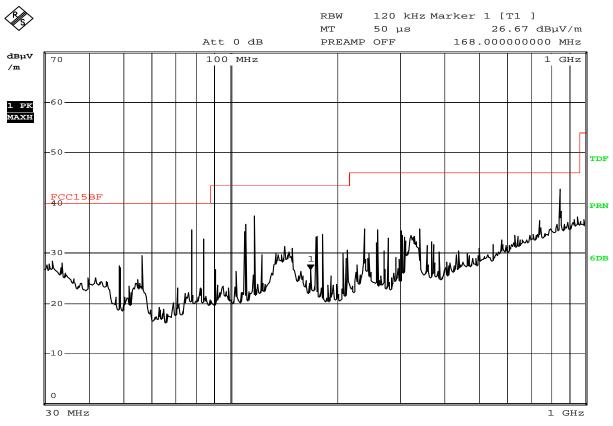
EUT set Condition: VGA Input

Level: Class B

Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 8.SEP.2009 21:51:08

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m ($dB\mu V/m$)
77.76	34.70	Н	40.00
110.20	35.82	Н	43.50
116.64	31.31	Н	43.50
850.80	42.80	Н	46.00

The report refers only to the sample tested and does not apply to the bulk.



B: Radiated Disturbance In Vertical (30MHz --- 1000MHz)

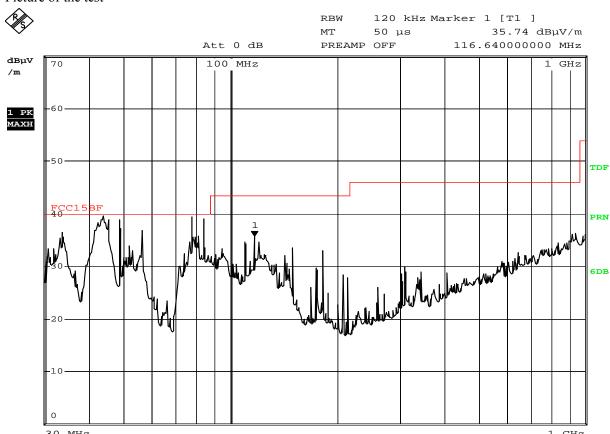
EUT set Condition: VGA Input

Level: Class B

Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 8.SEP.2009 21:47:20

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBµV/m)
43.84	38.54	V	40.00
48.80	38.23	V	40.00
56.44	37.50	V	40.00
77.80	39.20	V	40.00
84.24	39.09	V	40.00

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1 GHz

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EUT set Condition: DVI Input

Level: Class B

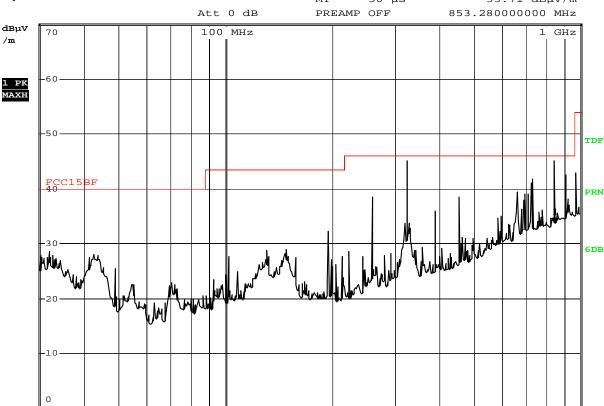
Results: PASS

Please refer to following diagram for individual

Picture of the test

%

RBW 120 kHz Marker 1 [T1] MT 50 μs 33.71 dBμV/m



Date: 8.SEP.2009 21:59:32

30 MHz

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
325.04	45.18	Н	46.00
845.04	45.08	Н	46.00
910.04	42.54	Н	46.00
975.02	42.82	Н	54.00

The report refers only to the sample tested and does not apply to the bulk.



D: Radiated Disturbance In Vertical (30MHz---1000MHz)

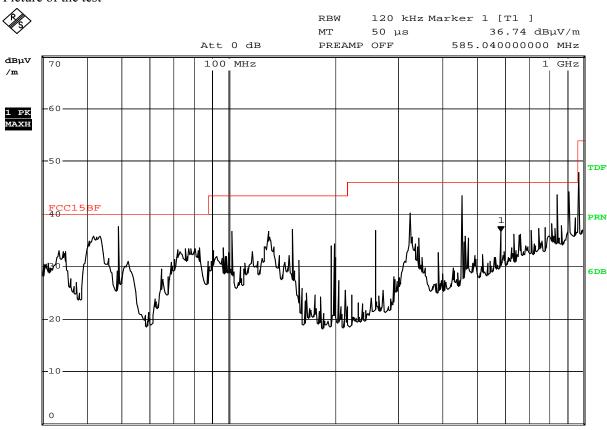
EUT set Condition: DVI Input

Level: Class B

Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 8.SEP.2009 22:01:47

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
49.04	37.57	V	40.00
129.88	36.57	V	43.50
455.04	43.54		46.00
845.04	43.63	V	46.00
910.08	44.21	V	46.00
975.08	47.92	V	54.00

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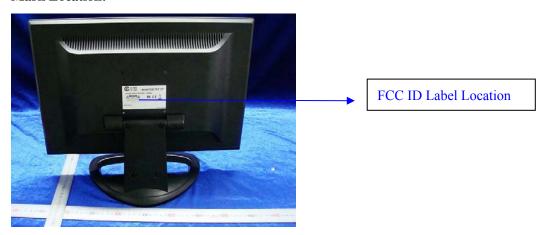
6.0 FCC ID Label

FCC ID: XOMMQLM17XXXXXX

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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Photo of testing

7.1 Conducted test View—



7.2 Radiated emission test view--



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Photo for the EUT





Back View



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Appendix



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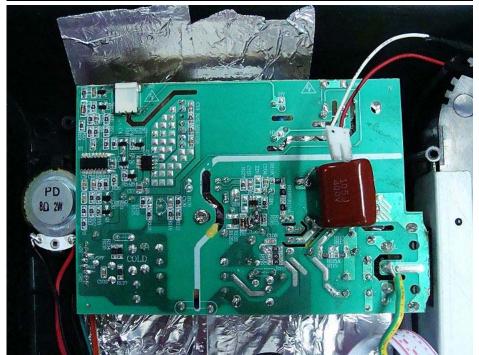
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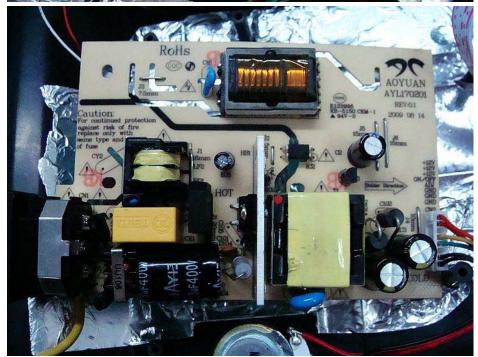
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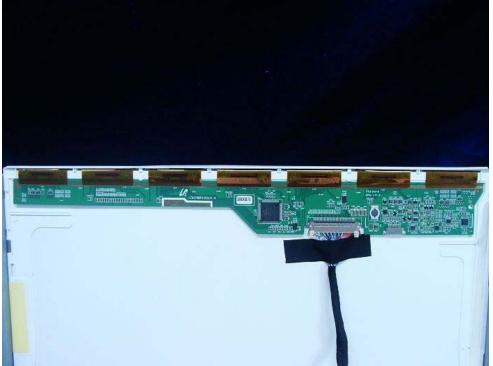


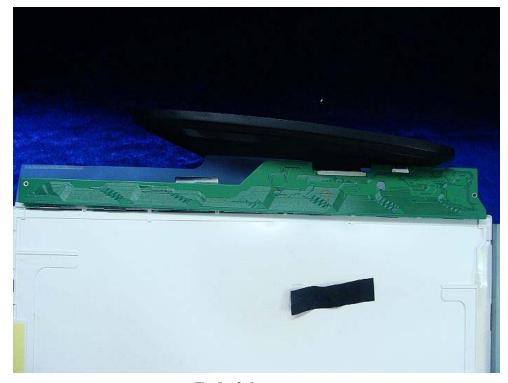


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-End of the report-

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