



Test Report

Applicant: Xiamen Elane Electronics Co., Ltd.
Address of Applicant: 4th Floor, #10 of Ai-De Air Industry Park, Gaoqi South 12th Road, Xiamen, Fujian, China
Equipment Under Test (EUT):
EUT Name: SDC USB 5Lb
Model No.: SDC USB 5LB
Serial No.: Not supplied by client
Standards: FCC PART15 SUBPART B: 2007
Date of Receipt: May 21, 2009
Date of Test: May 21, 2009 – May 26, 2009
Date of Issue: May 31, 2009
Test Result : **PASS***

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Henly.xie / Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

All test results in this report can be traceable to National or International Standards.

The test report prepare by:

Guangzhou Huesent Testing Service Co.,Ltd.

No.91, Dongguanzhuang Road,Guangzhou,China.

Tel: 86-20-28263298 Fax: 86-20-28263237 <http://www.hst.org.cn> E-mail:hst@hst.org.cn



2. Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART B: 2007	ANSI C63.4:2003	Class B	PASS
Conducted Emission (150KHz to 30MHz)	FCC PART 15, SUBPART B: 2007	ANSI C63.4:2003	Class B	PASS



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4. General Information

4.1 Client Information

Applicant: Xiamen Elane Electronics Co., Ltd.
Address of Applicant: 4th Floor, #10 of Ai-De Air Industry Park, Gaoqi South 12th Road, Xiamen, Fujian, China

4.2 General Description of E.U.T.

EUT Name: SDC USB 5Lb
Trade Name: N/A
Item No.: See the model number shown on cover page.
Serial No.: Not supplied by client

4.3 Details of E.U.T.

Power Supply: USB 5VDC input
Power Cord: 1.40 m USB cable without cores

4.4 Description of Support Units

CGEL's PC (CGEL series No.: 81-342; CPU model: Intel (R), Celeron (R) 2.40G; HuntKey switch power) and Philips CRT monitor (model: 107F67, CGEL series No. : 81-551).

4.5 Standards Applicable for Testing

The standard used was FCC PART 15, SUBPART B, CLASS B 2007

4.6 Test Location

Huesent Testing Service Ltd.
No. 91, Dongguan Zhuang Road, Guangzhou City, Guangdong Province, P.R. China
Tel: 86-20-28263298 Fax: 86-20-28263237

All tests were subcontract to the laboratory following:

China CGEL Laboratory which is located at
45 Cunnan Street, Shayongnan, Sanyuanli, Liwan District, 510400, Guangzhou City, Guangdong Province, P. R. China
Tel: 86-20-36377897 Fax: 86-20-36377553 Email: jy@cgel.org.cn
FCC- Registration No: 597719 on Jan. 18, 2005

4.8 Deviation from Standards

None.

4.9 Abnormalities from Standard Conditions

None.



5. Equipments Used during Test

No.	Test item.	Name of Equipment's	Model/Type	Last Calibrated Date
1	CE/RE	EMI TEST RECEIVER	R & S ESIB7	2009-4-15
2	CE	LISN	R & S ESH3-Z5	2009-4-15
3	CE	PULSE LIMITER	R & S ESH3-Z2	2008-12-17
4	CE	SHIELDING ROOM	ETS-LINDREN Celltype	2009-3-30
5	RE	CHAMBER	ETS-LINDREN CACT-3	2009-3-30
6	RE	ULTRALOG ANTENNAS	R & S HL-562	2009-3-30
Note: /				



6. Test Results

6.1 Conducted Emissions Mains Terminals, 150 kHz to 30MHz

Test Requirement: FCC Part 15 B
Test Method: ANSI C63.4
Class / Severity: Class B
Detector: Peak for pre-scan (9kHz Resolution Bandwidth)
Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit
Test Date: May 21, 2009

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0°C

Humidity: 60% RH

Atmospheric Pressure: 103.0kPa

EUT Operation:

1. Connect the EUT via an USB cable to PC host in 120VAC/60Hz.
2. Take a book on the EUT, and test the EUT work normally in scaling mode with the weight shown on the CRT monitor during the whole test.

6.1.2 Plan View of Test Setup

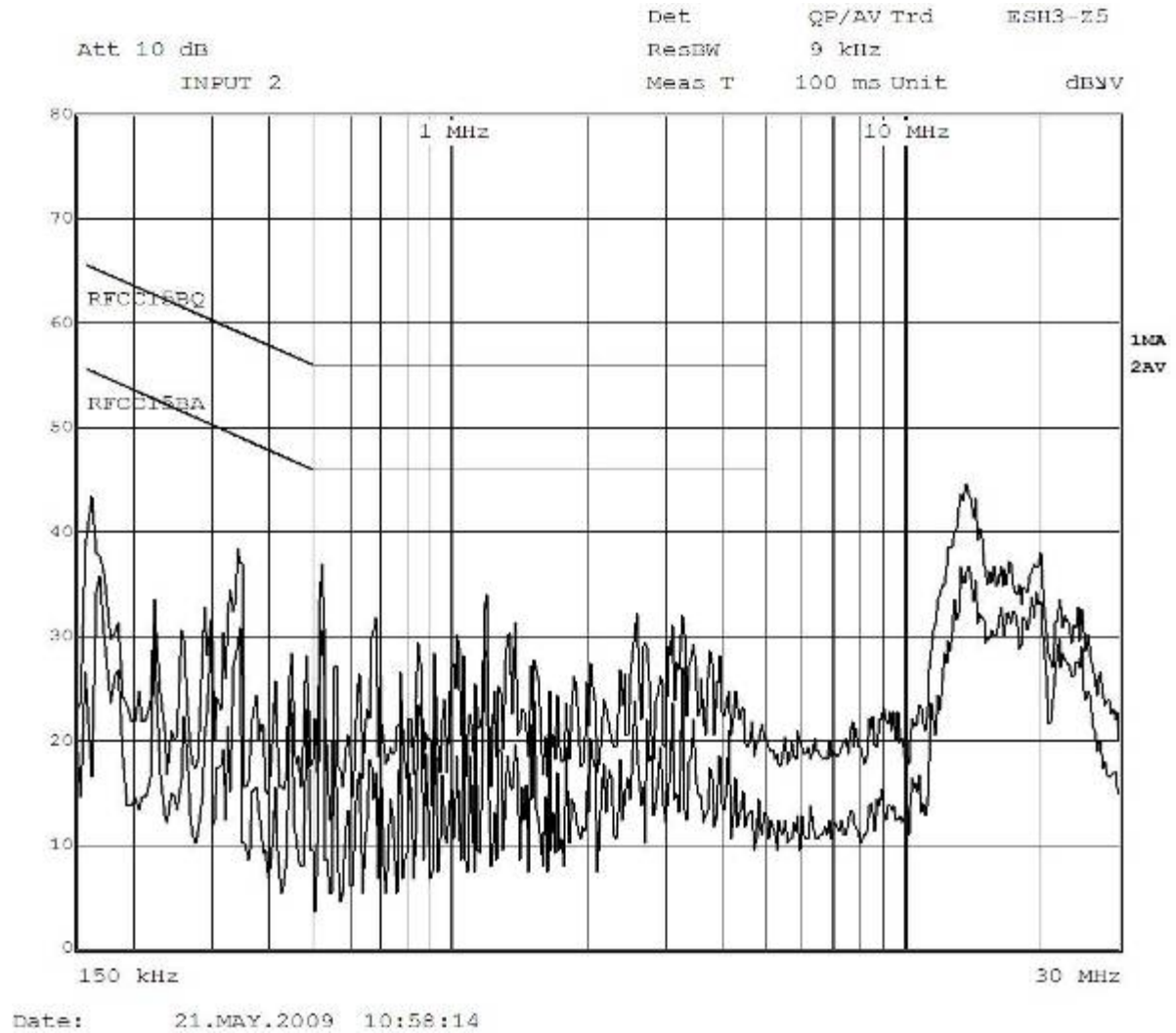
6.1.3 Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized emission were detected when Peak measurement level is over Average Limit.

Live Line

Peak Scan

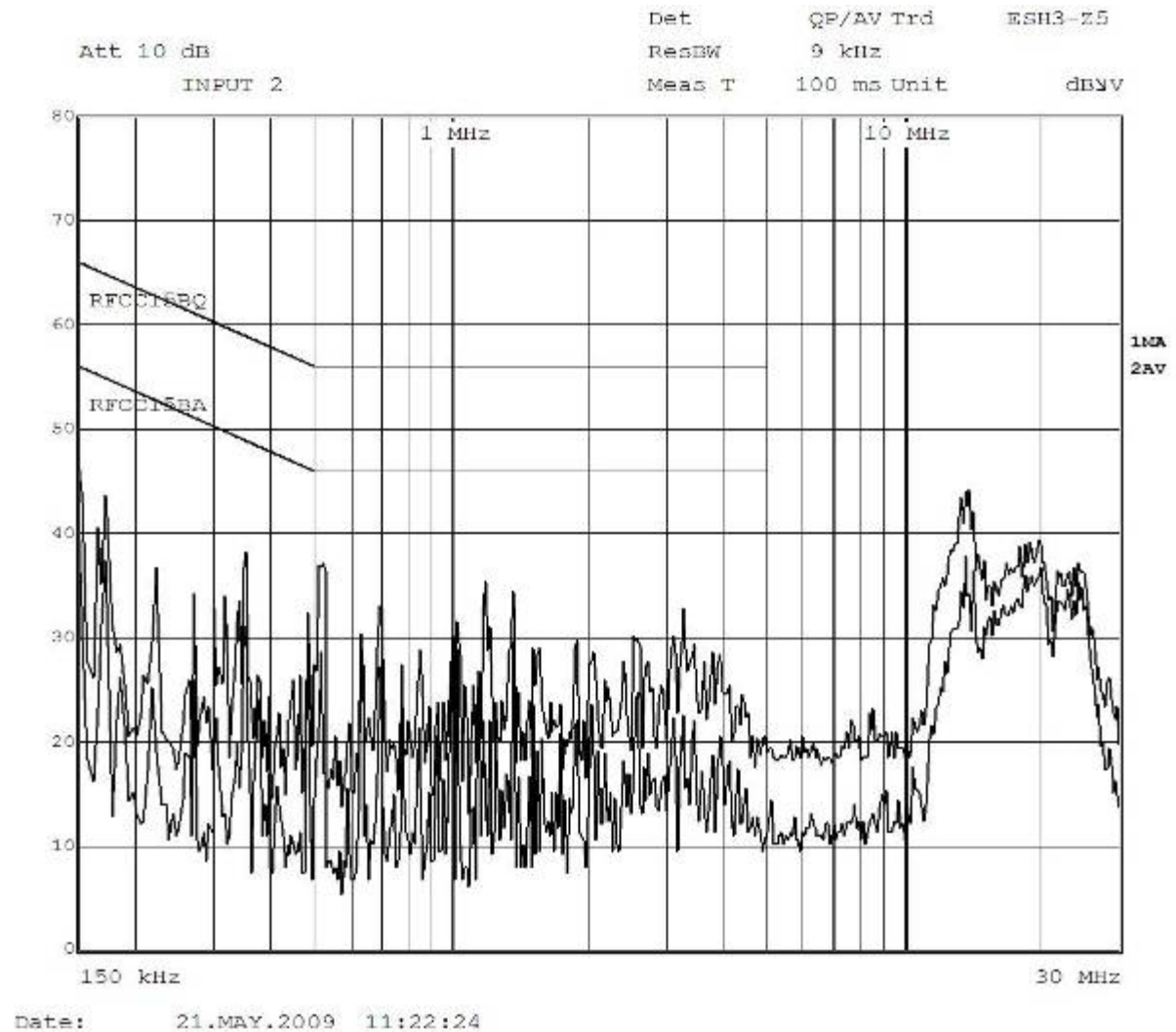


Quasi-peak and Average measurement

Freq. (MHz)	Line	QP (dBμV)	Transd ucer (dB)	QP limit (dBμV)	Margin (dB)	AV (dBμV)	Transd ucer (dB)	AV limit (dBμV)	Margin (dB)
0.166	Live	39.2	0.1	65.2	-26.0	35.6	0.1	55.2	-19.6
0.352	Live	36.7	0.1	58.9	-22.2	31.6	0.1	48.9	-17.3
0.516	Live	35.4	0.1	56	-20.6	31.4	0.1	46	-14.6
1.222	Live	33.4	0.1	56	-22.6	29.4	0.1	46	-16.6
13.24	Live	42.3	0.4	60	-17.7	36.6	0.4	50	-13.4
19.88	Live	36.2	0.5	60	-23.8	34.8	0.5	50	-15.2

Neutral Line

Peak Scan



Quasi-peak and Average measurement

Freq. (MHz)	Line	QP (dBμV)	Transd ucer (dB)	QP limit (dBμV)	Margin (dB)	AV (dBμV)	Transd ucer (dB)	AV limit (dBμV)	Margin (dB)
0.150	Neutral	44.3	0.1	66.0	-21.7	39.1	0.1	56.0	-16.9
0.352	Neutral	36.8	0.1	58.9	-22.1	32.8	0.1	48.9	-16.1
0.513	Neutral	35.1	0.1	56	-20.9	28.7	0.1	46	-17.3
1.234	Neutral	33.2	0.1	56	-22.8	22.4	0.1	46	-23.6
13.24	Neutral	41.3	0.4	60	-18.7	37.9	0.4	50	-12.1
19.88	Neutral	38.2	0.5	60	-21.8	37.2	0.5	50	-12.8

6.2 Radiated Emissions, 30MHz to 1GHz

Test Requirement: FCC Part15 B
Test Method: ANSI C63.4
Class: Class B
Detector: Peak for pre-scan (120kHz resolution bandwidth)
Quasi-Peak if maximised peak within 6dB of limit
Test Date: May 21, 2009

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25°C

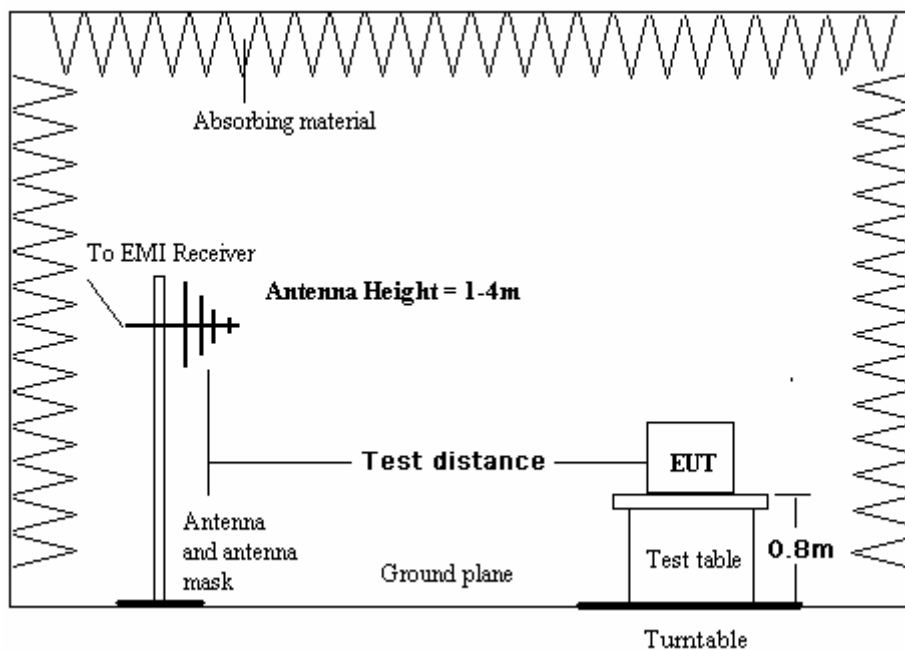
Humidity: 60% RH

Atmospheric Pressure: 103.0kPa

EUT Operation:

1. Connect the EUT via an USB cable to PC host in 120VAC/60Hz.
2. Take a book on the EUT, and test the EUT work normally in scaling mode with the weight shown on the CRT monitor during the whole test.

6.2.2 Test Setup

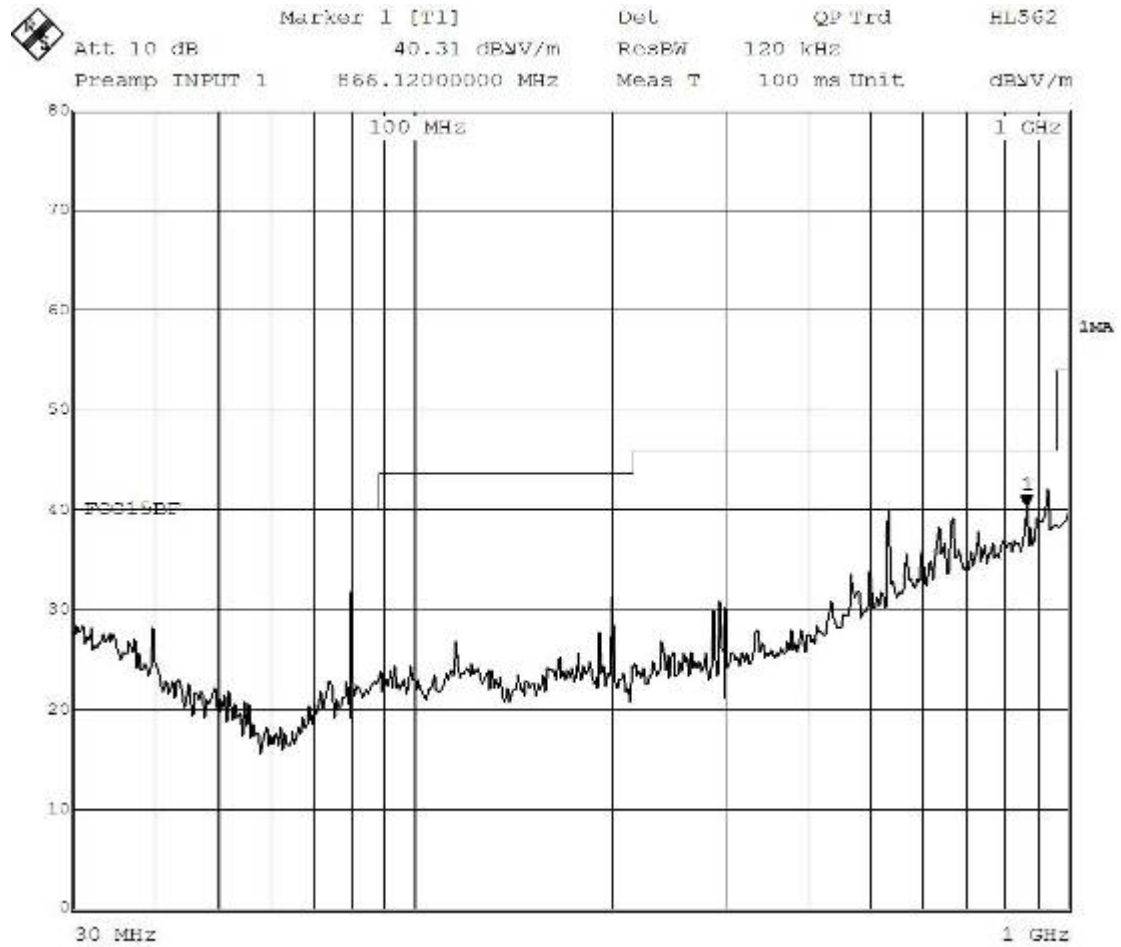


6.2.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bilog antenna with 2 orthogonal polarities

Horizontal

Peak Scan



Date: 21.MAY.2009 15:11:42

Quasi-peak measurement

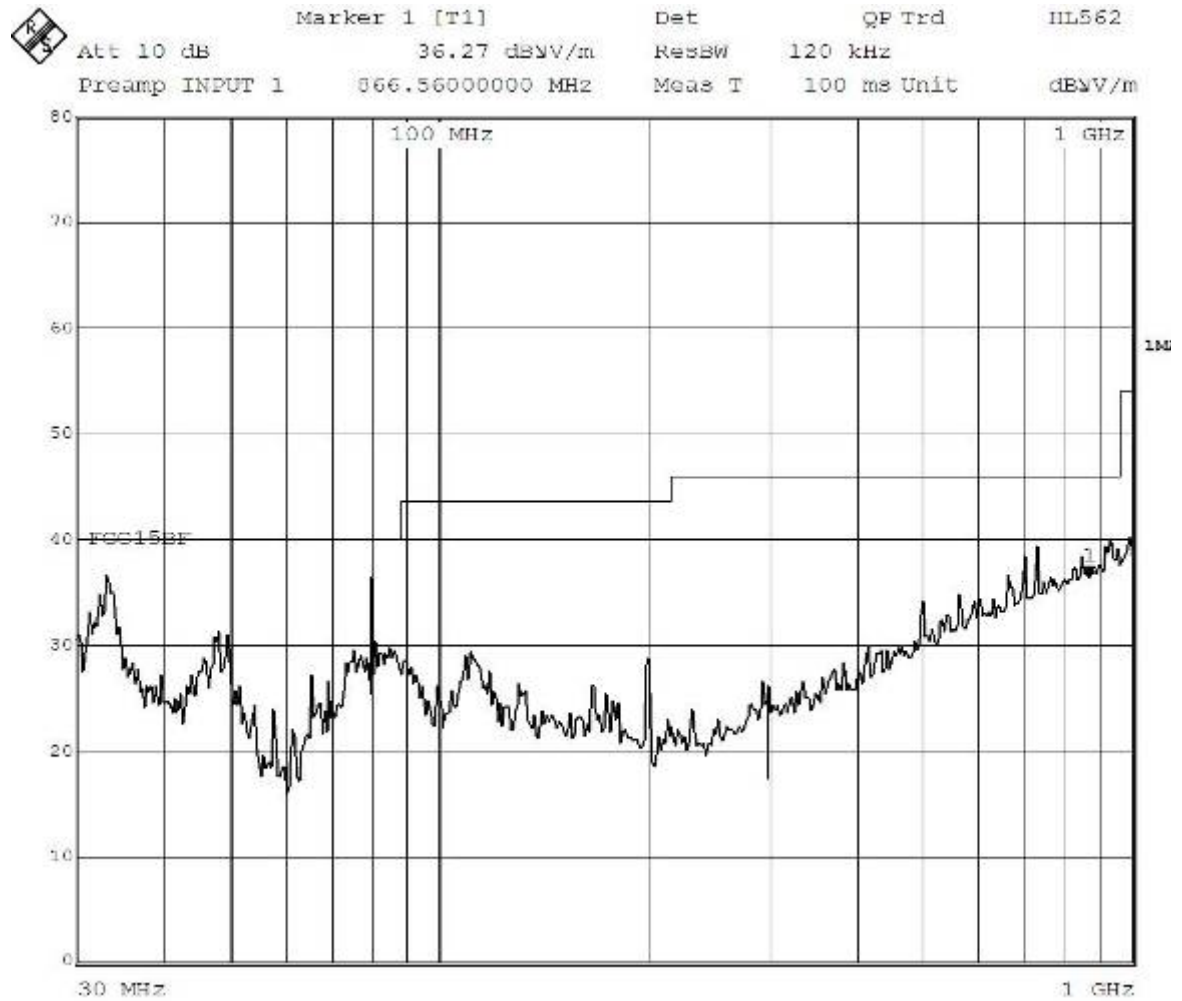
Frequency MHz	Level dBuV/m	Transducer dB	Limit dBuV/m	Margin dB
40.0	28.1	16.0	40	-11.9
80.0	31.2	10.9	40	-8.8
120.0	26.7	12.0	43.5	-16.8
200.0	31.0	10.1	43.5	-12.5
531.2	39.4	20.4	46	-6.6
866.1	39.8	26.4	46	-6.2

Note:

The transducer factor includes antenna factor and cable loss.

Vertical

Peak Scan



Date: 21.MAY.2009 15:13:14

Quasi-peak measurement

Frequency	Level	Transducer	Limit	Margin
MHz	dBuV/m	dB	dBuV/m	dB
33.7	34.7	18.9	40	-5.3
80.0	35.1	10.9	40	-4.9
112.4	28.2	11.6	43.5	-15.3
200.0	28.7	10.1	43.5	-14.8
500.0	33.8	20.0	46	-12.2
732.0	38.4	24.4	46	-7.6

Note:

The transducer factor includes antenna factor and cable loss.

7. Photographs

7.1 Conducted Emission Test Setup



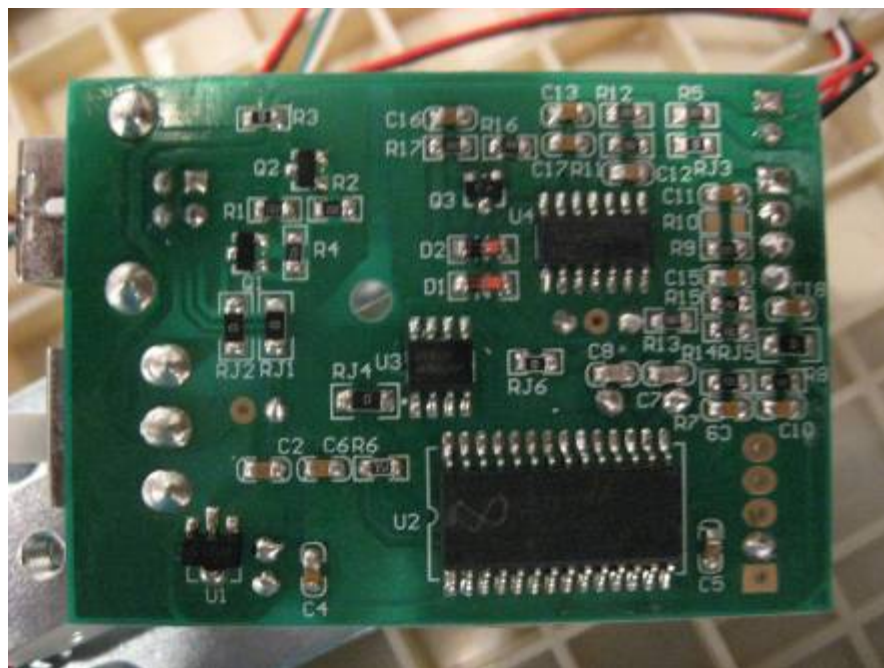
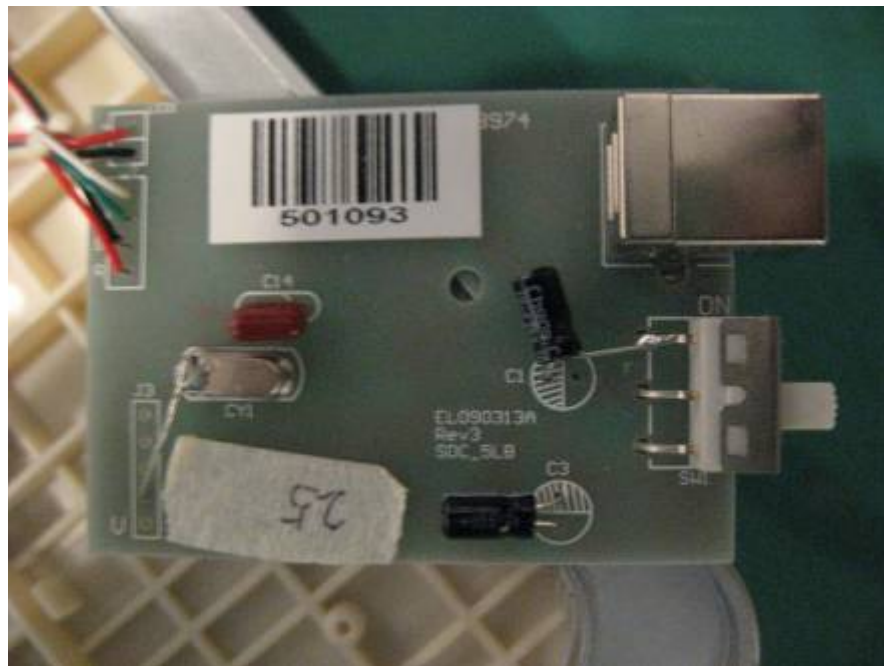
7.2 Radiated Emission Test Setup

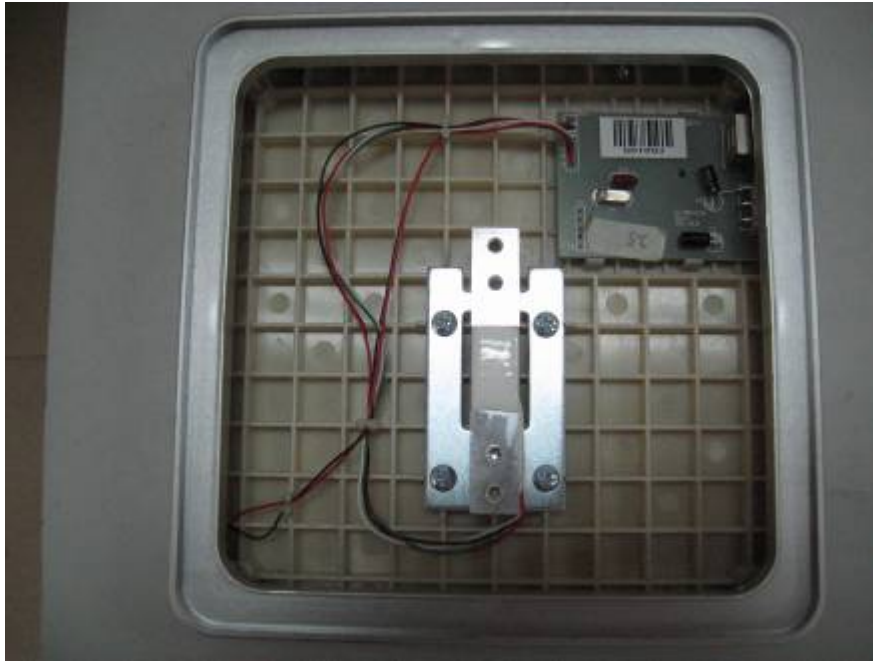


7.3 EUT Constructional Details









End of Report