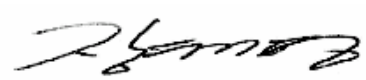
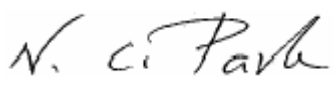
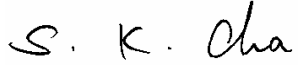


EMC Test Report

According to FCC Part 15 Subpart B

Project No.	LBE052092
Equipment under Test	
Applicant	Samsung Electronics Co., Ltd
Address	416 Maetan3-Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do, Korea, 443-742
Kind of Product	Digital Still Camera
Model Name	SC-MS15BL
Manufacturer	Samsung Electronics Co., Ltd
Brand Name	SAMSUNG
Variant Model	See Page 3
FCC ID	A3L05SAM1
Date of Test	August 24 ~ 25, 2005
Issued Date	September 5, 2005

	Name/Position	Signature
Tested by	Tae Young, Jang Test Engineer	
Reviewed by	No Cheon, Park Manager of EMC Lab.	
Authorized by	Seung Kyu, Cha Chief of EMC Lab.	

1. This test reports does not constitute an endorsement by NIST/NVLAP or U.S Government.
2. This test report is to certify that the tested device properly complies with the requirements of FCC Rules and Regulations Part 15 Subpart B Unintentional Radiators.

All tests necessary to show compliance to the requirements were and these results met the specifications requirement.

This laboratory is registered by the NIST/NVLAP, U.S.A.

The test reported herein have been performed in accordance with its terms of registration.



NVLAP LAB CODE 200623-0

Table of Contents

1. General Information

- 1.1 Basic Information related Product
- 1.2 Detail Information related Product
- 1.3 Test Configuration
- 1.4 EUT Operating Conditions
- 1.5 Applied Standard
- 1.6 Test Facility

2. Summary of Test Results

3. Description of individual tests

- 3. 1 Conducted Emission
- 3. 2 Radiated Emission

4. Appendix A

- 4.1 Test Photography
- 4.2 EUT Photography

1. General Information

1.1 Basic Information related Product

Applicant	Samsung Electronics Co., Ltd
Model name	SC-MS15BL
Applicant Address	416 Maetan3- Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do, Korea, 443-742
Contact Person	Jae Soon, Kang
Kind of product	Digital Still Camera
Valiant list	SC-MS10BL, SC-MS10S, SC-MS10B, SC-MS10R SC-MS11BL, SC-MS11S, SC-MS11B, SC-MS11R SC-MS15S, SC-MS15B, SC-MS15R
Manufacturer	Samsung Electronics Co., Ltd

1.2 Detail Information related Product

Specification

Movie Format		MPEG4
Profile		SP
Signal Format		NTSC/PAL(Factory option)
Dimension(WxHxD)		90 * 55 * 18.5
Weight(Net)		120g
Power Consumption	LCD On / LCD Off	2.2W
LCD Monitor	Size	2.5" Trans
	Pixel	115K
	Resolution	640*240
	Bright Adjust	O
	Color Adjust	O
	Tint Adjust	X
	Rotation Angle	X
	Mirror	X
Storage	Internal Memory	64M/128M/256/512M
	Memory Slot	Mini SD
	HDD	None
Battery	Type	Li-ion (Detachable)
	Capacity	820mAH*3.7V
	Extra Battery	X
Light		X
Flash		Strobe(GN 4)
Speaker		O (Mono)
Mic		MONO
Remote		X
View Finder		X
Shoe		X
Tripod		O

1.3 Operating Mode and Condition

The system was configured for testing in typical fashion use. Cables were attached to each of the available I/O Ports. Where applicable, peripherals were attached to the I/O cables. The mode of operation utilized for testing was selected to best simulate typical EUT use.

- External & Internal Memory : USB
- PC Camera : USB

AV operating modes were covered by another report.

1.4 Equipment Modifications

No equipment modifications were required.

1.5 Test Configuration

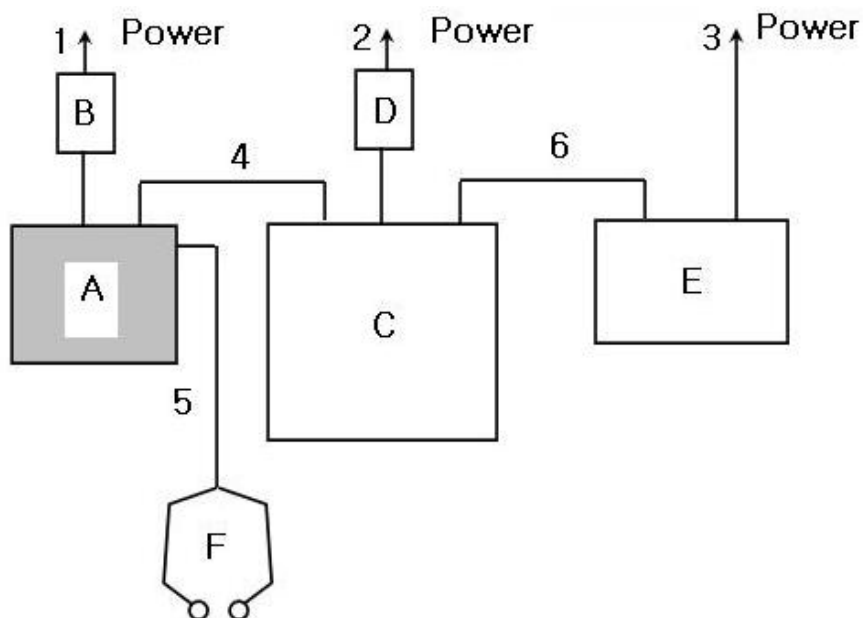
Used EUT and Peripherals

Seq	Device	Model Name	Serial #	Maker	FCC ID
A	Digital Still Camera	SC-MS15BL	-	SAMSUNG	A3L05SAM1
B	Adapter	SAM-PJ	6CAY700109	SAMSUNG	DOC
C	Note PC	SP40	SKU29REXB00004T	SAMSUNG	DOC
D	Adapter(Note PC)	API3AD05	BA44-00190A	SAMSUNG	DOC
E	Printer	ML-1740	BABX820386E	SAMSUNG	A3LML-1710P
F	Ear-Phone	-	-	-	-

Used Cable Description

	Connect Cable	Length [m]	Shielded [Y/N]	Remark
1	Power	1.8	No	
2	Power	1.8	No	
3	Power	1.8	No	
4	USB	1.7	No	
5	Ear-Phone	1.7	No	
6	Parallel (Printer)	1.8	Yes	

Block Diagram



1.6 Applied Standards

List

Product or Generic Standards	Basic Standards
FCC Part15 Subpart B	ANSI C63.4 : 2003

1.7 Test Facility

General Information

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1, 16-2.

This EMC Testing Lab. is accredited by Korea Laboratory Accreditation Scheme(KOLAS) which signed the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the above test item(s) and test method(s).

This Lab. is operated as testing laboratory in accordance with the requirements of ISO/IEC 17025:1998.

Accreditation and Listing



Uncertainty

(According to NAMAS Pub.NIS81)

Test Item	Expanded Uncertainty
Conducted Emission	+/-3.30
Radiated Emission	+/-5.09

2. Summary of Test Results

Result : PASS

The equipment under test(EUT) has been found to comply with the applied standards.

Test Name		Applied Standard	Result
Electromagnetic Emission Test			
3.1	Conducted Emission	FCC Part15 Subpart B	Complied
3.2	Radiated Emission	FCC Part15 Subpart B	Complied

3. Description of Individual Tests

3.1 Conducted Emission

Test Information		
Test Engineer	Tae Young, Jang	
Test Date	August 25, 2005	
Climate Condition	Ambient Temperature : 21 Relative Humidity : 55%	
Test Place	Shield Room #5	

Test Equipments

Equipment	Modal Name	Manufacturer	Serial No.	Calibration	
				Next Date	Interval
EMC Analyzer	E7405A	AGILENT	MY42000052	2006-06-09	12
Field strength meter	ESS-30	R&S	844661/005	2006-05-19	12
L.I.S.N	ESH3-Z5	R&S	100262	2006-02-15	12
L.I.S.N	ESH3-Z5	R&S	847265/028	2005-09-12	12
Test Software	EP5CE	TOYO	None	N/A	N/A
RF Relais Matrix	PSU	R&S	861206/024	N/A	N/A

EUT Test Setup

The EUT was set up as per normal use on a wooden table, 0.4m from a vertical ground reference plane, at least 0.8m from other conduction surfaces and 0.8m from the LISN.

See photo.

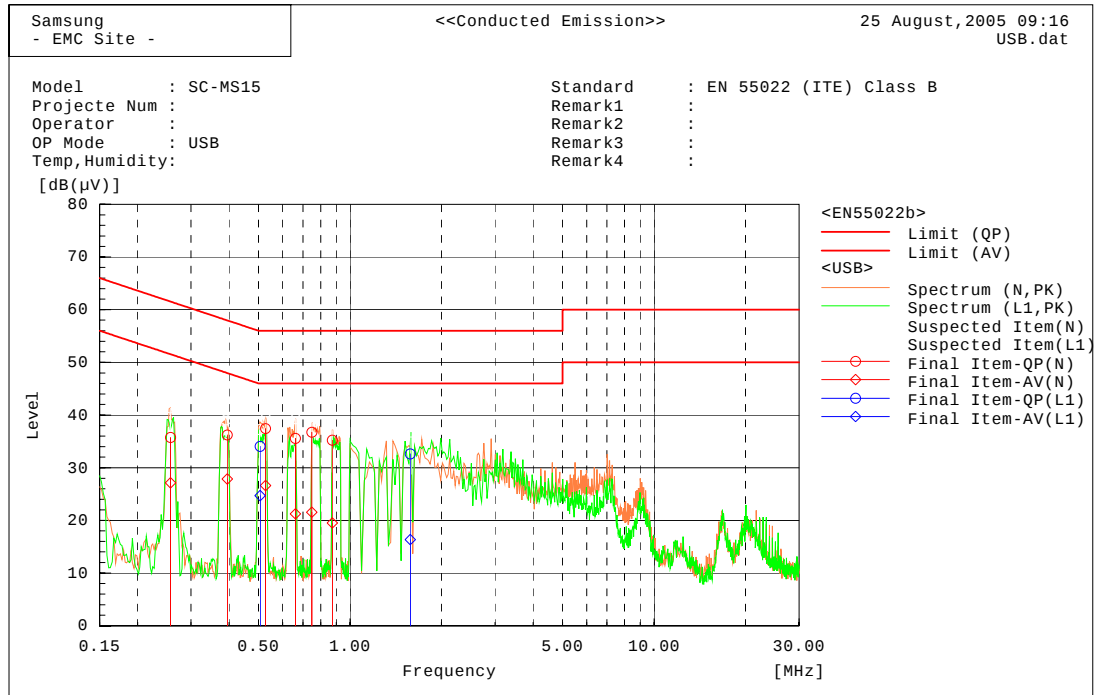
Test Result

Measurement Results	Pass The measured emissions of the EUT have found to be below the specified limits.
---------------------	--

Test Data

■ Operating Mode : External & Internal Memory : USB

[Graph and Data]



Final Result

--- N Phase ---

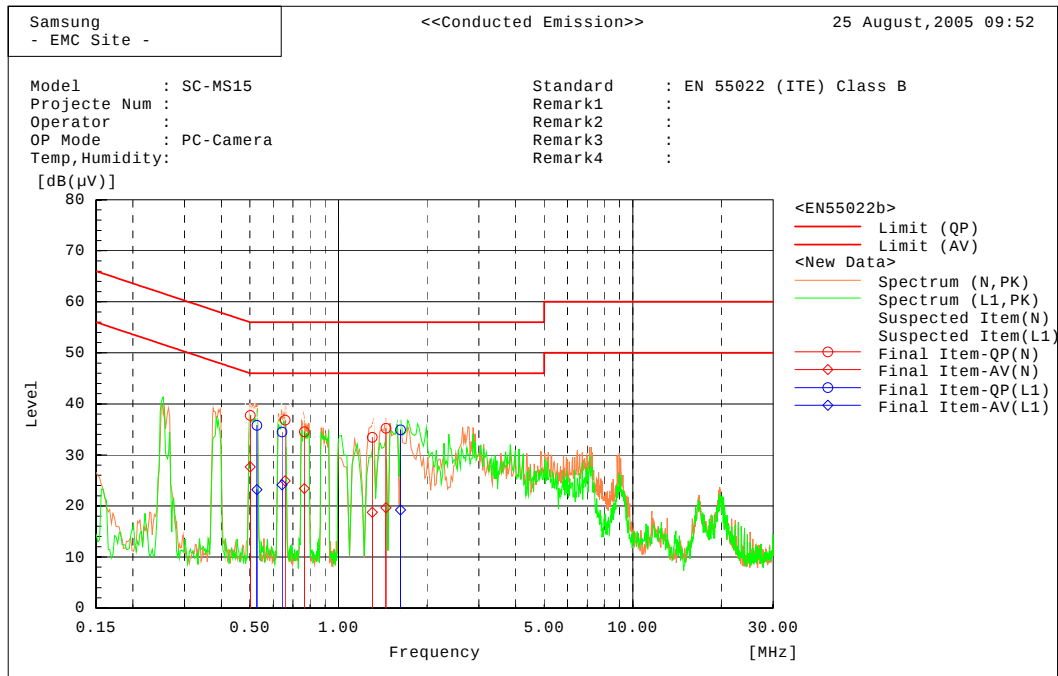
No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.25651	35.7	27.0	0.1	35.8	27.1	61.5	51.5	25.8	24.4
2	0.39433	36.1	27.8	0.1	36.2	27.9	58.0	48.0	21.8	20.1
3	0.52681	37.3	26.5	0.1	37.4	26.6	56.0	46.0	18.6	19.4
4	0.66147	35.5	21.2	0.1	35.6	21.3	56.0	46.0	20.4	24.7
5	0.74893	36.7	21.5	0.1	36.8	21.6	56.0	46.0	19.3	24.4
6	0.87403	35.1	19.4	0.1	35.2	19.5	56.0	46.0	20.8	26.5

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.50587	34.0	24.6	0.1	34.1	24.7	56.0	46.0	21.9	21.3
2	1.5771	32.5	16.3	0.1	32.6	16.4	56.0	46.0	23.4	29.7

■ Operating Mode : PC-Camera

[Graph and Data]



Final Result

--- N Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]		[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.50101	37.7	27.5	0.1	37.8	27.6	56.0	46.0	18.3	18.4
2	0.65813	36.7	24.8	0.1	36.8	24.9	56.0	46.0	19.2	21.1
3	0.76523	34.4	23.3	0.1	34.5	23.4	56.0	46.0	21.5	22.6
4	1.3022	33.3	18.6	0.1	33.4	18.7	56.0	46.0	22.6	27.3
5	1.4487	35.1	19.6	0.1	35.2	19.7	56.0	46.0	20.8	26.3

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]		[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.52838	35.7	23.1	0.1	35.8	23.2	56.0	46.0	20.2	22.8
2	0.64287	34.4	24.0	0.1	34.5	24.1	56.0	46.0	21.5	21.9
3	1.626	34.8	19.1	0.1	34.9	19.2	56.0	46.0	21.1	26.8

3.2 Radiated Emission

Test Information		
	Test Engineer	Tae Young, Jang
	Test Date	August 24, 2005
	Climate Condition	Ambient Temperature : 22 Relative Humidity : 50%
	Test Place	10m Semi Anechoic chamber

Test Equipments

Equipment	Model Name	Manufacturer	Serial No.	Calibration	
				Next Date	Interval
RF Selector	NS4900	TOYO	0303-015	N/A	N/A
Bi-log Antenna	CBL6112B	SCHAFFNER	2767	2006-06-04	12
Mast Controller	HD2000	HD	HD20000902027	N/A	N/A
Test Software	EP5RET	TOYO	None	N/A	N/A
Test Software	EP5RE	TOYO	None	N/A	N/A
TV Signal Generator	PM5418-TDSI	PHILIPS	LO612437	2005-09-23	12
Spectrum Analyzer	E7405A	AGILENT	US41110272	2006-01-20	12
Field strength meter	ESCS30	R&S	839809/002	2006-05-24	12
Amplifier	310N	SONOMA	185861	2005-10-08	12

EUT Test Setup

EUT is positioned at 10m from antenna at the center of the table in the semi-anechoic chamber.
All unused ports were terminated into characteristic loads.

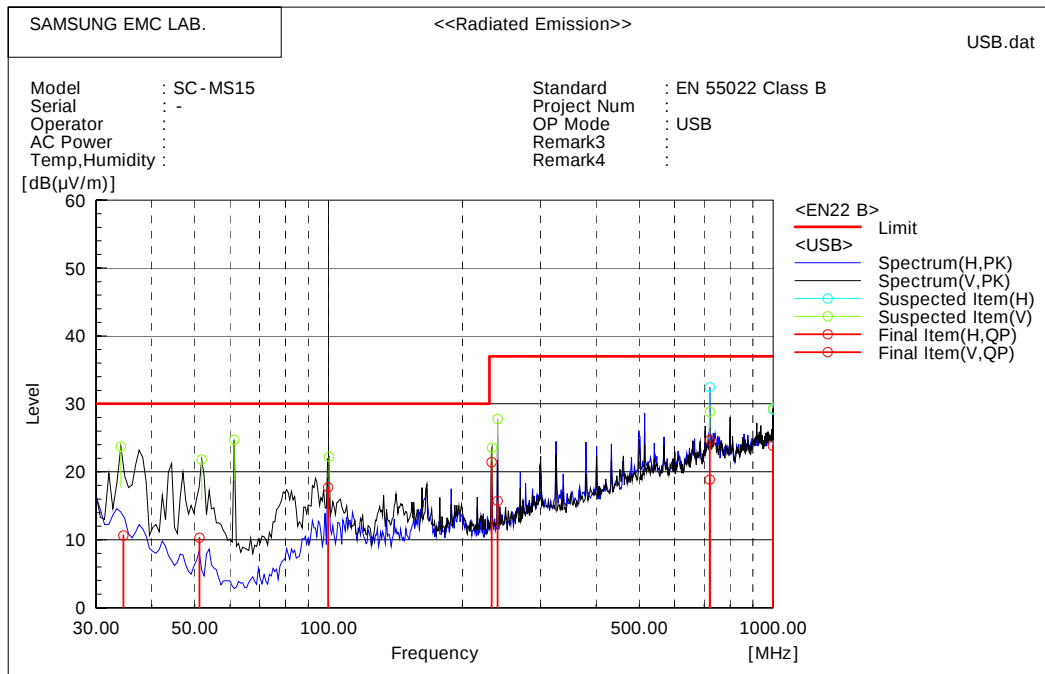
Test Result

Measurement Results	Pass The measured emissions of the EUT have found to be below the specified limits.
----------------------------	--

Test Data (Other Frequency)

■ Operating Mode : External & Internal Memory : USB

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

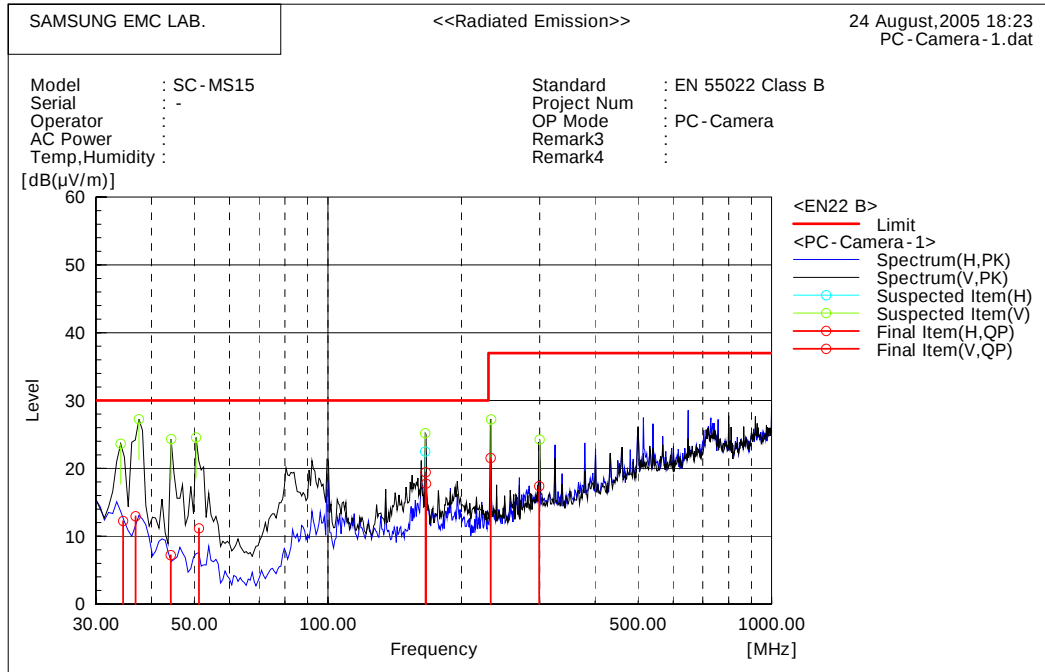
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	719.983	31.7	-7.0	24.7	37.0	12.3	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	34.556	26.7	-16.1	10.6	30.0	19.4	
2	51.249	34.4	-24.1	10.3	30.0	19.7	
3	99.721	38.0	-20.3	17.7	30.0	12.3	
4	232.750	41.0	-19.6	21.4	37.0	15.6	
5	239.999	34.6	-18.9	15.7	37.0	21.3	
6	720.403	25.9	-7.0	18.9	37.0	18.1	
7	999.020	26.9	-3.1	23.8	37.0	13.2	

■ Operating Mode : PC-Camera

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	166.377	39.3	-21.5	17.8	30.0	12.3	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	34.536	28.4	-16.1	12.3	30.0	17.7	
2	36.865	30.3	-17.3	13.0	30.0	17.1	
3	44.243	28.3	-21.1	7.2	30.0	22.8	
4	51.242	35.3	-24.1	11.2	30.0	18.8	
5	166.121	40.9	-21.5	19.4	30.0	10.6	
6	232.750	41.1	-19.6	21.5	37.0	15.5	
7	299.413	33.4	-16.0	17.4	37.0	19.6	

4. Appendix A

4.1 Test Photography



Picture 1. Conducted Emission (Front)



Picture 2. Conducted Emission (Side)



Picture 3. Radiated Emission (Front)



Picture 4. Radiated Emission (Rear)

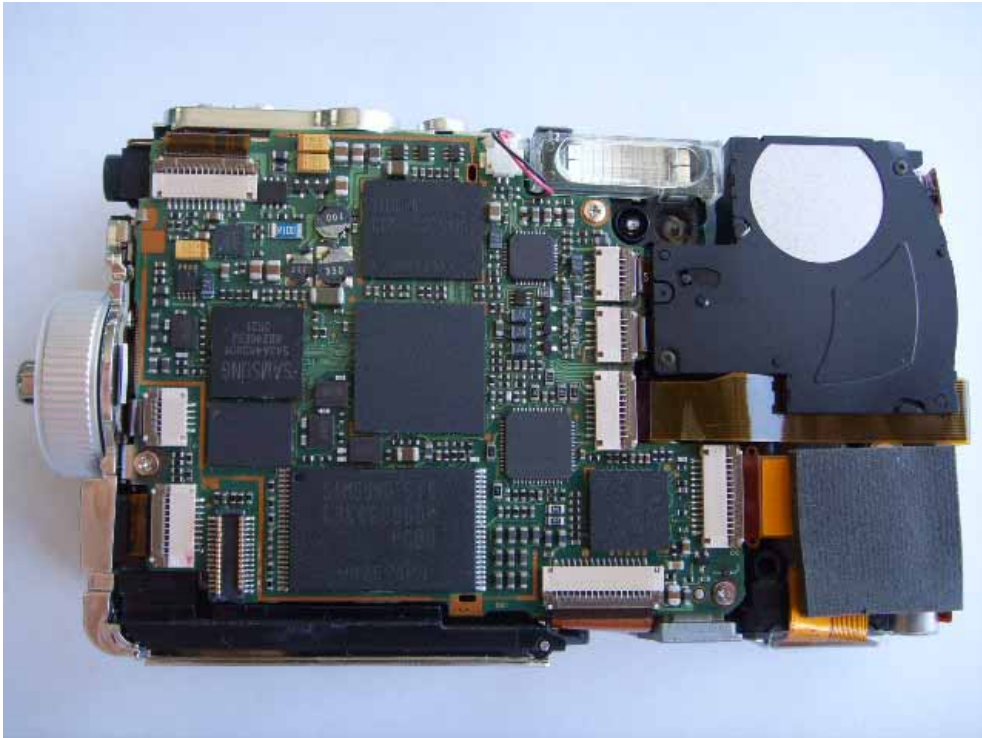
4.2 EUT Photography



Picture 5. EUT (Front)



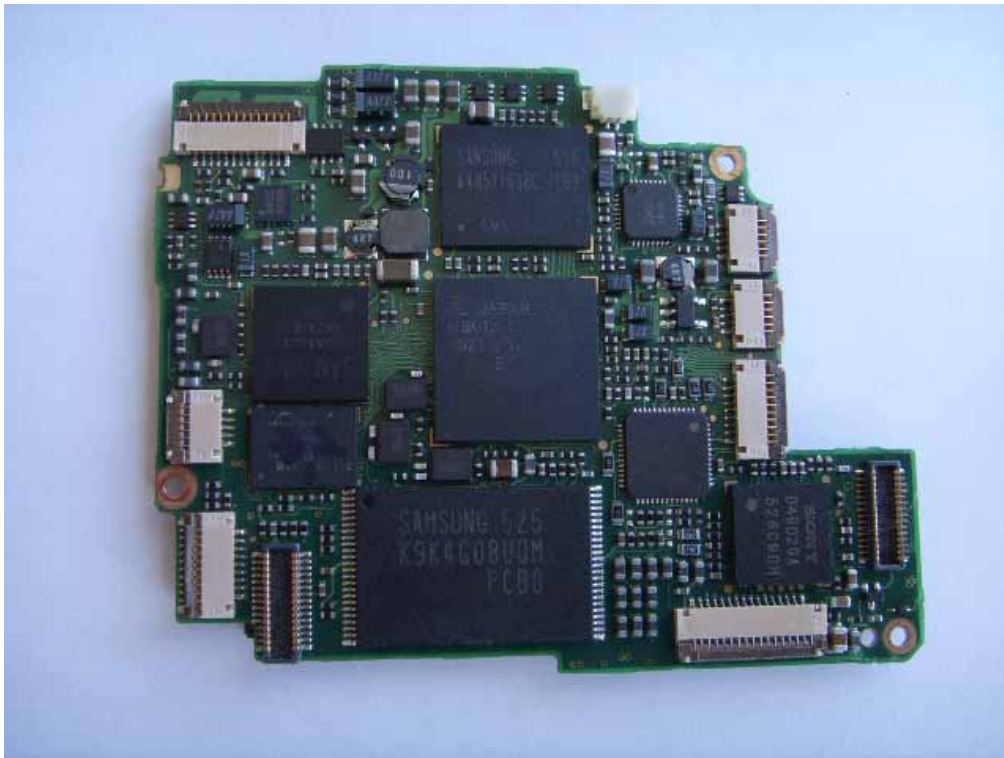
Picture 6. EUT (Rear)



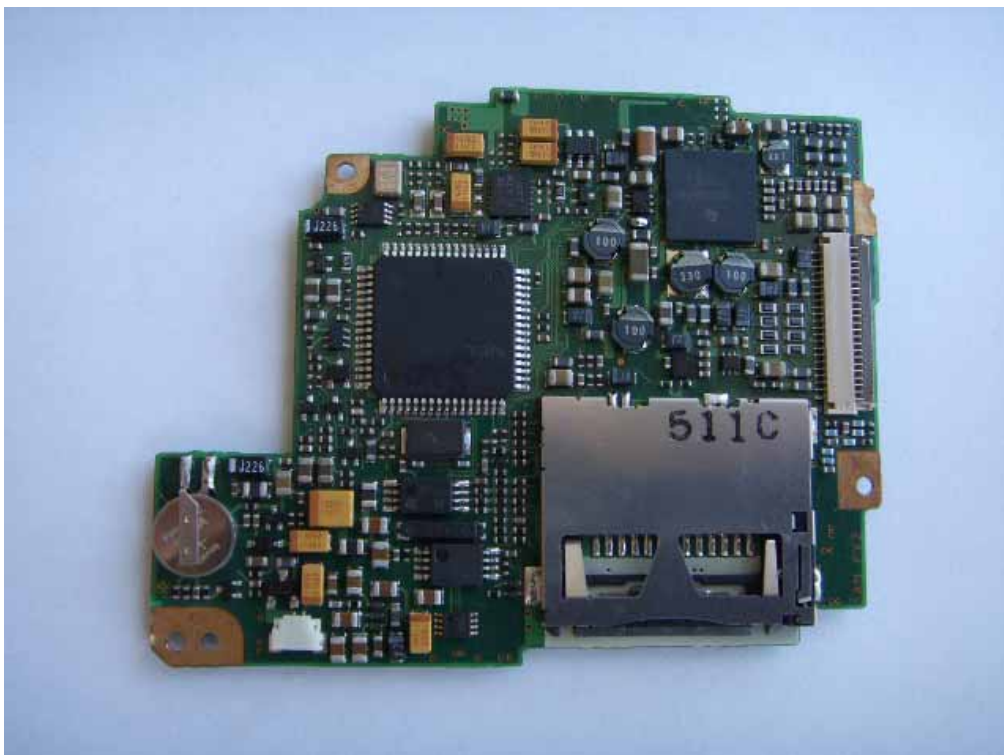
[Picture 7]



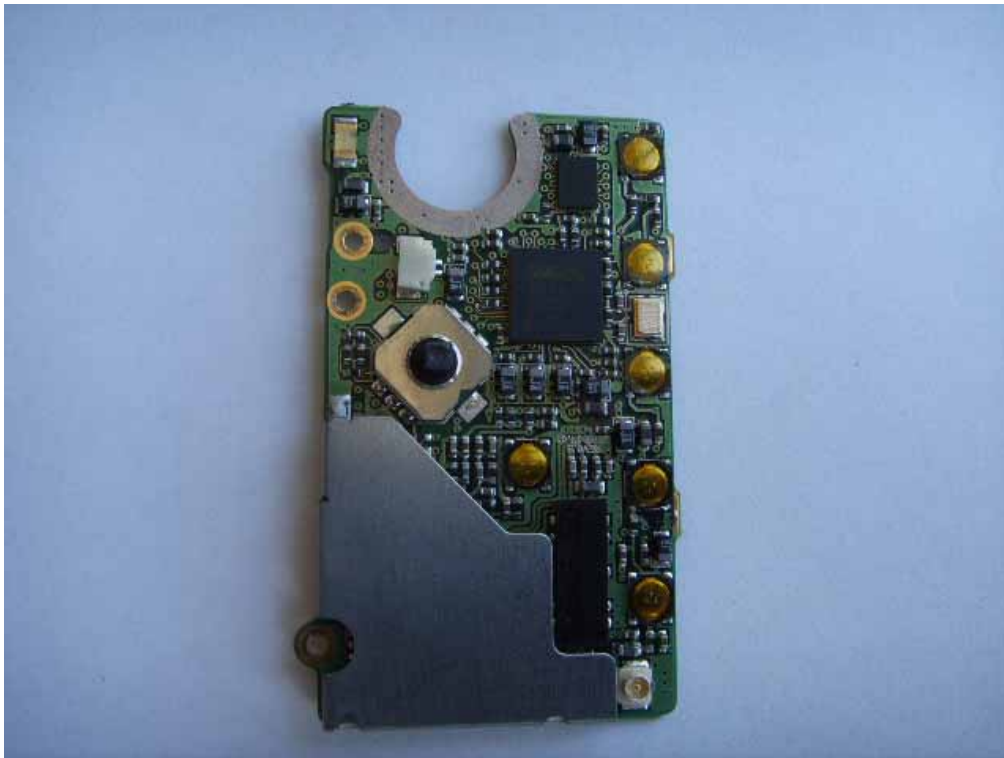
[Picture 8]



[Picture 9]



[Picture 10]



[Picture 11]



[Picture 12]



[Picture 13]



[Picture 14]



[Label]