FCC DoC
TEST REPORT

for

SubCompact Board

MODEL: xxxxGENE-5315xxxxxxxx(Where x is 0-9, A-Z, - or blank)

Test Report Number:
T121015D01-F

Issued to:

AAEON Technology Inc.

**5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist.,
New Taipei City, Taiwan, R.O.C.**

Issued by:

Compliance Certification Services Inc.

Xindian Lab.

**No.163-1, Jhongsheng Rd., Xindian Dist.,
New Taipei City, 23151 Taiwan.
TEL: 886-2-22170894**

FAX: 886-2-22171029

Issued Date: October 15, 2012

ilac-MRA TAF Testing Laboratory 1108 A2LA ACCREDITED TESTING CERT #0824.01

Revision History

Rev.		Issue Date		Revisions	Effect Page	Revised By
00		November 20, 2006		Initial Issue	ALL	Eva Fan
01		October 15, 2012		Update Standard	ALL	Eva Fan

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1 TEST RESULT CERTIFICATION

Product:	SubCompact Board
Model:	xxxxGENE-5315xxxxxxxx(Where x is 0-9, A-Z, - or blank)
Brand:	AAEON
Applicant:	**AAEON Technology Inc.** 5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist., New Taipei City, Taiwan, R.O.C.
Manufacturer:	**AAEON Technology Inc.** 5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist., New Taipei City, Taiwan, R.O.C.
Tested:	November 14, 2006 & October 13, 2012

EMISSION			
Standard	**Item**	**Result**	**Remarks**
FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 4 ANSI C63.4-2009	Conducted (Power Port)	PASS	Meet Class A limit
	Radiated	PASS	Meet Class A limit

Note: 1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.
2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard
None

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Sam Hu
Section Manager

Reviewed by:

Vesta Hsu
Supervisor of report document dept.

2 EUT DESCRIPTION

Product	SubCompact Board
Brand Name	AAEON
Model	xxxxGENE-5315xxxxxxxx(Where x is 0-9, A-Z, - or blank)
Test Item	Engineering sample
Applicant	AAEON Technology Inc.
Housing material	Metal Case
Serial Number	N/A
Received Date	November 10, 2006
AC Adaptor Manufacturer	EDAC
AC Adaptor Model Number	EA1050A-120
Adaptor Power Rating	IP: 100-240VAC, 50-60Hz OP: 12VDC
DC Power Cord Type	Unshielded, 1.2m (Non-Detachable, with a core) to AC Adaptor
OSC/Clock Frequencies	Y1: 24.576MHz; Y2: 32.768KHz; Y3: 14.318MHz; Y4: 25MHz; Y5: 25MHz

Model Differences

Model Name	Difference	Tested (Check)
TF-GENE-5315-A11	Original	☒
xxxxGENE-5315xxxxxxxx	1. For marketing purpose only. 2. Where x is 0-9, A-Z, - or blank	☐

I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
1. PIO Port	1	1
2. SIO Port	2	2
3. PS/2 One To Two Adaptor	1	1
4. Video Out Port (VGA)	1	1
5. Audio In Port	1	1
6. Earphone Port	1	1
7. Microphone Port	1	1
8. LAN Port	2	2
9. USB 2.0 Port	4	4

Note: Client consigns only one model sample to test (Model Number: TF-GENE-5315-A11).

3 TEST METHODOLOGY

3.1. DECISION OF FINAL TEST MODE

The EUT was tested together with the above additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The test configuration/ modes are as the following:

Conduction Modes:

No.	Report No.	Operate State
1	61110205	Normal Mode
2	T121015D01	Normal Mode

Radiation Modes:

No.	Report No.	Operate State
1	61110205	Normal Mode
		Normal Mode / 1-5GHz
2	T121015D01	Normal Mode
		Normal Mode / 1-5GHz

Conduction: Mode 1
Radiation: Mode 1

3.2. EUT SYSTEM OPERATION

1. Windows XP boots system.
2. Run Emctest.exe to activate all peripherals and display “H” pattern on monitor screen.
3. Run windows media player to play music.
4. Run Winemc.exe and choose “E:/ & F:/ & G:/ & H:/” to test USB 2.0 port.
5. Press the start menu, select executive and type ping 192.168.0.1–t (EUT), ping 192.168.0.100 –t (Server Notebook).
6. Press the start menu, select executive and type ping 192.168.0.2–t (EUT), ping 192.168.0.110 –t (Server PC).

Note: Test program is self-repeating throughout the test.

4 SETUP OF EQUIPMENT UNDER TEST

4.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

EUT Devices:

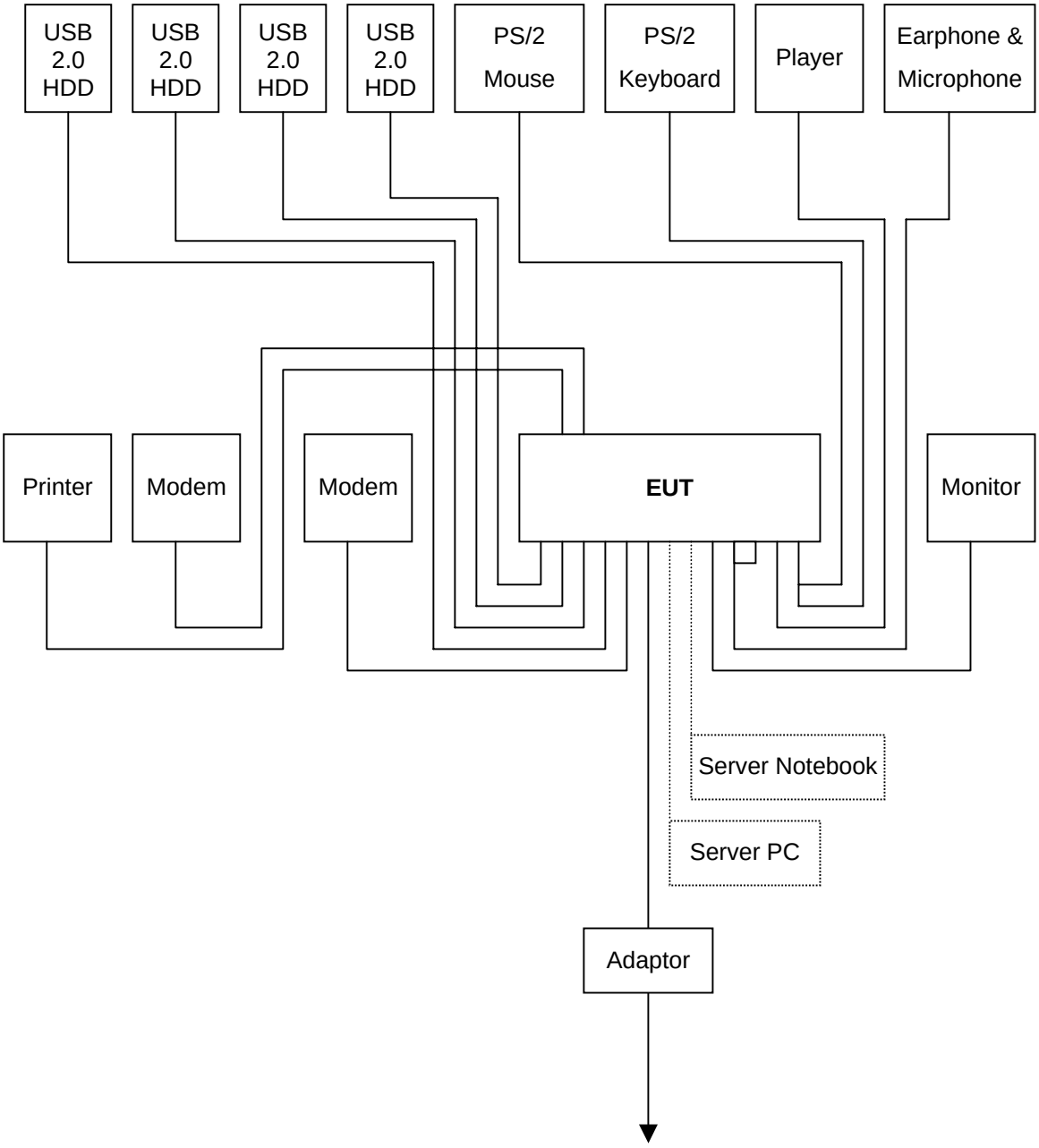
No.	Equipment	Model No.	Trade Name
1	CPU (500MHz)	Geode-LX	AMD
2	Memory (DDR333 / 512MB)	DD5116ADTA-6B-E	ELPIDA SINGAPORE
3	CF Card (2GB)	N/A	Industrial
4	Power Adaptor	EA1050A-120	EDAC

Peripherals Devices:

No.	Equipment	Model No.	Serial No.	FCC ID/ BSMI ID	Trade Name	Data Cable	Power Cord
1	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
2	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
3	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
4	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
5	PS/2 Mouse	M071KC	443029438	DOC BSMI: R41108	DELL	Shielded, 1.8m	N/A
6	PS/2 Keyboard	SK-8110	N/A	DOC BSMI: T3A002	DELL	Shielded, 1.8m	N/A
7	Player	RQ-L317	N/A	N/A	PANASONIC	Unshielded, 2.0m	N/A
8	Earphone & Microphone	MSB301	N/A	N/A	e-Sense	Unshielded, 2.0m	N/A
9	Printer	C60	N/A	BSMI ID: 3902E006	EPSON	Shielded, 1.8m	Unshielded, 1.8m
10	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP-SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
11	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP-SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
12	Monitor	710V	GS17H9NXA05853A	DOC BSMI: R33475	SAMSUNG	Shielded, 1.8m with two cores	Unshielded, 1.8m
13	Server Notebook	PP05L	2464936188	DOC BSMI: R33002	DELL	Unshielded, 20m	Unshielded, 1.8m
14	Server PC	DCNE	CV8DH1S	DOC BSMI: R33002	DELL	Unshielded, 20m	Unshielded, 1.8m

Note:
1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.2. CONFIGURATION OF SYSTEM UNDER TEST



5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at CCSrf Taiwan Xindian Lab. at No.163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, 23151 Taiwan.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4 and CISPR 16-1-5.

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan	TAF
USA	A2LA

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	Industry Canada
Norway	Nemko
Japan	VCCI
Taiwan	BSMI
USA	FCC

Copies of granted accreditation certificates are available for downloading from our web site, http:///www.ccsrf.com

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency		Uncertainty
Conducted emissions	9kHz ~ 30MHz		± 3.4510
Radiated emissions	Horizontal	30MHz ~ 200MHz	± 4.3799
		200MHz ~ 1000MHz	± 4.5147
	Vertical	30MHz ~ 200MHz	± 4.5015
		200MHz ~ 1000MHz	± 4.5073
	1000MHz ~ 18000MHz		± 1.9900
	18000MHz ~ 26000MHz		± 2.6500
	26000MHz ~ 40000MHz		± 2.9700

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22: 2005, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.

6 CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

NOTE:
(1) The lower limit shall apply at the transition frequencies.
(2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
(3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

6.2. TEST INSTRUMENTS

Conducted Emission room # B				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
TEST RECEIVER	R&S	ESHS10	843743/015	03/28/2007
LISN (EUT)	EMCO	3825/2	9106-1810	01/09/2007
LISN	EMCO	3825/2	1382	01/09/2007
BNC CABLE	MIYAZAKI	5D-FB	BNC B1	07/13/2007
Pulse Limiter	R&S	ESH3-Z2	100374	08/24/2007
THERMO-HYGRO METER	TOP	HA-202	9303-3	02/22/2007
Test S/W	EMI 32.exe			

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. N.C.R = No Calibration Request.

6.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

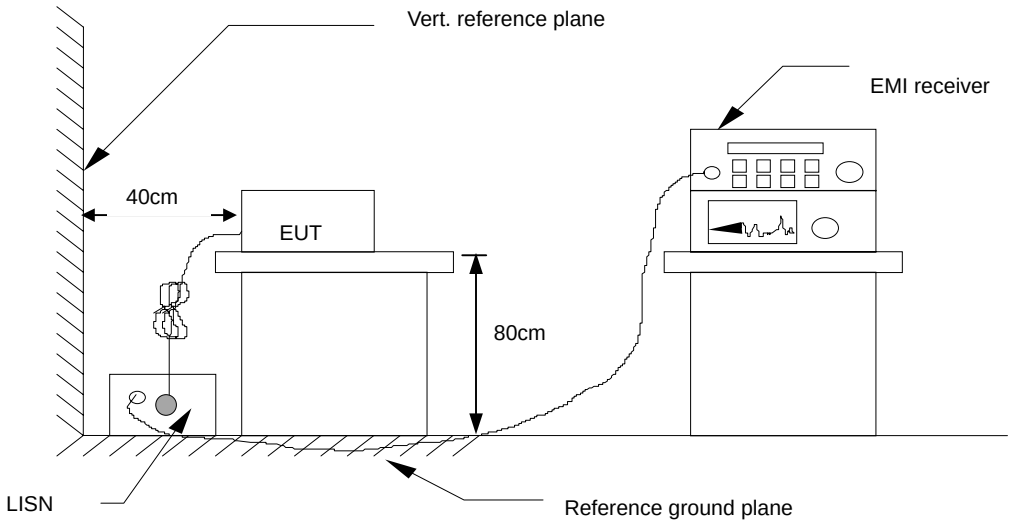
Procedure of Preliminary Test

- The EUT and Support equipment, if needed, was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed received AC main power, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane.
- All support equipment power received from a second LISN.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
- The test data of the worst-case condition(s) was recorded.

6.4. TEST SETUP



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

6.5. DATA SAMPLE

Freq. MHz	Read Level dBuV	Factor dB	Level dBuV	Limit dBuV	Over Limit dB	Reading Type (P/Q/A)	Line (L1/L2)
x.xx	42.95	0.55	43.50	73	-29.50	Q	L1

Freq. = Emission frequency in MHz
Read Level = Uncorrected Analyzer/Receiver reading
Factor = Insertion loss of LISN + Cable Loss
Level = Read Level + Factor
Limit = Limit stated in standard
Over Limit = Reading in reference to limit
P = Peak Reading
Q = Quasi-peak Reading
A = Average Reading
L1 = Hot side
L2 = Neutral side

Calculation Formula

Over Limit (dB) = Level (dBuV) – Limit (dBuV)

6.6. TEST RESULTS

Model No.	TF-GENE-5315-A11	**6dB BANDWIDTH**	10 KHz
Environmental Conditions	23deg.C, 56% RH, 1009 hPa	**Test Mode**	Mode 1
Tested by	Stanley Cheng		

(The chart below shows the highest readings taken from the final data.)

Six Highest Conducted Emission Readings							
Frequency Range Investigated				**150 KHz to 30 MHz**			
Freq (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Reading Type (P/Q/A)	Line (L1/L2)
0.173	**43.21**	**9.96**	**53.17**	**79.00**	**-25.83**	**P**	**L1**
0.234	**34.78**	**9.93**	**44.71**	**79.00**	**-34.29**	**P**	**L1**
12.582	**28.57**	**10.24**	**38.81**	**73.00**	**-34.19**	**P**	**L1**
15.307	**26.72**	**10.30**	**37.02**	**73.00**	**-35.98**	**P**	**L1**
0.172	**40.43**	**9.98**	**50.42**	**79.00**	**-28.58**	**P**	**L2**
0.230	**33.92**	**9.93**	**43.85**	**79.00**	**-35.15**	**P**	**L2**

NOTE: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)
2. The emission level was or more than 2dB below the Average limit, so no re-check anymore.

7 RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

Below 1GHz (for digital device)

FREQUENCY (MHz)	dBuV/m (At 10m)	
	Class A	Class B
30 ~ 230	40	30
230 ~ 1000	47	37

Limit tables for non-digital device:

Class A Radiated Emission limit at 10m (for others)

Frequency (MHZ)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	90	39
88 - 216	150	43.5
216 – 960	210	46.4
Above 960	300	49.5

Class B Radiated Emission limit at 3m (for others)

Frequency (MHZ)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	100	40
88 - 216	150	43.5
216 – 960	200	46
Above 960	500	54

Above 1GHz(for all device)

Frequency (MHZ)	Class A (dBuV/m) (At 10m)		Class B (dBuV/m) (At 3m)	
	Average	Peak	Average	Peak
Above 1000	49.5	69.5	54	74

NOTE: 1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. The measurement above 1GHz is at close-in distances 3m,and determine the limit **L_2** corresponding to the close-in distance **d_2** by applying the following relation: **$L_2 = L_1 (d_1/d_2)$**, where **L_1** is the specified limit in microvolts per metre (**uV/m**) at the distance **d_1** (**10m**), **L_2** is the new limit for distance **d_2** (**3m**).
So the new Class A limit above 1GHz at 3m is as following table:

Frequency (MHZ)	Class A (dBuV/m) (At 3m)	
	Average	Peak
Above 1000	60	80

According to FCC Part 15.33 (b), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.75	30
1.75-108	1000
108-500	2000
500-1000	5000
Above 1000	5^{th} harmonic of the highest frequency or 40GHz, whichever is lower

7.2. TEST INSTRUMENTS

Open Area Test Site # I				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
SITE NSA	CCS	I Site	N/A	10/13/2007
MEASURE RECEIVER	SCHAFFNER	SCR3501	338	07/02/2007
SPECTRUM ANALYZER	ADVANTEST	R3132	120900008	No Calibration Required
ANTENNA	SCHAFFNER	CBL 6112B	2809	09/22/2007
AMPLIFIER	SCHAFFNER	CPA9231A	3626	10/10/2007
CABLE	BELDEN	9913	N-TYPE #I2	02/17/2007
ATTENUATOR	MCL	UNAT-6	AT06-3	10/10/2007
THERMO-HYGRO METER	TFA	N/A	NO.2	10/26/2007
Test S/W	LAB VIEW 7.1			
Above 1GHz Used				
EMC ANALYZER (100Hz-22GHz)	HP	8566B	2937A06102	06/29/2007
ANTENNA (1-18GHz)	EMCO	3115	00022256	01/12/2007
AMPLIFIER (1-18GHz)	HP	8449B	3008A01266	02/06/2007
CABLE (1-18GHz)	JYEBAO	LL142	SMA#RS1	02/06/2007
CABLE (1-18GHz)	HUBER +SUHNER	SUCOFLEX 104	SMA#RS3	02/06/2007
CABLE (1-18GHz)	JYEBAO	LL142	SMA#C1	02/06/2007

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.

7.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

Procedure of Preliminary Test

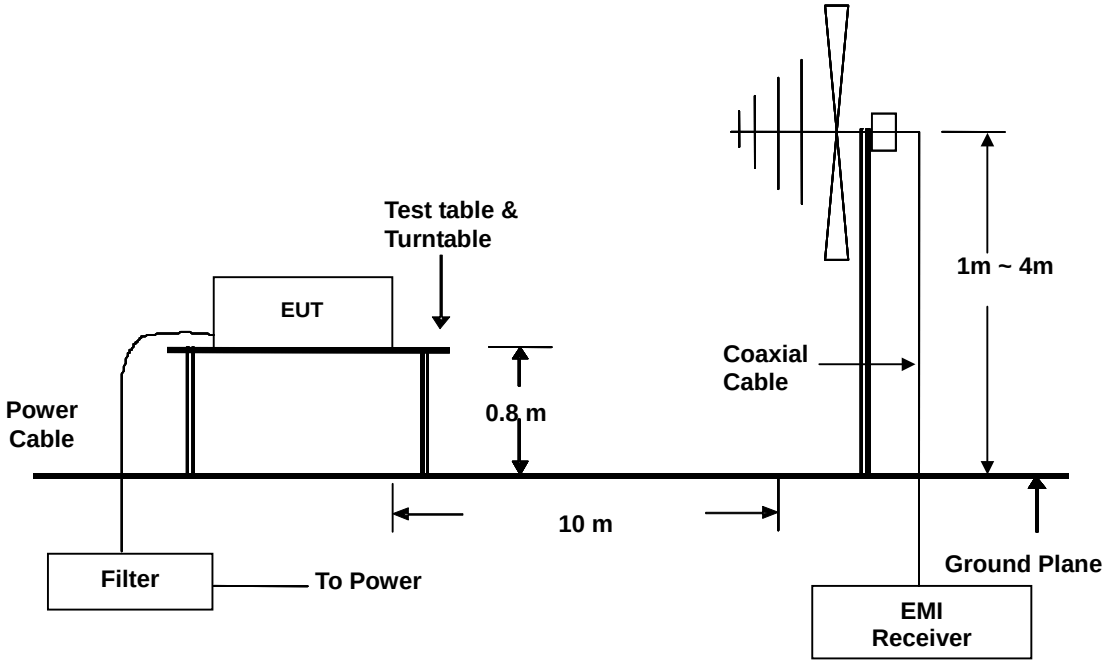
- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC 120VAC/60Hz power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- The antenna was placed at 3 or 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 40GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

Procedure of Final Test

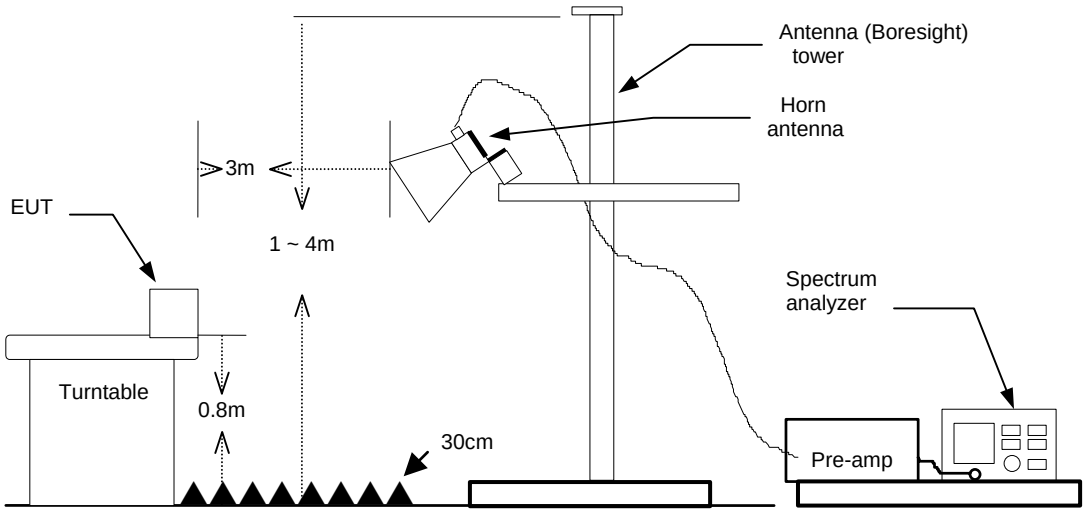
- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 40GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recording at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. Below 1GHz the Q.P. reading and above 1GHz the Peak and Average reading are presented.
- The test data of the worst-case condition(s) was recorded.

7.4. TEST SETUP

Below 1GHz



Above 1GHz



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

7.5. DATA SAMPLE

Below 1GHz

Freq. MHz	Read Level dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Over Limit dB	Reading Type (P/Q/A)	Pol. (H/V)
x.xx	14.0	12.2	26.2	40	-13.8	Q	H

Above 1GHz

Freq. MHz	Read Level dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Over Limit dB	Reading Type (P/Q/A)	Pol. (H/V)
x.xx	42.95	0.55	43.50	60	-16.50	A	H

Freq. = Emission frequency in MHz
Read Level = Uncorrected Analyzer/Receiver reading
Factor = Antenna Factor + Cable Loss + Attenuator (3/6/10dB) – Amplifier Gain
Level = Read Level + Factor
Limit = Limit stated in standard
Over Limit = Reading in reference to limit
P = Peak Reading
Q = Quasi-peak Reading
A = Average Reading
H = Antenna Polarization: Horizontal
V = Antenna Polarization: Vertical

Calculation Formula

Over Limit (dB) = Level (dBuV/m) – Limit (dBuV/m)

7.6. TEST RESULTS

Below 1GHz

Model No.	TF-GENE-5315-A11	**Test Mode**	Mode 1
Environmental Conditions	25deg.C, 61% RH, 1009 hPa	**6dB BANDWIDTH**	120 KHz
Antenna Pole	Vertical / Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested by**	Stanley Cheng

(The chart below shows the highest readings taken from the final data.)

Six Highest Radiated Emission Readings							
Frequency Range Investigated				**30 MHz to 1000 MHz at 10m**			
Freq (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Reading Type (P/Q/A)	Pol. (H/V)
133.290	**44.50**	**-9.14**	**35.37**	**40.00**	**-4.64**	**Q**	**V**
176.300	**45.30**	**-10.29**	**35.01**	**40.00**	**-4.99**	**Q**	**V**
182.830	**46.70**	**-10.48**	**36.22**	**40.00**	**-3.78**	**Q**	**V**
208.930	**46.30**	**-10.46**	**35.84**	**40.00**	**-4.16**	**Q**	**V**
215.480	**46.50**	**-9.97**	**36.53**	**40.00**	**-3.47**	**Q**	**V**
480.030	**41.50**	**-0.48**	**41.02**	**47.00**	**-5.98**	**Q**	**V**

(The chart below shows the highest readings taken from the final data.)

Six Highest Radiated Emission Readings							
Frequency Range Investigated				**30 MHz to 1000 MHz at 10m**			
Freq (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Reading Type (P/Q/A)	Pol. (H/V)
166.630	**47.10**	**-10.08**	**37.02**	**40.00**	**-2.98**	**Q**	**H**
176.300	**46.40**	**-10.29**	**36.11**	**40.00**	**-3.89**	**Q**	**H**
182.830	**46.90**	**-10.48**	**36.42**	**40.00**	**-3.58**	**Q**	**H**
208.908	**45.90**	**-10.47**	**35.44**	**40.00**	**-4.57**	**Q**	**H**
215.443	**46.00**	**-9.97**	**36.03**	**40.00**	**-3.97**	**Q**	**H**
480.080	**42.50**	**-0.48**	**42.02**	**47.00**	**-4.98**	**Q**	**H**

REMARKS: 1. 30MHz to 1000MHz test is Applicable CISPR 22 / EN 55022 standard.
2. The other emission levels were very low against the limit.
3. P= Peak Reading; Q= Quasi-peak Reading A= Average Reading

Above 1GHz

Model No.	TF-GENE-5315-A11	**Test Mode**	Mode 1
Environmental Conditions	26deg.C, 60% RH, 1003 hPa	**6dB Bandwidth**	1 MHz
Antenna Pole	Vertical / Horizontal	**Antenna Distance**	3m
Highest frequency generated or used	500MHz	**Upper frequency**	5000MHz
Detector Function	Peak and average.	**Tested by**	Stanley Cheng

Radiated Emission Readings							
Frequency Range Investigated				**Above 1GHz at 3m**			
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/A)	Pol. (H/V)
1001.500	**55.00**	**-10.49**	**44.51**	**80.00**	**-35.49**	**P**	**V**
1043.500	**53.70**	**-10.27**	**43.43**	**80.00**	**-36.57**	**P**	**V**
1108.000	**53.40**	**-9.98**	**43.42**	**80.00**	**-36.58**	**P**	**V**
1172.500	**49.70**	**-9.69**	**40.01**	**80.00**	**-39.99**	**P**	**V**
1238.500	**49.50**	**-9.39**	**40.12**	**80.00**	**-39.89**	**P**	**V**
2822.500	**45.40**	**-1.72**	**43.68**	**80.00**	**-36.32**	**P**	**V**

Radiated Emission Readings							
Frequency Range Investigated				**Above 1GHz at 3m**			
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/A)	Pol. (H/V)
1001.500	**55.00**	**-10.49**	**44.51**	**80.00**	**-35.49**	**P**	**H**
1043.500	**53.20**	**-10.27**	**42.93**	**80.00**	**-37.07**	**P**	**H**
1108.000	**52.60**	**-9.98**	**42.62**	**80.00**	**-37.38**	**P**	**H**
1232.500	**49.90**	**-9.41**	**40.49**	**80.00**	**-39.51**	**P**	**H**
2537.500	**43.70**	**-2.89**	**40.81**	**80.00**	**-39.19**	**P**	**H**
2912.500	**45.80**	**-1.36**	**44.44**	**80.00**	**-35.56**	**P**	**H**

Note: 1. The other emission levels were very low against the limit.
2. P= Peak Reading; A= Average Reading.

8 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST

RADIATED EMISSION TEST