SPORTON LAB.

Certificate No: FD482159

CERTIFICATE OF COMPLIANCE

Authorized under Declaration of Conformity
according to
47 CFR,Part 2 and Part 15 of the FCC Rules

Testing Laboratory
1190

EQUIPMENT : IPC Bare Bone System
MODEL NO. : NF9QUXX-YYYY
(X & Y Stands for "0~9", "A~Z")
HBJC5WWF9QUXX-YYYY-ZZ
(W, X, Y & Z Stands for "0~9", "A~Z")
APPLICANT : Jetway Information Co., Ltd.
9F., No. 207, Sec. 3, Beixin Rd., Xindian Dist.,
New Taipei City 231, Taiwan (R.O.C.)

SPORTON LAB.

I HEREBY CERTIFY THAT:

The equipment is in accordance with the procedures are given in **ANSI C63.4-2009** and the energy emitted by this equipment was **Pass CISPR PUB. 22 and FCC Part 15 Subpart B** in both radiated and conducted emissions **Class B** limits. The test was carried out on **Sep. 03, 2014** SPORTON INTERNATIONAL INC. LAB.

Kero Kuo

Kero Kuo
Assistant Manager

FCC TEST REPORT

Authorized under **D**eclaration **o**f **C**onformity

according to

47 CFR FCC Rules and Regulations Part 15 Subpart B,
Class B Digital Device

Equipment : IPC Bare Bone System

Model No. : JNF9QUXX-YYYY
(X & Y Stands for "0~9", "A~Z")
HBJC5WWF9QUXX-YYYY-ZZ
(W, X, Y & Z Stands for "0~9", "A~Z")

Filing Type : Declaration of Conformity

Applicant : Jetway Information Co., Ltd.
9F., No. 207, Sec. 3, Beixin Rd., Xindian Dist.,
New Taipei City 231, Taiwan (R.O.C.)

- The test result refers exclusively to the test presented test model / sample.
- Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.
- **Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by TAF or any agency of U.S. government.**

SPORTON International Inc.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

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History of this test report

Original Report Issue Date: Sep. 29, 2014

■ No additional attachment.

□ Additional attachment were issued as following record:

Report No.	Issue Date	Description

Certificate No. : FD482159

CERTIFICATE OF COMPLIANCE

Authorized under Declaration of Conformity

according to

47 CFR FCC Rules and Regulations Part 15 Subpart B, Class B Digital Device

Equipment : IPC Bare Bone System

Model No. : JNF9QUXX-YYYY
(X & Y Stands for "0~9", "A~Z")
HBJC5WWF9QUXX-YYYY-ZZ
(W, X, Y & Z Stands for "0~9", "A~Z")

Applicant : Jetway Information Co., Ltd.
9F., No. 207, Sec. 3, Beixin Rd., Xindian Dist.,
New Taipei City 231, Taiwan (R.O.C.)

I **HEREBY** CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 - 2009** and the energy emitted by this equipment were ***passed*** **CISPR PUB. 22** and **FCC Part 15 Subpart B** in both radiated and conducted emission **Class B** limits.

The product sample received on **Aug. 27, 2014** and completely tested on **Sep. 03, 2014** at **SPORTON International Inc.** LAB.

Kero Kuo
Assistant Manager

SPORTON International Inc.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

1. General Description of Equipment under Test

1.1 Applicant

Jetway Information Co., Ltd.

9F., No. 207, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)

1.2 Manufacturer

Same as 1.1

1.3 Basic Description of Equipment under Test

Equipment	:	IPC Bare Bone System
Model No.	:	JNF9QUXX-YYYY (X & Y Stands for "0~9", "A~Z") HBJC5WWF9QUXX-YYYY-ZZ (W, X, Y & Z Stands for "0~9", "A~Z")
Power Supply Type	:	From Adapter (switching)
AC Power Cord	:	Non-Shielded, 1.85 m, 3 pin
DC Power Cord	:	B-Shielded, 1.8 m

The maximum operating frequency : 3.2GHz

1.4 Feature of Equipment under Test

Please refer to user's manual

2. Test Configuration of Equipment under Test

2.1 Test Manner

a. The EUT has been associated with peripherals pursuant to ANSI C63.4-2009 and configuration operated in a manner which tended to maximize its emission characteristics in a typical application.

b. The complete test system included LCD Monitor*2, Keyboard*1, Mouse*1, Modem*2, Printer*1, Headset*1, USB 3.0 Flash Disk*1, Remote workstation: PC*2, LCD Monitor*2, Keyboard*2, Mouse*2 and EUT for EMI test.

Test Items	Function Type
AC Conducted Emission	Mode 1. R/W,DVI+VGA:1920*1200,LAN:1G*2 Mode 2. R/W,HDMI:1920*1080,LAN:1G*2 Mode 3. R/W,HDMI:1680*1050,LAN:100M*2 The following test mode was referred to pretest worst case “Mode 2” for final test.
Radiated Emissions Below 1GHz	Mode 1. R/W,DVI+VGA:1920*1200,LAN:1G*2 Mode 2. R/W,HDMI:1920*1080,LAN:1G*2 Mode 3. R/W,HDMI:1680*1050,LAN:100M*2 The following test mode was referred to pretest worst case “Mode 2” for final test.
Radiated Emissions Above 1GHz	Mode 1. R/W,DVI+VGA:1920*1200,LAN:1G*2

c. Frequency range investigated: Conducted 150 kHz to 30 MHz, Radiated 30 MHz to 16,000 MHz.

2.2 Description of Test System

<For conducted emission and Radiated emission below 1GHz >

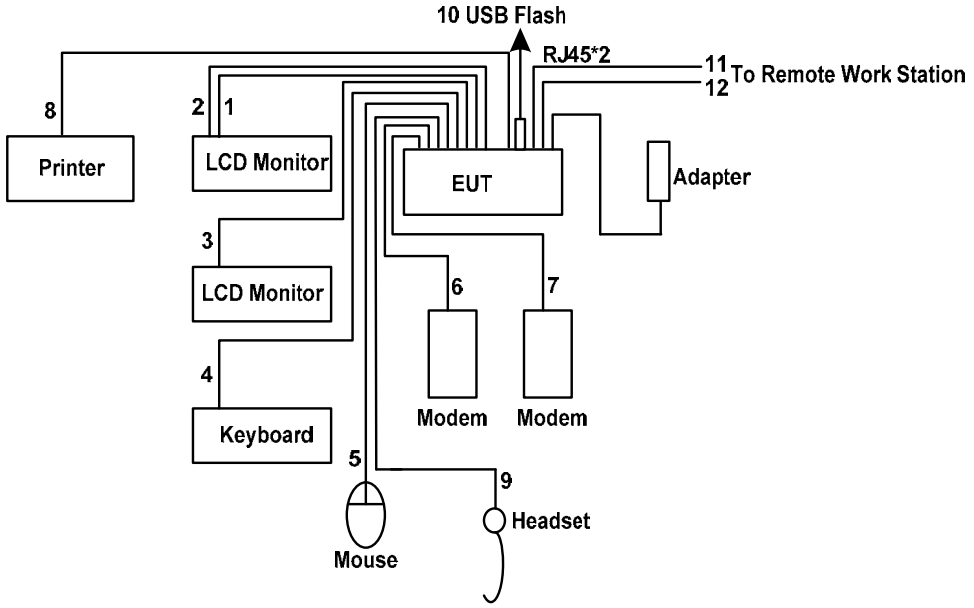
No.	Description	Manufacturer	Model	FCC ID	Signal Cable Description
Remote					
1	LCD MONITOR"24"	DELL	U2410F	DoC	D-sub Cable, D-Shielded, 1.8m
					HDMI Cable, D-Shielded, 1.5m
2	LCD MONITOR"24"	DELL	U2410F	DoC	DVI Cable, D-Shielded, 1.8m
3	Keyboard	Lenovo	KU-0225	DoC	USB Cable, AL-F-Shielded, 1.8m
4	MOUSE	Lenovo	M-U0025-O	DoC	USB Cable, AL-F-Shielded, 1.8m
5	Modem *2	ACEEX	DM1414	IFAXDM1414	RS-232 Cable, D-Shielded, 1.15m
6	Printer	XEROX	PHASER3121	DoC	USB Cable, D-Shielded, 1.8m
7	Headset	i-Acon	HOH-323-BK	N/A	Audio Cable, Non-Shielded, 2.0m
8	USB 3.0 FLASH DISK	PQI	U273V	DoC	-
For Remote					
9	PC *2	Lenovo	C61	DoC	-
10	LCD MONITOR"19"*2	DELL	E198WFPF	DoC	D-SUB Cable, D-Shielded, 1.8m
11	Keyboard *2	Lenovo	KU-0225	DoC	USB Cable, AL-F-Shielded, 1.8m
12	MOUSE *2	Lenovo	M-U0025-O	DoC	USB Cable, AL-F-Shielded, 1.8m

<Radiated emission above 1GHz >

No.	Description	Manufacturer	Model	FCC ID	Signal Cable Description
Remote					
1	LCD MONITOR"24"	DELL	2408WFPB	DoC	D-sub Cable, D-Shielded, 1.8m
					HDMI Cable, D-Shielded, 1.5m
2	LCD MONITOR"24"	DELL	U2410f	DoC	DVI Cable, D-Shielded, 1.8m
3	Keyboard	DELL	SK-8175	DoC	USB Cable, AL-F-Shielded, 1.8m
4	MOUSE	DELL	MOC5UO	DoC	USB Cable, AL-F-Shielded, 1.8m
5	Modem *2	ACEEX	DM1414	IFAXDM1414	RS-232 Cable, D-Shielded, 1.15m
6	Printer	EPSON	C61	N/A	USB Cable, D-Shielded, 1.8m
7	Headset	INTOPIC	JAZZ-368	N/A	Audio Cable, Non-Shielded, 2.0m
8	USB 3.0 FLASH DISK	PHILIPS	FM08FD75B	DoC	-
For Remote					
9	PC *2	HP	DC7700	DoC	-
10	LCD MONITOR"24"*2	DELL	2408WFPB	DoC	D-SUB Cable, D-Shielded, 1.8m
11	Keyboard *2	Microsoft	1366	DoC	USB Cable, AL-F-Shielded, 1.8m
12	MOUSE *2	Microsoft	1113	DoC	USB Cable, AL-F-Shielded, 1.8m

2.3 Connection Diagram for Conducted Emission Test and Radiation Emission

Test Setup Diagram



1. D-sub Cable was connected from support unit 1 to EUT.
2. HDMI Cable was connected from support unit 1 to EUT.
3. DVI Cable was connected from support unit 2 to EUT.
4. USB Cable was connected from support unit 3 to EUT.
5. USB Cable was connected from support unit 4 to EUT.
6. RS-232 Cable was connected from support unit 5 to EUT.
7. RS-232 Cable was connected from support unit 5 to EUT.
8. USB Cable was connected from support unit 6 to EUT.
9. Audio Cable was connected from support unit 7 to EUT.
10. USB Flash was plugged into EUT.
11. RJ45 Cable was connected from EUT to remote work station.
12. RJ45 Cable was connected from EUT to remote work station.

Note: Above support unit on behalf of the meaning, please refer to section 2.2.

3. Test Software

<EMI>

Conduction & Radiated Test :

One executive program was used as the test software under Win 7.

The programs were executed as follows:

a. EUT conducted “EMI program” to drive peripheral printer and modem.
b. The printer printed “H” patterns out.
c. EUT conducted “WINTHRAX” to do read/write function with USB Flash.
d. EUT conducted “Media player” to play audio signal from headset.
e. EUT conducted “Sound Recorder” to record audio signal from headset.
f. EUT conducted “MyHwin” to send “H” messages to the monitor and the monitor displayed “H” patterns.
g. EUT conducted “PING” to maintain connection with remote PC via LAN.

4. General Information of Test

4.1 Test Facility

For conducted emission

Test Site Location : No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei 114, Taiwan, R.O.C.
TEL : 886-2-2631-4739
FAX : 886-2-2631-9740

Test Site No. : CO01-NH

For radiated emission below 1GHz

Test Site Location : No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei 114, Taiwan, R.O.C.
TEL : 886-2-2631-4739
FAX : 886-2-2631-9740

Test Site No. : OS02-NH

For radiated emission above 1GHz

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
TEL : 886-3-327-3456
FAX : 886-3-327-0973

Test Site No. : 03CH04-HY

4.2 Uncertainty of Test Site

Test Items	Test Site No.	Uncertainty	Remark
Conducted Emissions	CO01-NH	± 2.6dB	Confidence levels of 95%
Radiated Emissions below 1GHz	OS02-NH	± 3.0dB	Confidence levels of 95%
Radiated Emissions above 1GHz	03CH04-HY	± 4.7dB	Confidence levels of 95%

4.3 Test Voltage

120V / 60Hz

4.4 Standard for Methods of Measurement

ANSI C63.4-2009

4.5 Test in Compliance with

CISPR PUB. 22 and FCC Part 15 Subpart B

4.6 Frequency Range Investigated:

a. Conducted emission test: from 150 kHz to 30 MHz
b. Radiated emission test: from 30 MHz to 16,000 MHz

4.7 Test Distance

a. The test distance of radiated emission from antenna to EUT is 10 M (from 30MHz ~ 1GHz)
b. The test distance of radiated emission from antenna to EUT is 3 M (from 1GHz ~ 9GHz)
c. The test distance of radiated emission from antenna to EUT is 1 M (from 9GHz ~ 16GHz)

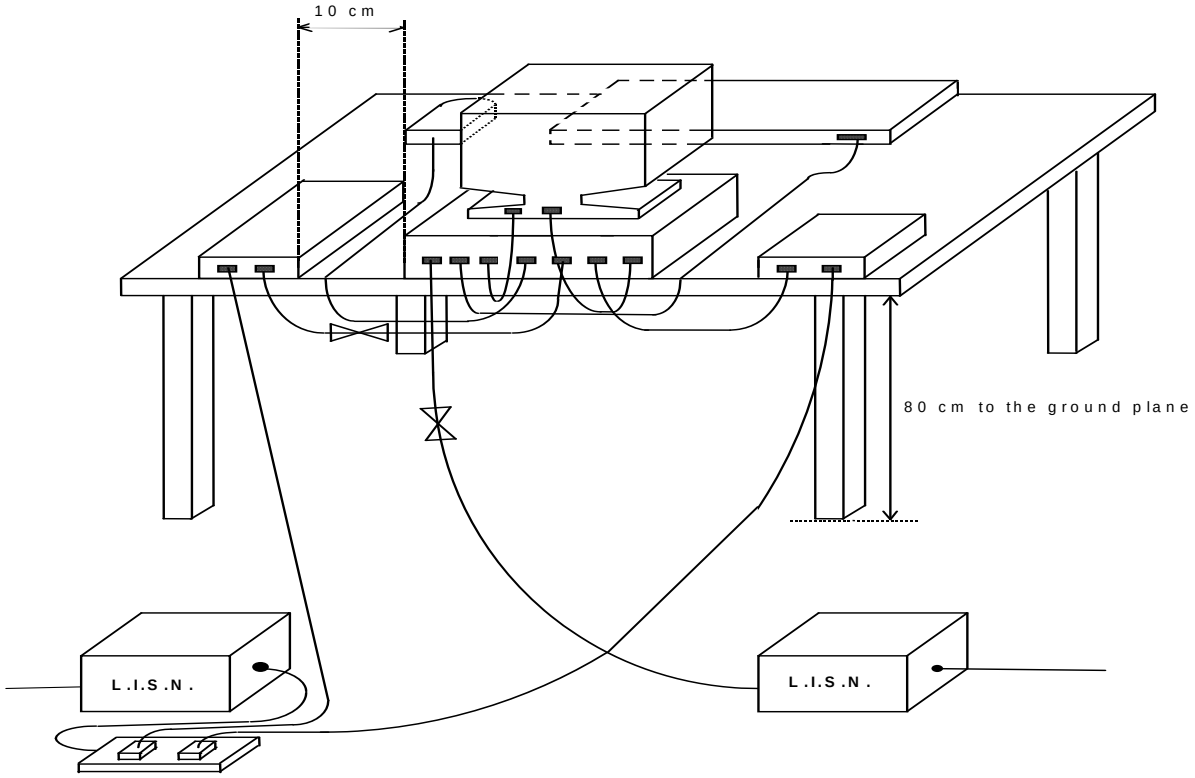
5. Test of Conducted Powerline

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 kHz and return leads of the EUT according to the methods defined in ANSI C63.4, Clause 7. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 5.3. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position producing maximum conducted emissions.

5.1 Test Procedures

a. The EUT was warmed up for 15 minutes before testing started.
b. The EUT was placed on a desk 0.8 meters height from the metal ground plane and 0.4 meter from the conducting wall of the shielding room and it was kept at least 0.8 meters from any other grounded conducting surface.
c. Connect EUT to the power mains through a line impedance stabilization network (LISN).
d. All the support units are connected to the other LISN.
e. The LISN provides 50 ohm coupling impedance for the measuring instrument.
f. The CISPR states that a 50 ohm, 50 micro henry LISN should be used.
g. Both sides of AC line were checked for maximum conducted interference.
h. The frequency range from 150 kHz to 30 MHz was searched.
i. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

5.2 Typical Test Setup Layout of Conducted Powerline



a. AMN and ISN are 80 cm from the EUT and at least 80 cm from other units and other metal planes.
b. EUT is connected to one artificial mains network (AMN).
c. All other units of a system are powered from a second AMN. A multiple outlet strip can be used for multiple mains cords.
d. Rear of EUT to be flushed with rear of table top.
e. Peripherals shall be placed at a distance of 10 cm from each other and from the controller, except for the monitor which, if this is an acceptable installation practice, shall be placed directly on the top of the controller.
f. If cables, which hang closer than 40 cm to the horizontal metal ground plane, cannot be shortened to appropriate length, the excess shall be folded back and forth forming a bundle 30 cm to 40 cm long.
g. Mains cords and signal cables shall be positioned for their entire lengths, as far as possible, at 40 cm from the vertical reference plane.
h. Cables of hand operated devices, such as keyboards, mice, etc. shall be placed as for normal usage.

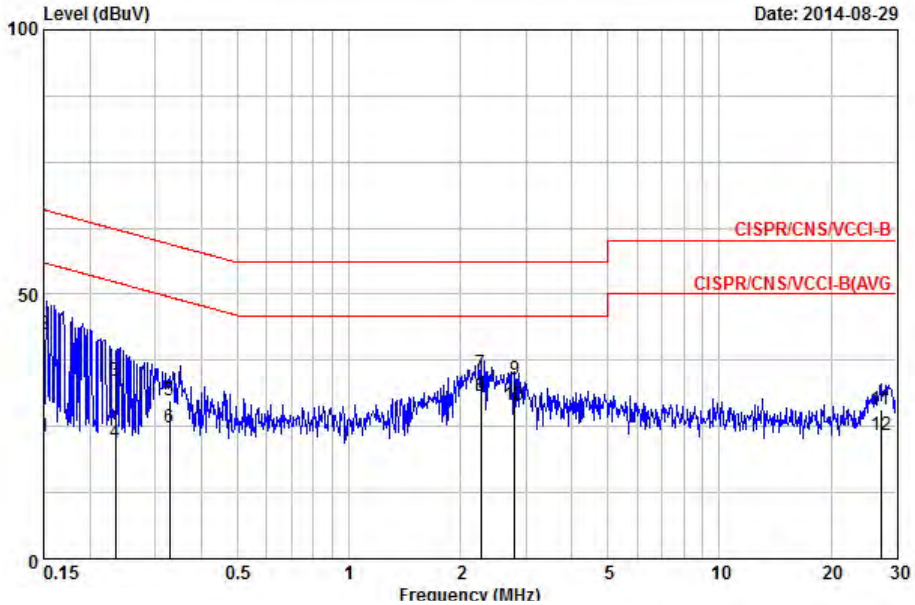
5.3 Test Result of AC Powerline Conducted Emission

Test Mode	Mode 2	Test Site No.	CO01-NH
Test Frequency	0.15 MHz ~ 30 MHz	Test Engineer	Willy
Temperature	27 ℃	Relative Humidity	54 %

Note: Corrected Reading (dBμV) = Probe Factor + Cable Loss + Read Level = Level

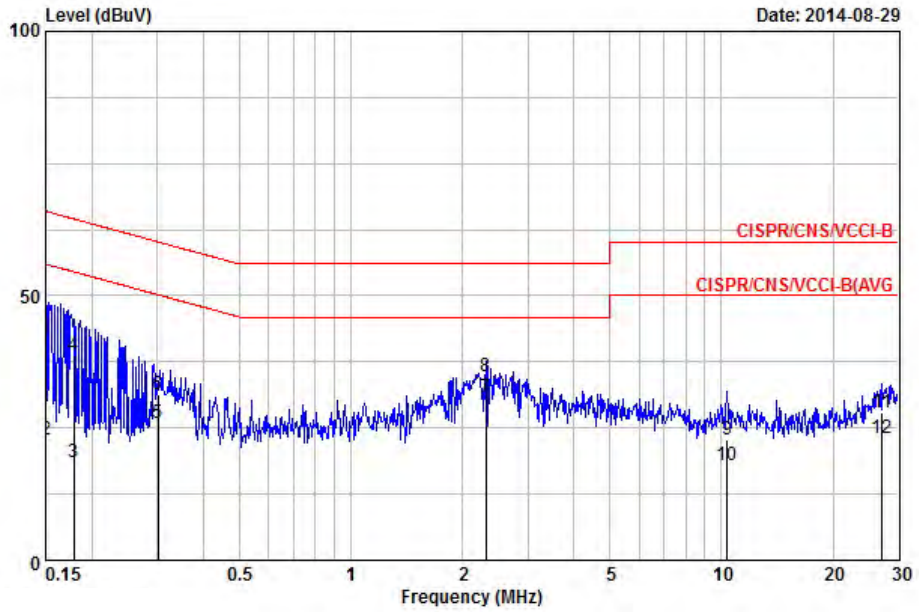
■The test was passed at the minimum margin that marked by the frame in the following data

Line



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.150	23.16	-32.84	56.00	12.49	10.58	0.09	AVERAGE
2	0.150	42.36	-23.64	66.00	31.69	10.58	0.09	QP
3	0.234	33.53	-28.78	62.31	22.88	10.54	0.10	QP
4	0.234	21.94	-30.37	52.31	11.29	10.54	0.10	AVERAGE
5	0.329	29.95	-29.54	59.49	19.34	10.51	0.10	QP
6	0.329	24.86	-24.63	49.49	14.25	10.51	0.10	AVERAGE
7	2.273	35.00	-21.00	56.00	24.32	10.56	0.12	QP
8	2.273	30.71	-15.29	46.00	20.03	10.56	0.12	AVERAGE
9	2.802	33.98	-22.02	56.00	23.26	10.57	0.15	QP
10	2.802	28.93	-17.07	46.00	18.21	10.57	0.15	AVERAGE
11	27.271	28.31	-31.69	60.00	16.88	11.03	0.40	QP
12	27.271	23.42	-26.58	50.00	11.99	11.03	0.40	AVERAGE

Neutral



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.150	42.21	-23.79	66.00	32.03	10.09	0.09	QP
2	0.150	22.90	-33.10	56.00	12.72	10.09	0.09	AVERAGE
3	0.179	18.44	-36.11	54.55	8.26	10.08	0.10	AVERAGE
4	0.179	38.81	-25.74	64.55	28.63	10.08	0.10	QP
5	0.302	25.84	-24.34	50.18	15.66	10.08	0.10	AVERAGE
6	0.302	31.33	-28.85	60.18	21.15	10.08	0.10	QP
7	2.309	30.78	-15.22	46.00	20.53	10.13	0.12	AVERAGE
8	2.309	34.66	-21.34	56.00	24.41	10.13	0.12	QP
9	10.342	22.89	-37.11	60.00	12.39	10.30	0.20	QP
10	10.342	17.86	-32.14	50.00	7.36	10.30	0.20	AVERAGE
11	27.127	27.96	-32.04	60.00	16.90	10.66	0.40	QP
12	27.127	23.06	-26.94	50.00	12.00	10.66	0.40	AVERAGE

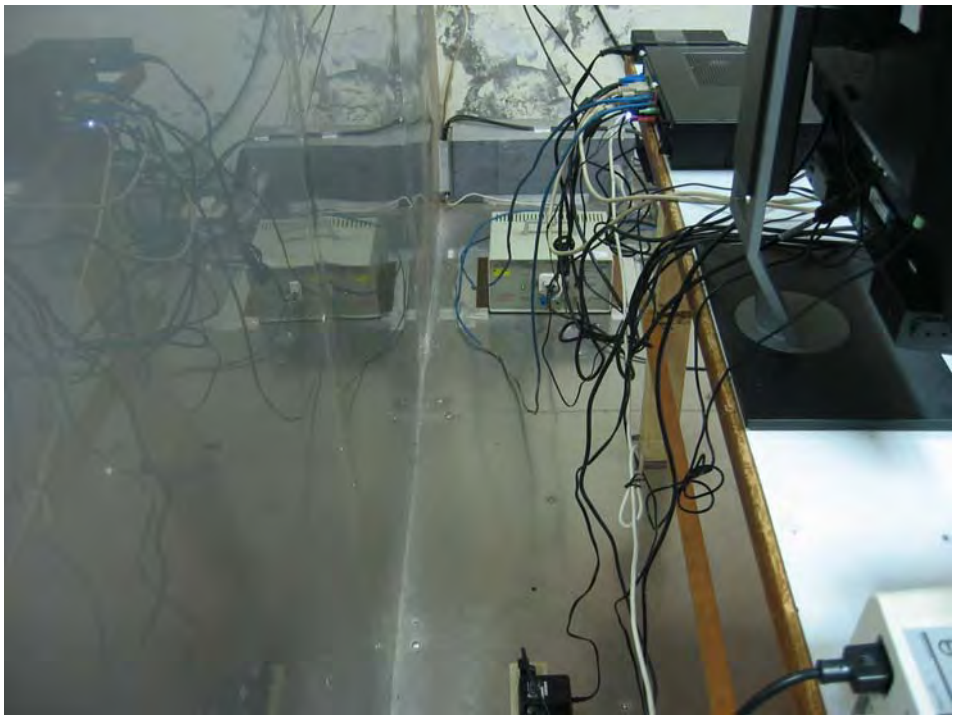
5.4 Photographs of Conducted Power line Test Configuration

- The photographs show the configuration that generates the maximum emission.

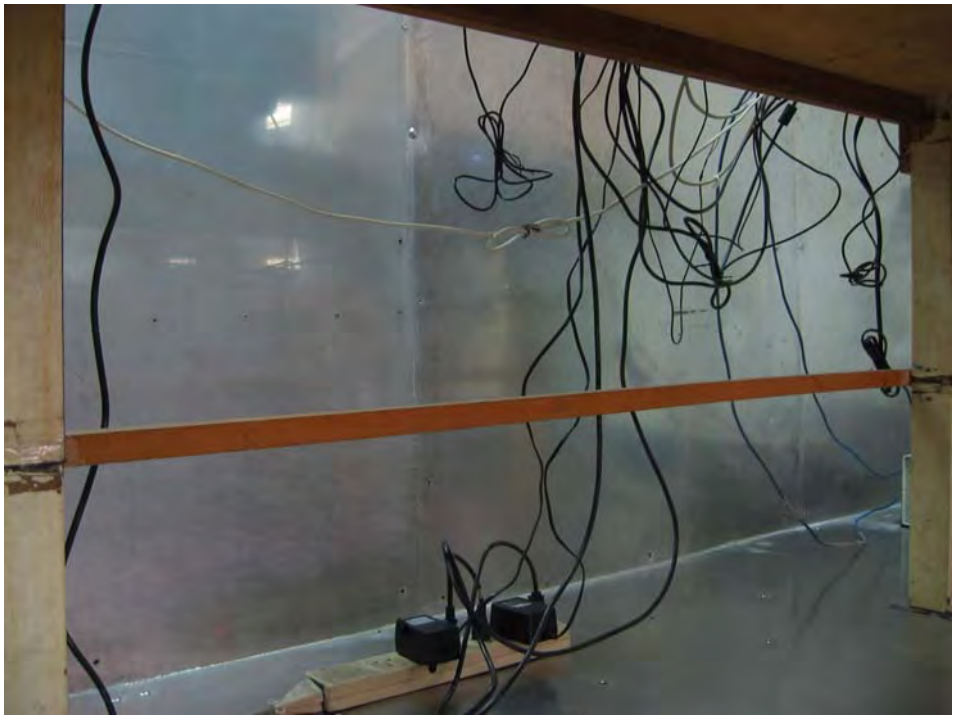
FRONT VIEW



REAR VIEW



SIDE VIEW



6. Test of Radiated Emission

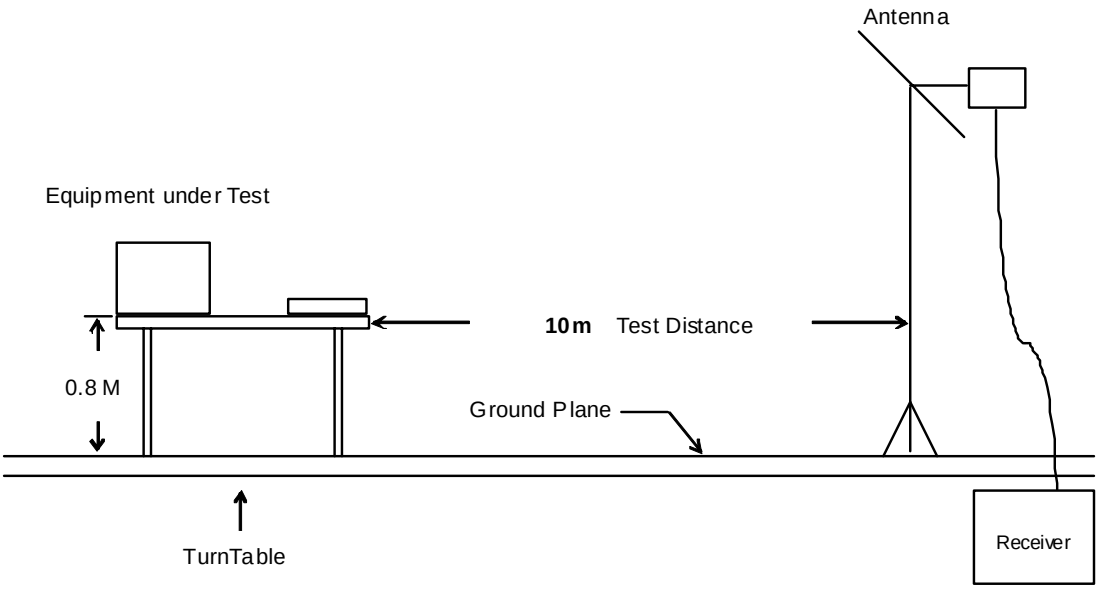
Radiated emissions below 1 GHz were measured with a bandwidth of 120 kHz for 30 MHz to 1,000 MHz and bandwidth of 1 MHz for above 1 GHz to 5th harmonic of highest frequency according to the methods defines in ANSI C63.4, Clause 8. The EUT was placed on a nonmetallic stand, 0.8 meter above the ground plane, as shown in section 6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

6.1 Test Procedures

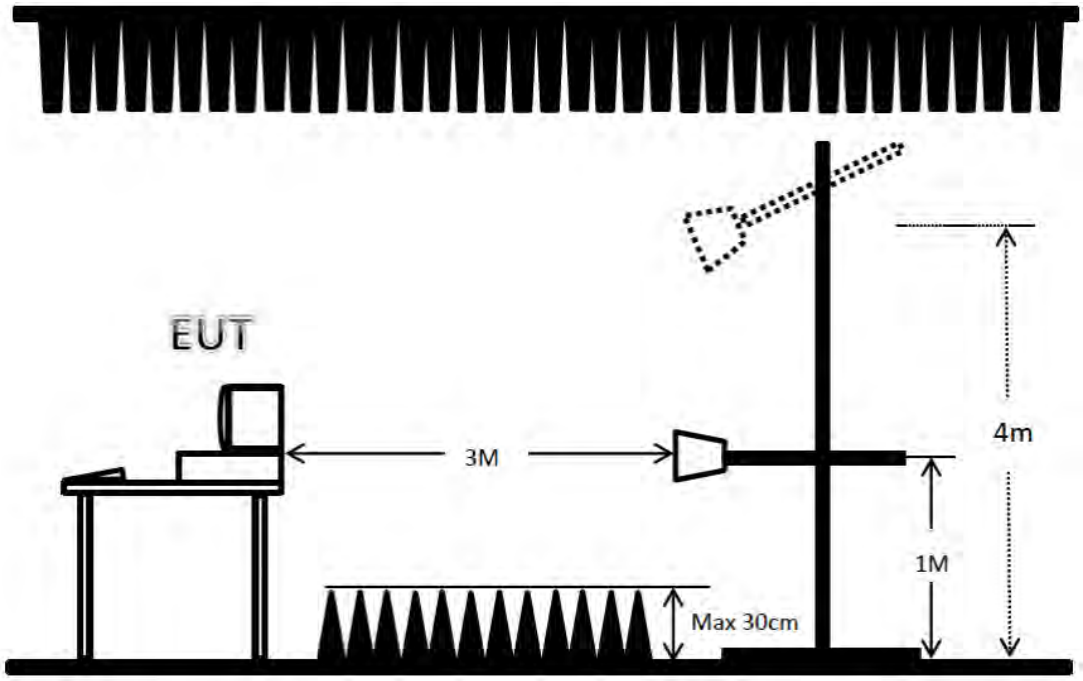
a. The EUT was placed on a rotatable table top 0.8 meter above ground.
b. The EUT was set 3/1m(above 1GHz)/10m(below 1GHz) from the interference-receiving antenna which was mounted on the top of a variable height antenna tower.
c. The table was rotated 360 degrees to determine the position of the highest radiation.
d. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
f. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
h. The FCC Part 15.109 (g) permit parties seeking to authorize a digital device to choose to demonstrate that the device complies with either the Part 15 standards or the international standards found in Publication 22 of the International Special Committee on Radio Interference (CISPR).
i. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
j. The main board was tested in accordance with section 15.32 of the FCC rules. Testing for radiated emissions was first performed with the main board installed in a typical enclosure but with the enclosure's cover removed so that the internal circuitry is exposed at the top and on at least two sides. And then the EUT was tested with enclosure's cover unless it pass the required limits at first condition.

6.2 Typical Test Setup Layout of Radiated Emission

< Below 1GHz >



< Above 1GHz >



6.3 Test Result of Radiated Emission (Below 1GHz)

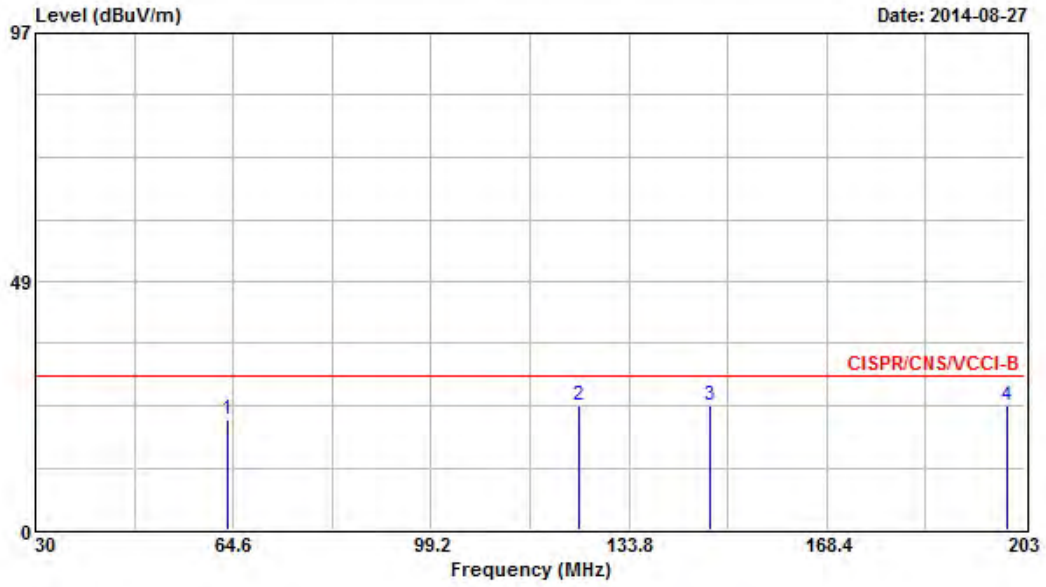
Test mode	Mode 2	Test Site No.	OS02-NH
Test frequency	30 MHz ~ 1000 MHz	Test Engineer	Chas
Temperature	30 ℃	Relative Humidity	49 %

Note: 1. Emission level (dBμV/m) = 20 log Emission level (μV/m)

2. Corrected Reading : Probe Factor + Cable Loss + Read Level – Preamp Factor = Level

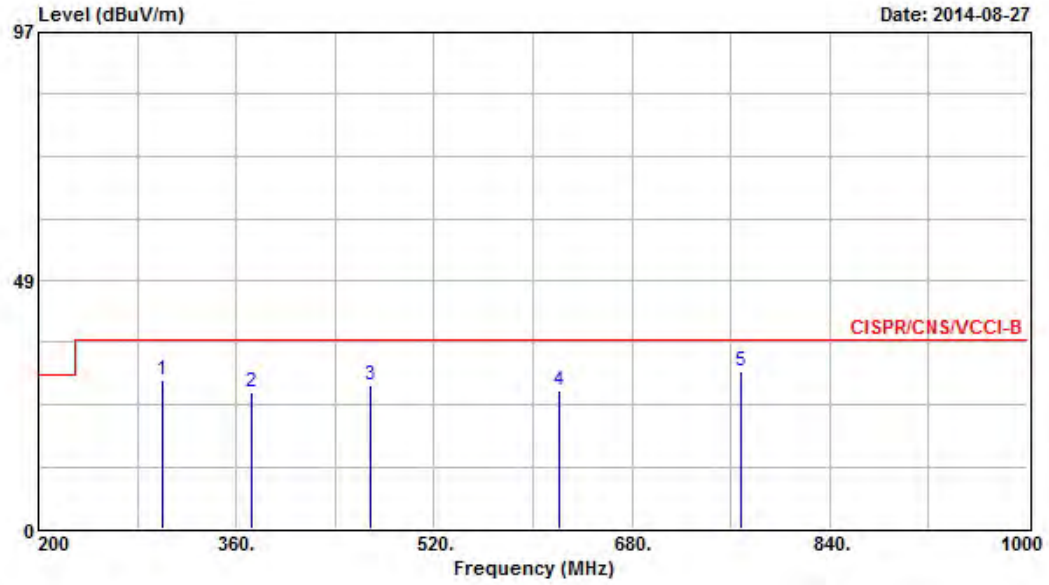
■The test was passed at the minimum margin that marked by the frame in the following data

Vertical



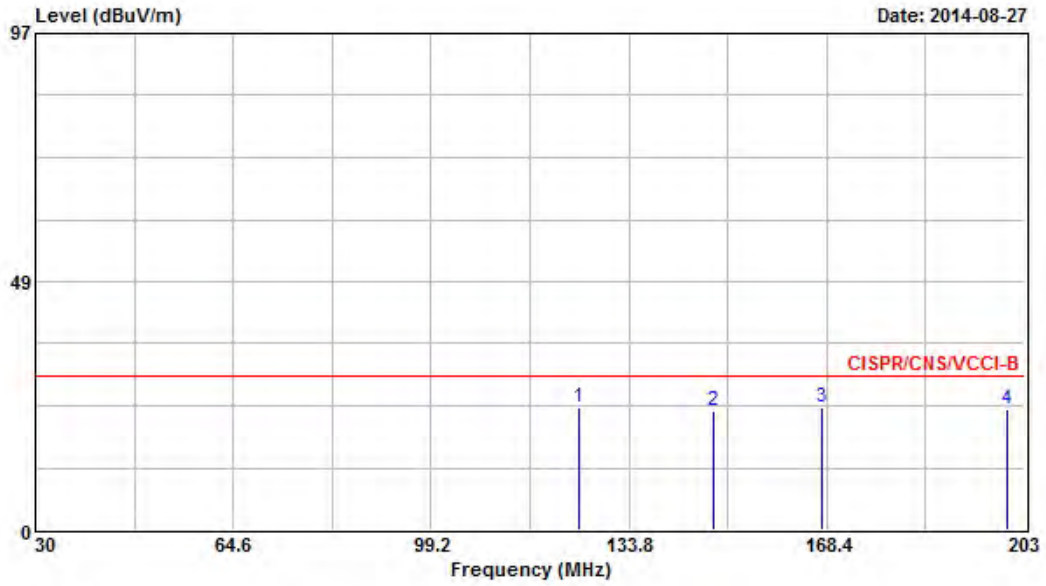
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	63.560	21.60	-8.40	30.00	45.93	6.38	1.07	31.78	Peak	---	---
2	124.980	24.39	-5.61	30.00	42.46	12.08	1.44	31.59	Peak	---	---
3	147.990	24.29	-5.71	30.00	43.57	10.70	1.57	31.55	Peak	---	---
4	200.060	24.14	-5.86	30.00	44.30	9.42	1.85	31.43	Peak	---	---

Vertical



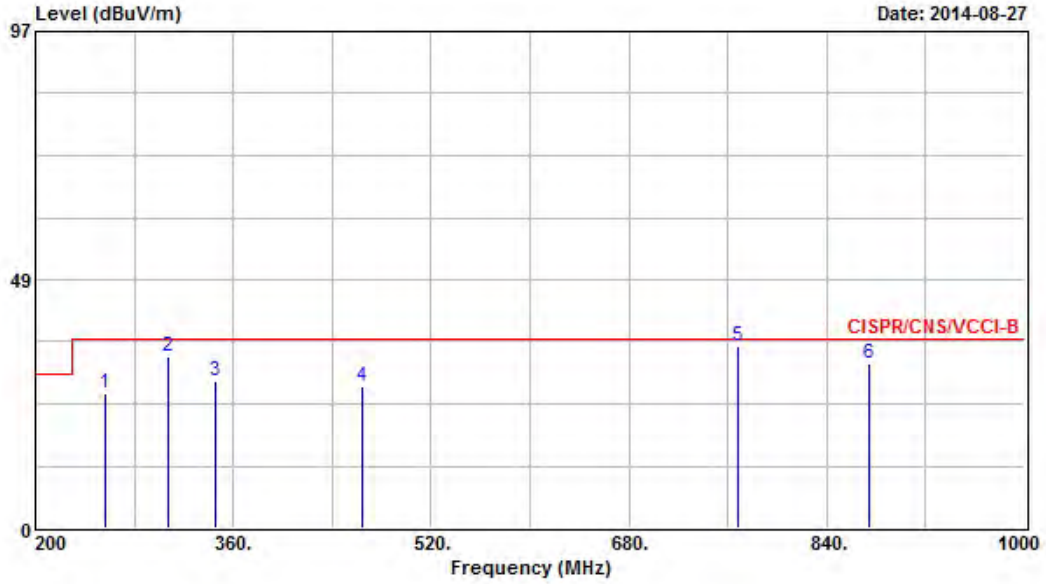
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	300.000	28.90	-8.10	37.00	44.61	13.27	2.28	31.26	Peak	---	---
2	372.800	26.80	-10.20	37.00	40.42	15.12	2.61	31.35	Peak	---	---
3	468.000	27.90	-9.10	37.00	39.24	17.07	2.94	31.35	Peak	---	---
4	620.800	27.15	-9.85	37.00	35.79	19.09	3.51	31.24	Peak	---	---
5	768.800	30.60	-6.40	37.00	37.83	20.08	3.90	31.21	Peak	---	---

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	124.980	23.96	-6.04	30.00	42.03	12.08	1.44	31.59	Peak	---	---
2	148.510	23.19	-6.81	30.00	42.47	10.70	1.57	31.55	Peak	---	---
3	167.540	23.80	-6.20	30.00	43.70	9.91	1.69	31.50	Peak	---	---
4	200.060	23.55	-6.45	30.00	43.71	9.42	1.85	31.43	Peak	---	---

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	256.000	26.40	-10.60	37.00	43.15	12.47	2.12	31.34	Peak	---	---
2 @	307.200	33.51	-3.49	37.00	48.99	13.47	2.32	31.27	QP	---	---
3	345.600	28.67	-8.33	37.00	43.08	14.43	2.48	31.32	Peak	---	---
4	464.800	27.60	-9.40	37.00	39.02	17.00	2.93	31.35	Peak	---	---
5 @	768.800	35.37	-1.63	37.00	42.60	20.08	3.90	31.21	QP	100	180
6 @	874.400	31.96	-5.04	37.00	37.84	21.11	4.14	31.13	Peak	---	---

6.4 Photographs of Radiated Emission (Below 1GHz) Test Configuration

- The photographs show the configuration that generates the maximum emission.

FRONT VIEW



REAR VIEW



6.5 Test Result of Radiated Emission (Above 1GHz)

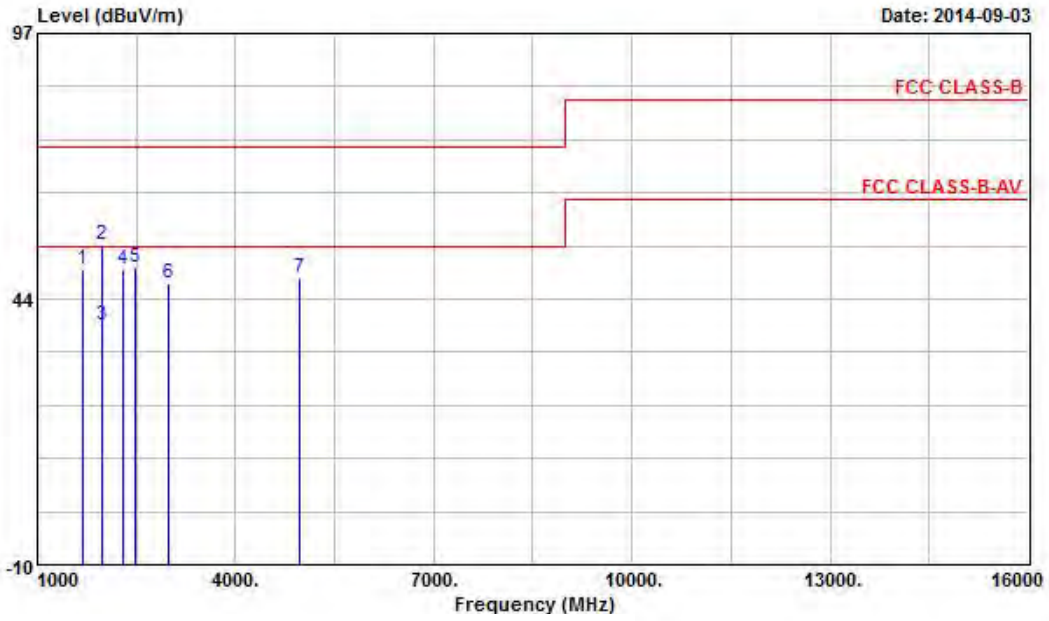
Test mode	Mode 1	Test Site No.	03CH04-HY
Test frequency	1 GHz ~ 16 GHz	Test Engineer	Alan
Temperature	21 ℃	Relative Humidity	52 %

Note: 1. Emission level (dBμV/m) = 20 log Emission level (μV/m)

2. Corrected Reading : Antenna Factor + Cable Loss + Read Level − Preamp Factor = Level

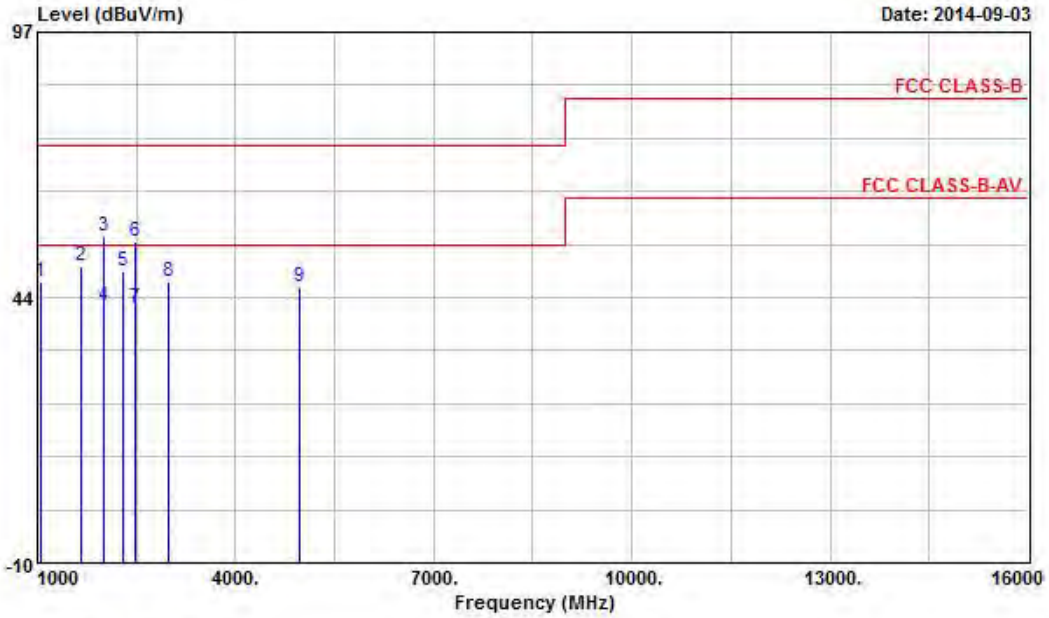
■ The test was passed at the minimum margin that marked by the frame in the following data

Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1692.000	49.48	-24.52	74.00	55.18	25.92	33.67	2.04	---	---	Peak
2	1990.000	54.56	-19.44	74.00	59.75	26.09	33.52	2.24	100	190	Peak
3	1990.000	38.10	-15.90	54.00	43.29	26.09	33.52	2.24	100	190	Average
4	2308.000	49.34	-24.66	74.00	53.83	26.84	33.80	2.47	---	---	Peak
5	2494.000	49.80	-24.20	74.00	53.92	27.30	33.99	2.57	---	---	Peak
6	2988.000	46.70	-27.30	74.00	49.78	28.27	34.31	2.96	---	---	Peak
7	4977.000	47.82	-26.18	74.00	47.26	31.47	34.40	3.48	---	---	Peak

Horizontal

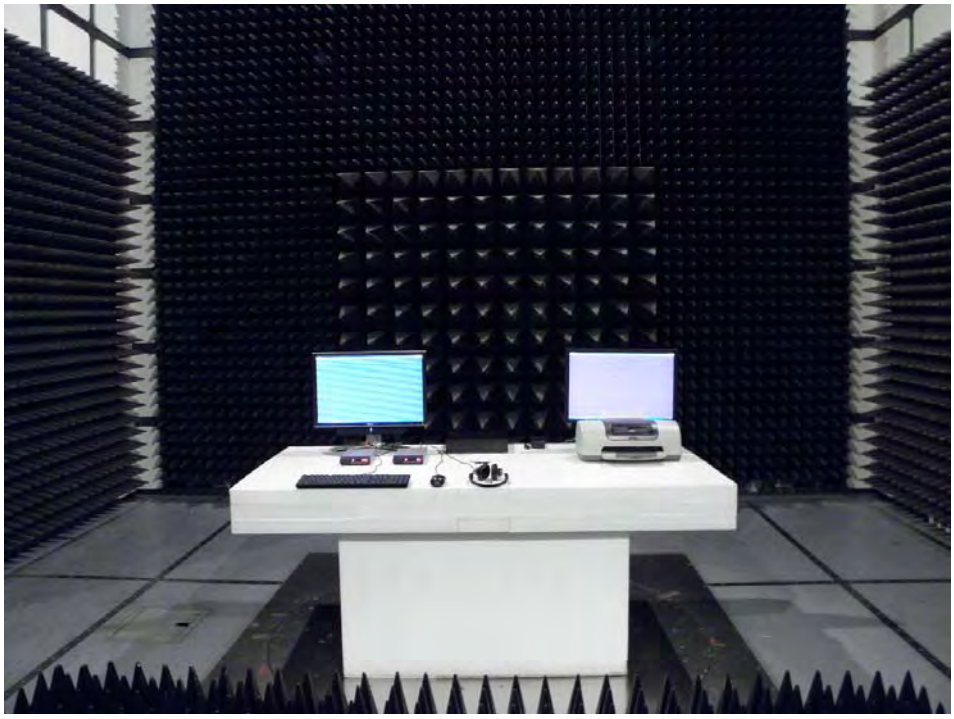


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1052.000	46.62	-27.38	74.00	54.65	24.81	34.44	1.60	---	---	Peak
2	1652.000	49.94	-24.06	74.00	55.71	25.89	33.68	2.01	---	---	Peak
3	1996.000	55.90	-18.10	74.00	61.05	26.10	33.52	2.27	100	200	Peak
4 @	1996.000	41.64	-12.36	54.00	46.79	26.10	33.52	2.27	100	200	Average
5	2308.000	48.72	-25.28	74.00	53.21	26.84	33.80	2.47	---	---	Peak
6	2492.000	54.70	-19.30	74.00	58.82	27.30	33.99	2.57	100	185	Peak
7	2492.000	41.47	-12.53	54.00	45.59	27.30	33.99	2.57	100	185	Average
8	2996.000	46.84	-27.16	74.00	49.92	28.27	34.31	2.96	---	---	Peak
9	4977.000	45.46	-28.54	74.00	44.90	31.47	34.40	3.48	---	---	Peak

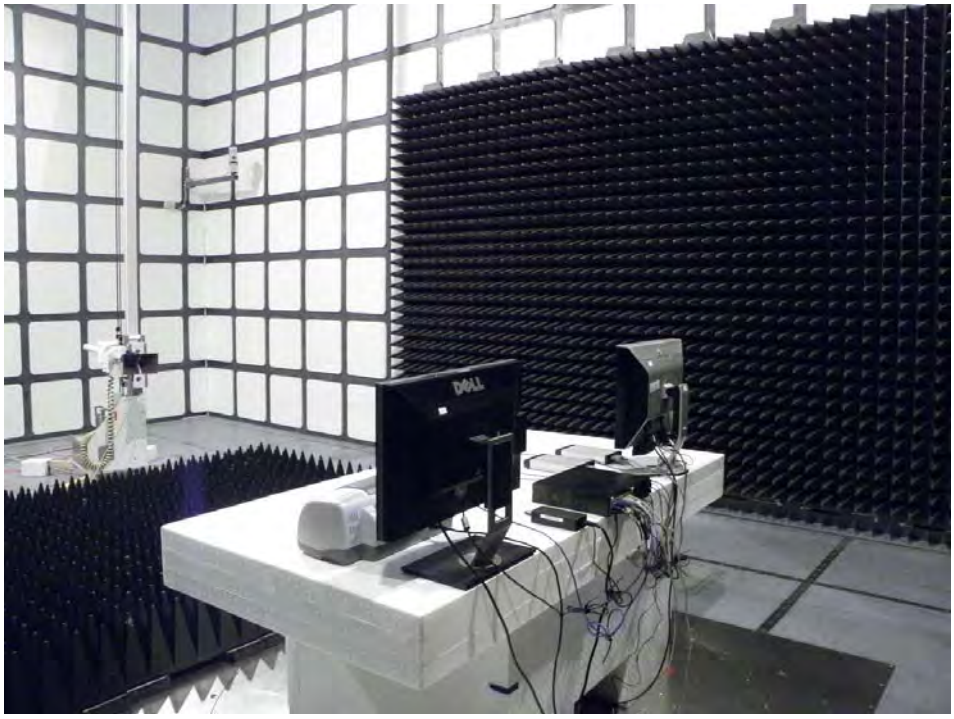
6.6 Photographs of Radiated Emission (Above 1GHz) Test Configuration

- The photographs show the configuration that generates the maximum emission.

FRONT VIEW



REAR VIEW



7. List of Measuring Equipment Used

< Conducted Emission >

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Receiver	R&S	ESCS 30	100167	9 kHz - 2.75 GHz	Nov. 05, 2013	Conduction (CO01-NH)
LISN	SCHAFFNER	NNB41	06/10024	9kHz - 30MHz	Dec. 05, 2013	Conduction (CO01-NH)
LISN	KYORITSU	KNW-407	8-1010-15	9kHz – 30MHz	N/A	Conduction (CO01-NH)
Power Filter	CORCOM	MR12030	N/A	30A*2	N/A	Conduction (CO01-NH)
RF Cable-CON	Suhner Switzerland	RG223/U	CB004	9kHz - 30MHz	Dec. 11, 2013	Conduction (CO01-NH)

※ Calibration Interval of instruments listed above is one year.

< Radiated Emission below 1GHz >

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Open Area Test Site	SPORTON	OATS-10	OS02-NH	30 MHz - 1 GHz 10m, 3m	Dec. 30, 2013	Radiation (OS02-NH)
Amplifier	BURGEON	BPA-530	100203	0.01 MHz - 3 GHz	May 19, 2014	Radiation (OS02-NH)
Receiver	R&S	ESCI	100497	9 kHz – 3 GHz	Apr. 24, 2014	Radiation (OS02-NH)
Bilog Antenna	CHASE	CBL6122B	2884	30 MHz - 2 GHz	Feb. 28, 2014	Radiation (OS02-NH)
Turn Table	EMCO	2080	9508-1805	0 - 360 degree	N/A	Radiation (OS02-NH)
Antenna Mast	ETS	2075-2	2385	1 m - 4 m	N/A	Radiation (OS02-NH)
RF Cable-R10m	MIYAZAKI	5DFB	CB044	30 MHz - 1 GHz	Aug. 30, 2013	Radiation (OS02-NH)

※ Calibration Interval of instruments listed above is one year.

< Radiated Emission above 1GHz >

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Receiver	R&S	ESU	100422	20Hz ~ 26.5GHz	Jun. 19, 2014	Radiation (03CH04-HY)
Amplifier	Agilent	8449B	3008A02326	1GHz ~ 26.5GHz	May 22, 2014	Radiation (03CH04-HY)
Horn Antenna	SCHWARZBECK	BBHA9120	BBHA9120D1130	1 GHz ~ 18 GHz	Sep.10, 2013	Radiation (03CH04-HY)
Turn Table	Chaintek	3000	MF7802056	0 ~ 360 degree	NCR	Radiation (03CH04-HY)
Antenna Mast	MF	MF-7802	MF780208163	1 m ~ 4 m	NCR	Radiation (03CH04-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	CB063-HF	1 GHz ~ 40 GHz	Nov. 20 , 2013	Radiation (03CH04-HY)

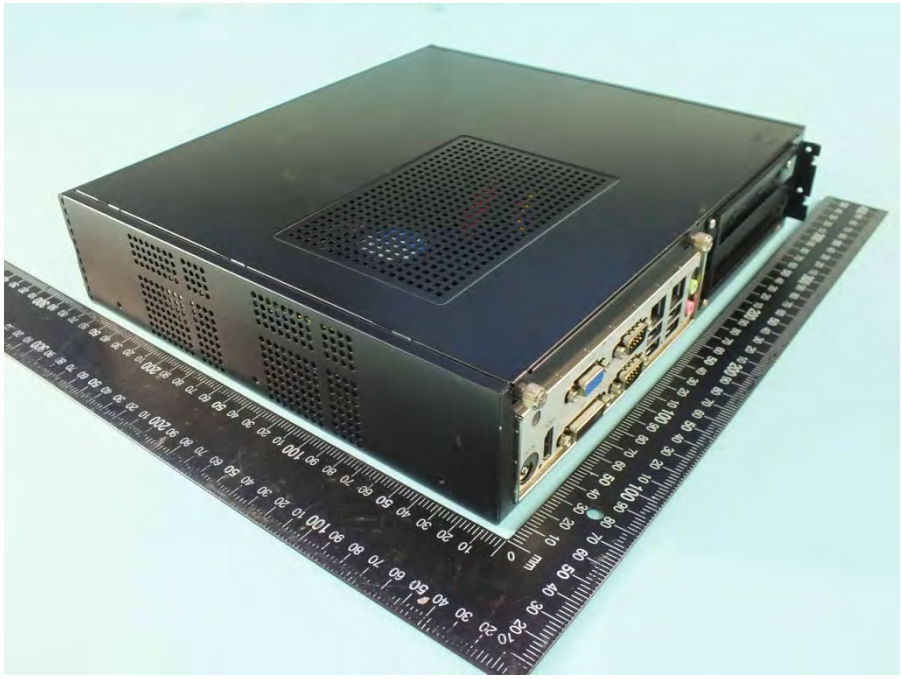
※ Calibration Interval of instruments listed above is one year.

8. Modification of EUT

Please refer to the Photographs of EUT.

APPENDIX A. Photographs of EUT



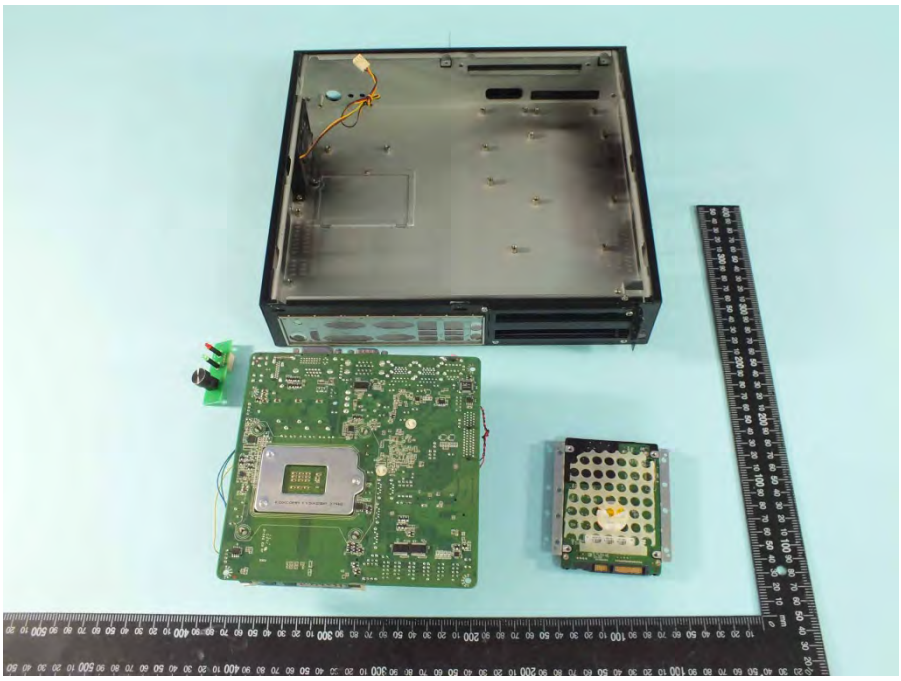


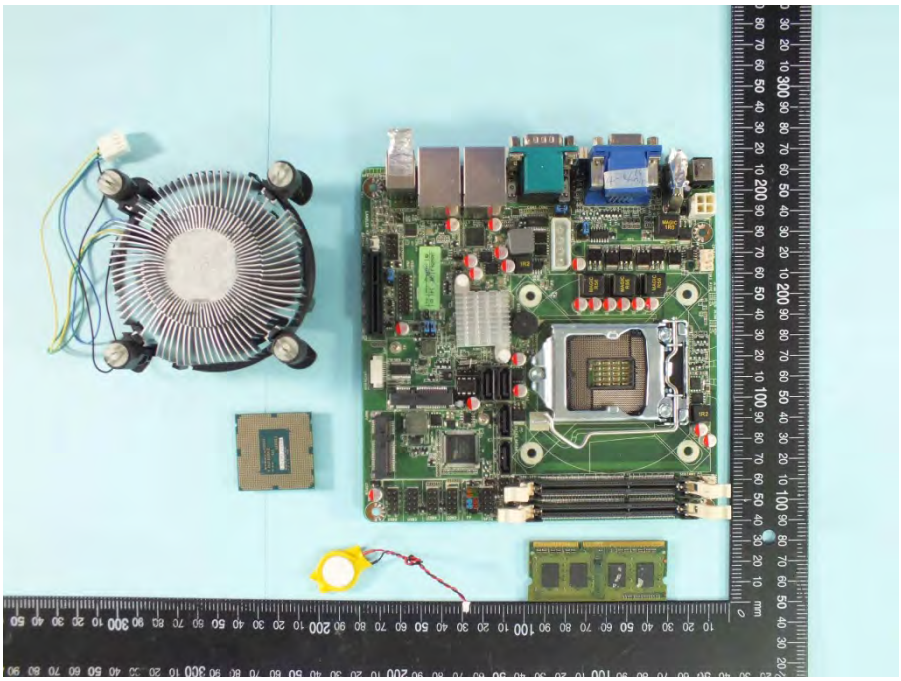

RF
HDMI
DC-IN
DVI
019

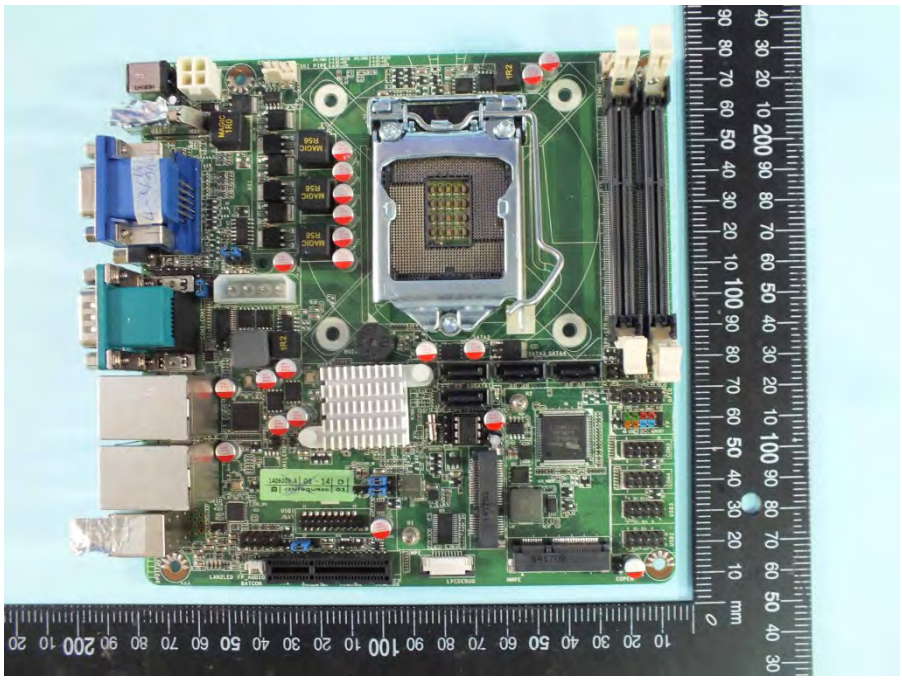


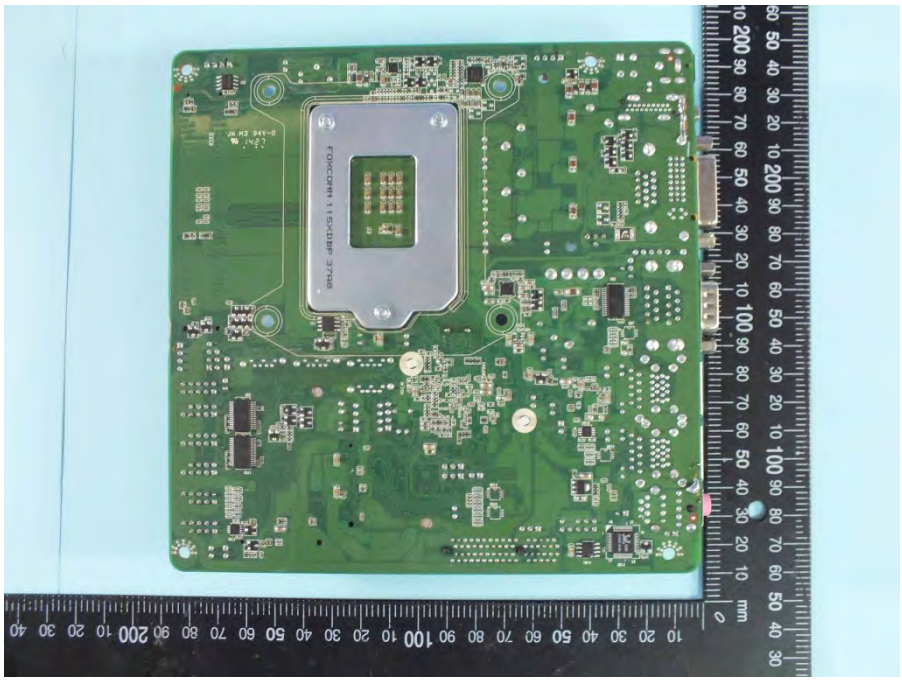


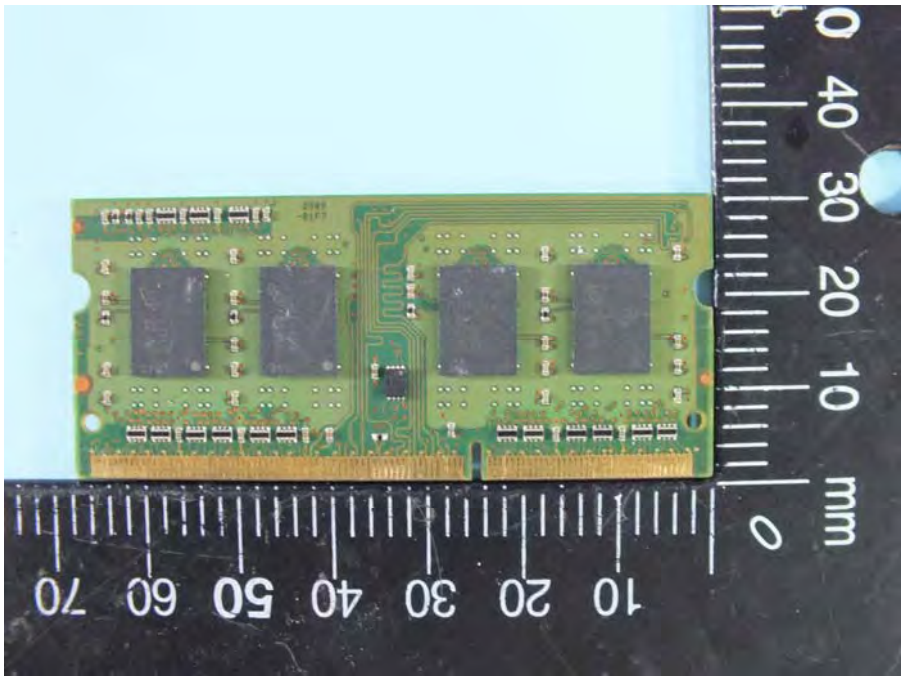

MAGIC
1R0

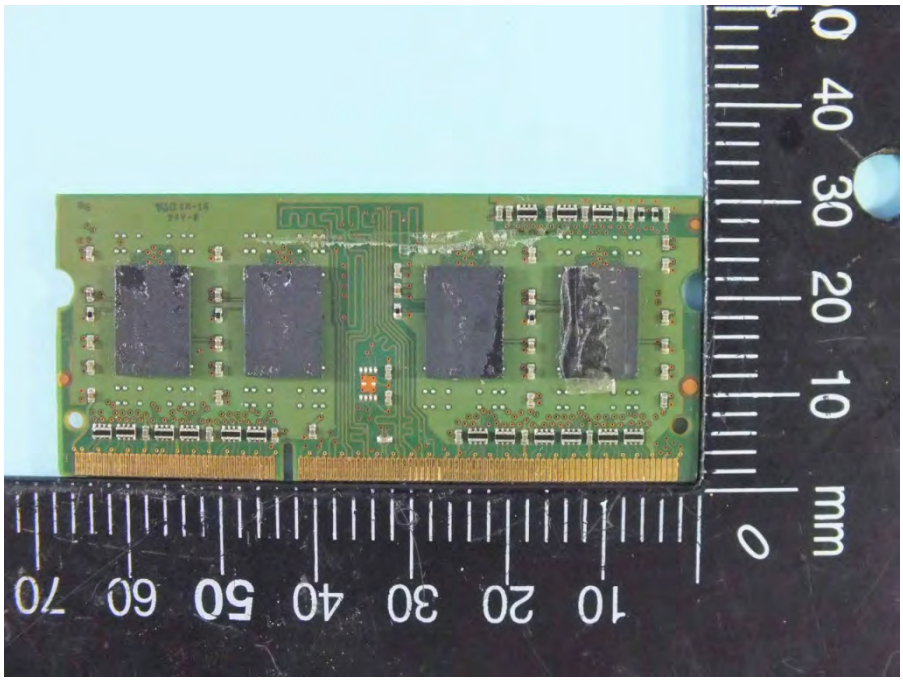




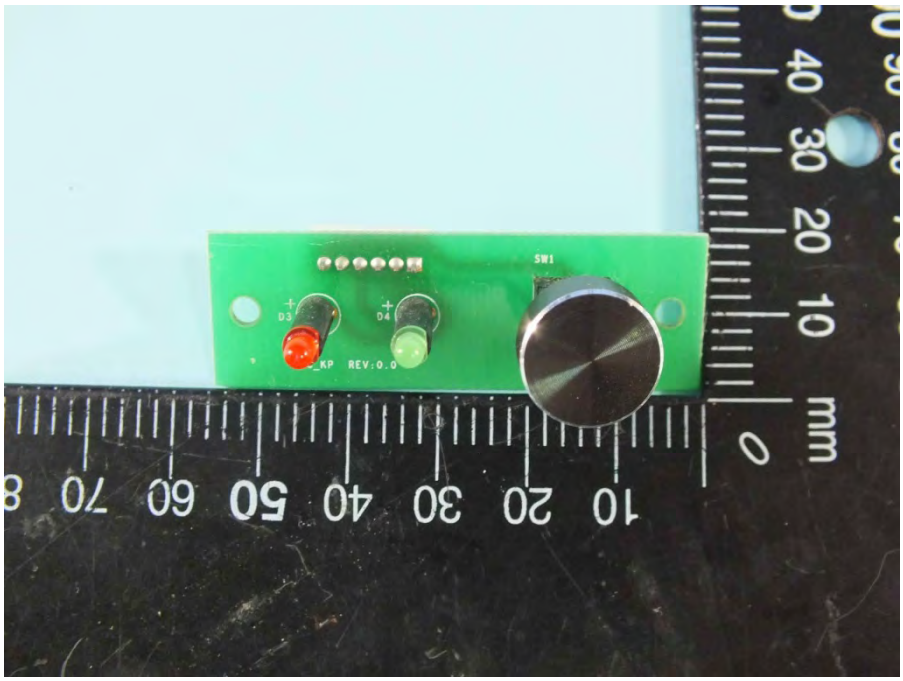


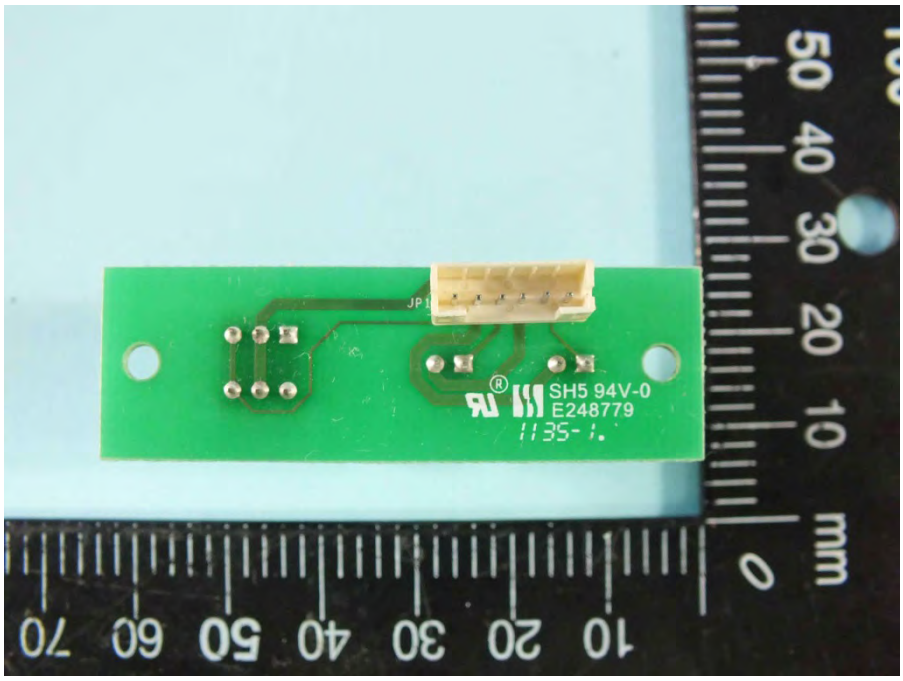



0 40 30 20 10 mm
10 20 30 40 50 60 70


0 40 30 20 10 mm
10 20 30 40 50 60 70


INTEL CONFIDENTIAL
QDN1 ES 3.20GHZ
MALAY
L314B180
mm

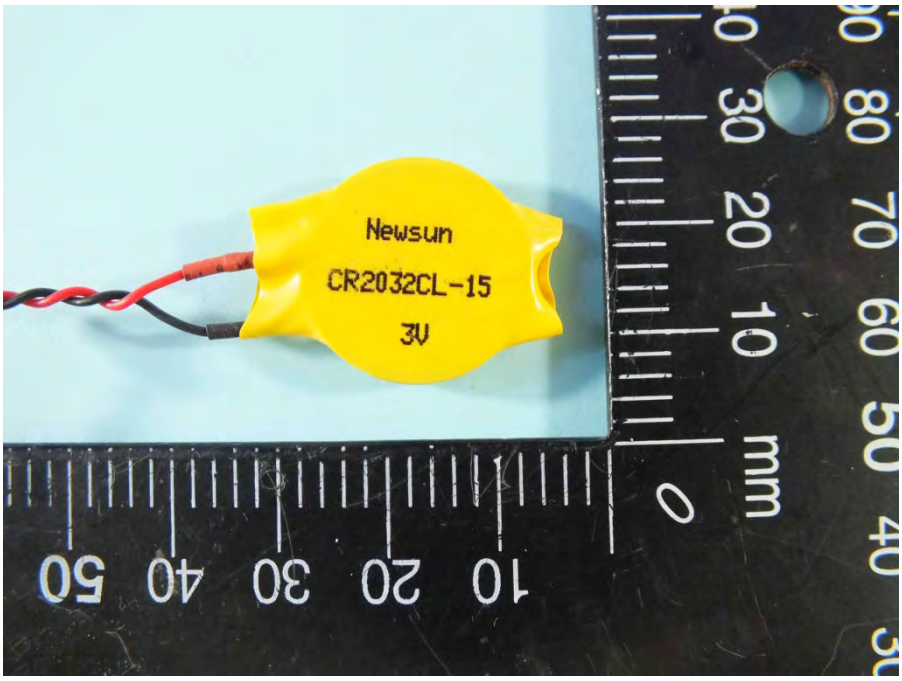

SW1
D3
D4
REV:0.0
mm


JP1
SH5 94V-0
E248779
1135-1.
50 40 30 20 10 0 mm
70 60 50 40 30 20 10


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160GB
WD Scorpio Blue




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P/N: XXXXXX-XXX
CT: XXXXXXXXXXXXX
MDL : WD1600BEVT-22ZCT0
Product warranty will be void if seal,
label or cover is removed or damaged
WWN:50014EE0AC04E12B
DATE: 04 JUN 2009
DCM : HBNTJAB
5VDC : 0.55A
LBA : 312581808
R/N : 701499
U.S. Patents: 6178056, 5956196,6289484, 6263459
Product of Malaysia
Canada ICES-003 Class B/
NMB-003 Classe B
RoHS
SERIAL ATA
D33015
E101559
N3565
WDT-701499(B)
ECS


Newsun
CR2032CL-15
3V






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(台達電子工業股份有限公司)
AC/DC ADAPTER (电源适配器/交換式電源供應器)
MODEL(型号/型號): ADP-120ZB BB
INPUT(输入/輸入): 100-240V~ 2.0A(2.0A) 50-60Hz
OUTPUT(输出/輸出): 19V ⎓ 6.32A(6.32A)
CAUTION(警告): 适用于资讯类产品/適用於資訊類產品
For use with Information Technology Equipment.
ATTENTION :
UTILISER AVEC DU MATERIEL INFORMATIQUE SEULEMENT.
Endast för kontorsmaskin.
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A/S Center : 02-714-8150
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REV.: 00
制造地:中国/製造地:中國
MADE IN CHINA DCWP MMC

