

# PARTIAL FCC/CANADA TEST REPORT (15.247)

**REPORT NO.:** RF121205C02

MODEL NO.: SL101

FCC ID: MSQSL101

IC: 3568A-SL101

**RECEIVED:** Dec. 05, 2012

**TESTED:** Dec. 06 ~ Dec. 07, 2012

**ISSUED:** Dec. 12, 2012

**APPLICANT:** ASUSTek Computer Inc.

ADDRESS: No.15,Li-Te Rd., Peitou, Taipei 112,Taiwan

**ISSUED BY:** Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,

New Taipei City, Taiwan (R.O.C)

**TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei

Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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# **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF121205C02	Original release	Dec. 12, 2012

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# 1. CERTIFICATION

**PRODUCT**: Eee Pad

MODEL NO.: SL101

**BRAND:** ASUS

APPLICANT: ASUSTek Computer Inc.

**TESTED:** Dec. 06 ~ Dec. 07, 2012

**TEST SAMPLE:** Production Unit

STANDARDS: FCC Part 15, Subpart C (Section 15.247)

Canada RSS-210 Issue 8 (2010-12) Canada RSS-Gen Issue 3 (2010-12)

ANSI C63.10-2009

The above equipment (model: SL101) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

The applicant has reduced the power parameter for WLAN for this device. We have reevaluated RF for this device in this report.

**PREPARED BY** : , **DATE** : Dec. 12, 2012

Wonne Wu / Senior Specialist

APPROVED BY: Dec. 12, 2012

Anderson Chiu / Senior Engineer



# 2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)					
FCC STANDARD SECTION	IC STANDARD SECTION	TEST TYPE	RESULT	REMARK	
15.207	7.2.4	AC Power Conducted Emission	NA	Refer to NOTE below	
-	RSS-Gen 4.6	Occupied Bandwidth Measurement	PASS	Meet the requirement of limit.	
15.247(d) 15.209	RSS-210 A8.5	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -3.88dB at 41.07MHz.	
15.247(d)	RSS-210 A8.5	Band Edge Measurement	NA	Refer to NOTE below	
15.247(a)(2)	RSS-210 A8.2 (a)	6dB bandwidth	NA	Refer to NOTE below	
15.247(b)	RSS-210 A8.4 (4)	Conducted power	PASS	Meet the requirement of limit.	
15.247(e)	RSS-210 A8.2 (b)	Power Spectral Density	NA	Refer to NOTE below	
15.203	A8.4	Antenna Requirement	NA	Refer to NOTE below	

**NOTE:** Test items for output power, occupied bandwidth and radiated emission were performed for this report.

# 2.1 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	
	30MHz ~ 200MHz	2.93 dB	
Radiated emissions	200MHz ~1000MHz	2.95 dB	
Radiated emissions	1GHz ~ 18GHz	2.26 dB	
	18GHz ~ 40GHz	1.94 dB	

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



# 3. GENERAL INFORMATION

# 3.1 GENERAL DESCRIPTION OF EUT

EUT	Eee Pad
MODEL NO.	SL101
POWER SUPPLY	5.0Vdc (adapter or host equipment) 11.1Vdc (Li-ion battery)
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b:11.0/ 5.5/ 2.0/ 1.0Mbps 802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to MCS7
OPERATING FREQUENCY	2412 ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	0.184W
ANTENNA TYPE	PCB antenna with 1.17dBi gain
ANTENNA CONNECTOR	NA
DATA CABLE	Refer to Note as below
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	Refer to Note as below

#### NOTE:

1. The EUT has following accessories.

No.	Product	Brand	MODEL	Description
1	Power Adapter	ASUS	AD827M	I/P: 100-240Vac, 50/60Hz, 0.5A O/P: 5-15Vdc, 2-2.12A
2	Battery	ASUS	C31-EP102	Rating: 11.1 Vdc, 2260mAh Type: Li-ion
3	USB Cable	TYCO	14001-00030200	1.05m non-shielded cable without ferrite core

2. The above EUT information is declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



# 3.2 DESCRIPTION OF TEST MODES

11 channels are provided for 802.11b, 802.11g and 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

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# 3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

#### FOR 2.4GHz:

EUT	APPLICABLE TO		DESCRIPTION	
CONFIGURE MODE	Radiated Emission	APCM	DESCRIPTION	
-		<b>V</b>	-	

Where APCM: Antenna Port Conducted Measurement

**NOTE:** The EUT had been pre-tested on the laptop and tablet positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

# **RADIATED EMISSION TEST:**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE	TESTED	MODULATION	MODULATION	DATA RATE
	CHANNEL	CHANNEL	TECHNOLOGY	TYPE	(Mbps)
802.11n (20MHz)	1 to 11	1	OFDM	BPSK	6.5

# **ANTENNA PORT CONDUCTED MEASUREMENT:**

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5

# **TEST CONDITION:**

APPLICABLE TO ENVIRONMENTAL CONDITIONS		INPUT POWER	TESTED BY
Radiated Emission	25deg. C, 65%RH	120Vac, 60Hz	Kay Wu
APCM	25deg. C, 65%RH	120Vac, 60Hz	Phoenix Chen

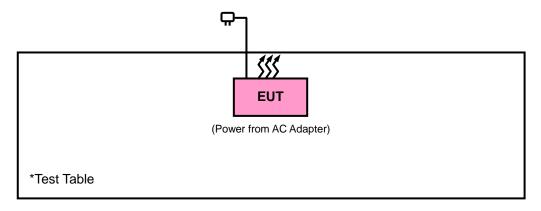
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# 3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units.

# 3.3.1 CONFIGURATION OF SYSTEM UNDER TEST



#### 3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.247) Canada RSS-210 Issue 8 (2010-12) Canada RSS-Gen Issue 3 (2010-12)

ANSI C63.10-2009 KDB 558074 D01 DTS Meas Guidance v01

All test items have been performed and recorded as per the above standards.



# 4. TEST TYPES AND RESULTS

# 4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

# 4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

#### NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level  $(dBuV/m) = 20 \log Emission level (uV/m)$ .
- 3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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# 4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver Agilent	N9038A	MY51210203	Dec. 22, 2011	Dec. 21, 2012
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 21, 2011	Dec. 20, 2012
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 20, 2011	Dec. 19, 2012
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Dec. 20, 2011	Dec. 19, 2012
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 20, 2011	Dec. 19, 2012
Loop Antenna	HFH2-Z2	100070	Jan. 31, 2012	Jan. 30, 2014
Preamplifier EMCI	EMC 012645	980115	Dec. 30, 2011	Dec. 29, 2012
Preamplifier EMCI	EMC 330H	980112	Dec. 30, 2011	Dec. 29, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4	Oct. 26, 2012	Oct. 25, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Jan. 02, 2012	Jan. 01, 2013
RF signal cable Worken	RG-213	NA	Jan. 02, 2012	Jan. 01, 2013
Software	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA
Power Meter	ML2495A	1232002	Aug. 10, 2012	Aug. 09, 2013
Power Sensor	MA2411B	1207325	Aug. 15, 2012	Aug. 14, 2013

**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. The calibration interval of the loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 3. The test was performed in HwaYa Chamber 9.
- 4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 5. The FCC Site Registration No. is 460141.
- 6. The IC Site Registration No. is IC 7450F-4.



#### 4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Height of receiving antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

#### NOTE:

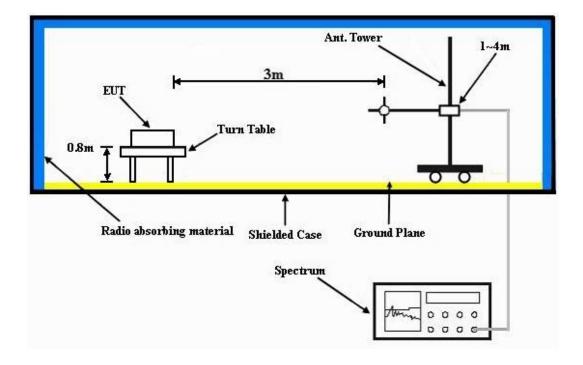
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation.



# 4.1.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

# 4.1.6 EUT OPERATING CONDITIONS

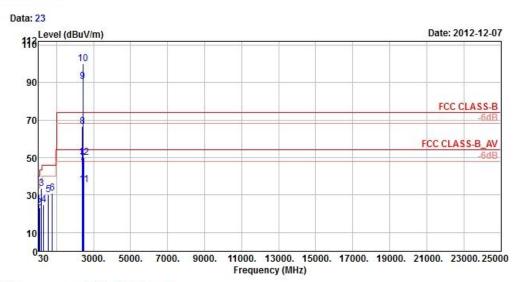
- a. Placed the EUT on a testing table.
- b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.



# 4.1.7 TEST RESULTS



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition : FCC CLASS-B 3m HORIZONTAL

Brand/Model: 121205C02 Remark : 11N\_HT20 CH01

Tested by : Kay Wu
Temprature : 25°C
Humidity : 65%
Plane : X
Date : MCS0
Power : 12

		Freq	Level	Read Level	Limit Line		Antenna Factor		Preamp Factor	A/Pos	T/Pos	Remark
	745	rreq	Level	Level	LINE	LIMITO	Tactor	2033	ractor	V 200		Kellidi K
	-	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m	dB	dB	cm	deg	
1		40.80	24.79	41.59	40.00	-15.21	13.55	0.67	31.02	100	224	Peak
2		83.73	23.29	45.77	40.00	-16.71	8.18	0.99	31.65	132	274	Peak
3		192.00	33.48	53.70	43.50	-10.02	9.91	1.56	31.69	107	44	Peak
4		315.40	24.74	41.24	46.00	-21.26	13.31	2.11	31.92	100	152	Peak
5		554.80	30.01	40.49	46.00	-15.99	18.57	2.96	32.01	100	127	Peak
6		776.70	31.12	36.97	46.00	-14.88	21.90	3.64	31.39	100	133	Peak
7		2390.00	47.28	52.67	54.00	-6.72	27.26	4.87	37.52	105	44	Average
8		2390.00	66.60	71.99	74.00	-7.40	27.26	4.87	37.52	105	44	Peak
9	pp	2412.00	90.35	95.69			27.31	4.87	37.52	105	44	Average
10		2412.00	99.90	105.24			27.31	4.87	37.52	105	44	Peak
11		2492.00	35.39	40.15	54.00	-18.61	27.55	4.94	37.25	105	44	Average
12		2492.00	49.89	54.65	74.00	-24.11	27.55	4.94	37.25	105	44	Peak

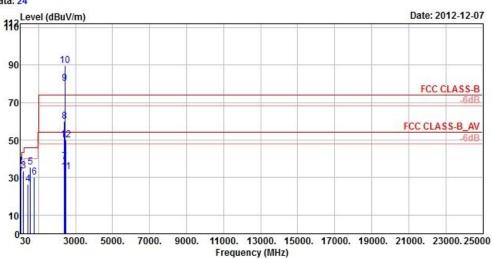
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# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch





Site : 966 Chamber 5

Condition : FCC CLASS-B 3m VERTICAL

Brand/Model: 121205C02 Remark : 11N\_HT20 CH01

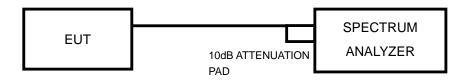
Tested by : Kay Wu Temprature :  $25^{\circ}$ C Humidity : 65% Plane : X Date : MCS0 Power : 12

		Freq	Level	Read Level	Limit Line		Antenna Factor		Preamp Factor	A/Pos	T/Pos	Remark
	9	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m	dB	dB	cm	deg	-
1	!	30.00	36.01	54.60	40.00	-3.99	11.98	0.57	31.14	100	166	Peak
2	1	41.07	36.12	52.92	40.00	-3.88	13.55	0.67	31.02	100	188	Peak
3		191.73	33.34	53.56	43.50	-10.16	9.91	1.56	31.69	100	312	Peak
4		444.20	26.60	39.79	46.00	-19.40	16.21	2.59	31.99	100	100	Peak
5		554.80	35.39	45.87	46.00	-10.61	18.57	2.96	32.01	100	332	Peak
6		776.70	30.36	36.21	46.00	-15.64	21.90	3.64	31.39	100	174	Peak
7		2390.00	38.55	43.94	54.00	-15.45	27.26	4.87	37.52	100	346	Average
8		2390.00	60.05	65.44	74.00	-13.95	27.26	4.87	37.52	100	346	Peak
9	pp	2412.00	80.00	85.34			27.31	4.87	37.52	100	346	Average
10	pk	2412.00	89.87	95.21			27.31	4.87	37.52	100	346	Peak
11		2490.00	33.05	37.90	54.00	-20.95	27.55	4.92	37.32	100	346	Average
12		2490.00	50.11	54.96	74.00	-23.89	27.55	4.92	37.32	100	346	Peak



#### 4.2 OCCUPIED BANDWIDTH MEASUREMENT

# 4.2.1 TEST SETUP



# 4.2.2 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

# 4.2.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 kHz RBW and 300 kHz VBW. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.2.5 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



# 4.2.6 TEST RESULTS

# 802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)	PASS / FAIL
1	2412	12.69	PASS
6	2437	12.69	PASS
11	2462	12.74	PASS

# 802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)	PASS / FAIL
1	2412	16.68	PASS
6	2437	16.63	PASS
11	2462	16.68	PASS

# 802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)	PASS / FAIL
1	2412	17.88	PASS
6	2437	17.84	PASS
11	2462	17.88	PASS

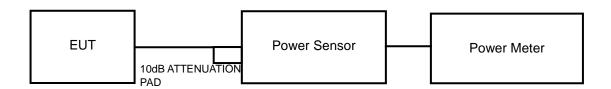


# 4.3 CONDUCTED OUTPUT POWER

#### 4.3.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

# 4.3.2 TEST SETUP



# 4.3.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

# 4.3.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the peak power level.

# 4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.3.6 EUT OPERATING CONDITIONS

Same as Item 4.2.5.



# 4.3.7 TEST RESULTS

# 802.11b

CHANNEL	FREQUENCY (MHz)	PEAK POWER (W)	PEAK POWER (dBm)	LIMIT (dBm)	PASS/FAIL
1	2412	0.039	15.93	30	PASS
6	2437	0.034	15.31	30	PASS
11	2462	0.027	14.33	30	PASS

# 802.11g

CHANNEL	FREQUENCY (MHz)	PEAK POWER (W)	PEAK POWER (dBm)	LIMIT (dBm)	PASS/FAIL
1	2412	0.181	22.57	30	PASS
6	2437	0.169	22.29	30	PASS
11	2462	0.166	22.21	30	PASS

# 802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	PEAK POWER (W)	PEAK POWER (dBm)	LIMIT (dBm)	PASS/FAIL
1	2412	0.171	22.33	30	PASS
6	2437	0.184	22.64	30	PASS
11	2462	0.168	22.25	30	PASS

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5. PHOTOGRAPHS OF THE TEST CONFIGURATION
Please refer to the attached file (Test Setup Photo).

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# 6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:Hsin Chu EMC/RF Lab:Tel: 886-2-26052180Tel: 886-3-5935343Fax: 886-2-26051924Fax: 886-3-5935342

# **Hwa Ya EMC/RF/Safety Telecom Lab**:

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: <a href="mailto:service.adt@tw.bureauveritas.com">service.adt@tw.bureauveritas.com</a>
Web Site: <a href="mailto:www.bureauveritas-adt.com">www.bureauveritas-adt.com</a>

The address and road map of all our labs can be found in our web site also.

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# 7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

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