



FCC TEST REPORT

REPORT NO.: RF971113L01B
MODEL NO.: SBG901 (Refer to item 3.1 for more details)
RECEIVED: Apr. 23, 2009
TESTED: Jun. 01 ~ Jun. 04, 2009
ISSUED: Jun. 05, 2009

APPLICANT: Motorola, Inc.

ADDRESS: 101 Tournament Drive, Horsham Pennsylvania
19044 United States

ISSUED BY: Bureau Veritas Consumer Products Services
(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou
Hsiang, Taipei Hsien 244, 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.

This test report consists of 36 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by TAF or any government agencies. The test results in the report only apply to the tested sample.





A D T

Table of Contents

1	CERTIFICATION.....	3
2	SUMMARY OF TEST RESULTS	4
2.1	MEASUREMENT UNCERTAINTY	4
3	GENERAL INFORMATION.....	5
3.1	GENERAL DESCRIPTION OF EUT.....	5
3.2	DESCRIPTION OF TEST MODES.....	7
3.2.1	CONFIGURATION OF SYSTEM UNDER TEST	8
3.2.2	TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL.....	10
3.3	GENERAL DESCRIPTION OF APPLIED STANDARDS	11
3.4	DESCRIPTION OF SUPPORT UNITS.....	11
4	TEST TYPES AND RESULTS	12
4.1	RADIATED EMISSION MEASUREMENT	12
4.1.1	LIMITS OF RADIATED EMISSION MEASUREMENT.....	12
4.1.2	TEST INSTRUMENTS	13
4.1.3	TEST PROCEDURES	14
4.1.4	DEVIATION FROM TEST STANDARD	14
4.1.5	TEST SETUP	15
4.1.6	EUT OPERATING CONDITIONS.....	15
4.1.7	TEST RESULTS	16
4.2	CONDUCTED EMISSION MEASUREMENT	21
4.2.1	LIMITS OF CONDUCTED EMISSION MEASUREMENT.....	21
4.2.2	TEST INSTRUMENTS	21
4.2.3	TEST PROCEDURES	22
4.2.4	DEVIATION FROM TEST STANDARD	22
4.2.5	TEST SETUP	23
4.2.6	EUT OPERATING CONDITIONS.....	23
4.2.7	TEST RESULTS	24
5	PHOTOGRAPHS OF THE TEST CONFIGURATION.....	34
6	INFORMATION ON THE TESTING LABORATORIES	35
7	APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB.....	36



A D T

1 CERTIFICATION

PRODUCT: Wireless Cable Modem Gateway
MODEL: SBG901 (Refer to item 3.1 for more details)
BRAND: Motorola
APPLICANT: Motorola, Inc.
TESTED: Jun. 01 ~ Jun. 04, 2009
TEST SAMPLE: ENGINEERING SAMPLE
STANDARDS: **FCC Part 15, Subpart C (Section 15.247)**
ANSI C63.4-2003

The above equipment (model: SBG901, SBG901 DIAGNOSTIC) 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.

PREPARED BY : Peggy Chen , **DATE** : Jun. 05, 2009
Peggy Chen / Specialist

TECHNICAL ACCEPTANCE : Long Chen , **DATE** : Jun. 05, 2009
Responsible for RF Long Chen / Senior Engineer

APPROVED BY : Gary Chang , **DATE** : Jun. 05, 2009
Gary Chang / Assistant Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
Standard Section	Test Type and Limit	Result	Remark
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -8.78dB at 0.185MHz.
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	NA	NA
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	NA	NA
15.247(d)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -6.02dB at 43.9MHz.
15.247(e)	Power Spectral Density Limit: max. 8dBm	NA	NA
15.247(d)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	NA	NA

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
Conducted emissions	150kHz ~ 30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.19 dB
	200MHz ~1000MHz	3.21 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

PRODUCT	Wireless Cable Modem Gateway
MODEL NO.	SBG901(Refer to Note for more details)
FCC ID	ACQSBG901
POWER SUPPLY	12Vdc from adapter
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
MAXIMUM OUTPUT POWER	181.552mW
ANTENNA TYPE	Printed antenna with 4dBi gain
DATA CABLE	1.8m non-shielded RJ45 cable without core 1.4m non-shielded DIAG cable without core
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	Adapter

NOTE:

1. This report is based on ADT report with Reference No.: RF971113L01. The original report was issued by Advance Data Technology Corp. (ADT Corp.) on Nov. 18, 2008. ADT Corp. is one of Bureau Veritas family and she has fully transferred all its test facilities, staffs & service system to Bureau Veritas Consumer Products Services (Hong Kong) Limited, Taoyuan Branch in 2008."
2. This report is issued as a supplementary report of ADT report no.: RF971113L01. This report is prepared for FCC class II permissive change. The difference compared with the original design is adding a model, a diagnostic cable and two adapters. Therefore we added the conduction emission test and radiation emission test for new model and adapters and presented in the test report.
3. All models for the EUT as below.

MODEL	DESCRIPTION
SBG901	Without DIAGNOSTIC port
SBG901 DIAGNOSTIC	With DIAGNOSTIC port



4. The EUT was operated with following adapters:

Adapter 1 (Original)	
BRAND:	LEADER ELECTRONICS INC.
MODEL:	MT20-21120-A00F
INPUT:	100-127Vac, 50/60Hz, 0.25A
OUTPUT:	12Vdc, 750mA
POWER LINE:	DC: 1.8m non-shielded cable without core

Adapter 2 (New)	
BRAND:	DELTA ELECTRONICS, INC.
MODEL:	EADP-12HB A
INPUT:	100-240Vac, 50-60Hz, 0.4A
OUTPUT:	12Vdc, 1A
POWER LINE:	AC: 1.9m non-shielded cable without core DC: 0.9m non-shielded cable without core

Adapter 3 (New)	
BRAND:	LEADER ELECTRONICS INC.
MODEL:	NU12-6120075-I3
INPUT:	100-240Vac, 50-60Hz, 0.6A
OUTPUT:	12Vdc, 0.75A
POWER LINE:	DC: 1.8m non-shielded cable without core

5. The EUT, operates in the 2.4GHz frequency range, lets you connect IEEE 802.11g or IEEE 802.11b devices to the network. With its high-speed data transmissions of up to 54Mbps.
6. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



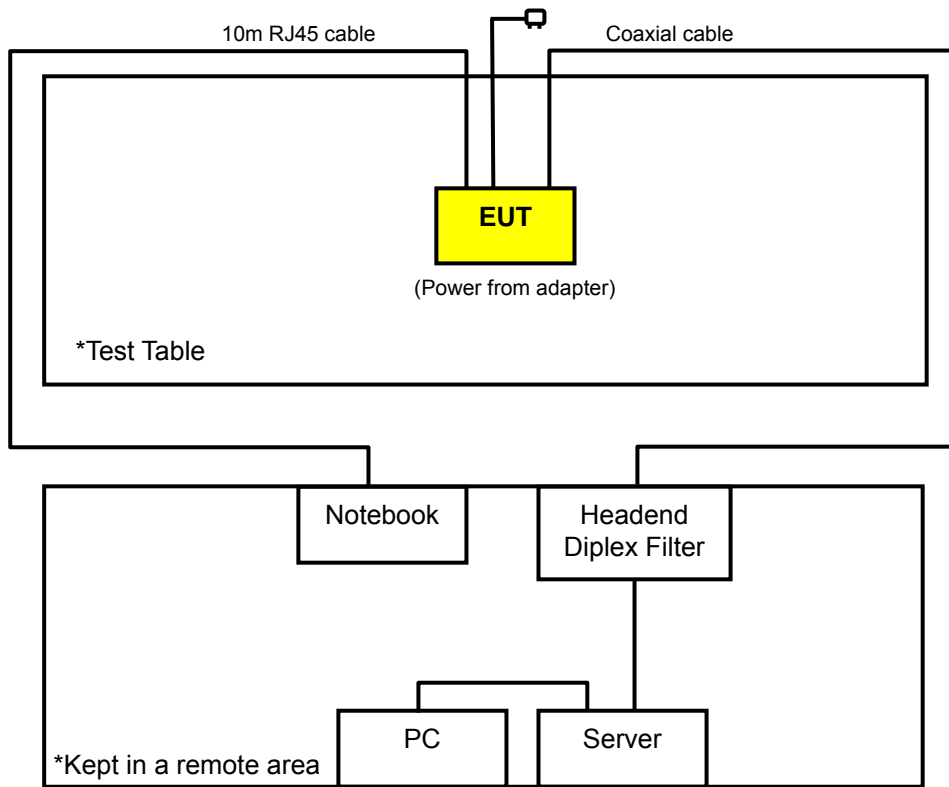
3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to this EUT.

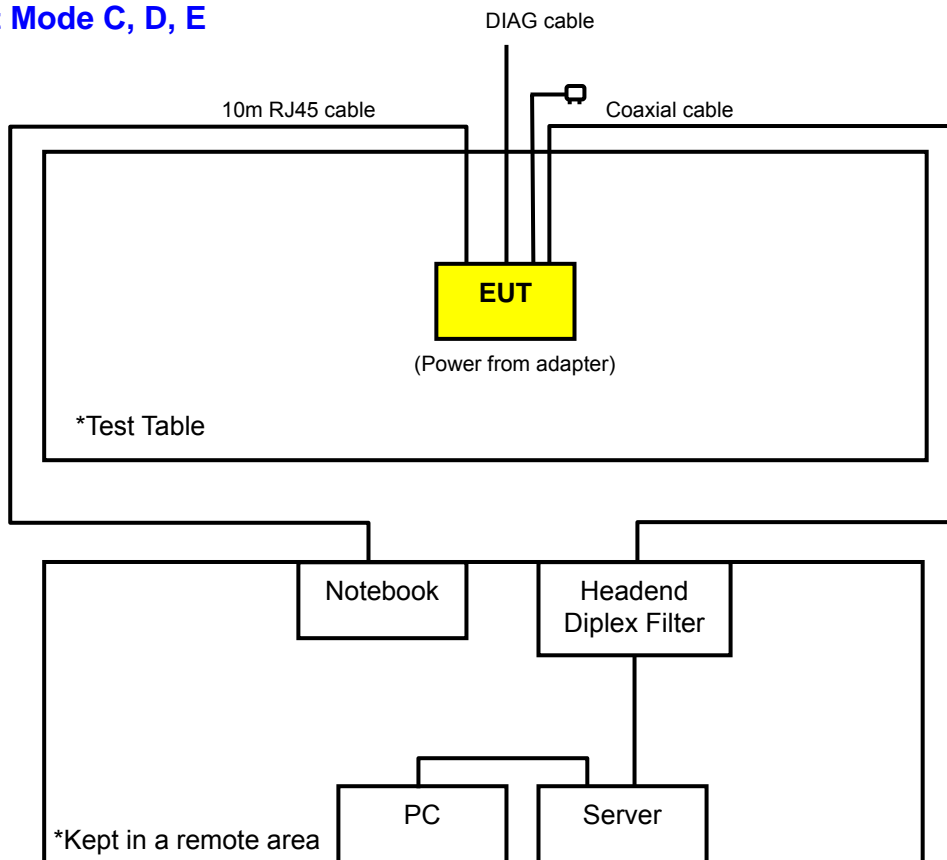
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Test Mode A, B



Test Mode C, D, E



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT Configure Mode	Applicable to		Description	
	RE<1G	PLC	EUT Model	Adapter Model
A	√	√	SBG901	EADP-12HB A
B	√	√		NU12-6120075-I3
C	√	√	SBG901 DIAGNOSTIC	MT20-21120-A00F
D	√	√		EADP-12HB A
E	√	√		NU12-6120075-I3

Where **PLC**: Power Line Conducted Emission **RE<1G**: Radiated Emission below 1GHz

RADIATED EMISSION TEST (BELOW 1 GHz):

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

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)	Axis
A~E	802.11g	1 to 11	6	OFDM	BPSK	6	Z

POWER LINE CONDUCTED 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.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A~E	802.11g	1 to 11	6	OFDM	BPSK	6

3.3 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)

ANSI C63.4- 2003

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

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

3.4 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	Dell	D600	CN-0G5152-48 643-47H-7666	FCC DoC Approved
2	PC	Dell	GX520	NA	FCC DoC Approved
3	HEADEND DIPLEX FILTER	Agilent	DNS390	NA	NA
4	SERVER	Motorola	BSR2000	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.0m RJ45 cable x1, 1.0m RS232 cable x1
3	10m coaxial cable x1
4	1.0m coaxial cable x2

NOTE:

1. All power cords of the above support units are non shielded (1.8m).
2. Item 1-4 acted as communication partners to transfer data.
3. Item 2-4 were provided by client.

4 TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

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. As shown in 15.35(b), 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.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Dec. 29, 2008	Dec. 28, 2009
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Dec. 08, 2008	Dec. 07, 2009
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Apr. 30, 2008	Apr. 28, 2010
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-408	Dec. 29, 2008	Dec. 28, 2009
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 06, 2009	Jan. 05, 2010
Preamplifier Agilent	8449B	3008A01960	Nov. 03, 2008	Nov. 02, 2009
Preamplifier Agilent	8447D	2944A10631	Nov. 03, 2008	Nov. 02, 2009
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	274041/4	Aug. 21, 2008	Aug. 20, 2009
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	283397/4	Aug. 21, 2008	Aug. 20, 2009
Software ADT.	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	019303	NA	NA
Turn Table ADT.	TT100.	TT93021704	NA	NA
Turn Table Controller ADT.	SC100.	SC93021704	NA	NA

- 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 test was performed in HwaYa Chamber 4.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Site Registration No. is 988962.
 5. The IC Site Registration No. is IC7450F-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. The antenna is a broadband antenna, and its height 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 method or average method as specified and then reported in data sheet.

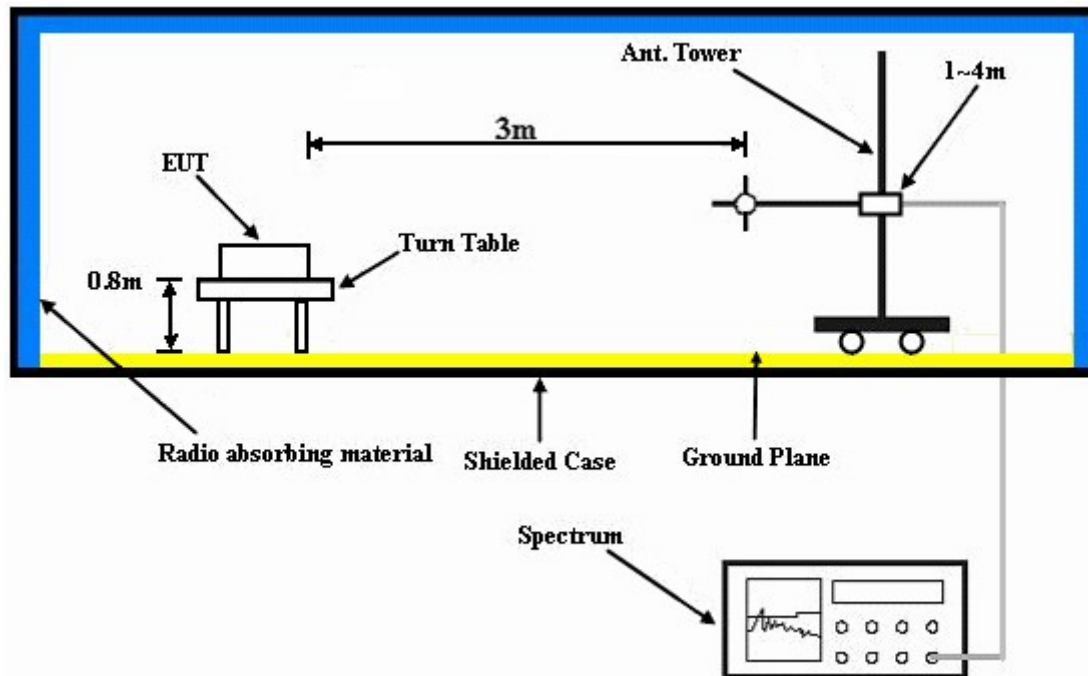
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. 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 the testing table.
- b. Prepared a notebook system, a personal computer and server to act as communication partners and placed them outside of testing area.
- c. The communication partners run a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency via an RJ45 cable and a coaxial cable.
- d. The communication partner sent data to EUT by command "PING".

4.1.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA : 802.11g OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25.0deg. C, 65.0%RH 1000hPa	TESTED BY	Mark Liao
TEST MODE	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	144.61	33.10 QP	43.50	-10.40	1.25 H	67	18.96	14.14
2	274.88	33.85 QP	46.00	-12.15	1.25 H	46	19.50	14.34
3	300.16	32.82 QP	46.00	-13.18	1.00 H	10	17.27	15.54
4	374.04	30.29 QP	46.00	-15.71	1.25 H	34	12.96	17.33
5	500.42	34.48 QP	46.00	-11.52	1.25 H	313	13.73	20.75
6	799.84	36.16 QP	46.00	-9.84	1.00 H	340	9.79	26.37

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	43.83	33.50 QP	40.00	-6.50	1.00 V	184	19.42	14.08
2	101.84	32.36 QP	43.50	-11.14	1.00 V	70	22.75	9.61
3	224.33	27.15 QP	46.00	-18.85	1.00 V	166	14.82	12.33
4	374.04	29.62 QP	46.00	-16.38	1.00 V	166	12.29	17.33
5	500.42	32.41 QP	46.00	-13.59	1.00 V	292	11.66	20.75
6	799.84	31.50 QP	46.00	-14.50	1.25 V	355	5.13	26.37

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25.0deg. C, 65.0%RH 1000hPa	TESTED BY	Mark Liao
TEST MODE	B		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	146.56	32.87 QP	43.50	-10.63	1.25 H	85	18.53	14.34
2	274.88	29.75 QP	46.00	-16.25	2.00 H	10	15.40	14.34
3	399.31	29.18 QP	46.00	-16.82	1.00 H	10	11.25	17.93
4	533.47	30.41 QP	46.00	-15.59	1.50 H	322	8.82	21.59
5	624.85	32.84 QP	46.00	-13.16	1.50 H	349	9.39	23.45
6	799.84	36.33 QP	46.00	-9.67	1.00 H	349	9.96	26.37
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	43.84	33.61 QP	40.00	-6.39	1.00 V	87	19.53	14.08
2	103.78	36.04 QP	43.50	-7.46	1.00 V	97	26.23	9.81
3	138.78	32.47 QP	43.50	-11.03	1.25 V	127	18.95	13.53
4	325.43	26.81 QP	46.00	-19.19	1.50 V	322	10.66	16.15
5	533.47	26.09 QP	46.00	-19.91	1.50 V	10	4.50	21.59
6	834.84	37.24 QP	46.00	-8.76	1.00 V	10	10.18	27.06

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25.0deg. C, 65.0%RH 1000hPa	TESTED BY	Mark Liao
TEST MODE	C		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	136.84	29.10 QP	43.50	-14.40	2.00 H	256	15.79	13.31
2	249.60	28.10 QP	46.00	-17.90	1.50 H	10	14.92	13.18
3	280.71	28.20 QP	46.00	-17.80	1.50 H	10	13.58	14.62
4	500.42	30.62 QP	46.00	-15.38	1.25 H	304	9.87	20.75
5	533.47	28.50 QP	46.00	-17.50	1.50 H	10	6.92	21.59
6	799.84	32.20 QP	46.00	-13.80	1.00 H	283	5.83	26.37
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	33.26 QP	40.00	-6.74	1.50 V	289	20.45	12.81
2	103.78	35.01 QP	43.50	-8.49	1.00 V	49	25.20	9.81
3	374.04	29.01 QP	46.00	-16.99	2.00 V	253	11.69	17.33
4	500.42	29.21 QP	46.00	-16.79	1.50 V	355	8.46	20.75
5	533.47	26.52 QP	46.00	-19.48	1.00 V	169	4.93	21.59
6	900.94	28.89 QP	46.00	-17.11	1.50 V	4	0.66	28.23

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25.0deg. C, 65.0%RH 1000hPa	TESTED BY	Mark Liao
TEST MODE	D		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	94.06	28.51 QP	43.50	-14.99	2.00 H	298	19.64	8.87
2	132.95	29.93 QP	43.50	-13.57	1.25 H	55	17.04	12.89
3	274.88	34.91 QP	46.00	-11.09	1.00 H	10	20.57	14.34
4	533.47	28.89 QP	46.00	-17.11	1.50 H	10	7.30	21.59
5	667.63	30.70 QP	46.00	-15.30	1.25 H	331	6.68	24.02
6	799.84	31.78 QP	46.00	-14.22	1.00 H	274	5.41	26.37
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	31.84	33.57 QP	40.00	-6.43	1.00 V	313	20.79	12.78
2	105.73	35.53 QP	43.50	-7.97	1.25 V	232	25.52	10.01
3	132.95	26.06 QP	43.50	-17.44	1.00 V	316	13.17	12.89
4	374.04	26.92 QP	46.00	-19.08	1.50 V	268	9.59	17.33
5	399.31	27.04 QP	46.00	-18.96	1.25 V	277	9.11	17.93
6	799.84	31.04 QP	46.00	-14.96	1.00 V	10	4.67	26.37

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25.0deg. C, 65.0%RH 1000hPa	TESTED BY	Mark Liao
TEST MODE	E		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	142.67	31.12 QP	43.50	-12.38	2.00 H	112	17.18	13.94
2	249.60	28.94 QP	46.00	-17.06	1.25 H	280	15.75	13.18
3	374.04	29.12 QP	46.00	-16.88	1.50 H	40	11.80	17.33
4	533.47	30.95 QP	46.00	-15.05	1.50 H	229	9.37	21.59
5	667.63	30.58 QP	46.00	-15.42	1.25 H	331	6.56	24.02
6	799.84	36.53 QP	46.00	-9.47	1.00 H	325	10.16	26.37
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	43.90	33.98 QP	40.00	-6.02	1.00 V	318	19.90	14.08
2	101.84	36.74 QP	43.50	-6.76	1.00 V	58	27.13	9.61
3	274.88	26.51 QP	46.00	-19.49	1.00 V	223	12.17	14.34
4	374.04	27.86 QP	46.00	-18.14	1.25 V	40	10.54	17.33
5	475.14	29.98 QP	46.00	-16.02	1.50 V	112	9.89	20.09
6	799.84	33.56 QP	46.00	-12.44	1.00 V	10	7.19	26.37

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	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.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 19, 2008	Nov. 18, 2009
RF signal cable Woken	5D-FB	Cable-HYC01-01	Dec. 31, 2008	Dec. 30, 2009
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Jun. 13, 2008	Jun. 12, 2009
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Dec. 04, 2008	Dec. 03, 2009
Software ADT	ADT_Cond_ V7.3.7	NA	NA	NA

- 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 test was performed in HwaYa Shielded Room 1.
 3. The VCCI Site Registration No. is C-2040.



A D T

4.2.3 TEST PROCEDURES

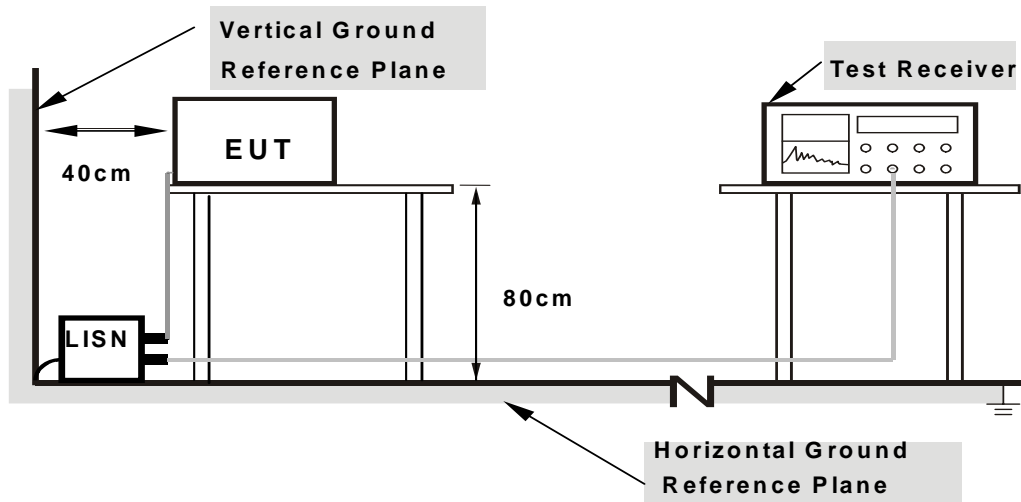
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

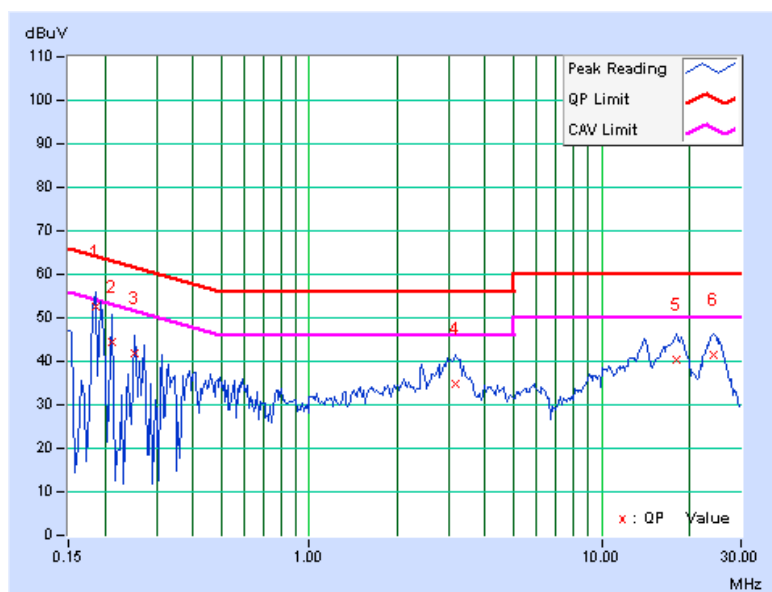
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA : 802.11g OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 64%RH, 1013hPa
INPUT POWER	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Antony Lee		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.185	0.13	52.60	-	52.73	-	64.25
2	0.213	0.13	44.32	-	44.45	-	63.11	53.11	-18.66	-
3	0.252	0.13	41.82	-	41.95	-	61.71	51.71	-19.75	-
4	3.164	0.31	34.46	-	34.77	-	56.00	46.00	-21.23	-
5	17.965	1.05	39.37	-	40.42	-	60.00	50.00	-19.58	-
6	24.160	1.21	40.23	-	41.44	-	60.00	50.00	-18.56	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



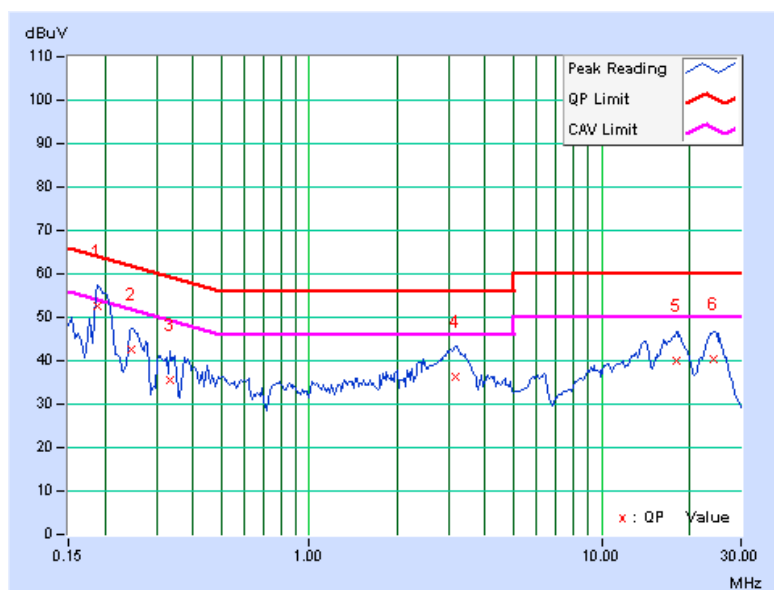


A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 64%RH, 1013hPa
INPUT POWER	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Antony Lee		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.15	52.48	-	52.63	-	64.08	54.08	-11.45	-
2	0.248	0.15	42.36	-	42.51	-	61.84	51.84	-19.32	-
3	0.334	0.16	35.27	-	35.43	-	59.36	49.36	-23.93	-
4	3.152	0.33	36.03	-	36.36	-	56.00	46.00	-19.64	-
5	17.992	0.92	39.17	-	40.09	-	60.00	50.00	-19.91	-
6	24.102	0.89	39.40	-	40.29	-	60.00	50.00	-19.71	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



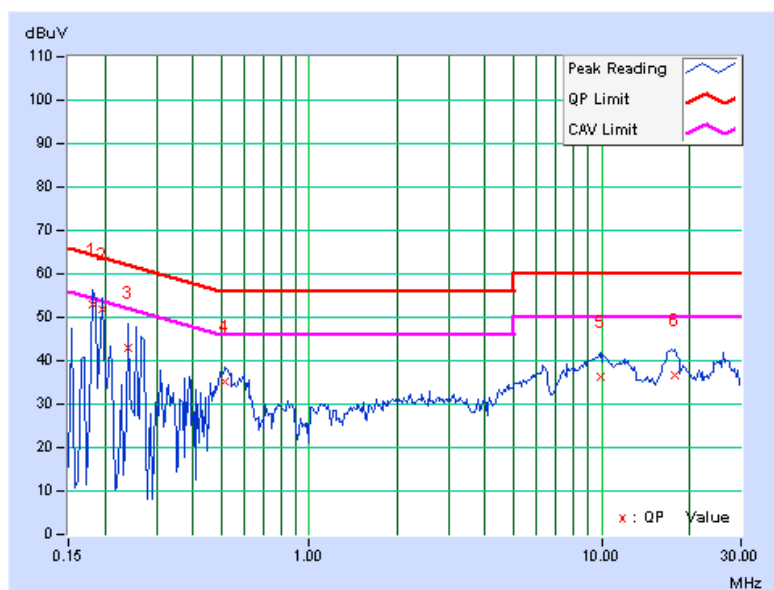


A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 64%RH, 1013hPa
INPUT POWER	120Vac, 60 Hz	TEST MODE	B
TESTED BY	Antony Lee		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.181	0.13	52.82	-	52.95	-	64.43	54.43	-11.48	-
2	0.197	0.13	51.65	-	51.78	-	63.74	53.74	-11.96	-
3	0.240	0.13	43.01	-	43.14	-	62.10	52.10	-18.96	-
4	0.517	0.15	35.11	-	35.26	-	56.00	46.00	-20.74	-
5	9.871	0.65	35.81	-	36.46	-	60.00	50.00	-23.54	-
6	17.746	1.04	35.70	-	36.74	-	60.00	50.00	-23.26	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



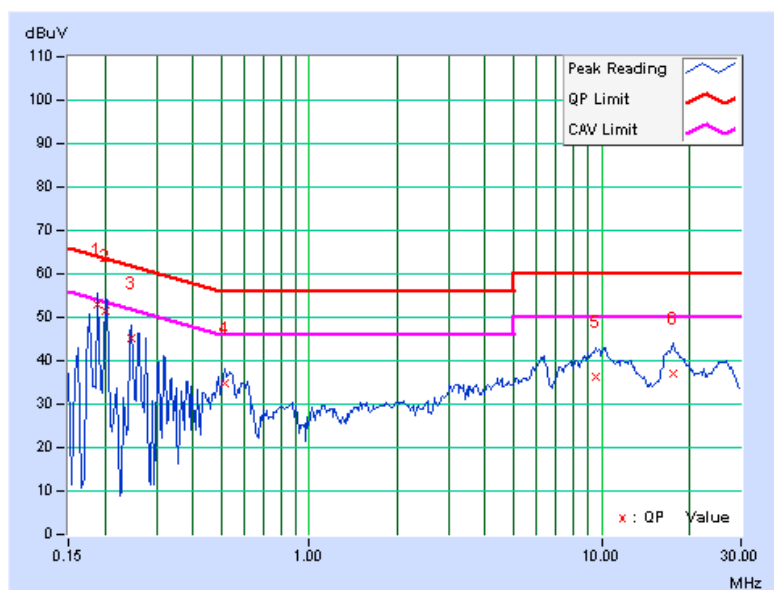


A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 64%RH, 1013hPa
INPUT POWER	120Vac, 60 Hz	TEST MODE	B
TESTED BY	Antony Lee		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.15	52.78	-	52.93	-	64.08	54.08	-11.15	-
2	0.201	0.15	51.19	-	51.34	-	63.58	53.58	-12.24	-
3	0.248	0.15	45.14	-	45.29	-	61.84	51.84	-16.54	-
4	0.517	0.17	34.66	-	34.83	-	56.00	46.00	-21.17	-
5	9.582	0.64	35.55	-	36.19	-	60.00	50.00	-23.81	-
6	17.531	0.90	36.27	-	37.17	-	60.00	50.00	-22.83	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



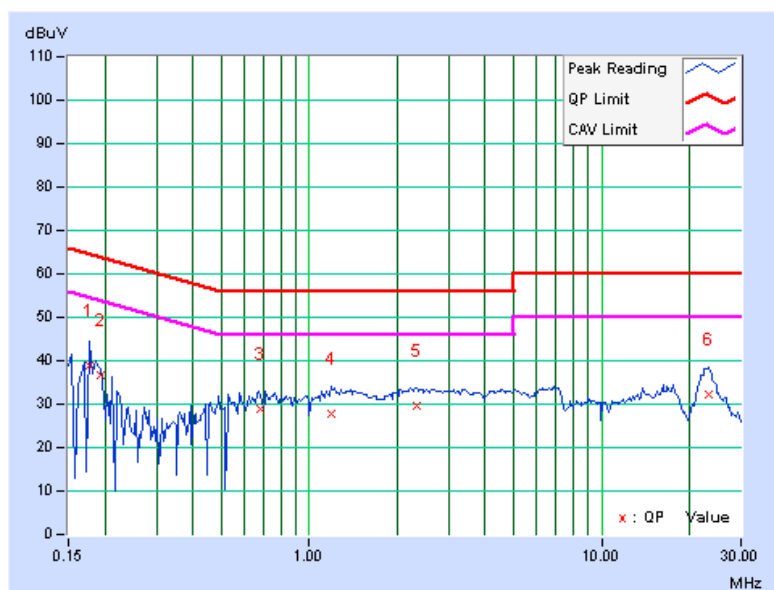


A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 64%RH, 1013hPa
INPUT POWER	120Vac, 60 Hz	TEST MODE	C
TESTED BY	Antony Lee		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.13	38.81	-	38.94	-	64.61	54.61	-25.67	-
2	0.195	0.13	36.44	-	36.57	-	63.84	53.84	-27.27	-
3	0.680	0.16	28.87	-	29.03	-	56.00	46.00	-26.97	-
4	1.188	0.19	27.75	-	27.94	-	56.00	46.00	-28.06	-
5	2.338	0.25	29.43	-	29.68	-	56.00	46.00	-26.32	-
6	23.406	1.20	30.90	-	32.10	-	60.00	50.00	-27.90	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



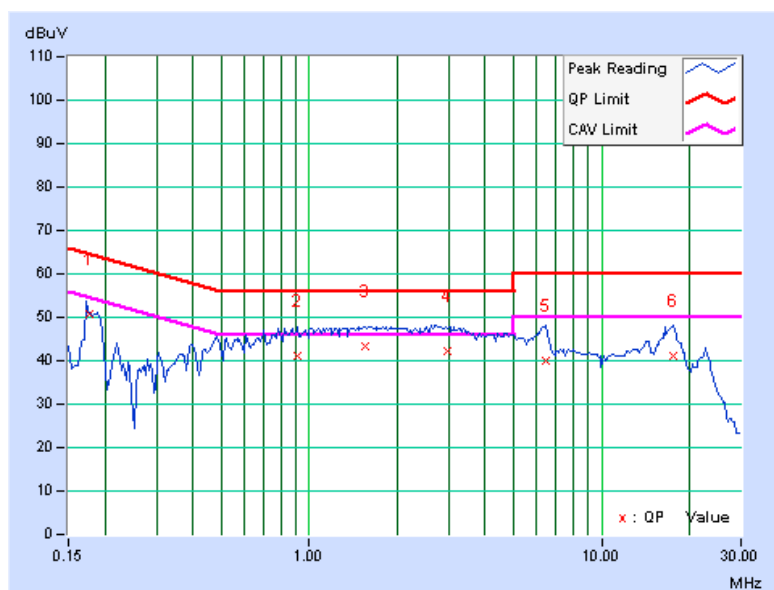


A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 64%RH, 1013hPa
INPUT POWER	120Vac, 60 Hz	TEST MODE	C
TESTED BY	Antony Lee		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.176	0.15	50.51	-	50.66	-	64.67	54.67	-14.02	-
2	0.912	0.19	40.92	-	41.11	-	56.00	46.00	-14.89	-
3	1.547	0.23	42.95	-	43.18	-	56.00	46.00	-12.82	-
4	2.958	0.32	41.99	-	42.31	-	56.00	46.00	-13.69	-
5	6.465	0.50	39.63	-	40.13	-	60.00	50.00	-19.87	-
6	17.523	0.90	40.15	-	41.05	-	60.00	50.00	-18.95	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



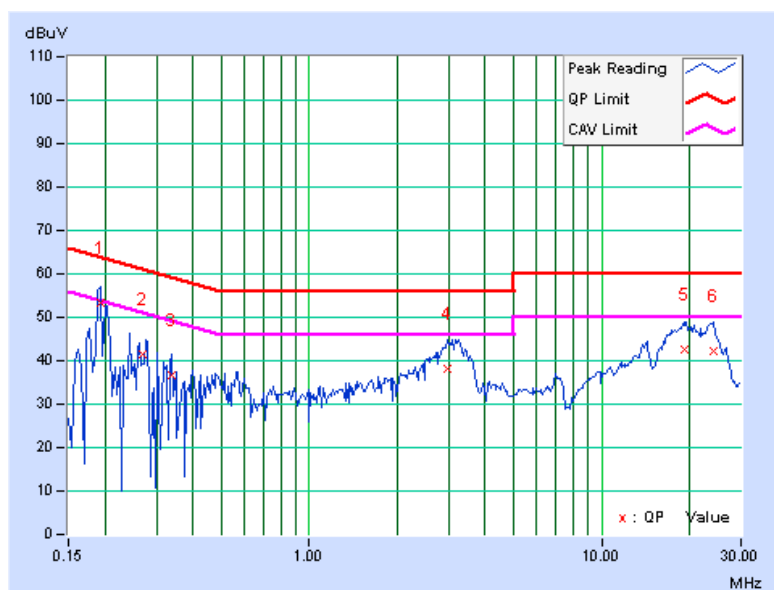


A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 64%RH, 1013hPa
INPUT POWER	120Vac, 60 Hz	TEST MODE	D
TESTED BY	Antony Lee		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.13	53.10	-	53.23	-	63.91	53.91	-10.68	-
2	0.269	0.13	41.33	-	41.46	-	61.16	51.16	-19.70	-
3	0.338	0.14	36.45	-	36.59	-	59.26	49.26	-22.68	-
4	2.984	0.30	37.96	-	38.26	-	56.00	46.00	-17.74	-
5	19.113	1.11	41.41	-	42.52	-	60.00	50.00	-17.48	-
6	24.133	1.21	40.89	-	42.10	-	60.00	50.00	-17.90	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



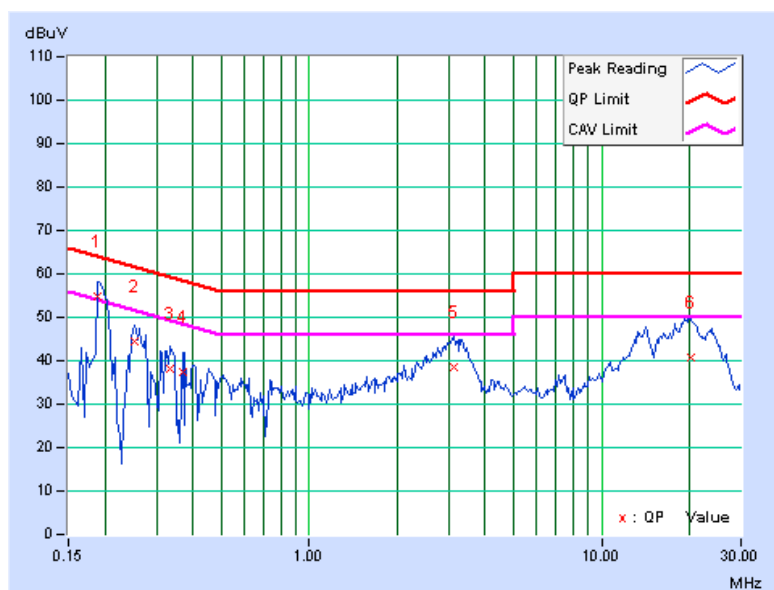


A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 64%RH, 1013hPa
INPUT POWER	120Vac, 60 Hz	TEST MODE	D
TESTED BY	Antony Lee		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.15	54.62	40.12	54.77	40.27	64.08	54.08	-9.31	-13.81
2	0.252	0.15	44.16	-	44.31	-	61.71	51.71	-17.39	-
3	0.334	0.16	37.90	-	38.06	-	59.36	49.36	-21.30	-
4	0.369	0.16	37.15	-	37.31	-	58.53	48.53	-21.22	-
5	3.133	0.33	38.12	-	38.45	-	56.00	46.00	-17.55	-
6	20.227	0.98	39.93	-	40.91	-	60.00	50.00	-19.09	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



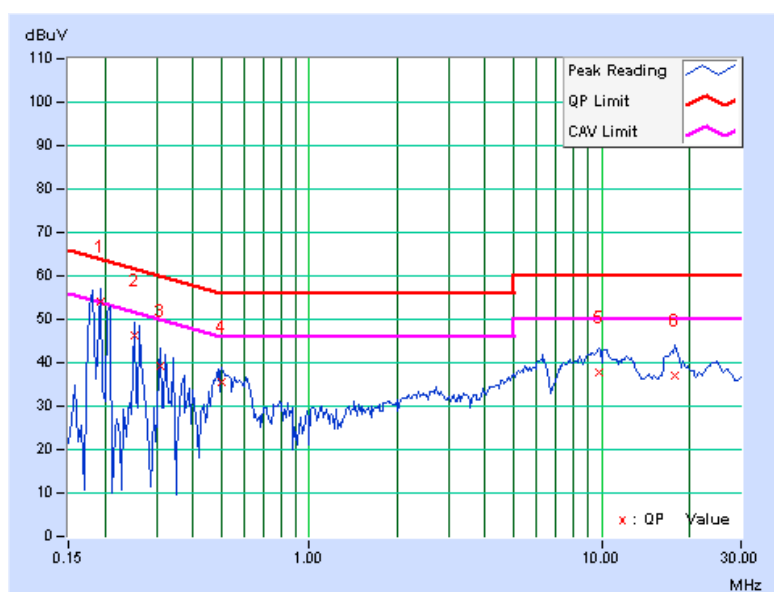


A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 64%RH, 1013hPa
INPUT POWER	120Vac, 60 Hz	TEST MODE	E
TESTED BY	Antony Lee		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.13	53.77	-	53.90	-	63.91	53.91	-10.01	-
2	0.252	0.13	46.14	-	46.27	-	61.71	51.71	-15.43	-
3	0.310	0.14	39.22	-	39.36	-	59.97	49.97	-20.61	-
4	0.502	0.15	35.39	-	35.54	-	56.00	46.00	-20.46	-
5	9.750	0.65	37.10	-	37.75	-	60.00	50.00	-22.25	-
6	17.922	1.05	35.83	-	36.88	-	60.00	50.00	-23.12	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



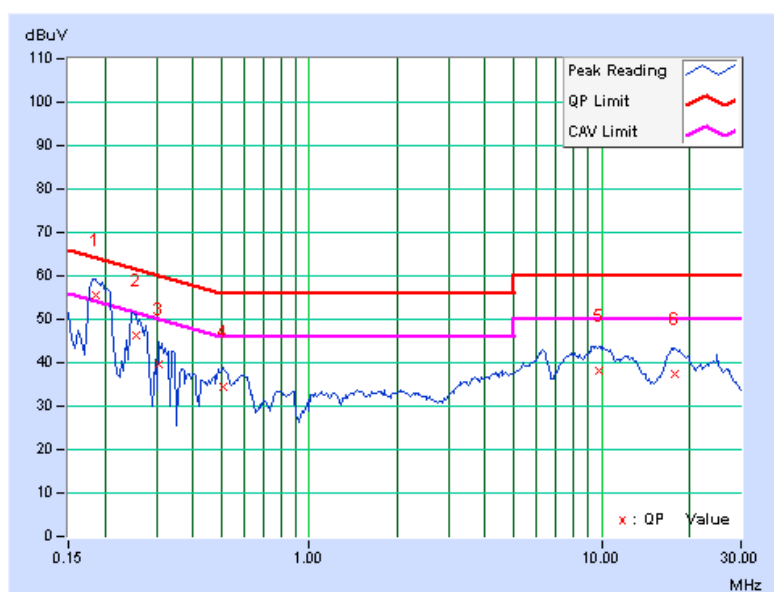


A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 64%RH, 1013hPa
INPUT POWER	120Vac, 60 Hz	TEST MODE	E
TESTED BY	Antony Lee		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.185	0.15	55.32	39.30	55.47	39.45	64.25	54.25	-8.78	-14.80
2	0.255	0.15	46.06	-	46.21	-	61.58	51.58	-15.36	-
3	0.306	0.16	39.49	-	39.65	-	60.07	50.07	-20.43	-
4	0.505	0.17	34.34	-	34.51	-	56.00	46.00	-21.49	-
5	9.848	0.65	37.32	-	37.97	-	60.00	50.00	-22.03	-
6	17.930	0.91	36.39	-	37.30	-	60.00	50.00	-22.70	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.





A D T

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

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 by the following approval agencies according to ISO/IEC 17025.

USA	FCC, NVLAP
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA, CSA
R.O.C.	TAF, BSMI, NCC
Netherlands	Telefication
Singapore	GOST-ASIA(MOU)
Russia	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF Lab
Tel: 886-3-5935343
Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab
Tel: 886-3-3183232
Fax: 886-3-3185050

Web Site: www.adt.com.tw

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



A D T

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.

---END---