

FCC 15B TEST REPORT

REPORT NO.: FD981009L01D

MODEL NO.: 3630APC

RECEIVED: May 18, 2011

TESTED: May 26 ~ May 27, 2011

ISSUED: May 31, 2011

APPLICANT: Motorola Inc.

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	NA	May 31, 2011

1 CERTIFICATION

PRODUCT: 3630APC Outdoor Connectorized Access Point

MODEL: 3630APC

BRAND: Motorola

APPLICANT: Motorola Inc.

TESTED: May 26 ~ May 27, 2011

TEST SAMPLE: ENGINEERING SAMPLE

TEST STANDARDS: FCC Part 15, Subpart B, Class B
ANSI C63.4-2003

The above equipment (Model no.: 3630APC) 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 : Andrea Hsia , DATE: May 31, 2011
Andrea Hsia / Specialist

APPROVED BY : Gary Chang , DATE: May 31, 2011
Gary Chang / Assistant Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

STANDARD SECTION	TEST TYPE	RESULT	REMARKS
FCC Part 15, Subpart B, Class B	Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -3.83dB at 0.466MHz.
	Radiated Emission	PASS	Meet the requirement of limit. Minimum passing margin is -1.0dB at 55.18, 55.99, 152.39, 153.85, 164.02, 164.06, 175.72, 313.77 & 570.41MHz

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	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.34 dB
	200MHz ~1000MHz	3.35 dB
	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

PRODUCT	3630APC Outdoor Connectorized Access Point	
MODEL NO.	3630APC	
POWER SUPPLY	56Vdc from PoE	
MODULATION TYPE	QPSK, 16QAM, 64QAM	
CODING RATE	UL	QPSK: 1/2, 3/4
		16QAM: 1/2, 3/4
		64QAM: 1/2, 2/3, 3/4, 5/6
	DL	QPSK: 1/2, 3/4
		16QAM: 1/2, 3/4
		64QAM: 1/2, 2/3, 3/4, 5/6
MODULATION TECHNOLOGY	OFDMA	
DUPLEX METHOD	TDD	
OPERATING FREQUENCY	3651.75MHz ~ 3698.25MHz	
CHANNEL BANDWIDTH	3.5MHz, 5.0MHz, 7.0MHz, 10.0MHz	
ANTENNA TYPE	Sector Antenna with 16.5dBi gain (Optional accessory)	
OPERATION TEMPERATURE RANGE	-40°C ~ 70°C	
DATA CABLE	1.7m shielded RJ45 cable without core	
I/O PORTS	RJ45	
ACCESSORY DEVICES	POE (Optional accessory)	

NOTE:

1. This report is a supplementary report of FD981009L01. The differences compared with original report are changing frequency range to 3650MHz ~ 3700MHz by software and removing antenna core. Therefore, we re-tested all the test items and presented in the test report.
2. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

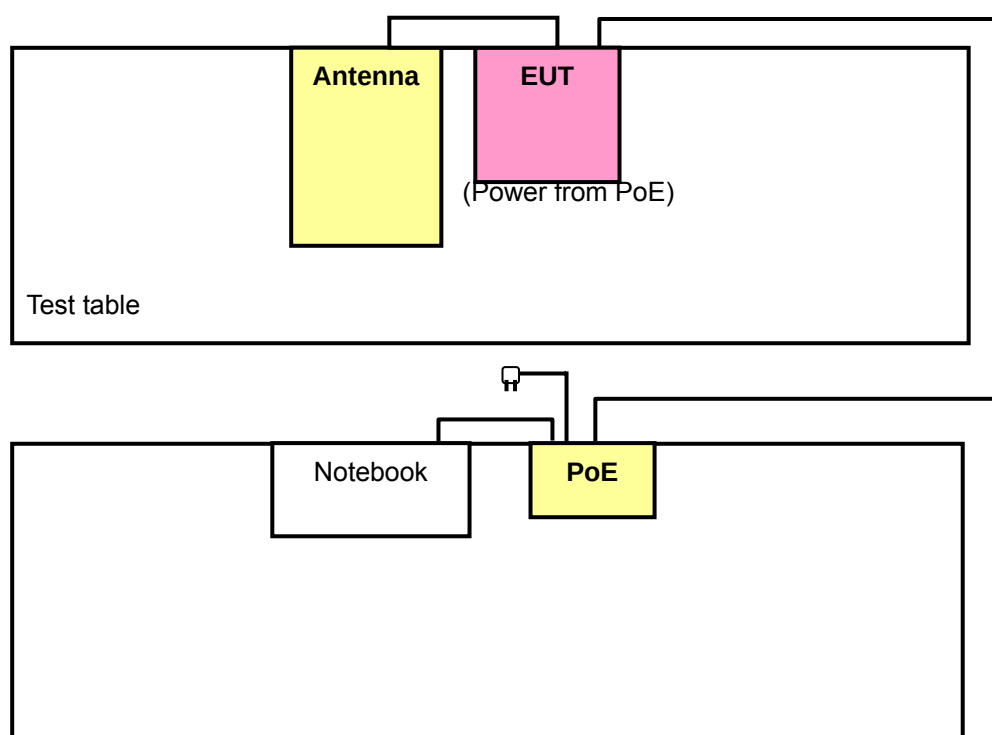
3.2 DESCRIPTION OF TEST MODES

Three channels had been tested for each channel bandwidth.

CHANNEL BANDWIDTH: 3.5 MHz	CHANNEL BANDWIDTH: 5 MHz
Low channel (L): 3651.75MHz	Low channel (L): 3652.50MHz
Middle channel (M): 3675.00MHz	Middle channel (M): 3675.00MHz
High channel (H): 3698.25MHz	High channel (H): 3697.50MHz

CHANNEL BANDWIDTH: 7 MHz	CHANNEL BANDWIDTH: 10 MHz
Low channel (L): 3653.50MHz	Low channel (L): 3655.00MHz
Middle channel (M): 3675.00MHz	Middle channel (M): 3675.00MHz
High channel (H): 3696.50MHz	High channel (H): 3695.00MHz

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO			DESCRIPTION
	RE≥1G	RE<1G	PLC	
-	√	√	√	-

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

RADIATED EMISSION MEASUREMENT (BELOW 1 GHz):

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

TESTED CHANNEL	MODULATION TECHNOLOGY	CHANNEL BANDWIDTH	MODULATION TYPE	CODING RATE
M	OFDMA	3.5MHz	QPSK	1/2
H	OFDMA	5.0MHz	QPSK	1/2
L	OFDMA	7.0MHz	QPSK	1/2
H	OFDMA	10.0MHz	QPSK	1/2

RADIATED EMISSION MEASUREMENT (ABOVE 1 GHz):

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

TESTED CHANNEL	MODULATION TECHNOLOGY	CHANNEL BANDWIDTH	MODULATION TYPE	CODING RATE
L, M, H	OFDMA	3.5MHz	QPSK	1/2
L, M, H	OFDMA	5.0MHz	QPSK	1/2
L, M, H	OFDMA	7.0MHz	QPSK	1/2
L, M, H	OFDMA	10.0MHz	QPSK	1/2

POWER LINE CONDUCTED EMISSION TEST:

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

TESTED CHANNEL	MODULATION TECHNOLOGY	CHANNEL BANDWIDTH	MODULATION TYPE	CODING RATE
M	OFDMA	3.5MHz	QPSK	1/2
H	OFDMA	5.0MHz	QPSK	1/2
L	OFDMA	7.0MHz	QPSK	1/2
H	OFDMA	10.0MHz	QPSK	1/2

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE < 1G	25deg. C, 65%RH, 1008 hPa	120Vac, 60Hz	David Huang
RE ≥ 1G	24deg. C, 65%RH, 1000 hPa	120Vac, 60Hz	Brad Wu
PLC	25deg. C, 65%RH, 1008 hPa	120Vac, 60Hz	Mark Liao

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 B, Class B

ANSI C63.4-2003

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

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	DELL	D600	CN-0G5152-48 643-49C-8226	FCC DoC Approved
2	POE	MOTOROLA	PSI45W-560	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	10m non-shielded RJ45 UTP cable.

NOTE:

1. All power cords of the above support units are non shielded (1.8m).
2. Item 1 ~ 2 acted as a communication partners to transfer data.
3. Item 2 was supplied from client.

4 TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT (BELOW 1GHz)

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.109 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
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	ESIB7	100212	Jul. 22, 2010	Jul. 21, 2011
Spectrum Analyzer Agilent	E4446A	MY48250266	Aug. 11, 2010	Aug. 10, 2011
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Apr. 13, 2011	Apr. 12, 2012
HORN Antenna SCHWARZBECK	9120D	9120D-405	Feb. 08, 2011	Feb. 07, 2012
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 27, 2010	Dec. 26, 2011
Preamplifier Agilent	8447D	2944A10633	Nov. 02, 2010	Nov. 01, 2011
Preamplifier Agilent	8449B	3008A01964	Nov. 02, 2010	Nov. 01, 2011
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	295014/4	Sep 03, 2010	Sep 02, 2011
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	12738/6	Sep 03, 2010	Sep 02, 2011
Software ADT.	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA	NA
Turn Table ADT.	TT100.	TT93021703	NA	NA
Turn Table Controller ADT.	SC100.	SC93021703	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 3.
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 IC 7450F-3.

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 & open side area. 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.

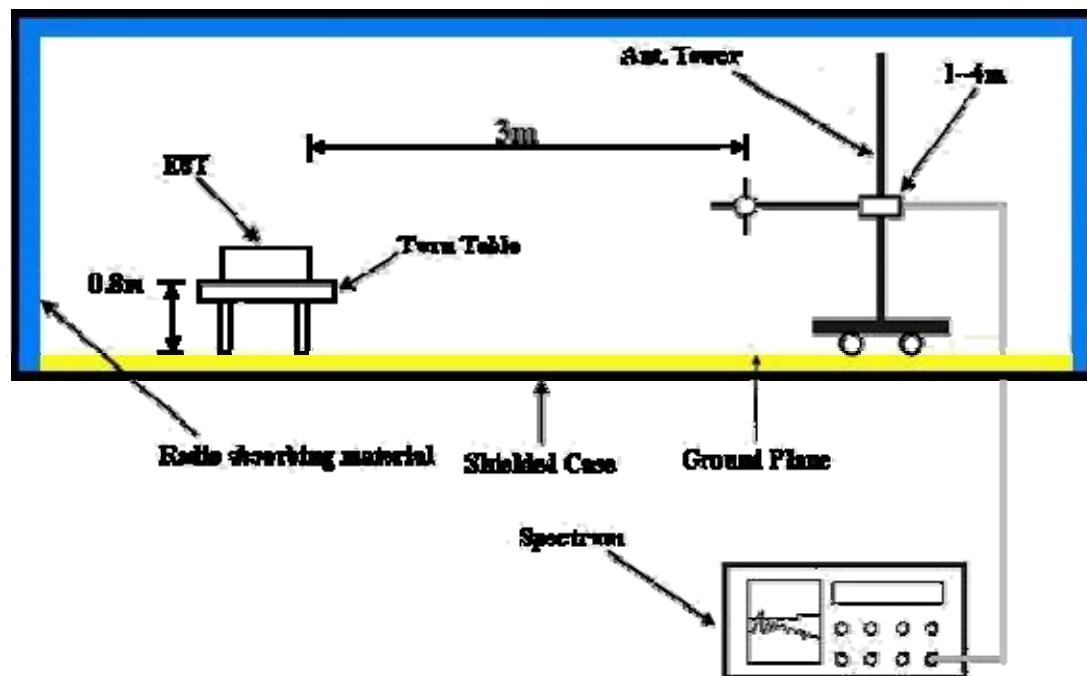
NOTE:

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. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

4.1.6 EUT OPERATING CONDITIONS

- Placed the EUT on the testing table.
- Prepared one notebook system outside of testing area to act as a communication partners.
- The communication partner connected with EUT via an RJ45 UTP cable and run a test program (provided by manufacturer) to enable EUT under receiving condition continuously at specific channel frequency.

4.1.7 TEST RESULTS

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Low Channel	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH 1000 hPa	TESTED BY	Brad Wu
CHANNEL BANDWIDTH	3.5MHz		

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	1000.00	50.20 PK	74.00	-23.80	1.20 H	129	22.50	27.70
2	1000.00	41.60 AV	54.00	-12.40	1.20 H	129	13.90	27.70
3	1091.00	50.40 PK	74.00	-23.60	1.05 H	255	22.40	28.00
4	1091.00	41.20 AV	54.00	-12.80	1.05 H	255	13.20	28.00
5	2280.00	45.60 PK	74.00	-28.40	1.03 H	106	14.20	31.40
6	2280.00	34.80 AV	54.00	-19.20	1.03 H	106	3.40	31.40
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	1000.00	48.00 PK	74.00	-26.00	1.02 V	210	20.30	27.70
2	1000.00	38.40 AV	54.00	-15.60	1.02 V	210	10.70	27.70
3	1091.00	49.30 PK	74.00	-24.70	1.14 V	170	21.30	28.00
4	1091.00	39.30 AV	54.00	-14.70	1.14 V	170	11.30	28.00
5	2280.00	46.00 PK	74.00	-28.00	1.10 V	202	14.60	31.40
6	2280.00	35.10 AV	54.00	-18.90	1.10 V	202	3.70	31.40

- 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	Mid. Channel	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH 1000 hPa	TESTED BY	Brad Wu
CHANNEL BANDWIDTH	3.5MHz		

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	1000.00	50.50 PK	74.00	-23.50	1.15 H	131	22.80	27.70
2	1000.00	41.80 AV	54.00	-12.20	1.15 H	131	14.10	27.70
3	1091.00	50.60 PK	74.00	-23.40	1.03 H	251	22.60	28.00
4	1091.00	41.50 AV	54.00	-12.50	1.03 H	251	13.50	28.00
5	2280.00	45.30 PK	74.00	-28.70	1.05 H	231	13.90	31.40
6	2280.00	34.50 AV	54.00	-19.50	1.05 H	231	3.10	31.40
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	1000.00	48.30 PK	74.00	-25.70	1.01 V	209	20.60	27.70
2	1000.00	38.60 AV	54.00	-15.40	1.01 V	209	10.90	27.70
3	1091.00	49.50 PK	74.00	-24.50	1.12 V	181	21.50	28.00
4	1091.00	39.40 AV	54.00	-14.60	1.12 V	181	11.40	28.00
5	2280.00	46.50 PK	74.00	-27.50	1.08 V	210	15.10	31.40
6	2280.00	35.40 AV	54.00	-18.60	1.08 V	210	4.00	31.40

- 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	High Channel	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH 1000 hPa	TESTED BY	Brad Wu
CHANNEL BANDWIDTH	3.5MHz		

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	1000.00	50.60 PK	74.00	-23.40	1.08 H	26	22.90	27.70
2	1000.00	42.00 AV	54.00	-12.00	1.08 H	26	14.30	27.70
3	1091.00	50.50 PK	74.00	-23.50	1.14 H	192	22.50	28.00
4	1091.00	41.40 AV	54.00	-12.60	1.14 H	192	13.40	28.00
5	2288.00	46.00 PK	74.00	-28.00	1.12 H	34	14.50	31.50
6	2288.00	35.10 AV	54.00	-18.90	1.12 H	34	3.60	31.50
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	1000.00	48.50 PK	74.00	-25.50	1.08 V	216	20.80	27.70
2	1000.00	38.80 AV	54.00	-15.20	1.08 V	216	11.10	27.70
3	1091.00	49.80 PK	74.00	-24.20	1.01 V	24	21.80	28.00
4	1091.00	39.60 AV	54.00	-14.40	1.01 V	24	11.60	28.00
5	2280.00	46.40 PK	74.00	-27.60	1.09 V	220	15.00	31.40
6	2280.00	35.30 AV	54.00	-18.70	1.09 V	220	3.90	31.40

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	Low Channel	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH 1000 hPa	TESTED BY	Brad Wu
CHANNEL BANDWIDTH	5MHz		

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	1000.00	50.00 PK	74.00	-24.00	1.04 H	221	22.30	27.70
2	1000.00	41.30 AV	54.00	-12.70	1.04 H	221	13.60	27.70
3	1091.00	50.10 PK	74.00	-23.90	1.18 H	65	22.10	28.00
4	1091.00	40.80 AV	54.00	-13.20	1.18 H	65	12.80	28.00
5	2280.00	45.20 PK	74.00	-28.80	1.11 H	81	13.80	31.40
6	2280.00	34.40 AV	54.00	-19.60	1.11 H	81	3.00	31.40
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	1000.00	47.60 PK	74.00	-26.40	1.13 V	26	19.90	27.70
2	1000.00	38.00 AV	54.00	-16.00	1.13 V	26	10.30	27.70
3	1091.00	49.00 PK	74.00	-25.00	1.14 V	25	21.00	28.00
4	1091.00	39.10 AV	54.00	-14.90	1.14 V	25	11.10	28.00
5	2280.00	45.80 PK	74.00	-28.20	1.13 V	29	14.40	31.40
6	2280.00	34.90 AV	54.00	-19.10	1.13 V	29	3.50	31.40

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	Mid. Channel	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH 1000 hPa	TESTED BY	Brad Wu
CHANNEL BANDWIDTH	5MHz		

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	1000.00	49.70 PK	74.00	-24.30	1.13 H	194	22.00	27.70
2	1000.00	41.00 AV	54.00	-13.00	1.13 H	194	13.30	27.70
3	1091.00	49.90 PK	74.00	-24.10	1.11 H	51	21.90	28.00
4	1091.00	40.60 AV	54.00	-13.40	1.11 H	51	12.60	28.00
5	2280.00	45.00 PK	74.00	-29.00	1.05 H	23	13.60	31.40
6	2280.00	34.10 AV	54.00	-19.90	1.05 H	23	2.70	31.40
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	1000.00	47.40 PK	74.00	-26.60	1.10 V	58	19.70	27.70
2	1000.00	37.80 AV	54.00	-16.20	1.10 V	58	10.10	27.70
3	1091.00	48.60 PK	74.00	-25.40	1.01 V	56	20.60	28.00
4	1091.00	38.80 AV	54.00	-15.20	1.01 V	56	10.80	28.00
5	2280.00	45.50 PK	74.00	-28.50	1.08 V	61	14.10	31.40
6	2280.00	34.60 AV	54.00	-19.40	1.08 V	61	3.20	31.40

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	High Channel	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH 1000 hPa	TESTED BY	Brad Wu
CHANNEL BANDWIDTH	5MHz		

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	1000.00	49.50 PK	74.00	-24.50	1.08 H	66	21.80	27.70
2	1000.00	40.80 AV	54.00	-13.20	1.08 H	66	13.10	27.70
3	1091.00	49.60 PK	74.00	-24.40	1.15 H	246	21.60	28.00
4	1091.00	40.30 AV	54.00	-13.70	1.15 H	246	12.30	28.00
5	2280.00	44.60 PK	74.00	-29.40	1.05 H	301	13.20	31.40
6	2280.00	33.80 AV	54.00	-20.20	1.05 H	301	2.40	31.40
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	1000.00	47.20 PK	74.00	-26.80	1.14 V	25	19.50	27.70
2	1000.00	37.60 AV	54.00	-16.40	1.14 V	25	9.90	27.70
3	2280.00	45.30 PK	74.00	-28.70	1.02 V	31	13.90	31.40
4	2280.00	34.20 AV	54.00	-19.80	1.02 V	31	2.80	31.40
5	10910.00	48.30 PK	74.00	-25.70	1.05 V	203	-2.10	50.40
6	10910.00	38.60 AV	54.00	-15.40	1.05 V	203	-11.80	50.40

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	Low Channel	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH 1000 hPa	TESTED BY	Brad Wu
CHANNEL BANDWIDTH	7MHz		

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	1000.00	50.60 PK	74.00	-23.40	1.08 H	234	22.90	27.70
2	1000.00	41.90 AV	54.00	-12.10	1.08 H	234	14.20	27.70
3	1091.00	50.80 PK	74.00	-23.20	1.09 H	263	22.80	28.00
4	1091.00	41.60 AV	54.00	-12.40	1.09 H	263	13.60	28.00
5	2280.00	45.90 PK	74.00	-28.10	1.14 H	219	14.50	31.40
6	2280.00	35.20 AV	54.00	-18.80	1.14 H	219	3.80	31.40
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	1000.00	48.40 PK	74.00	-25.60	1.06 V	223	20.70	27.70
2	1000.00	38.60 AV	54.00	-15.40	1.06 V	223	10.90	27.70
3	1091.00	49.80 PK	74.00	-24.20	1.19 V	192	21.80	28.00
4	1091.00	39.60 AV	54.00	-14.40	1.19 V	192	11.60	28.00
5	2280.00	46.60 PK	74.00	-27.40	1.09 V	149	15.20	31.40
6	2280.00	35.80 AV	54.00	-18.20	1.09 V	149	4.40	31.40

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	Mid. Channel	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH 1000 hPa	TESTED BY	Brad Wu
CHANNEL BANDWIDTH	7MHz		

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	1000.00	50.90 PK	74.00	-23.10	1.03 H	241	23.20	27.70
2	1000.00	42.10 AV	54.00	-11.90	1.03 H	241	14.40	27.70
3	1091.00	51.20 PK	74.00	-22.80	1.10 H	268	23.20	28.00
4	1091.00	41.90 AV	54.00	-12.10	1.10 H	268	13.90	28.00
5	2280.00	46.30 PK	74.00	-27.70	1.14 H	22	14.90	31.40
6	2280.00	35.60 AV	54.00	-18.40	1.14 H	22	4.20	31.40
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	1000.00	48.60 PK	74.00	-25.40	1.04 V	211	20.90	27.70
2	1000.00	38.90 AV	54.00	-15.10	1.04 V	211	11.20	27.70
3	1091.00	50.10 PK	74.00	-23.90	1.14 V	236	22.10	28.00
4	1091.00	39.90 AV	54.00	-14.10	1.14 V	236	11.90	28.00
5	2280.00	46.80 PK	74.00	-27.20	1.13 V	61	15.40	31.40
6	2280.00	36.10 AV	54.00	-17.90	1.13 V	61	4.70	31.40

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	High Channel	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH 1000 hPa	TESTED BY	Brad Wu
CHANNEL BANDWIDTH	7MHz		

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	1000.00	51.30 PK	74.00	-22.70	1.06 H	256	23.60	27.70
2	1000.00	42.50 AV	54.00	-11.50	1.06 H	256	14.80	27.70
3	1091.00	51.50 PK	74.00	-22.50	1.08 H	216	23.50	28.00
4	1091.00	42.10 AV	54.00	-11.90	1.08 H	216	14.10	28.00
5	2280.00	46.50 PK	74.00	-27.50	1.19 H	81	15.10	31.40
6	2280.00	35.90 AV	54.00	-18.10	1.19 H	81	4.50	31.40
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	1000.00	48.90 PK	74.00	-25.10	1.03 V	56	21.20	27.70
2	1000.00	39.20 AV	54.00	-14.80	1.03 V	56	11.50	27.70
3	1091.00	50.40 PK	74.00	-23.60	1.11 V	195	22.40	28.00
4	1091.00	40.20 AV	54.00	-13.80	1.11 V	195	12.20	28.00
5	2280.00	47.00 PK	74.00	-27.00	1.21 V	58	15.60	31.40
6	2280.00	36.40 AV	54.00	-17.60	1.21 V	58	5.00	31.40

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	Low Channel	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH 1000 hPa	TESTED BY	Brad Wu
CHANNEL BANDWIDTH	10MHz		

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	1000.00	50.00 PK	74.00	-24.00	1.13 H	54	22.30	27.70
2	1000.00	41.30 AV	54.00	-12.70	1.13 H	54	13.60	27.70
3	1091.00	50.10 PK	74.00	-23.90	1.04 H	215	22.10	28.00
4	1091.00	41.00 AV	54.00	-13.00	1.04 H	215	13.00	28.00
5	2280.00	45.20 PK	74.00	-28.80	1.11 H	56	13.80	31.40
6	2280.00	34.50 AV	54.00	-19.50	1.11 H	56	3.10	31.40
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	1000.00	47.60 PK	74.00	-26.40	1.01 V	195	19.90	27.70
2	1000.00	38.10 AV	54.00	-15.90	1.01 V	195	10.40	27.70
3	1091.00	49.10 PK	74.00	-24.90	1.02 V	53	21.10	28.00
4	1091.00	39.20 AV	54.00	-14.80	1.02 V	53	11.20	28.00
5	2280.00	45.80 PK	74.00	-28.20	1.09 V	66	14.40	31.40
6	2280.00	34.90 AV	54.00	-19.10	1.09 V	66	3.50	31.40

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	Mid. Channel	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH 1000 hPa	TESTED BY	Brad Wu
CHANNEL BANDWIDTH	10MHz		

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	1000.00	50.30 PK	74.00	-23.70	1.12 H	64	22.60	27.70
2	1000.00	41.60 AV	54.00	-12.40	1.12 H	64	13.90	27.70
3	1091.00	50.50 PK	74.00	-23.50	1.02 H	239	22.50	28.00
4	1091.00	41.30 AV	54.00	-12.70	1.02 H	239	13.30	28.00
5	2280.00	45.50 PK	74.00	-28.50	1.18 H	91	14.10	31.40
6	2280.00	34.80 AV	54.00	-19.20	1.18 H	91	3.40	31.40
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	1000.00	47.90 PK	74.00	-26.10	1.04 V	251	20.20	27.70
2	1000.00	38.30 AV	54.00	-15.70	1.04 V	251	10.60	27.70
3	1091.00	49.30 PK	74.00	-24.70	1.05 V	220	21.30	28.00
4	1091.00	39.50 AV	54.00	-14.50	1.05 V	220	11.50	28.00
5	2280.00	46.10 PK	74.00	-27.90	1.02 V	156	14.70	31.40
6	2280.00	35.20 AV	54.00	-18.80	1.02 V	156	3.80	31.40

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	High Channel	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH 1000 hPa	TESTED BY	Brad Wu
CHANNEL BANDWIDTH	10MHz		

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	1000.00	50.60 PK	74.00	-23.40	1.09 H	94	22.90	27.70
2	1000.00	41.80 AV	54.00	-12.20	1.09 H	94	14.10	27.70
3	1091.00	50.80 PK	74.00	-23.20	1.14 H	248	22.80	28.00
4	1091.00	41.60 AV	54.00	-12.40	1.14 H	248	13.60	28.00
5	2280.00	45.90 PK	74.00	-28.10	1.10 H	246	14.50	31.40
6	2280.00	35.10 AV	54.00	-18.90	1.10 H	246	3.70	31.40
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	1000.00	48.30 PK	74.00	-25.70	1.01 V	216	20.60	27.70
2	1000.00	38.60 AV	54.00	-15.40	1.01 V	216	10.90	27.70
3	1091.00	49.60 PK	74.00	-24.40	1.10 V	219	21.60	28.00
4	1091.00	39.80 AV	54.00	-14.20	1.10 V	219	11.80	28.00
5	2280.00	46.40 PK	74.00	-27.60	1.06 V	88	15.00	31.40
6	2280.00	35.60 AV	54.00	-18.40	1.06 V	88	4.20	31.40

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.

BELOW 1GHz WORST-CASE DATA :

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Mid. Channel	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1008 hPa	TESTED BY	David Huang
CHANNEL BANDWIDTH	3.5MHz		

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	166.00	42.20 QP	43.50	-1.30	1.00 H	229	28.20	14.00
2	245.72	43.30 QP	46.00	-2.70	1.00 H	73	30.50	12.80
3	313.77	45.00 QP	46.00	-1.00	1.00 H	55	29.70	15.30
4	364.32	37.70 QP	46.00	-8.30	1.00 H	187	21.10	16.60
5	570.41	35.00 QP	46.00	-11.00	2.00 H	316	13.20	21.80
6	727.90	38.70 QP	46.00	-7.30	2.00 H	49	14.20	24.50
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	55.99	39.00 QP	40.00	-1.00	1.00 V	299	25.30	13.70
2	132.15	42.30 QP	43.50	-1.20	1.00 V	175	28.80	13.50
3	153.85	42.50 QP	43.50	-1.00	1.00 V	163	27.90	14.60
4	164.02	42.50 QP	43.50	-1.00	1.00 V	185	28.20	14.30
5	173.78	41.50 QP	43.50	-2.00	1.00 V	46	28.50	13.00
6	570.41	41.30 QP	46.00	-4.70	2.00 V	337	19.50	21.80

- 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	High Channel	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1008 hPa	TESTED BY	David Huang
CHANNEL BANDWIDTH	5.0MHz		

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	164.06	42.50 QP	43.50	-1.00	1.59 H	226	28.20	14.30
2	245.72	43.70 QP	46.00	-2.30	1.00 H	223	30.90	12.80
3	313.77	45.00 QP	46.00	-1.00	1.00 H	61	29.70	15.30
4	362.37	37.40 QP	46.00	-8.60	1.00 H	61	20.90	16.50
5	570.41	36.70 QP	46.00	-9.30	2.00 H	259	14.90	21.80
6	727.90	39.30 QP	46.00	-6.70	1.00 H	40	14.80	24.50
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	55.18	39.00 QP	40.00	-1.00	1.00 V	271	25.20	13.80
2	131.00	42.40 QP	43.50	-1.10	1.00 V	202	29.00	13.40
3	152.39	42.30 QP	43.50	-1.20	1.00 V	166	27.70	14.60
4	164.06	42.50 QP	43.50	-1.00	1.00 V	199	28.20	14.30
5	175.72	42.50 QP	43.50	-1.00	1.00 V	49	29.70	12.80
6	570.41	41.30 QP	46.00	-4.70	2.00 V	340	19.50	21.80

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	Low Channel	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1008 hPa	TESTED BY	David Huang
CHANNEL BANDWIDTH	7.0MHz		

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	152.39	42.50 QP	43.50	-1.00	2.00 H	79	27.90	14.60
2	164.06	42.50 QP	43.50	-1.00	2.00 H	220	28.20	14.30
3	173.78	42.10 QP	43.50	-1.40	2.00 H	55	29.10	13.00
4	245.72	42.20 QP	46.00	-3.80	1.00 H	193	29.40	12.80
5	313.77	42.10 QP	46.00	-3.90	1.00 H	58	26.80	15.30
6	661.79	37.20 QP	46.00	-8.80	2.00 H	169	13.70	23.50
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	53.23	38.90 QP	40.00	-1.10	1.00 V	268	24.80	14.10
2	131.00	42.20 QP	43.50	-1.30	1.00 V	163	28.80	13.40
3	154.33	42.10 QP	43.50	-1.40	1.00 V	169	27.40	14.70
4	164.06	42.50 QP	43.50	-1.00	1.00 V	184	28.20	14.30
5	175.72	42.00 QP	43.50	-1.50	1.00 V	52	29.20	12.80
6	570.41	45.00 QP	46.00	-1.00	2.00 V	340	23.20	21.80

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	High Channel	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1008 hPa	TESTED BY	David Huang
CHANNEL BANDWIDTH	10.0MHz		

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	154.33	42.20 QP	43.50	-1.30	2.00 H	223	27.50	14.70
2	166.00	42.30 QP	43.50	-1.20	2.00 H	82	28.30	14.00
3	175.72	42.10 QP	43.50	-1.40	1.00 H	229	29.30	12.80
4	245.72	42.20 QP	46.00	-3.80	1.00 H	229	29.40	12.80
5	313.77	42.00 QP	46.00	-4.00	1.00 H	55	26.70	15.30
6	727.90	38.10 QP	46.00	-7.90	1.00 H	19	13.60	24.50
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	55.18	39.00 QP	40.00	-1.00	1.00 V	274	25.20	13.80
2	131.00	42.00 QP	43.50	-1.50	1.00 V	175	28.60	13.40
3	154.33	42.30 QP	43.50	-1.20	1.00 V	172	27.60	14.70
4	164.06	42.50 QP	43.50	-1.00	1.00 V	55	28.20	14.30
5	173.78	42.30 QP	43.50	-1.20	1.00 V	67	29.30	13.00
6	570.41	490 QP	46.00	-1.10	2.00 V	10	23.10	21.80

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 0.50MHz.
 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. 30, 2010	Nov. 29, 2011
RF signal cable Woken	5D-FB	Cable-HYC01-01	Dec. 30, 2010	Dec. 29, 2011
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Jun. 28, 2010	Jun. 27, 2011
LISN ROHDE & SCHWARZ	ESH3-Z5	835239/001	Feb. 22, 2011	Feb. 21, 2012
V-LISN SCHWARZBECK	NNBL 8226-2	8226-142	Jul. 12, 2010	Jul. 11, 2011
LISN ROHDE & SCHWARZ	ENV216	100072	Jun. 11, 2010	Jun. 10, 2011
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.

4.2.3 TEST PROCEDURES

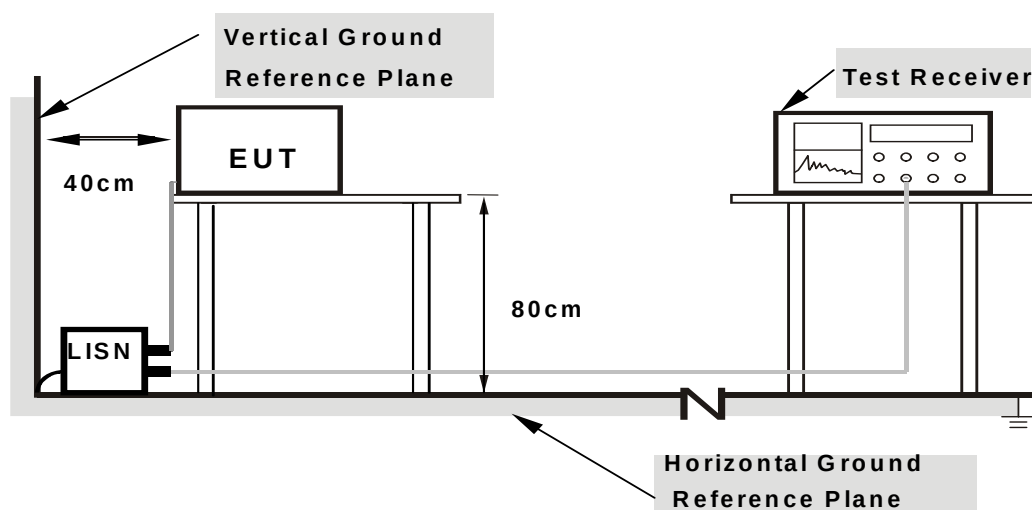
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling 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.

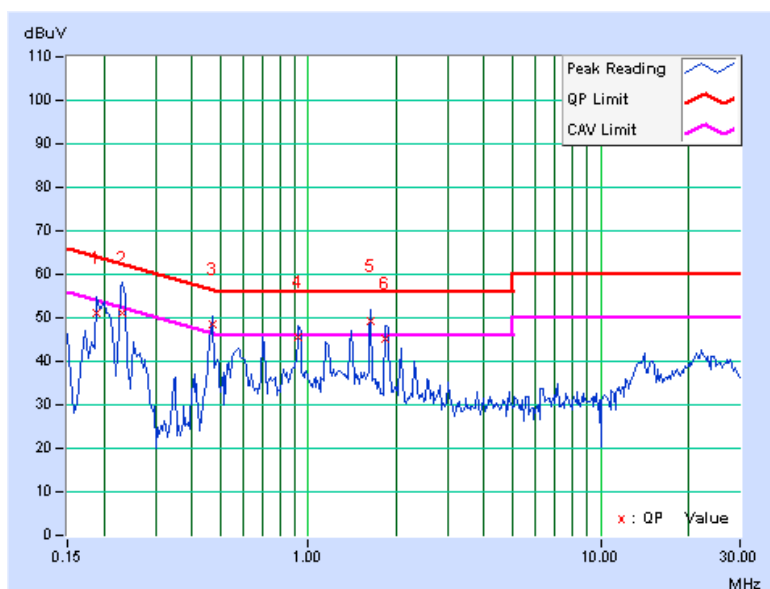
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA

PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL BANDWIDTH	3.5MHz		

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	0.189	0.14	50.88	-	51.02	-	64.08	54.08	-13.06	-
2	0.232	0.14	51.04	-	51.18	-	62.38	52.38	-11.20	-
3	0.470	0.15	48.28	39.38	48.43	39.53	56.51	46.51	-8.07	-6.97
4	0.923	0.18	45.34	-	45.52	-	56.00	46.00	-10.48	-
5	1.645	0.21	49.19	36.99	49.40	37.20	56.00	46.00	-6.60	-8.80
6	1.844	0.22	44.97	-	45.19	-	56.00	46.00	-10.81	-

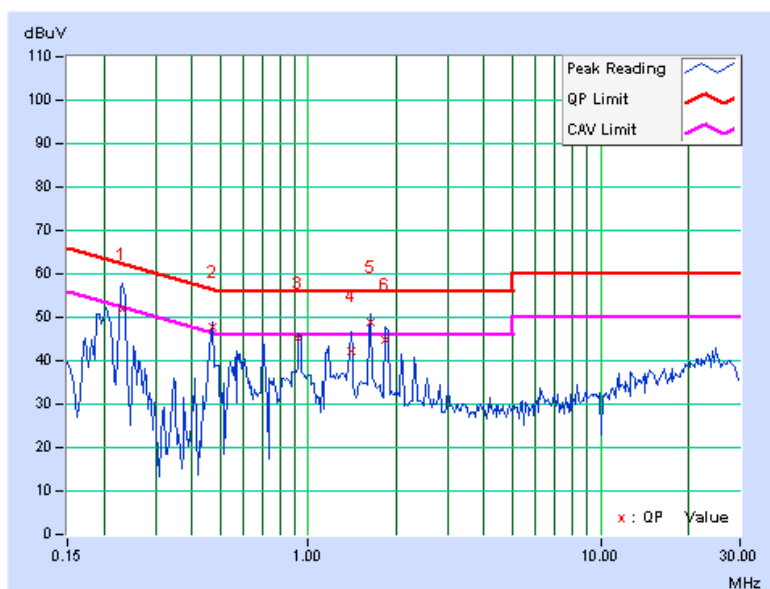
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL BANDWIDTH	3.5MHz		

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	0.232	0.13	51.66	-	51.79	-	62.38	52.38	-10.59	-
2	0.470	0.14	47.82	38.83	47.96	38.97	56.51	46.51	-8.54	-7.53
3	0.923	0.17	45.00	-	45.17	-	56.00	46.00	-10.83	-
4	1.398	0.19	41.95	-	42.14	-	56.00	46.00	-13.86	-
5	1.645	0.20	48.83	36.60	49.03	36.80	56.00	46.00	-6.97	-9.20
6	1.844	0.21	44.67	-	44.88	-	56.00	46.00	-11.12	-

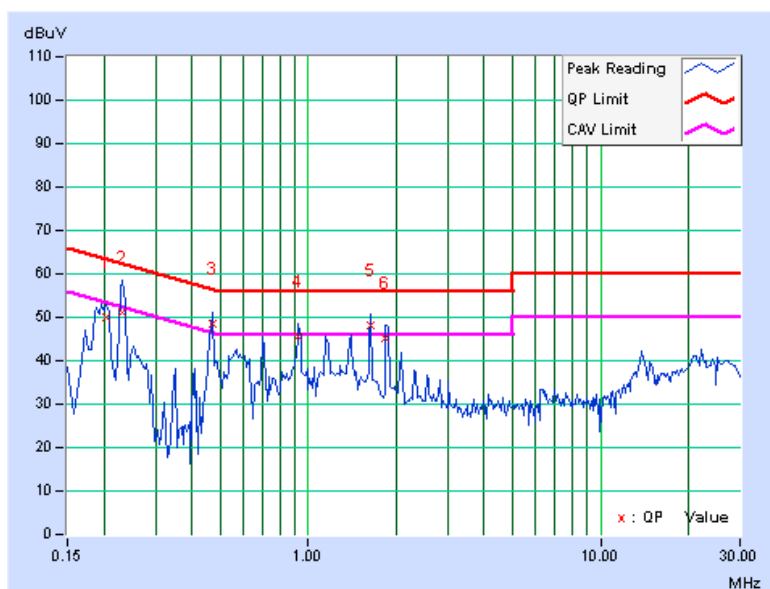
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL BANDWIDTH	5MHz		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.205	0.14	49.68	-	49.82	-	63.42	53.42	-13.60	-
2	0.232	0.14	51.02	-	51.16	-	62.38	52.38	-11.22	-
3	0.470	0.15	48.36	39.48	48.51	39.63	56.51	46.51	-7.99	-6.87
4	0.923	0.18	45.40	-	45.58	-	56.00	46.00	-10.42	-
5	1.641	0.21	47.86	34.34	48.07	34.55	56.00	46.00	-7.93	-11.45
6	1.844	0.22	44.93	-	45.15	-	56.00	46.00	-10.85	-

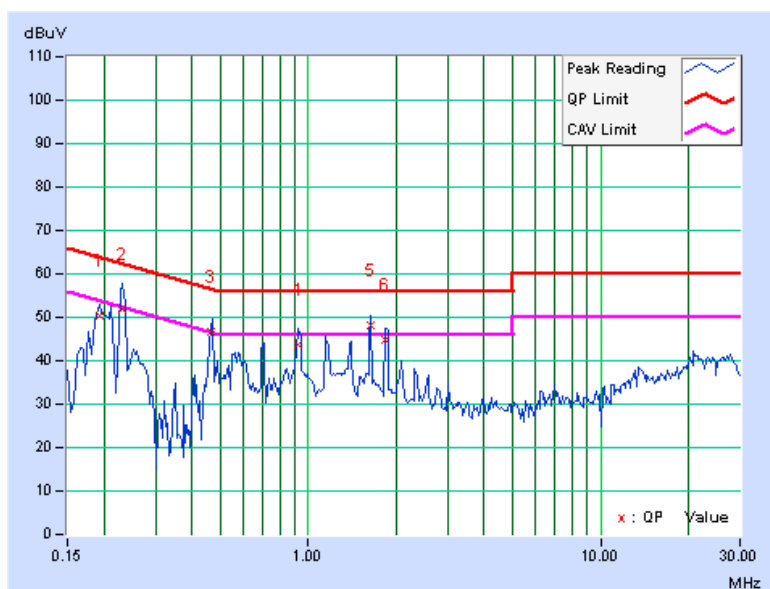
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL BANDWIDTH	5MHz		

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.13	50.29	-	50.42	-	63.91	53.91	-13.49	-
2	0.232	0.13	51.82	-	51.95	-	62.38	52.38	-10.43	-
3	0.466	0.14	46.45	41.98	46.59	42.12	56.58	46.58	-9.98	-4.45
4	0.920	0.17	43.47	-	43.64	-	56.00	46.00	-12.36	-
5	1.641	0.20	47.78	34.40	47.98	34.60	56.00	46.00	-8.02	-11.40
6	1.844	0.21	44.56	-	44.77	-	56.00	46.00	-11.23	-

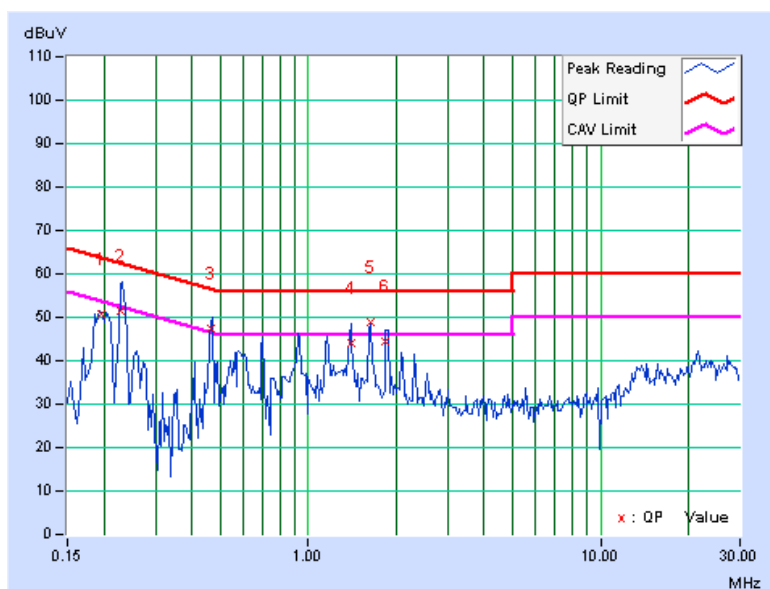
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL BANDWIDTH	7MHz		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.197	0.14	50.55	-	50.69	-	63.74	53.74	-13.05	-
2	0.228	0.14	51.22	-	51.36	-	62.52	52.52	-11.16	-
3	0.466	0.15	47.35	42.59	47.50	42.74	56.58	46.58	-9.07	-3.83
4	1.406	0.20	43.72	-	43.92	-	56.00	46.00	-12.08	-
5	1.641	0.21	48.74	35.79	48.95	36.00	56.00	46.00	-7.05	-10.00
6	1.840	0.22	44.07	-	44.29	-	56.00	46.00	-11.71	-

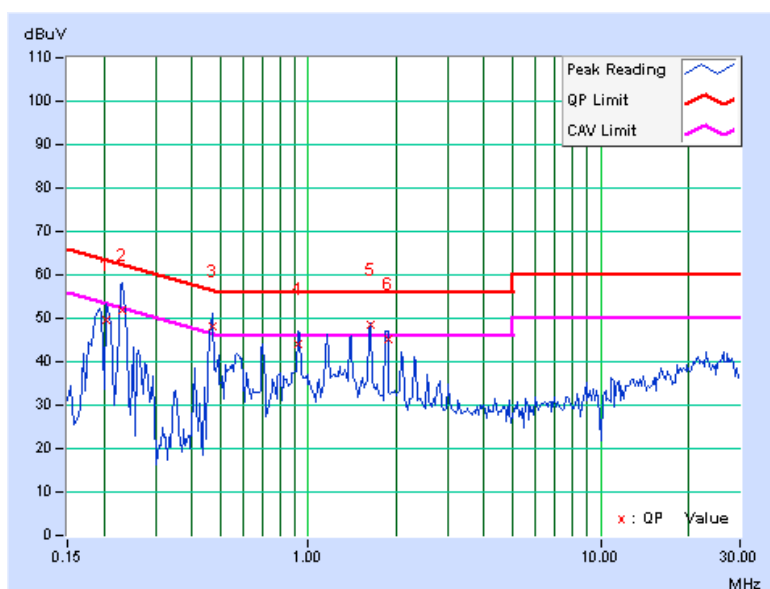
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL BANDWIDTH	7MHz		

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	0.205	0.13	49.48	-	49.61	-	63.42	53.42	-13.81	-
2	0.232	0.13	51.76	-	51.89	-	62.38	52.38	-10.49	-
3	0.470	0.14	48.04	39.29	48.18	39.43	56.51	46.51	-8.32	-7.07
4	0.920	0.17	43.79	-	43.96	-	56.00	46.00	-12.04	-
5	1.641	0.20	48.38	35.29	48.58	35.49	56.00	46.00	-7.42	-10.51
6	1.879	0.21	44.89	-	45.10	-	56.00	46.00	-10.90	-

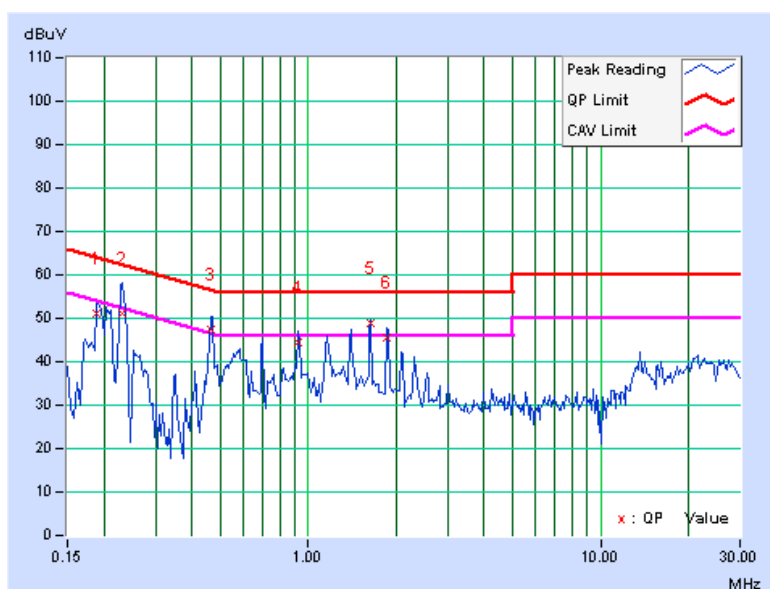
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL BANDWIDTH	10MHz		

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	0.189	0.14	51.13	-	51.27	-	64.08	54.08	-12.81	-
2	0.232	0.14	51.12	-	51.26	-	62.38	52.38	-11.12	-
3	0.466	0.15	47.16	42.44	47.31	42.59	56.58	46.58	-9.26	-3.98
4	0.920	0.18	44.13	-	44.31	-	56.00	46.00	-11.69	-
5	1.641	0.21	48.73	35.93	48.94	36.14	56.00	46.00	-7.06	-9.86
6	1.848	0.22	45.31	-	45.53	-	56.00	46.00	-10.47	-

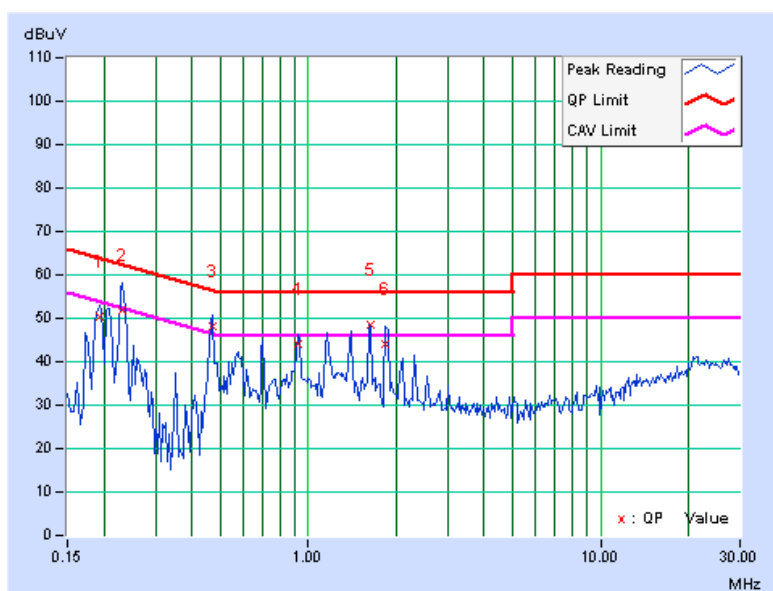
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL BANDWIDTH	10MHz		

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	0.193	0.13	50.31	-	50.44	-	63.91	53.91	-13.47	-
2	0.232	0.13	51.76	-	51.89	-	62.38	52.38	-10.49	-
3	0.470	0.14	48.06	39.35	48.20	39.49	56.51	46.51	-8.30	-7.01
4	0.920	0.17	43.85	-	44.02	-	56.00	46.00	-11.98	-
5	1.641	0.20	48.47	35.65	48.67	35.85	56.00	46.00	-7.33	-10.15
6	1.840	0.21	43.82	-	44.03	-	56.00	46.00	-11.97	-

- 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.



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.

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: Web Site: www.adt.com.tw

Tel: 886-3-3183232

Fax: 886-3-3185050

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

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---