

FCC TEST REPORT

REPORT NO.: RF940314L15B

MODEL NO.: DuraFon PRO (refer to item 3.1 for more detail)

FCC ID: U2M-SP922PRO

RECEIVED: Apr. 19, 2011

TESTED: Jun. 21 ~ Jun. 29, 2011

ISSUED: Jul. 18, 2011

APPLICANT: Senao Networks, Inc.

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ISSUED BY: Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

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Taiwan, R.O.C.

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Report No.: RF940314L15B

Reference No.: 110419C21



Table of Contents

RELE	ASE CONTROL RECORD	
1.	CERTIFICATION	5
2.	SUMMARY OF TEST RESULTS	6
2.1	MEASUREMENT UNCERTAINTY	
3.	GENERAL INFORMATION	
3.1	GENERAL DESCRIPTION OF EUT	
3.2	DESCRIPTION OF TEST MODES	
3.2.1	CONFIGURATION OF SYSTEM UNDER TEST	
3.2.2	TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL	
		-
3.3	GENERAL DESCRIPTION OF APPLIED STANDARDS	
3.4	DESCRIPTION OF SUPPORT UNITS	
4.	TEST TYPES AND RESULTS	
4.1	RADIATED EMISSION MEASUREMENT	
4.1.1	LIMITS OF RADIATED EMISSION MEASUREMENT	
4.1.2	TEST INSTRUMENTS	
4.1.3	TEST PROCEDURES	. 15
4.1.4	DEVIATION FROM TEST STANDARD	. 15
4.1.5	TEST SETUP	
4.1.6	EUT OPERATING CONDITIONS	. 16
4.1.7	TEST RESULTS	
4.2	CONDUCTED EMISSION MEASUREMENT	
4.2.1	LIMITS OF CONDUCTED EMISSION MEASUREMENT	41
4.2.2	TEST INSTRUMENTS	
4.2.3	TEST PROCEDURES	
4.2.4	DEVIATION FROM TEST STANDARD	
4.2.5	TEST SETUP	43
4.2.6	EUT OPERATING CONDITIONS	
4.2.7	TEST RESULTS	
4.3	NUMBER OF HOPPING FREQUENCY USED	
4.3.1	LIMIT OF HOPPING FREQUENCY USED	
4.3.1	TEST INSTRUMENTS	
4.3.2	TEST PROCEDURES	
	DEVIATION FROM TEST STANDARD	
4.3.4		
4.3.5	TEST SETUP	
4.3.6	TEST RESULTS	-
	DWELL TIME ON EACH CHANNEL	
	LIMIT OF DWELL TIME USED	
	TEST INSTRUMENTS	
	TEST PROCEDURES	
	DEVIATION FROM TEST STANDARD	
_	TEST SETUP	
4.4.6	TEST RESULTS	
4.5	CHANNEL BANDWIDTH	
4.5.1	LIMITS OF CHANNEL BANDWIDTH	.64
4.5.2	TEST INSTRUMENTS	.64
4.5.3	TEST PROCEDURE	.64
4.5.4	DEVIATION FROM TEST STANDARD	.64
4.5.5	TEST SETUP	. 64



4.5.6	EUT OPERATING CONDITION	65
4.5.7	TEST RESULTS	
4.6	HOPPING CHANNEL SEPARATION	67
4.6.1	LIMIT OF HOPPING CHANNEL SEPARATION	67
4.6.2	TEST INSTRUMENTS	67
4.6.3	TEST PROCEDURES	67
4.6.4	DEVIATION FROM TEST STANDARD	67
4.6.5	TEST SETUP	
4.6.6	TEST RESULTS	68
4.7	MAXIMUM OUTPUT POWER	
4.7.1	LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT	70
4.7.2	TEST INSTRUMENTS	70
4.7.3	TEST PROCEDURES	
4.7.4	DEVIATION FROM TEST STANDARD	
4.7.5	TEST SETUP	
4.7.6	EUT OPERATING CONDITION	71
4.7.7	TEST RESULTS	
4.8	BAND EDGES MEASUREMENT	
4.8.1	LIMITS OF BAND EDGES MEASUREMENT	73
4.8.2	TEST INSTRUMENTS	_
4.8.3	TEST PROCEDURE	
4.8.4	DEVIATION FROM TEST STANDARD	73
4.8.5	EUT OPERATING CONDITION	
4.8.6	TEST RESULTS	
5.	PHOTOGRAPHS OF THE TEST CONFIGURATION	
6.	INFORMATION ON THE TESTING LABORATORIES	81
7.	APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES	
	TO THE EUT BY THE LAB	82



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	NA	Jul. 18, 2011

4



1. CERTIFICATION

PRODUCT: 4-Line Cordless Phone System

BRAND: EnGenius

MODEL: DuraFon PRO (refer to item 3.1 for more detail)

APPLICANT: Senao Networks, Inc.

TESTED: Jun. 21 ~ Jun. 29, 2011

TEST SAMPLE: ENGINEERING SAMPLE

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

ANSI C63.4-2003 ANSI C63.10-2009

The above equipment (Model: DuraFon PRO) 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 : Jul. 18, 2011

APPROVED BY: Jul. 18, 2011

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 (SECTION 15.247)						
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK			
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is –2.74dB at 0.158MHz.			
15.247(a)(1)(i)	Number of Hopping Frequency Used Spec.: At least 50 channels	PASS	Meet the requirement of limit.			
15.247(a)(1)(i)	Dwell Time on Each Channel Spec.: Max. 0.4 second within 20 second	PASS	Meet the requirement of limit.			
15.247(a)(1)(i)	. Hopping Channel Separation Spec.: Min. 25 kHz or 20 dB bandwidth, whichever is greater 2. Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System		Meet the requirement of limit.			
15.247(b)(2)	Maximum Peak Output Power Spec.: max. 30dBm	PASS	Meet the requirement of limit.			
15.247(d)	Transmitter Radiated Emissions Spec.: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is –0.7dB at 1853.93MHz.			
15.247(d)	Band Edge Measurement	PASS	Meet the requirement of limit.			
15.203	Antenna Requirement	PASS	Antenna connectors are RTNC not a standard connector.			

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

	11011 01 -01			
EUT	4-Line Cordless Phone System			
MODEL NO.	DuraFon PRO (refer to note as below)			
FCC ID	U2M-SP922PRO			
	7.5Vdc (from AC Adapter)			
POWER SUPPLY	3.7Vdc (from battery)			
	5.5Vdc (from charger)			
MODULATION TYPE	MSK			
OPERATING FREQUENCY	902.3840 ~ 927.4656MHz			
NUMBER OF CHANNEL	50			
CHANNEL SPACING	202.272kHz			
OUTPUT POWER	859.0mW			
ANTENNA TYPE	Dipole antenna with 2dBi gain (Base Station)			
ANTENNA ITPE	Dipole antenna with 1.5dBi gain (Portable Handset)			
ANTENNA CONNECTOR	RTNC			
DATA CABLE	1.8m non-shielded RJ11 cable without core*4			
DATA CABLE	1.8m non-shielded audio cable without core*1			
I/O PORTS	Refer to user's manual			
ACCESSORY DEVICE	Adapter, charger, Battery			
NOTE:				

NOTE:

1. All models are electrically identical, different model names are for marketing purpose.

Brand	Model	Remark
EnGenius	DuraFon PRO	marketing purpose
EnGenius	SP-922PRO	marketing purpose

2. The EUT uses following adapters, battery & Charger adapter.

ADAPTER (for Base Station used)				
BRAND	Powertron			
MODEL	PA1008-075HU			
INPUT POWER	100-240Vac, 50/60Hz, 0.3A			
OUTPUT POWER	7.5Vdc, 1A			
POEWR LINE	1.5m non-shielded cable without core			

BATTERY (for Portable Handset used)				
BRAND	EnGenius			
INPUT POWER	1700mAh			
OUTPUT POWER	3.7Vdc			



ADAPTER (for Portable Handset Charger used)					
MODEL WRG10F-055A					
INPUT POWER	100-240Vac, 50-60Hz, 0.5A				
OUTPUT POWER	5.5Vdc, 1.5A				
POEWR LINE	1.8m non-shielded cable without core				

CHARGER (for Portable Handset used)				
BRAND	EnGenius			
MODEL	SP-922PRO			
INPUT POWER	90-264Vac			
OUTPUT POWER	5.5Vdc, 1.5A			

- 3. A set of the EUT include Base station & Portable handset
- 4. 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

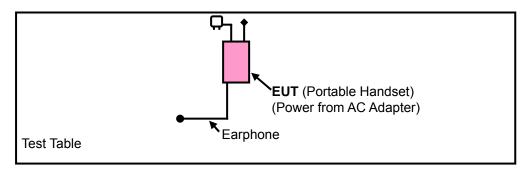
50 channels are provided to this EUT:

CH.	FREQ. (MHz)	CH.	FREQ. (MHz)	CH.	FREQ. (MHz)	СН	FREQ. (MHz)	СН	FREQ. (MHz)
1	902.3840	11	907.6430	21	912.4975	31	918.1611	41	923.0157
2	902.7885	12	908.0476	22	912.9021	32	918.9702	42	923.8247
3	903.1930	13	908.4521	23	913.3066	33	919.3748	43	924.2293
4	903.5976	14	909.2612	24	914.1157	34	919.7793	44	924.6338
5	904.4067	15	909.6657	25	914.9248	35	920.1839	45	925.0384
6	904.8112	16	910.0703	26	915.3293	36	920.5884	46	925.4429
7	905.2158	17	910.4748	27	915.7339	37	921.3975	47	926.2520
8	905.6203	18	910.8797	28	916.5430	38	921.8020	48	926.6566
9	906.0248	19	911.6885	29	917.3521	39	922.2066	49	927.0611
10	906.8339	20	912.0930	30	917.7566	40	922.6111	50	927.4656

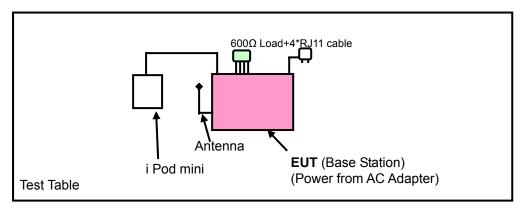


3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

TEST MODE A (Handset-Standalone mode)



TEST MODE B (Base Station mode)





3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE		APPLICA	ABLE TO		DESCRIPTION		
MODE	RE≥1G	RE<1G	PLC	APCM	DESCRIPTION		
Α	\checkmark	\checkmark	\checkmark	\checkmark	Handset mode		
В	V	\checkmark	\checkmark	V	Base Station mode		

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

RE<1G: Radiated Emission below 1GHz
APCM: Antenna Port Conducted Measurement

RADIATED EMISSION TEST (ABOVE 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.

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

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	AXIS
Α	1 to 50	1, 25, 50	MSK	Z
В	1 to 50	1, 25, 50	MSK	Х

RADIATED EMISSION TEST (BELOW 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.

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

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	AXIS
А	1 to 50	1, 25, 50	MSK	Z
В	1 to 50	1, 25, 50	MSK	X

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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	
Α	1 to 50	1, 25, 50	MSK	
В	1 to 50	1, 25, 50	MSK	

Report No.: RF940314L15B 10 Report Format Version 4.0.0 Reference No.: 110419C21



ANTENNA PORT CONDUCTED MEASUREMENT:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	
А	1 to 50	1, 25, 50	MSK	
В	1 to 50	1, 25, 50	MSK	

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	25deg. C, 65%RH, 1011 hPa	120Vac, 60Hz	David Huang
RE<1G	25deg. C, 65%RH, 1016 hPa	120Vac, 60Hz	David Huang
PLC	24deg. C, 64%RH, 1012 hPa	120Vac, 60Hz	Sun Lin
APCM	28deg. C, 68%RH, 1018 hPa	120Vac, 60Hz	Mark Liao

11



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 ANSI C63.10-2009

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.

NC). PRODUCT		BRAND	MODEL NO.	SERIAL NO.	FCC ID
1		IPOD MINI	apple	A1051	YM5270HGS41	NA
2		EARPHONE	Nokia	NA	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.2m non-shielded cable without core
2	1.2m non-shielded cable without core

NOTE: All power cords of the above support units are non-shielded (1.8 m).



4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). 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. 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 meter 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 or average method as specified and then reported in a data sheet.

NOTE:

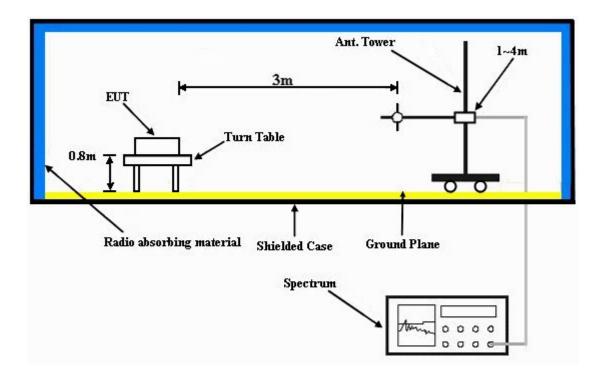
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. All modes 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. Set the EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the system in full functions.



4.1.7 TEST RESULTS

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1016 hPa	TEST MODE	А	
TESTED BY	David Huang			

	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	#745.40	50.4 PK	101.6	-51.2	1.25 H	229	25.8	24.6
2	#745.40	26.4 AV	83.4	-57.0	1.25 H	229	1.8	24.6
3	#836.78	57.1 PK	101.6	-44.5	1.00 H	145	31.2	25.9
4	#836.78	35.4 AV	83.4	-48.0	1.00 H	145	9.5	25.9
5	#893.16	55.8 PK	101.6	-45.8	1.00 H	160	29.0	26.8
6	#893.16	30.7 AV	83.4	-52.7	1.00 H	160	3.9	26.8
7	#902.00	96.0 PK	101.6	-5.6	1.14 H	6	69.0	27.0
8	#902.00	63.5 AV	83.4	-19.9	1.14 H	6	36.5	27.0
9	*902.38	121.6 PK			1.14 H	6	94.6	27.0
10	*902.38	103.4 AV			1.14 H	6	76.4	27.0
11	#914.54	51.7 PK	101.6	-49.9	1.50 H	166	24.6	27.1
12	#914.54	26.5 AV	83.4	-56.9	1.50 H	166	-0.6	27.1

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.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.
- 7. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:

 $20 \log (Duty \ cycle) = 20 \log (12.3 \ ms / 100 \ ms) = -18.2 \ dB$



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1016 hPa	TEST MODE	А	
TESTED BY	David Huang			

		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	#745.44	53.4 PK	109.3	-55.9	1.23 V	45	28.8	24.6
2	#745.44	31.0 AV	91.1	-60.1	1.23 V	45	6.4	24.6
3	#836.78	59.0 PK	109.3	-50.3	2.00 V	163	33.1	25.9
4	#836.78	36.6 AV	91.1	-54.5	2.00 V	163	10.7	25.9
5	#893.16	57.7 PK	109.3	-51.6	1.00 V	10	30.9	26.8
6	#893.16	35.6 AV	91.1	-55.5	1.00 V	10	8.8	26.8
7	#902.00	104.0 PK	109.3	-5.3	1.56 V	106	77.0	27.0
8	#902.00	71.5 AV	91.1	-19.6	1.56 V	106	44.5	27.0
9	*902.38	129.3 PK			1.56 V	106	102.3	27.0
10	*902.38	111.1 AV			1.56 V	106	84.1	27.0
11	#914.55	57.7 PK	109.3	-51.6	1.00 V	286	30.6	27.1
12	#914.55	34.3 AV	91.1	-56.8	1.00 V	286	7.2	27.1

- 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.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.
- 7. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:

 $20 \log (Duty \ cycle) = 20 \log (12.3 \ ms / 100 \ ms) = -18.2 \ dB$



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 25		Below 1000MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1016 hPa	TEST MODE	А	
TESTED BY	David Huang			

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	#745.25	51.2 PK	99.8	-48.6	1.00 H	13	26.6	24.6
2	#745.25	25.7 AV	81.6	-55.9	1.00 H	13	1.1	24.6
3	#836.45	56.0 PK	99.8	-43.8	2.00 H	231	30.1	25.9
4	#836.45	31.6 AV	81.6	-50.0	2.00 H	231	5.7	25.9
5	#904.83	70.6 PK	99.8	-29.2	1.00 H	184	43.6	27.0
6	#904.83	45.3 AV	81.6	-36.3	1.00 H	184	18.3	27.0
7	*914.93	119.8 PK			1.20 H	7	92.7	27.1
8	*914.93	101.6 AV			1.20 H	7	74.5	27.1
		ANTENNA	A POLARIT	Y & TEST DI	STANCE: V	ERTICAL A	T 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	#745.32	51.0 PK	108.8	-57.8	1.50 V	235	26.4	24.6
2	#745.32	26.8 AV	90.6	-63.8	1.50 V	235	2.2	24.6
3	#836.56	59.2 PK	108.8	-49.6	1.00 V	69	33.3	25.9
4	#836.56	34.6 AV	90.6	-56.0	1.00 V	69	8.7	25.9
5								
5	#904.83	74.8 PK	108.8	-34.0	1.00 V	121	47.8	27.0
6	#904.83 #904.83	74.8 PK 49.5 AV	108.8 90.6	-34.0 -41.1	1.00 V 1.00 V	121 121	47.8 22.5	27.0 27.0

- 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.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.
- 7. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:

20 log (Duty cycle) = 20 log (12.3 ms / 100 ms) = -18.2 dB



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 50	FREQUENCY RANGE	Below 1000MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak	
	25deg. C, 65%RH 1016 hPa	TEST MODE	А	
TESTED BY	David Huang			

	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	#745.40	49.9 PK	98.9	-49.0	1.20 H	147	25.3	24.6	
2	#745.40	24.5 AV	80.7	-56.2	1.20 H	147	-0.1	24.6	
3	#836.78	53.1 PK	98.9	-45.8	2.00 H	292	27.2	25.9	
4	#836.78	33.6 AV	80.7	-47.1	2.00 H	292	7.7	25.9	
5	#918.40	67.2 PK	98.9	-31.7	1.00 H	188	40.0	27.2	
6	#918.40	42.6 AV	80.7	-38.1	1.00 H	188	15.4	27.2	
7	*927.50	118.9 PK			1.13 H	9	91.6	27.3	
8	*927.50	100.7 AV			1.13 H	9	73.4	27.3	
9	#928.00	86.5 PK	98.9	-12.4	1.13 H	9	59.2	27.3	
10	#928.00	55.6 AV	80.7	-25.1	1.13 H	9	28.3	27.3	
	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
		ANTENNA	A POLARITY	/ & TEST DI	<u>STANCE: V</u>	<u>ERTICAL A</u>	T 3 M		
NO.	FREQ. (MHz)	EMISSION	LIMIT (dBuV/m)	/ & TEST DI	STANCE: V ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	T 3 M RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
NO .	FREQ. (MHz) #745.32	EMISSION LEVEL	LIMIT		ANTENNA	TABLE ANGLE	RAW VALUE	FACTOR	
	` ,	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	FACTOR (dB/m)	
1	#745.32	EMISSION LEVEL (dBuV/m) 50.1 PK	LIMIT (dBuV/m)	MARGIN (dB) -57.9	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	FACTOR (dB/m) 24.6	
1 2	#745.32 #745.32	EMISSION LEVEL (dBuV/m) 50.1 PK 26.7 AV	LIMIT (dBuV/m) 108.0 89.8	MARGIN (dB) -57.9 -63.1	ANTENNA HEIGHT (m) 1.00 V 1.00 V	TABLE ANGLE (Degree) 192	RAW VALUE (dBuV) 25.5 2.1	FACTOR (dB/m) 24.6 24.6	
1 2 3	#745.32 #745.32 #836.23	EMISSION LEVEL (dBuV/m) 50.1 PK 26.7 AV 57.7 PK	LIMIT (dBuV/m) 108.0 89.8 108.0	-57.9 -63.1 -50.3	ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V	TABLE ANGLE (Degree) 192 192 153	RAW VALUE (dBuV) 25.5 2.1 31.9	FACTOR (dB/m) 24.6 24.6 25.8	
1 2 3 4	#745.32 #745.32 #836.23 #836.23	EMISSION LEVEL (dBuV/m) 50.1 PK 26.7 AV 57.7 PK 32.1 AV	LIMIT (dBuV/m) 108.0 89.8 108.0 89.8	-57.9 -63.1 -50.3 -57.7	ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V	TABLE ANGLE (Degree) 192 192 153 153	25.5 2.1 31.9 6.3	FACTOR (dB/m) 24.6 24.6 25.8 25.8	
1 2 3 4 5	#745.32 #745.32 #836.23 #836.23 #918.43	EMISSION LEVEL (dBuV/m) 50.1 PK 26.7 AV 57.7 PK 32.1 AV 72.4 PK	LIMIT (dBuV/m) 108.0 89.8 108.0 89.8 108.0	-57.9 -63.1 -50.3 -57.7 -35.6	ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V 1.00 V	TABLE ANGLE (Degree) 192 192 153 153 223	25.5 2.1 31.9 6.3 45.2	FACTOR (dB/m) 24.6 24.6 25.8 25.8 27.2	
1 2 3 4 5 6	#745.32 #745.32 #836.23 #836.23 #918.43	EMISSION LEVEL (dBuV/m) 50.1 PK 26.7 AV 57.7 PK 32.1 AV 72.4 PK 47.4 AV	LIMIT (dBuV/m) 108.0 89.8 108.0 89.8 108.0	-57.9 -63.1 -50.3 -57.7 -35.6	ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V 1.00 V 1.20 V	TABLE ANGLE (Degree) 192 192 153 153 223	RAW VALUE (dBuV) 25.5 2.1 31.9 6.3 45.2 20.2	FACTOR (dB/m) 24.6 24.6 25.8 25.8 27.2 27.2	
1 2 3 4 5 6	#745.32 #745.32 #836.23 #836.23 #918.43 #918.43	EMISSION LEVEL (dBuV/m) 50.1 PK 26.7 AV 57.7 PK 32.1 AV 72.4 PK 47.4 AV 128.0 PK	LIMIT (dBuV/m) 108.0 89.8 108.0 89.8 108.0	-57.9 -63.1 -50.3 -57.7 -35.6	ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V 1.00 V 1.20 V 1.20 V 1.45 V	TABLE ANGLE (Degree) 192 192 153 153 223 223 223	RAW VALUE (dBuV) 25.5 2.1 31.9 6.3 45.2 20.2 100.7	FACTOR (dB/m) 24.6 24.6 25.8 25.8 27.2 27.2 27.3	

- 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.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.
- 7. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:

 $20 \log (Duty cycle) = 20 \log (12.3 \text{ ms} / 100 \text{ ms}) = -18.2 \text{ dB}$



ABOVE 1GHz DATA

ABOVE TOTIZ DATA				
EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 12.5GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1011 hPa	TEST MODE	А	
TESTED BY	David Huang			

	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	1804.77	55.0 PK	74.0	-19.0	1.33 H	25	26.20	28.80	
2	1804.77	36.8 AV	54.0	-17.2	1.33 H	25	8.00	28.80	
3	2707.15	45.7 PK	74.0	-28.3	1.09 H	153	14.10	31.60	
4	2707.15	27.5 AV	54.0	-26.5	1.09 H	153	-4.10	31.60	
5	3609.54	52.1 PK	74.0	-21.9	1.20 H	152	18.80	33.30	
6	3609.54	33.9 AV	54.0	-20.1	1.20 H	152	0.60	33.30	
7	4511.92	49.1 PK	74.0	-24.9	1.00 H	186	13.20	35.90	
8	4511.92	30.9 AV	54.0	-23.1	1.00 H	186	-5.00	35.90	
9	5414.30	55.4 PK	74.0	-18.6	1.22 H	340	17.80	37.60	
10	5414.30	37.2 AV	54.0	-16.8	1.22 H	340	-0.40	37.60	
11	6316.69	52.5 PK	74.0	-21.5	1.12 H	156	12.70	39.80	
12	6316.69	34.3 AV	54.0	-19.7	1.12 H	156	-5.50	39.80	
13	7219.07	51.1 PK	74.0	-22.9	1.22 H	219	8.50	42.60	
14	7219.07	32.9 AV	54.0	-21.1	1.22 H	219	-9.70	42.60	

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.
- The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:
 20 log (Duty cycle) = 20 log (12.3 ms / 100 ms) = -18.2 dB



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 12.5GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1011 hPa	TEST MODE	А	
TESTED BY	David Huang			

		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	1804.77	58.4 PK	74.0	-15.6	1.07 V	285	29.60	28.80
2	1804.77	40.2 AV	54.0	-13.8	1.07 V	285	11.40	28.80
3	2707.15	43.9 PK	74.0	-30.1	1.12 V	295	12.30	31.60
4	2707.15	25.7 AV	54.0	-28.3	1.12 V	295	-5.90	31.60
5	3609.54	54.8 PK	74.0	-19.2	1.38 V	214	21.50	33.30
6	3609.54	36.6 AV	54.0	-17.4	1.38 V	214	3.30	33.30
7	4511.92	54.4 PK	74.0	-19.6	1.31 V	184	18.50	35.90
8	4511.92	36.2 AV	54.0	-17.8	1.31 V	184	0.30	35.90
9	5414.30	63.1 PK	74.0	-10.9	1.06 V	184	25.50	37.60
10	5414.30	44.9 AV	54.0	-9.1	1.06 V	184	7.30	37.60
11	6316.69	56.4 PK	74.0	-17.6	1.09 V	189	16.60	39.80
12	6316.69	38.2 AV	54.0	-15.8	1.09 V	189	-1.60	39.80
13	7219.07	54.5 PK	74.0	-19.5	1.08 V	191	11.90	42.60
14	7219.07	36.3 AV	54.0	-17.7	1.08 V	191	-6.30	42.60

- 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.
- 5. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 25	FREQUENCY RANGE	1 ~ 12.5GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1011 hPa	TEST MODE	А	
TESTED BY	David Huang			

		ANTENNA I	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	1829.85	58.8 PK	74.0	-15.2	1.25 H	216	30.00	28.80
2	1829.85	40.6 AV	54.0	-13.4	1.25 H	216	11.80	28.80
3	2744.77	45.1 PK	74.0	-28.9	1.09 H	161	13.40	31.70
4	2744.77	26.9 AV	54.0	-27.1	1.09 H	161	-4.80	31.70
5	3659.70	49.7 PK	74.0	-24.3	1.00 H	155	16.30	33.40
6	3659.70	31.5 AV	54.0	-22.5	1.00 H	155	-1.90	33.40
7	4574.62	47.4 PK	74.0	-26.6	1.00 H	223	11.40	36.00
8	4574.62	29.2 AV	54.0	-24.8	1.00 H	223	-6.80	36.00
9	5489.55	57.0 PK	74.0	-17.0	1.00 H	154	19.30	37.70
10	5489.55	38.8 AV	54.0	-15.2	1.00 H	154	1.10	37.70
11	6404.47	56.0 PK	74.0	-18.0	1.10 H	153	15.90	40.10
12	6404.47	37.8 AV	54.0	-16.2	1.10 H	153	-2.30	40.10
13	7319.40	52.5 PK	74.0	-21.5	1.29 H	156	9.60	42.90
14	7319.40	34.3 AV	54.0	-19.7	1.29 H	156	-8.60	42.90

- 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.
- 5. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 25	FREQUENCY RANGE	1 ~ 12.5GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1011 hPa	TEST MODE	Α	
TESTED BY	David Huang			

		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	1829.85	56.7 PK	74.0	-17.3	1.16 V	170	27.90	28.80
2	1829.85	38.5 AV	54.0	-15.5	1.16 V	170	9.70	28.80
3	2744.77	44.7 PK	74.0	-29.3	1.04 V	232	13.00	31.70
4	2744.77	26.5 AV	54.0	-27.5	1.04 V	232	-5.20	31.70
5	3659.70	52.1 PK	74.0	-21.9	1.00 V	249	18.70	33.40
6	3659.70	33.9 AV	54.0	-20.1	1.00 V	249	0.50	33.40
7	4574.62	53.3 PK	74.0	-20.7	1.03 V	171	17.30	36.00
8	4574.62	35.1 AV	54.0	-18.9	1.03 V	171	-0.90	36.00
9	5489.55	62.8 PK	74.0	-11.2	1.04 V	192	25.10	37.70
10	5489.55	44.6 AV	54.0	-9.4	1.04 V	192	6.90	37.70
11	6404.47	59.9 PK	74.0	-14.1	1.05 V	180	19.80	40.10
12	6404.47	41.7 AV	54.0	-12.3	1.05 V	180	1.60	40.10
13	7319.40	55.3 PK	74.0	-18.7	1.15 V	186	12.40	42.90
14	7319.40	37.1 AV	54.0	-16.9	1.15 V	186	-5.80	42.90

- 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.
- 5. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 50	FREQUENCY RANGE	1 ~ 12.5GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1011 hPa	TEST MODE	А	
TESTED BY	David Huang			

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	1854.93	53.9 PK	74.0	-20.1	1.29 H	231	25.00	28.90
2	1854.93	35.7 AV	54.0	-18.3	1.29 H	231	6.80	28.90
3	2782.40	42.4 PK	74.0	-31.6	1.32 H	158	10.60	31.80
4	2782.40	24.2 AV	54.0	-29.8	1.32 H	158	-7.60	31.80
5	3709.86	48.5 PK	74.0	-25.5	1.02 H	235	15.00	33.50
6	3709.86	30.3 AV	54.0	-23.7	1.02 H	235	-3.20	33.50
7	4637.33	49.7 PK	74.0	-24.3	1.38 H	150	13.60	36.10
8	4637.33	31.5 AV	54.0	-22.5	1.38 H	150	-4.60	36.10
9	5564.79	53.9 PK	74.0	-20.1	1.16 H	233	16.10	37.80
10	5564.79	35.7 AV	54.0	-18.3	1.16 H	233	-2.10	37.80
11	6492.26	52.9 PK	74.0	-21.1	1.17 H	251	12.40	40.50
12	6492.26	34.7 AV	54.0	-19.3	1.17 H	251	-5.80	40.50
13	7149.72	49.9 PK	74.0	-24.1	1.10 H	254	7.50	42.40
14	7149.72	31.7 AV	54.0	-22.3	1.10 H	254	-10.70	42.40

- 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.
- 5. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:

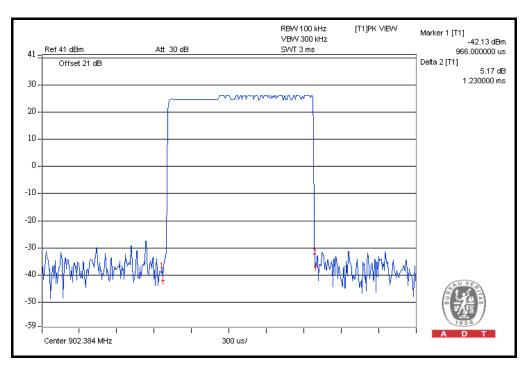


EUT TEST CONDITION		MEASUREMENT DETAI	L
CHANNEL	Channel 50	FREQUENCY RANGE	1 ~ 12.5GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1011 hPa	TEST MODE	А
TESTED BY	David Huang		

		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	1854.93	57.8 PK	74.0	-16.2	1.10 V	163	28.90	28.90
2	1854.93	39.6 AV	54.0	-14.4	1.10 V	163	10.70	28.90
3	2782.40	44.3 PK	74.0	-29.7	1.15 V	207	12.50	31.80
4	2782.40	26.1 AV	54.0	-27.9	1.15 V	207	-5.70	31.80
5	3709.86	46.2 PK	74.0	-27.8	1.06 V	336	12.70	33.50
6	3709.86	28.0 AV	54.0	-26.0	1.06 V	336	-5.50	33.50
7	4637.33	53.4 PK	74.0	-20.6	1.00 V	178	17.30	36.10
8	4637.33	35.2 AV	54.0	-18.8	1.00 V	178	-0.90	36.10
9	5564.79	57.9 PK	74.0	-16.1	1.00 V	160	20.10	37.80
10	5564.79	39.7 AV	54.0	-14.3	1.00 V	160	1.90	37.80
11	6492.26	57.6 PK	74.0	-16.4	1.02 V	258	17.10	40.50
12	6492.26	39.4 AV	54.0	-14.6	1.02 V	258	-1.10	40.50
13	7419.72	51.4 PK	74.0	-22.6	1.00 V	145	8.30	43.10
14	7419.72	33.2 AV	54.0	-20.8	1.00 V	145	-9.90	43.10

- 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.
- 5. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:









EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1016 hPa	TEST MODE	В	
TESTED BY	David Huang			

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	#875.59	32.5 PK	99.6	-67.1	1.00 H	166	6.0	26.5
2	#875.59	30.2 AV	93.2	-63.0	1.00 H	178	3.7	26.5
3	#893.09	43.6 PK	99.6	-56.0	1.15 H	136	16.8	26.8
4	#893.09	25.3 AV	93.2	-67.9	1.00 H	167	-1.5	26.8
5	#902.00	97.1 PK	99.6	-2.5	1.00 H	193	70.1	27.0
6	#902.00	64.6 AV	93.2	-28.6	1.00 H	193	37.6	27.0
7	*902.38	119.6 PK			1.58 H	151	92.6	27.0
8	*902.38	113.2 AV			1.58 H	151	86.2	27.0
9	#935.85	40.0 PK	99.6	-59.6	1.15 H	118	12.6	27.4
10	#935.85	25.9 AV	93.2	-67.3	1.00 H	149	-1.5	27.4
		ANTENNA	POLARITY	Y & TEST DI	STANCE: V	ERTICAL A	T 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	#875.59	40.3 PK	110.0	-69.7	1.00 V	250	13.80	26.5
2	#875.59	29.9 AV	103.6	-73.7	1.00 V	109	3.4	26.5
3	#893.39	55.1 PK	110.0	-54.9	1.00 V	298	28.30	26.8
4	#893.39	26.1 AV	103.6	-77.5	1.00 V	109	-0.7	26.8
5	#902.00	105.2 PK	110.0	-4.8	1.00 V	345	78.20	27.0
6	#902.00	72.7 AV	103.6	-30.9	1.00 V	345	45.7	27.0
7	*902.38	130.0 PK			1.00 V	340	103.0	27.0
8	*902.38	123.6 AV			1.00 V	340	96.6	27.0
9	#935.85	49.9 PK	110.0	-60.1	1.00 V	271	22.50	27.4
10	#935.85	25.4 AV	103.6	-78.2	1.00 V	150	-2.0	27.4

- 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.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.
- 7. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula: 20 log (Duty cycle) = 20 log (48 ms / 100 ms) = -6.4 dB



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 25	FREQUENCY RANGE	Below 1000MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1016 hPa	TEST MODE	В	
TESTED BY	David Huang			

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	#895.03	44.2 PK	99.9	-55.7	1.00 H	139	17.3	26.9
2	#895.03	42.2 AV	93.5	-51.3	1.00 H	126	15.3	26.9
3	#904.75	63.5 PK	99.9	-36.4	1.15 H	100	36.4	27.1
4	#904.75	24.4 AV	93.5	-69.1	1.00 H	195	-2.7	27.1
5	*914.92	119.9 PK			1.49 H	180	92.8	27.1
6	*914.92	113.5 AV			1.49 H	180	86.4	27.1
7	#937.80	44.6 PK	99.9	-55.3	1.15 H	115	17.2	27.4
8	#937.80	40.2 AV	93.5	-53.3	1.10 H	125	12.8	27.4
		ANTENNA	A POLARITY	Y & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION	LIMIT (dBuV/m)	Y & TEST DI	STANCE: V ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE	CORRECTION FACTOR (dB/m)
NO .	FREQ. (MHz) #895.03	EMISSION LEVEL	LIMIT		ANTENNA	TABLE ANGLE	RAW VALUE	FACTOR
	` ,	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	FACTOR (dB/m)
1	#895.03	EMISSION LEVEL (dBuV/m) 54.2 PK	LIMIT (dBuV/m)	MARGIN (dB) -55.3	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	FACTOR (dB/m) 26.9
1 2	#895.03 #895.03	EMISSION LEVEL (dBuV/m) 54.2 PK 44.5 AV	LIMIT (dBuV/m) 109.5 103.1	MARGIN (dB) -55.3 -58.6	ANTENNA HEIGHT (m) 1.00 V 1.03 V	TABLE ANGLE (Degree) 28 255	RAW VALUE (dBuV) 27.3 17.6	FACTOR (dB/m) 26.9 26.9
1 2 3	#895.03 #895.03 #904.75	EMISSION LEVEL (dBuV/m) 54.2 PK 44.5 AV 76.9 PK	LIMIT (dBuV/m) 109.5 103.1 109.5	MARGIN (dB) -55.3 -58.6 -32.6	ANTENNA HEIGHT (m) 1.00 V 1.03 V 1.25 V	TABLE ANGLE (Degree) 28 255 163	27.3 17.6 49.8	FACTOR (dB/m) 26.9 26.9 27.1
1 2 3 4	#895.03 #895.03 #904.75 #904.75	EMISSION LEVEL (dBuV/m) 54.2 PK 44.5 AV 76.9 PK 26.1 AV	LIMIT (dBuV/m) 109.5 103.1 109.5	MARGIN (dB) -55.3 -58.6 -32.6	ANTENNA HEIGHT (m) 1.00 V 1.03 V 1.25 V 1.03 V	TABLE ANGLE (Degree) 28 255 163 187	27.3 17.6 49.8 -1.0	FACTOR (dB/m) 26.9 26.9 27.1 27.1
1 2 3 4 5	#895.03 #895.03 #904.75 #904.75 *914.92	EMISSION LEVEL (dBuV/m) 54.2 PK 44.5 AV 76.9 PK 26.1 AV 129.5 PK	LIMIT (dBuV/m) 109.5 103.1 109.5	MARGIN (dB) -55.3 -58.6 -32.6	ANTENNA HEIGHT (m) 1.00 V 1.03 V 1.25 V 1.03 V 1.00 V	TABLE ANGLE (Degree) 28 255 163 187 338	27.3 17.6 49.8 -1.0 102.4	FACTOR (dB/m) 26.9 26.9 27.1 27.1

- 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.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.
- 7. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula: 20 log (Duty cycle) = 20 log (48 ms / 100 ms) = -6.4 dB



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 50	FREQUENCY RANGE	Below 1000MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak	
	25deg. C, 65%RH 1016 hPa	TEST MODE	В	
TESTED BY	David Huang			

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	#906.69	45.7 PK	100.9	-55.2	1.00 H	151	18.7	27.0
2	#906.69	38.7 AV	94.6	-55.9	1.58 H	140	11.7	27.0
3	#918.36	67.9 PK	100.9	-33.0	2.25 H	178	40.7	27.2
4	#918.36	40.6 AV	94.6	-54.0	1.47 H	167	13.4	27.2
5	*927.47	120.9 PK			1.50 H	196	93.6	27.3
6	*927.47	114.6 AV			1.50 H	196	87.3	27.3
7	#928.00	86.6 PK	100.9	-14.3	1.50 H	196	59.3	27.3
8	#928.00	56.7 AV	94.6	-37.9	1.50 H	196	29.4	27.3
9	#949.46	44.4 PK	100.9	-56.5	1.15 H	106	16.9	27.5
10	#949.46	36.2 AV	94.6	-58.4	1.39 H	194	8.7	27.5
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	/ & TEST DI	ANTFNNA	TABLE ANGLE (Degree)	T 3 M RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
NO .	FREQ. (MHz) #906.69	EMISSION LEVEL	LIMIT		ANTENNA	TABLE ANGLE	RAW VALUE	FACTOR
	` ,	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	FACTOR (dB/m)
1	#906.69	EMISSION LEVEL (dBuV/m) 60.3 PK	LIMIT (dBuV/m)	MARGIN (dB) -48.4	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	FACTOR (dB/m) 27.0
1 2	#906.69 #906.69	EMISSION LEVEL (dBuV/m) 60.3 PK 48.1 AV	LIMIT (dBuV/m) 108.7 102.3	MARGIN (dB) -48.4 -54.2	ANTENNA HEIGHT (m) 1.15 V 1.00 V	TABLE ANGLE (Degree) 22 165	RAW VALUE (dBuV) 33.3 21.2	FACTOR (dB/m) 27.0 27.0
1 2 3	#906.69 #906.69 #918.36	EMISSION LEVEL (dBuV/m) 60.3 PK 48.1 AV 78.8 PK	LIMIT (dBuV/m) 108.7 102.3 108.7	-48.4 -54.2 -29.9	ANTENNA HEIGHT (m) 1.15 V 1.00 V 2.00 V	TABLE ANGLE (Degree) 22 165 10	RAW VALUE (dBuV) 33.3 21.2 51.6	FACTOR (dB/m) 27.0 27.0 27.2
1 2 3 4	#906.69 #906.69 #918.36 #918.36	EMISSION LEVEL (dBuV/m) 60.3 PK 48.1 AV 78.8 PK 27.3 AV	LIMIT (dBuV/m) 108.7 102.3 108.7	-48.4 -54.2 -29.9	ANTENNA HEIGHT (m) 1.15 V 1.00 V 2.00 V 1.03 V	TABLE ANGLE (Degree) 22 165 10 267	RAW VALUE (dBuV) 33.3 21.2 51.6 0.1	FACTOR (dB/m) 27.0 27.0 27.2 27.2
1 2 3 4 5	#906.69 #906.69 #918.36 #918.36 *927.47	EMISSION LEVEL (dBuV/m) 60.3 PK 48.1 AV 78.8 PK 27.3 AV 128.7 PK	LIMIT (dBuV/m) 108.7 102.3 108.7	-48.4 -54.2 -29.9	ANTENNA HEIGHT (m) 1.15 V 1.00 V 2.00 V 1.03 V 1.00 V	TABLE ANGLE (Degree) 22 165 10 267 149	RAW VALUE (dBuV) 33.3 21.2 51.6 0.1 101.4	FACTOR (dB/m) 27.0 27.0 27.2 27.2 27.3
1 2 3 4 5	#906.69 #906.69 #918.36 #918.36 *927.47	EMISSION LEVEL (dBuV/m) 60.3 PK 48.1 AV 78.8 PK 27.3 AV 128.7 PK 122.3 AV	LIMIT (dBuV/m) 108.7 102.3 108.7 102.3	-48.4 -54.2 -29.9 -75.0	ANTENNA HEIGHT (m) 1.15 V 1.00 V 2.00 V 1.03 V 1.00 V 1.00 V	TABLE ANGLE (Degree) 22 165 10 267 149	RAW VALUE (dBuV) 33.3 21.2 51.6 0.1 101.4 95.0	FACTOR (dB/m) 27.0 27.0 27.2 27.2 27.3 27.3
1 2 3 4 5 6 7	#906.69 #906.69 #918.36 #918.36 *927.47 *927.47 #928.00	EMISSION LEVEL (dBuV/m) 60.3 PK 48.1 AV 78.8 PK 27.3 AV 128.7 PK 122.3 AV 95.0 PK	LIMIT (dBuV/m) 108.7 102.3 108.7 102.3	-48.4 -54.2 -29.9 -75.0	ANTENNA HEIGHT (m) 1.15 V 1.00 V 2.00 V 1.03 V 1.00 V 1.00 V	TABLE ANGLE (Degree) 22 165 10 267 149 149	RAW VALUE (dBuV) 33.3 21.2 51.6 0.1 101.4 95.0 67.7	FACTOR (dB/m) 27.0 27.0 27.2 27.2 27.3 27.3 27.3

- 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.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.
- The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:
 20 log (Duty cycle) = 20 log (48 ms / 100 ms) = -6.4 dB



ABOVE 1GHz DATA

EUT TEST CONDITION	IT TEST CONDITION		L
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 12.5GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1011 hPa	TEST MODE	В
TESTED BY	David Huang		

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	1804.77	54.2 PK	74.0	-19.8	1.08 H	13	25.60	28.60
2	1804.77	47.8 AV	54.0	-6.2	1.08 H	13	19.20	28.60
3	2707.15	49.9 PK	74.0	-24.1	1.18 H	228	18.70	31.20
4	2707.15	43.5 AV	54.0	-10.5	1.18 H	228	12.30	31.20
5	3609.54	50.7 PK	74.0	-23.3	1.00 H	357	17.80	32.90
6	3609.54	44.3 AV	54.0	-9.7	1.00 H	357	11.40	32.90
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	1804.77	57.9 PK	74.0	-16.1	1.05 V	121	29.30	28.60
2	1804.77	51.5 AV	54.0	-2.5	1.05 V	121	22.90	28.60
3	2707.15	55.3 PK	74.0	-18.7	1.47 V	268	24.10	31.20
4	2707.15	48.9 AV	54.0	-5.1	1.47 V	268	17.70	31.20
				40.0	4.05.17	252	04.00	22.00
5	3609.54	54.2 PK	74.0	-19.8	1.05 V	252	21.30	32.90

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.
- 5. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula: 20 log (Duty cycle) = 20 log (48 ms / 100 ms) = -6.4 dB



EUT TEST CONDITION	T CONDITION MEASUREMENT DETAIL		
CHANNEL	Channel 25	FREQUENCY RANGE	1 ~ 12.5GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1011 hPa	TEST MODE	В
TESTED BY	David Huang		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	1829.85	53.9 PK	74.0	-20.1	1.44 H	329	25.30	28.60		
2	1829.85	47.5 AV	54.0	-6.5	1.44 H	329	18.90	28.60		
3	2744.77	47.6 PK	74.0	-26.4	1.75 H	324	16.20	31.40		
4	2744.77	41.2 AV	54.0	-12.8	1.75 H	324	9.80	31.40		
5	3659.70	49.6 PK	74.0	-24.4	1.36 H	357	16.60	33.00		
6	3659.70	43.2 AV	54.0	-10.8	1.36 H	357	10.20	33.00		
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	1829.85	56.7 PK	74.0	-17.3	1.00 V	120	28.10	28.60		
2	1829.85	50.3 AV	54.0	-3.7	1.00 V	120	21.70	28.60		
3	2744.77	51.2 PK	74.0	-22.8	1.22 V	126	19.80	31.40		
4	2744.77	44.8 AV	54.0	-9.2	1.22 V	126	13.40	31.40		
5	3659.70	47.0 PK	74.0	-27.0	1.26 V	133	14.00	33.00		
6	3659.70	40.6 AV	54.0	-13.4	1.26 V	133	7.60	33.00		

- 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.
- 5. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula: 20 log (Duty cycle) = 20 log (48 ms / 100 ms) = -6.4 dB

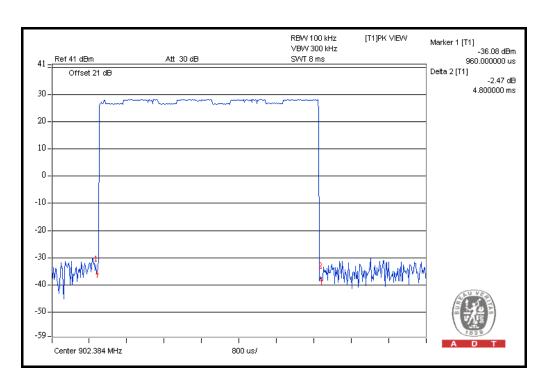


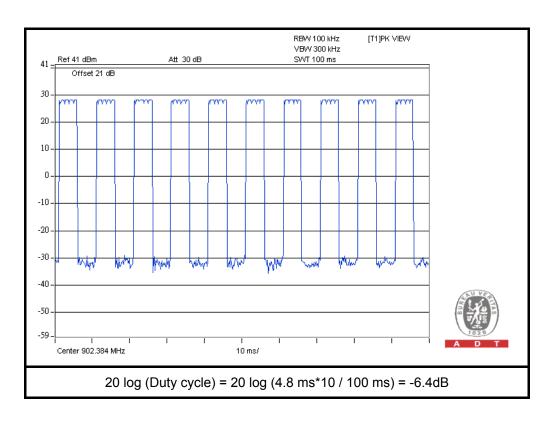
EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 50	FREQUENCY RANGE	1 ~ 12.5GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1011 hPa	TEST MODE	В	
TESTED BY	David Huang			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	1854.93	57.3 PK	74.0	-16.7	1.00 H	108	28.70	28.60	
2	1854.93	50.9 AV	54.0	-3.1	1.00 H	108	22.30	28.60	
3	2782.40	46.1 PK	74.0	-27.9	1.12 H	35	14.60	31.50	
4	2782.40	39.7 AV	54.0	-14.3	1.12 H	35	8.20	31.50	
5	3709.86	45.9 PK	74.0	-28.1	1.00 H	80	12.80	33.10	
6	3709.86	39.6 AV	54.0	-14.4	1.00 H	80	6.50	33.10	
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	1854.93	59.7 PK	74.0	-14.3	1.12 V	250	31.10	28.60	
2	1854.93	53.3 AV	54.0	-0.7	1.12 V	250	24.70	28.60	
3	2782.40	50.8 PK	74.0	-23.2	1.23 V	125	19.30	31.50	
4	2782.40	44.4 AV	54.0	-9.6	1.23 V	125	12.90	31.50	
5	3709.86	48.8 PK	74.0	-25.2	1.00 V	254	15.70	33.10	
6	3709.86	42.4 AV	54.0	-11.6	1.00 V	254	9.30	33.10	

- 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.
- 5. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula: 20 log (Duty cycle) = 20 log (48 ms / 100 ms) = -6.4 dB









BELOW 1GHz WORST-CASE DATA:

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1016 hPa	TEST MODE	А	
TESTED BY	David Huang			

	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	37.68	19.3 QP	40.0	-20.7	2.00 H	280	5.80	13.50	
2	90.17	20.2 QP	43.5	-23.3	2.00 H	94	11.60	8.60	
3	226.27	28.1 QP	46.0	-17.9	1.25 H	127	16.40	11.70	
4	498.47	22.4 QP	46.0	-23.6	1.50 H	295	2.20	20.20	
5	654.02	39.7 QP	46.0	-6.3	1.00 H	61	16.30	23.40	
6	994.27	43.9 QP	54.0	-10.1	1.25 H	151	15.90	28.00	
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M		
		EMISSION							
NO.	FREQ. (MHz)	LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
NO .	FREQ. (MHz) 45.45	LEVEL		MARGIN (dB) -14.0	, _	ANGLE		FACTOR	
	` ,	LEVEL (dBuV/m)	(dBuV/m)	,	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)	
1	45.45	LEVEL (dBuV/m) 26.0 QP	(dBuV/m) 40.0	-14.0	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m) 14.40	
1 2	45.45 68.79	LEVEL (dBuV/m) 26.0 QP 27.5 QP	(dBuV/m) 40.0 40.0	-14.0 -12.5	1.00 V 1.00 V	ANGLE (Degree) 277 271	(dBuV) 11.60 15.30	FACTOR (dB/m) 14.40 12.20	
1 2 3	45.45 68.79 290.43	LEVEL (dBuV/m) 26.0 QP 27.5 QP 21.7 QP	(dBuV/m) 40.0 40.0 46.0	-14.0 -12.5 -24.3	1.00 V 1.00 V 1.00 V	ANGLE (Degree) 277 271 112	(dBuV) 11.60 15.30 7.20	FACTOR (dB/m) 14.40 12.20 14.50	

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 25	FREQUENCY RANGE	Below 1000MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1016 hPa	TEST MODE	А	
TESTED BY	David Huang			

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	90.17	21.4 QP	43.5	-22.1	2.00 H	103	12.80	8.60
2	146.56	27.8 QP	43.5	-15.7	2.25 H	100	13.40	14.40
3	183.50	29.3 QP	43.5	-14.2	1.00 H	85	17.10	12.20
4	226.27	27.2 QP	46.0	-18.8	1.25 H	178	15.50	11.70
5	461.53	21.9 QP	46.0	-24.1	2.00 H	313	2.80	19.10
6	994.27	43.0 QP	54.0	-11.0	1.50 H	151	15.00	28.00
		ANTENNA	POLARIT	/ & TEST DI	STANCE: V	ERTICAL A	T 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	70.73	31.0 QP	40.0	-9.0	1.25 V	223	19.20	11.80
2	138.78	25.4 QP	43.5	-18.1	2.25 V	235	11.40	14.00
3	337.10	30.8 QP	46.0	-15.2	1.25 V	121	15.00	15.80
4	420.70	27.3 QP	46.0	-18.7	1.00 V	310	9.30	18.00
4 5	420.70 543.19	27.3 QP 25.0 QP	46.0 46.0	-18.7 -21.0	1.00 V 1.00 V	310 313	9.30 3.80	18.00 21.20

- 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 50	FREQUENCY RANGE	Below 1000MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak	
	25deg. C, 65%RH 1016 hPa	TEST MODE	Α	
TESTED BY	David Huang			

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	70.73	30.0 QP	40.0	-10.0	1.50 H	79	18.20	11.80
2	150.45	28.5 QP	43.5	-15.0	1.50 H	61	14.00	14.50
3	226.27	27.2 QP	46.0	-18.8	1.50 H	130	15.50	11.70
4	480.97	27.7 QP	46.0	-18.3	2.00 H	217	8.00	19.70
5	679.29	33.0 QP	46.0	-13.0	1.25 H	55	9.20	23.80
6	994.27	50.7 QP	54.0	-3.3	1.50 H	163	22.70	28.00
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	72.67	25.0 QP	40.0	-15.0	2.25 V	253	13.70	11.30
2	131.00	24.0 QP	43.5	-19.5	1.00 V	244	10.60	13.40
3	325.43	19.5 QP	46.0	-26.5	1.00 V	10	3.90	15.60
4	480.97	21.8 QP	46.0	-24.2	2.25 V	256	2.10	19.70
5	591.80	22.9 QP	46.0	-23.1	2.25 V	211	0.70	22.20
6	993.60	53.0 QP	54.0	-1.0	1.06 V	278	25.00	28.00

- 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	IANNEL Channel 1		Below 1000MHz		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak		
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1016 hPa	TEST MODE	В		
TESTED BY	David Huang				

	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	156.28	29.5 QP	43.5	-14.0	1.00 H	82	14.80	14.70			
2	208.77	29.9 QP	43.5	-13.6	1.15 H	115	19.00	10.90			
3	294.32	24.0 QP	46.0	-22.0	1.00 H	70	9.30	14.70			
4	492.64	25.4 QP	46.0	-20.6	2.25 H	211	5.40	20.00			
5	654.02	33.0 QP	46.0	-13.0	1.15 H	157	9.60	23.40			
6	689.01	36.4 QP	46.0	-9.6	1.25 H	10	12.40	24.00			
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M				
	O. FREQ. (MHz) EMISSION LEVEL LIMIT (dBuV/m) MARGIN (dB) ANTENNA HEIGHT (m) TABLE RAW VALUE (dBuV) FACTOR										
NO.	FREQ. (MHz)			MARGIN (dB)	, _ , .			CORRECTION FACTOR (dB/m)			
NO .	FREQ. (MHz) 158.22	LEVEL		MARGIN (dB) -15.3	, _ , .	ANGLE		FACTOR			
	, ,	LEVEL (dBuV/m)	(dBuV/m)	,	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)			
1	158.22	LEVEL (dBuV/m) 28.2 QP	(dBuV/m) 43.5	-15.3	HEIGHT (m)	ANGLE (Degree)	(dBuV) 13.40	FACTOR (dB/m) 14.80			
1 2	158.22 237.94	LEVEL (dBuV/m) 28.2 QP 26.0 QP	(dBuV/m) 43.5 46.0	-15.3 -20.0	1.00 V 2.25 V	ANGLE (Degree)	(dBuV) 13.40 13.60	FACTOR (dB/m) 14.80 12.40			
1 2 3	158.22 237.94 294.32	LEVEL (dBuV/m) 28.2 QP 26.0 QP 20.4 QP	(dBuV/m) 43.5 46.0 46.0	-15.3 -20.0 -25.6	1.00 V 2.25 V 1.00 V	ANGLE (Degree) 1 64 79	(dBuV) 13.40 13.60 5.70	FACTOR (dB/m) 14.80 12.40 14.70			

- 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	HANNEL Channel 25		Below 1000MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak	
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1016 hPa	TEST MODE	В	
TESTED BY	David Huang			

		ANTENNA	POLARITY	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	156.28	28.3 QP	43.5	-15.2	2.25 H	94	13.60	14.70						
2	204.89	27.0 QP	43.5	-16.5	1.15 H	118	16.30	10.70						
3	294.32	24.1 QP	46.0	-21.9	1.15 H	232	9.40	14.70						
4	492.64	24.5 QP	46.0	-21.5	2.00 H	82	4.50	20.00						
5	689.01	35.6 QP	46.0	-10.4	1.00 H	10	11.60	24.00						
6	786.23	26.4 QP	46.0	-19.6	1.00 H	28	1.30	25.10						
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M							
NO.	IO. FREQ. (MHz) EMISSION LEVEL LIMIT (dBuV/m) MARGIN (dB) ANTENNA HEIGHT (m) TABLE ANGLE RAW VALUE (dBuV) FACTOR													
		(dBuV/m)	(dBuV/m)	MARGIN (GB)	HEIGHT (m)	(Degree)	(dBuV)	(dB/m)						
1	31.84		(dBuV/m) 40.0	-13.5	1.00 V		(dBuV) 14.00							
1 2	31.84 156.28	(dBuV/m)	(dBuV/m)	,	- ()	(Degree)	` ′	(dB/m)						
		(dBuV/m) 26.5 QP	(dBuV/m) 40.0	-13.5	1.00 V	(Degree)	14.00	(dB/m) 12.50						
2	156.28	(dBuV/m) 26.5 QP 26.9 QP	(dBuV/m) 40.0 43.5	-13.5 -16.6	1.00 V 1.00 V	(Degree) 148 10	14.00 12.20	(dB/m) 12.50 14.70						
2	156.28 237.94	(dBuV/m) 26.5 QP 26.9 QP 25.3 QP	40.0 43.5 46.0	-13.5 -16.6 -20.7	1.00 V 1.00 V 2.25 V	(Degree) 148 10 73	14.00 12.20 12.90	(dB/m) 12.50 14.70 12.40						

- 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 50		Below 1000MHz		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak		
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1016 hPa	TEST MODE	В		
TESTED BY	David Huang				

	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	99.89	21.6 QP	43.5	-21.9	2.25 H	301	11.30	10.30			
2	156.28	29.3 QP	43.5	-14.2	1.25 H	82	14.60	14.70			
3	237.94	29.6 QP	46.0	-16.4	2.00 H	82	17.20	12.40			
4	294.32	23.1 QP	46.0	-22.9	1.00 H	238	8.40	14.70			
5	492.64	24.7 QP	46.0	-21.3	2.00 H	85	4.70	20.00			
6	689.01	35.2 QP	46.0	-10.8	1.25 H	10	11.20	24.00			
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M				
	EMISSION LIMIT MARGIN (dB) ANTENNA ANGLE RAW VALUE FACTOR										
NO.	FREQ. (MHz)			MARGIN (dB)	7			CORRECTION FACTOR (dB/m)			
NO .	FREQ. (MHz) 31.84	LEVEL		MARGIN (dB)	7	ANGLE		FACTOR			
	, ,	LEVEL (dBuV/m)	(dBuV/m)	, í	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)			
1	31.84	LEVEL (dBuV/m) 26.6 QP	(dBuV/m) 40.0	-13.4	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m) 12.50			
1 2	31.84 59.06	LEVEL (dBuV/m) 26.6 QP 23.5 QP	(dBuV/m) 40.0 40.0	-13.4 -16.5	1.00 V 1.00 V	ANGLE (Degree) 136 88	(dBuV) 14.10 10.20	FACTOR (dB/m) 12.50 13.30			
1 2 3	31.84 59.06 156.28	LEVEL (dBuV/m) 26.6 QP 23.5 QP 28.1 QP	(dBuV/m) 40.0 40.0 43.5	-13.4 -16.5 -15.4	1.00 V 1.00 V 1.15 V	ANGLE (Degree) 136 88 10	(dBuV) 14.10 10.20 13.40	FACTOR (dB/m) 12.50 13.30 14.70			

- 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 (dBµV)
	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	100289	Nov. 23, 2010	Nov. 22, 2011
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 30, 2010	Dec. 29, 2011
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Jan. 06, 2011	Jan. 05, 2012
LISN ROHDE & SCHWARZ	ESH3-Z5	100311	Jul. 08, 2010	Jul. 07, 2011
V-LISN SCHWARZBECK	NNBL 8226-2	8226-142	Jul. 12, 2010	Jul. 11, 2011
LISN ROHDE & SCHWARZ	ENV216	100072	Jun. 10, 2011	Jun. 09, 2012
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 2.
- 3. The VCCI Site Registration No. is C-2047.



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.

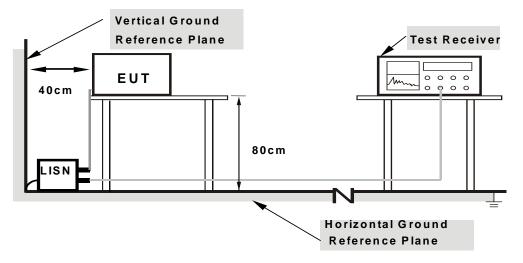
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

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.



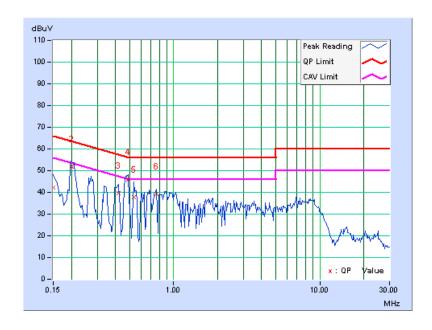
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA

PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	CH 1	TEST MODE	А

	Freq.	Corr.	Readin	g Value	Emis Le	sion vel	Lir	nit	Mar	gin
No		Factor	[dB ((uV)]	[dB ((uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.15	42.03	-	42.18	-	66.00	56.00	-23.82	-
2	0.201	0.15	51.86	-	52.01	-	63.58	53.58	-11.57	-
3	0.420	0.17	39.30	-	39.47	-	57.46	47.46	-17.99	-
4	0.486	0.17	45.59	-	45.76	-	56.24	46.24	-10.47	-
5	0.537	0.17	37.62	-	37.79	-	56.00	46.00	-18.21	-
6	0.767	0.18	39.02	-	39.20	-	56.00	46.00	-16.80	-

- 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.

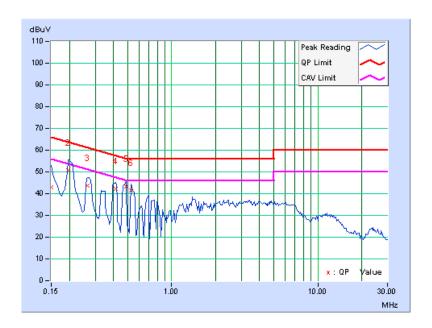




PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	CH 1	TEST MODE	Α

	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	0.150	0.16	42.79	-	42.95	-	66.00	56.00	-23.05	_
2	0.197	0.17	50.60	-	50.77	-	63.74	53.74	-12.97	-
3	0.267	0.18	43.47	-	43.65	-	61.20	51.20	-17.56	-
4	0.416	0.19	42.09	-	42.28	-	57.54	47.54	-15.25	_
5	0.486	0.19	43.05	-	43.24	-	56.24	46.24	-12.99	-
6	0.529	0.19	41.46	-	41.65	-	56.00	46.00	-14.35	-

- 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.

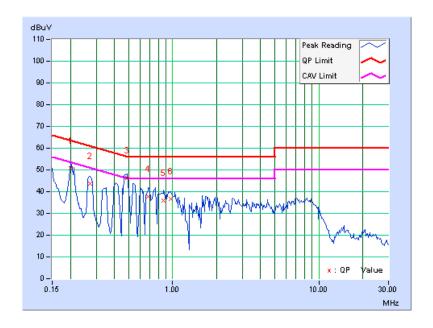




PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	CH 25	TEST MODE	А

	Freq.	Corr.	Reading Value		Emission Level		Lir	nit	Margin		
No		Factor	[dB (uV)]		[dB ([dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.201	0.15	50.62	-	50.77	-	63.58	53.58	-12.81	_	
2	0.271	0.16	43.56	-	43.72	-	61.08	51.08	-17.37	_	
3	0.486	0.17	45.96	-	46.13	-	56.24	46.24	-10.10	-	
4	0.681	0.18	37.49	-	37.67	-	56.00	46.00	-18.33	-	
5	0.869	0.19	35.74	-	35.93	-	56.00	46.00	-20.07	-	
6	0.966	0.19	36.56	-	36.75	-	56.00	46.00	-19.25	-	

- 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.

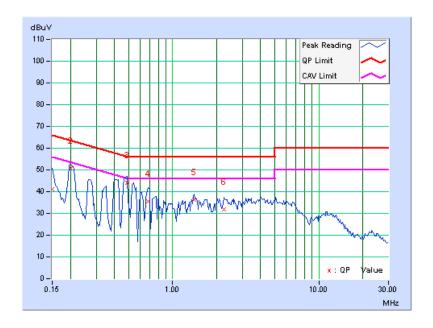




PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	CH 25	TEST MODE	A

	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	0.150	0.16	41.05	-	41.21	-	66.00	56.00	-24.79	-
2	0.201	0.17	50.65	-	50.82	-	63.58	53.58	-12.76	-
3	0.486	0.19	43.72	-	43.91	-	56.24	46.24	-12.32	-
4	0.681	0.20	35.20	-	35.40	-	56.00	46.00	-20.60	-
5	1.398	0.22	36.05	-	36.27	-	56.00	46.00	-19.73	-
6	2.238	0.24	31.66	-	31.90	-	56.00	46.00	-24.10	-

- 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.

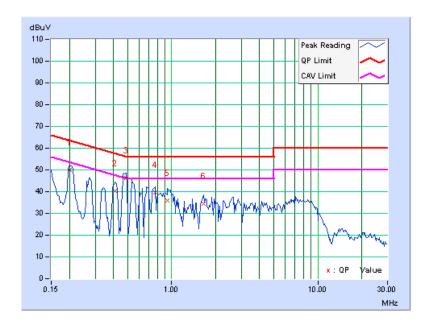




PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	CH 50	TEST MODE	A

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB	[dB (uV)]		(uV)]	[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.201	0.15	49.88	-	50.03	-	63.58	53.58	-13.55	-
2	0.412	0.17	40.22	-	40.39	-	57.61	47.61	-17.22	-
3	0.486	0.17	46.24	37.42	46.41	37.59	56.24	46.24	-9.82	-8.64
4	0.771	0.18	39.63	-	39.81	-	56.00	46.00	-16.19	-
5	0.935	0.19	35.83	-	36.02	-	56.00	46.00	-19.98	-
6	1.648	0.21	34.14	-	34.35	-	56.00	46.00	-21.65	-

- 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.

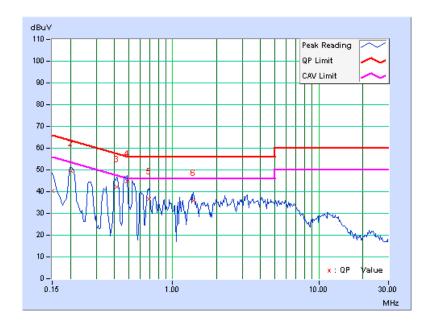




PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	CH 50	TEST MODE	A

	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	0.150	0.16	40.18	-	40.34	-	66.00	56.00	-25.66	-
2	0.201	0.17	49.59	-	49.76	-	63.58	53.58	-13.82	-
3	0.416	0.19	41.87	-	42.06	-	57.54	47.54	-15.47	-
4	0.490	0.19	44.51	-	44.70	-	56.17	46.17	-11.47	-
5	0.685	0.20	36.35	-	36.55	-	56.00	46.00	-19.45	-
6	1.395	0.22	35.83	-	36.05	-	56.00	46.00	-19.95	-

- 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.

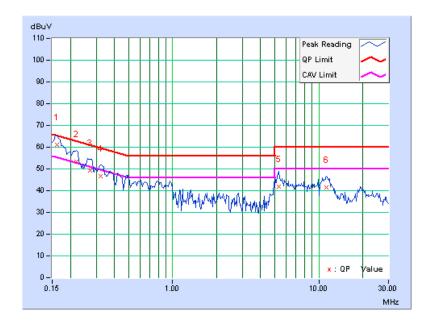




PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	CH 1	TEST MODE	В

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB	[dB (uV)]		(uV)]	[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.15	61.07	46.70	61.22	46.85	65.38	55.38	-4.16	-8.53
2	0.220	0.15	53.34	40.65	53.49	40.80	62.81	52.81	-9.32	-12.01
3	0.274	0.16	49.23	-	49.39	-	61.00	51.00	-11.61	-
4	0.322	0.16	46.40	-	46.56	-	59.66	49.66	-13.10	-
5	5.301	0.37	41.50	-	41.87	-	60.00	50.00	-18.13	-
6	11.336	0.64	40.71	-	41.35	-	60.00	50.00	-18.65	_

- 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.

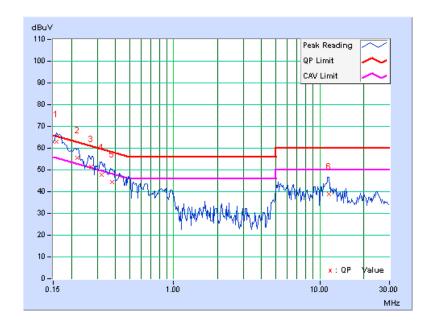




PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	CH 1	TEST MODE	В

	Freq.	Corr.	Reading Value		Emis Le	sion vel	Lir	nit	Margin	
No		Factor	[dB	(uV)]	[dB ((uV)]	[dB	(uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.16	62.68	44.56	62.84	44.72	65.58	55.58	-2.74	-10.86
2	0.220	0.17	55.50	42.05	55.67	42.22	62.81	52.81	-7.14	-10.59
3	0.271	0.18	51.35	37.93	51.53	38.11	61.08	51.08	-9.55	-12.97
4	0.322	0.18	47.74	-	47.92	-	59.66	49.66	-11.74	-
5	0.380	0.19	44.20	-	44.39	-	58.27	48.27	-13.88	-
6	11.559	0.57	38.49	-	39.06	-	60.00	50.00	-20.94	-

- 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.

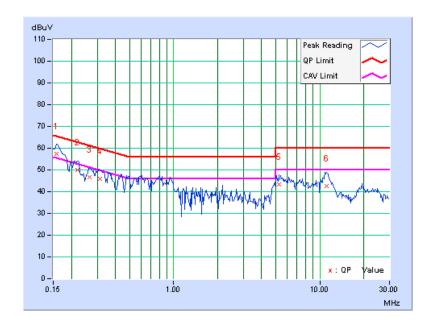




PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	CH 25	TEST MODE	В

	Freq.	Corr.	Readin	g Value		ssion vel	Lir	nit	Mar	gin
No		Factor	[dB	(uV)]	[dB ((uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.15	57.36	41.13	57.51	41.28	65.58	55.58	-8.07	-14.30
2	0.220	0.15	49.79	-	49.94	-	62.81	52.81	-12.87	-
3	0.267	0.16	46.44	-	46.60	-	61.20	51.20	-14.61	-
4	0.314	0.16	45.73	-	45.89	-	59.86	49.86	-13.97	-
5	5.277	0.37	42.86	-	43.23	-	60.00	50.00	-16.77	-
6	11.148	0.63	42.11	-	42.74	-	60.00	50.00	-17.26	-

- 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.

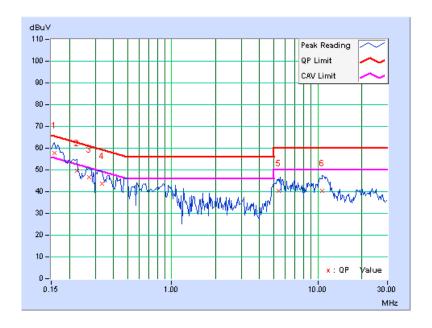




PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	CH 25	TEST MODE	В

	Freq.	Corr.	Readin	g Value		ssion vel	Lir	nit	Mar	gin
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.16	57.62	39.84	57.78	40.00	65.58	55.58	-7.80	-15.58
2	0.224	0.17	49.64	-	49.81	-	62.66	52.66	-12.85	-
3	0.271	0.18	46.47	-	46.65	-	61.08	51.08	-14.44	-
4	0.334	0.18	43.40	-	43.58	-	59.36	49.36	-15.78	-
5	5.406	0.36	40.06	-	40.42	-	60.00	50.00	-19.58	-
6	10.711	0.53	39.97	-	40.50	-	60.00	50.00	-19.50	-

- 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.

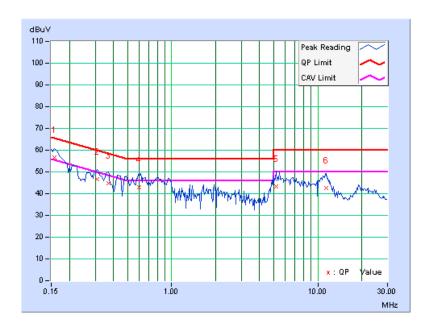




PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	CH 50	TEST MODE	В

	Freq.	Corr.	Readin	g Value		ssion vel	Lir	nit	Mar	gin
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.15	56.39	40.56	56.54	40.71	65.58	55.58	-9.04	-14.87
2	0.310	0.16	46.34	-	46.50	-	59.97	49.97	-13.47	-
3	0.369	0.17	44.69	-	44.86	-	58.53	48.53	-13.67	-
4	0.599	0.18	42.66	-	42.84	-	56.00	46.00	-13.16	-
5	5.191	0.37	42.84	-	43.21	-	60.00	50.00	-16.79	-
6	11.473	0.65	41.90	-	42.55	-	60.00	50.00	-17.45	-

- 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.

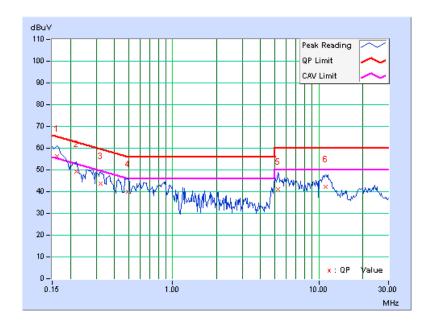




PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	CH 50	TEST MODE	В

	Freq.	Corr.	Readin	g Value		ssion vel	Lir	nit	Mar	gin
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.16	56.17	41.58	56.33	41.74	65.38	55.38	-9.05	-13.64
2	0.220	0.17	48.99	-	49.16	-	62.81	52.81	-13.65	-
3	0.322	0.18	43.69	-	43.87	-	59.66	49.66	-15.79	-
4	0.498	0.19	39.67	-	39.86	-	56.04	46.04	-16.18	-
5	5.266	0.36	40.60	-	40.96	-	60.00	50.00	-19.04	-
6	11.090	0.55	41.73	-	42.28	-	60.00	50.00	-17.72	-

- 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.





4.3 NUMBER OF HOPPING FREQUENCY USED

4.3.1 LIMIT OF HOPPING FREQUENCY USED

At least 50 channels frequencies, and should be equally spaced.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
SPECTRUM ANALYZER R&S	FSP40	100040	Jul. 17, 2010	Jul. 16, 2011

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

4.3.3 TEST PROCEDURES

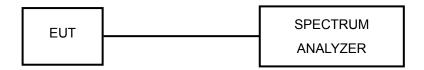
- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- d. Set the SA on View mode and then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were complete.



4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 TEST SETUP

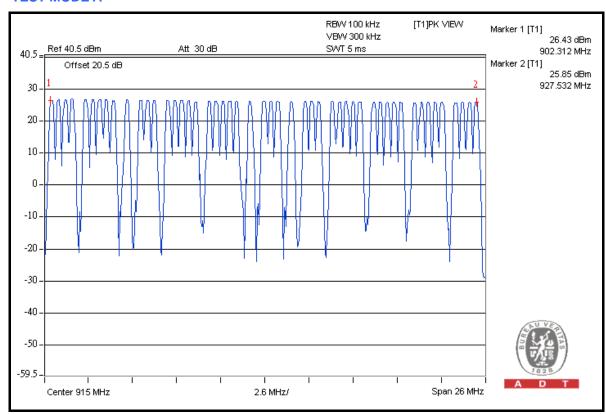


4.3.6 TEST RESULTS

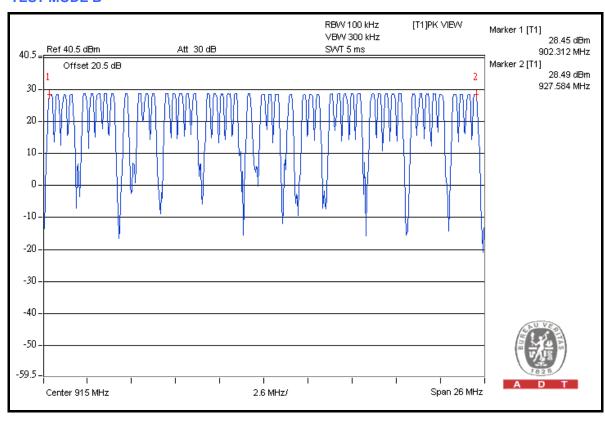
There are 252 hopping frequencies in the hopping mode. Please refer to next page for the test result. On the plots, it shows that the hopping frequencies are equally spaced.



TEST MODE A



TEST MODE B





4.4 DWELL TIME ON EACH CHANNEL

4.4.1 LIMIT OF DWELL TIME USED

The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period;

4.4.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
SPECTRUM ANALYZER R&S	FSP40	100040	Jul. 17, 2010	Jul. 16, 2011

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

4.4.3 TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- d. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- e. Repeat above procedures until all different time-slot modes have been completed.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation.

4.4.5 TEST SETUP

Same as 4.3.5.



4.4.6 TEST RESULTS

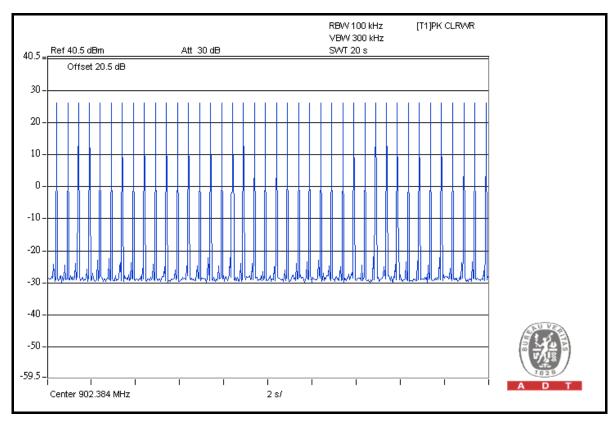
TEST MODE A

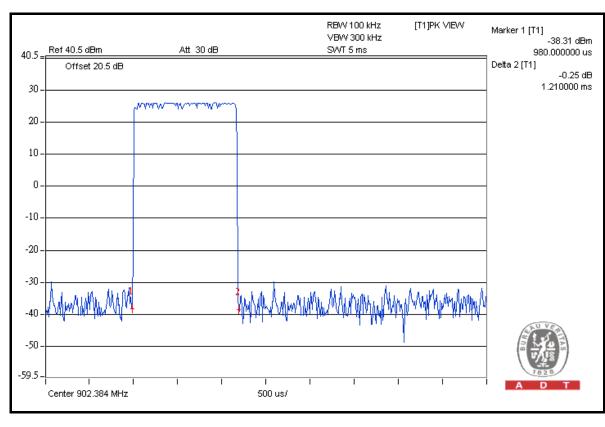
Length of transmission time (ms)	TX Burst of 20s period	Result	Limit
1.21	40	48.4ms / 20s	400ms / 20s

NOTE: Test plots of the transmitting time slot are shown on next page.

Report No.: RF940314L15B Reference No.: 110419C21







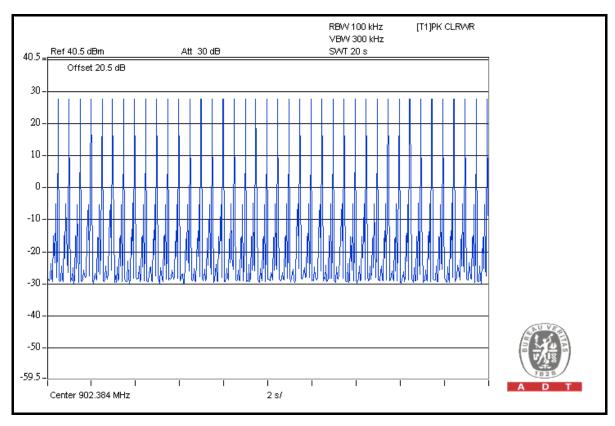


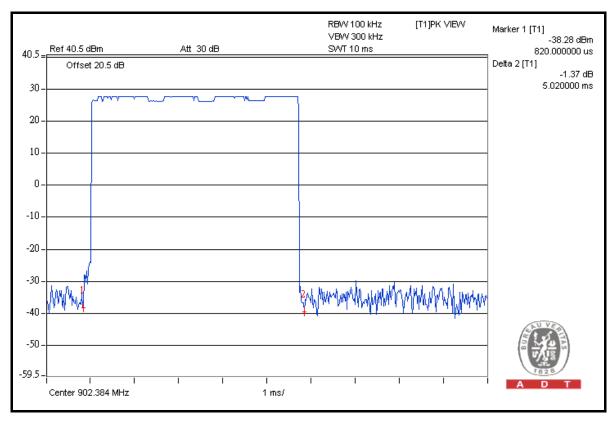
TEST MODE B

Length of transmission time (ms)	TX Burst of 20s period	Result	Limit
5.02	40	200.8ms / 20s	400ms / 20s

NOTE: Test plots of the transmitting time slot are shown on next page.









4.5 CHANNEL BANDWIDTH

4.5.1 LIMITS OF CHANNEL BANDWIDTH

The 20 dB bandwidth of the hopping channel shall be less than 500 kHz.

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
SPECTRUM ANALYZER R&S	FSP40	100040	Jul. 17, 2010	Jul. 16, 2011

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

4.5.3 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation.

4.5.5 TEST SETUP

Same as 4.3.5.

Report No.: RF940314L15B Reference No.: 110419C21



4.5.6 EUT OPERATING CONDITION

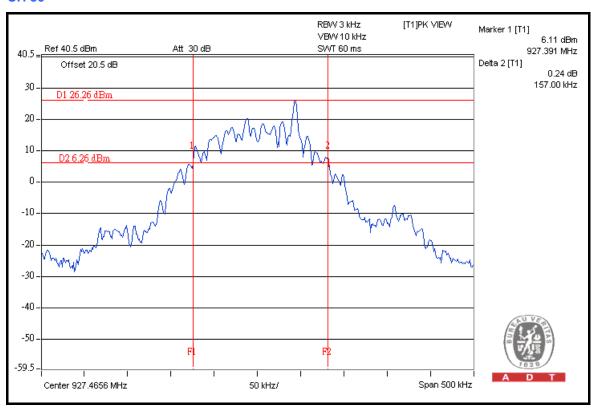
The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

4.5.7 TEST RESULTS

TEST MODE A

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)	LIMIT (kHz)
1	902.3840	0.156	500
25	914.9248	0.157	500
50	927.4656	0.157	500

CH 50

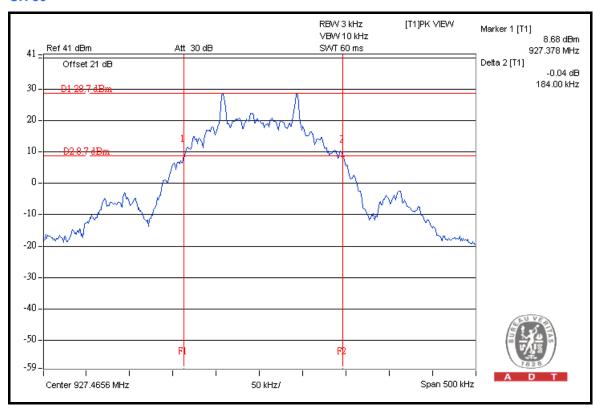




TEST MODE B

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)	LIMIT (kHz)
1	902.3840	0.182	500
25	914.9248	0.183	500
50	927.4656	0.184	500

CH 50





4.6 HOPPING CHANNEL SEPARATION

4.6.1 LIMIT OF HOPPING CHANNEL SEPARATION

At least 25kHz or 20dB hopping channel bandwidth (whichever is greater).

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
SPECTRUM ANALYZER R&S	FSP40	100040	Jul. 17, 2010	Jul. 16, 2011

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

4.6.3 TEST PROCEDURES

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
- 3. By using the MaxHold function record the separation of two adjacent channels.
- 4. Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
- 5. Repeat above procedures until all frequencies measured were complete.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation.

4.6.5 TEST SETUP

Same as 4.3.5

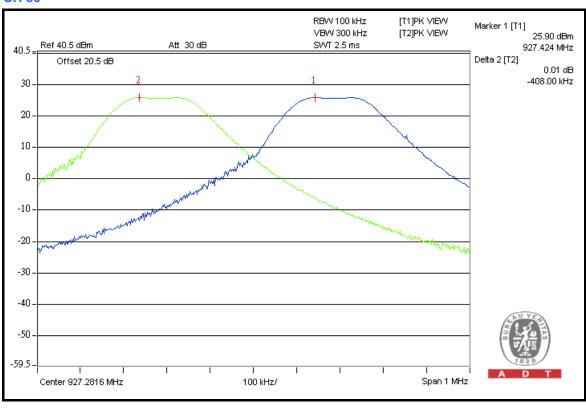


4.6.6 TEST RESULTS

TEST MODE A

CHANNEL	FREQUENCY (MHz)	ADJACENT CHANNEL SEPARATION (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	902.3840	0.406	0.156	PASS
25	914.9248	0.404	0.157	PASS
50	927.4656	0.408	0.157	PASS

CH 50

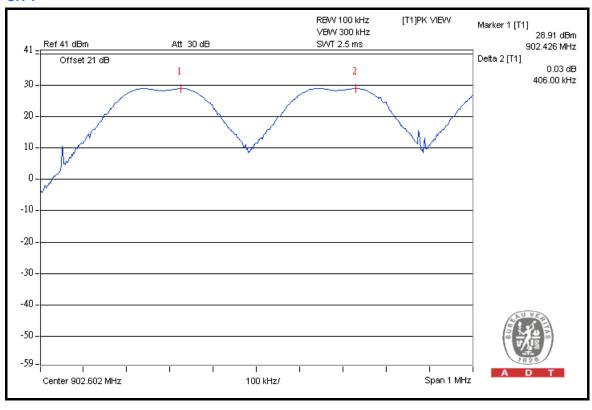




TEST MODE B

CHANNEL	FREQUENCY (MHz)	ADJACENT CHANNEL SEPARATION (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	902.3840	0.406	0.182	PASS
25	914.9248	0.406	0.183	PASS
50	927.4656	0.406	0.184	PASS

CH₁





4.7 MAXIMUM OUTPUT POWER

4.7.1 LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 30dBm.

4.7.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
SPECTRUM ANALYZER R&S	FSP40	100040	Jul. 17, 2010	Jul. 16, 2011

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

4.7.3 TEST PROCEDURES

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. The center frequency of the spectrum analyzer is set to the fundamental frequency and using 1MHz RBW and 3 MHz VBW.
- d. Measure the captured power within the band and recording the plot.
- e. Repeat above procedures until all frequencies required were complete.

4.7.4 DEVIATION FROM TEST STANDARD

No deviation

4.7.5 TEST SETUP

Same as 4.3.5.



4.7.6 EUT OPERATING CONDITION

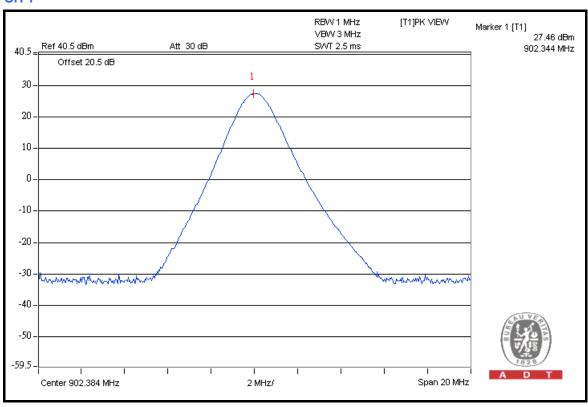
The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

4.7.7 TEST RESULTS

TEST MODE A

CHANNEL	CHANNEL FREQUENCY (MHz)	POWER OUTPUT (mW)	POWER OUTPUT (dBm)	POWER LIMIT (dBm)	PASS/FAIL
1	902.3840	557.2	27.5	30	PASS
25	914.9248	508.2	27.1	30	PASS
50	927.4656	502.3	27.0	30	PASS

CH 1

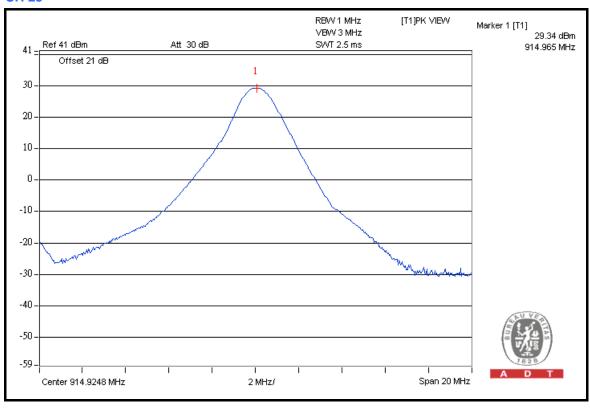




TEST MODE B

TEST MODE B						
	CHANNEL	CHANNEL FREQUENCY (MHz)	POWER OUTPUT (mW)	POWER OUTPUT (dBm)	POWER LIMIT (dBm)	PASS/FAIL
	1	902.3840	827.9	29.2	30	PASS
	25	914.9248	859.0	29.3	30	PASS
	50	927.4656	837.5	29.2	30	PASS

CH 25



72



4.8 BAND EDGES MEASUREMENT

4.8.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100KHz RBW).

4.8.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
SPECTRUM ANALYZER R&S	FSP40	100040	Jul. 17, 2010	Jul. 16, 2011

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

4.8.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 / 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

4.8.4 DEVIATION FROM TEST STANDARD

No deviation.

4.8.5 EUT OPERATING CONDITION

The software provided by client enabled the EUT to transmit and receive data at lowest and highest channel frequencies individually.



4.8.6 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).

TEST MODE A

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH OUT OF BAND (dBuV/m)	LIMIT (dBuV/m)
902.3840 (PK)	129.3	40.14	89.16	109.3
902.3840 (AV)	-	-	70.96	91.1

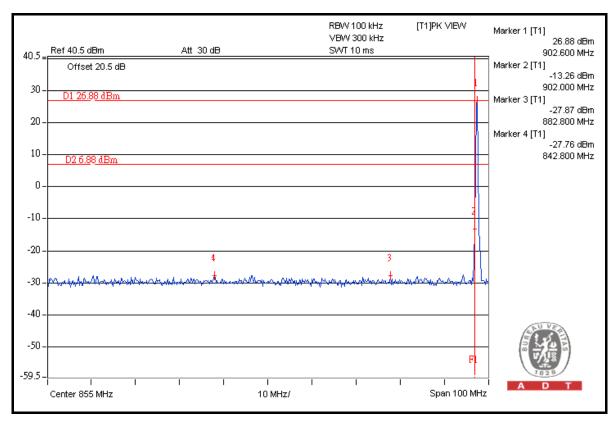
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH OUT OF BAND (dBuV/m)	LIMIT (dBuV/m)
927.4656 (PK)	128.0	52.87	75.13	108.0
927.4656 (AV)	-	-	56.93	89.8

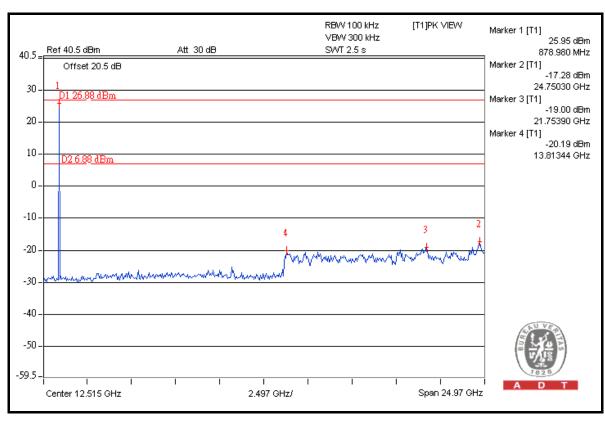
NOTE:

- 1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 2 pages.
- 2. Maximum field strength out of band (PK value) = Fundamental emission (PK value) Delta.
- 3. Average value = Peak value + 20 Log (duty cycle) = Peak value 18.2dB.
- 4. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:

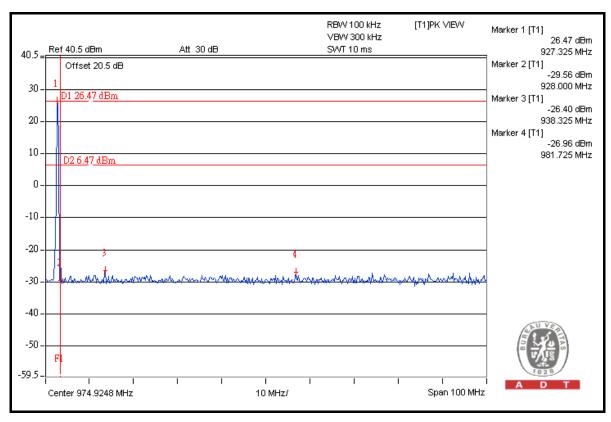
 $20 \log (Duty \text{ cycle}) = 20 \log (12.3 \text{ ms} / 100 \text{ ms}) = -18.2 \text{dB}$

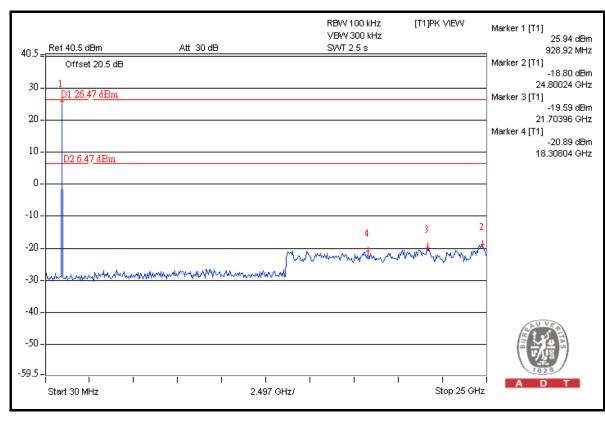














TEST MODE B

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH OUT OF BAND (dBuV/m)	LIMIT (dBuV/m)
902.3840 (PK)	130.0	24.13	105.87	110.0
902.3840 (AV)	-	-	99.47	103.6

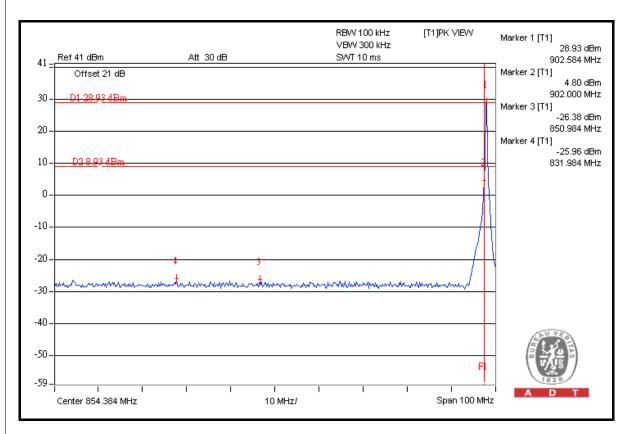
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH OUT OF BAND (dBuV/m)	LIMIT (dBuV/m)
927.4656 (PK)	128.7	35.21	93.49	108.7
927.4656 (AV)	-	-	87.09	102.3

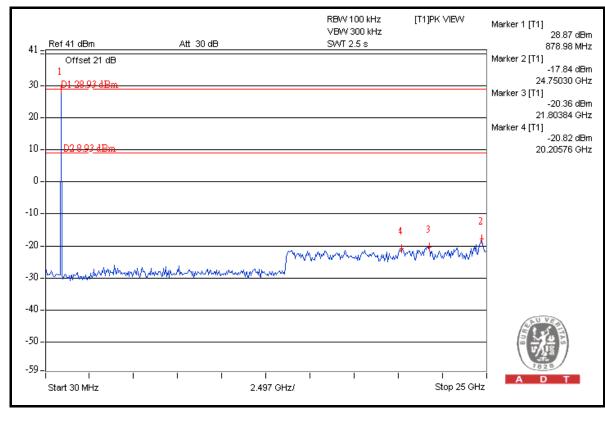
NOTE:

- 1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 2 pages.
- 2. Maximum field strength out of band (PK value) = Fundamental emission (PK value) Delta.
- 3. Average value =Peak value + 20 Log (duty cycle) = Peak value 6.4dB.
- 4. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:

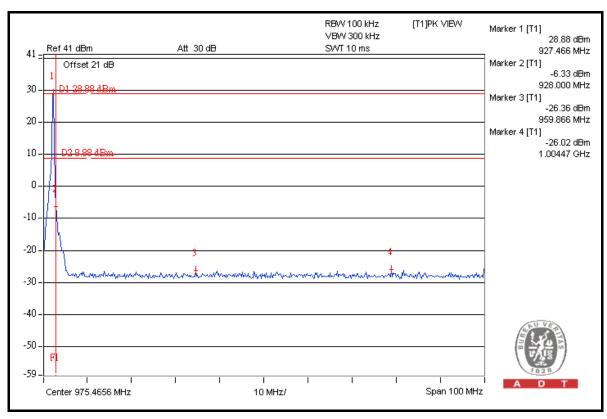
20 log (Duty cycle) = 20 log (48ms / 100 ms) = -6.4 dB

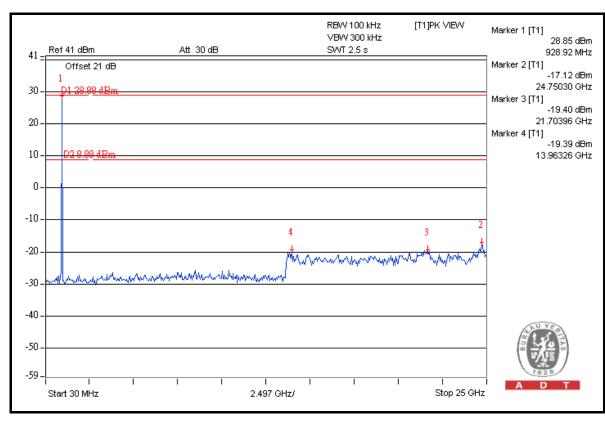














5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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

Report No.: RF940314L15B Reference No.: 110419C21



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.

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: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: 886-3-3185050

Email: service.adt@tw.bureauveritas.com

Web Site: www.adt.com.tw

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

Report No.: RF940314L15B Reference No.: 110419C21



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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