

FCC TEST REPORT (15.407)

REPORT NO.: RF981021L04-1

MODEL NO.: MC75A0

RECEIVED: Oct. 21, 2009

TESTED: Oct. 22 ~ Oct. 26, 2009

ISSUED: Oct. 30, 2009

APPLICANT: Symbol Technologies, Inc.

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U.S.A.

ISSUED BY: Bureau Veritas Consumer Products Services

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R.O.C.

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TABLE OF CONTENTS

1.	CERTIFICATION	
2.	SUMMARY OF TEST RESULTS	5
2.1	MEASUREMENT UNCERTAINTY	5
3.	GENERAL INFORMATION	6
3.1	GENERAL DESCRIPTION OF EUT	6
3.2	DESCRIPTION OF TEST MODES	8
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	12
4.1.1	LIMITS OF RADIATED EMISSION MEASUREMENT	
4.1.2	LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS	
4.1.3	TEST INSTRUMENTS	
4.1.4	TEST PROCEDURES	
4.1.5	DEVIATION FROM TEST STANDARD	
4.1.6	TEST SETUP	
4.1.7	EUT OPERATING CONDITION	15
4.1.7	TEST RESULTS	
4.1.6	CONDUCTED EMISSION MEASUREMENT	
	LIMITS OF CONDUCTED EMISSION MEASUREMENT	
4.2.1	TEST INSTRUMENTS	
4.2.2		
4.2.3	TEST PROCEDURES	
4.2.4	DEVIATION FROM TEST STANDARD	
4.2.5	TEST SETUP	
4.2.6	EUT OPERATING CONDITIONS	
4.2.7	TEST RESULTS	
4.3	MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT	
4.3.1	LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT	
4.3.2	TEST INSTRUMENTS	
4.3.3	TEST PROCEDURES	
4.3.4	DEVIATION FROM TEST STANDARD	
4.3.5	TEST SETUP	
4.3.6	EUT OPERATING CONDITIONS	
	TEST RESULTS	
4.4	PEAK POWER EXCURSION MEASUREMENT	38
	LIMITS OF PEAK POWER EXCURSION MEASUREMENT	
	TEST INSTRUMENTS	
	TEST PROCEDURE	
4.4.4	DEVIATION FROM TEST STANDARD	
4.4.5	TEST SETUP	39
4.4.6	EUT OPERATING CONDITIONS	39
	TEST RESULTS	40
4.5	PEAK POWER SPECTRAL DENSITY MEASUREMENT	
4.5.1	LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT	42
4.5.2	TEST INSTRUMENTS	42
	TEST PROCEDURES	
	DEVIATION FROM TEST STANDARD	



4.5.5	TEST SETUP	43
4.5.6	EUT OPERATING CONDITIONS	43
4.5.7	TEST RESULTS	.44
4.6	FREQUENCY STABILITY	45
4.6.1	LIMITS OF FREQUENCY STABILITY MEASUREMENT	45
4.6.2	TEST INSTRUMENTS	45
4.6.3	TEST PROCEDURE	45
4.6.4	DEVIATION FROM TEST STANDARD	46
4.6.5	TEST SETUP	46
4.6.6	EUT OPERATING CONDITION	
4.6.7	TEST RESULTS	
4.7	BAND EDGES MEASUREMENT	
4.7.1	TEST INSTRUMENTS	48
4.7.2	TEST PROCEDURE	.48
4.7.3	EUT OPERATING CONDITION	48
4.7.4	TEST RESULTS	.48
5.	PHOTOGRAPHS OF THE TEST CONFIGURATION	.57
6.	INFORMATION ON THE TESTING LABORATORIES	.58
7.	APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES	
	TO THE EUT BY THE LAB	.59



1. CERTIFICATION

PRODUCT: EDA (Enterprise Digital Assistant)

MODEL NO.: MC75A0

BRAND: Symbol

APPLICANT: Symbol Technologies, Inc.

TESTED: Oct. 22 ~ Oct. 26, 2009

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 15, Subpart E (Section 15.407)

ANSI C63.4-2003

The above equipment (Model: MC75A0) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Andrea 17 , DATE: Oct. 30, 2009

Andrea Hsia / Specialist

TECHNICAL

ACCEPTANCE: Long Chen, DATE: Oct. 30, 2009

Responsible for RF Long Chen / Senior Engineer

APPROVED BY: Jan Clary, DATE: Oct. 30, 2009

Gary Chang / Assistant Manager



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407)					
STANDARD TEST TYPE AND LIMIT F		RESULT	REMARK		
15.407(b)(5)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -16.3dB at 0.150MHz		
15.407(b/1/2/3) (b)(5)	Electric Field Strength Spurious Emissions, 30MHz ~ 40000MHz	PASS	Meet the requirement of limit. Minimum passing margin is -4.2dB at 5470.00MHz		
15.407(a/1/2/3)	Peak Transmit Power	PASS	Meet the requirement of limit.		
15.407(a)(6)	Peak Power Excursion	PASS	Meet the requirement of limit.		
15.407(a/1/2/3)	Peak Power Spectral Density	PASS	Meet the requirement of limit.		
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.		
15.203	Antenna Requirement	PASS	For Main & Aux. antenna: Antenna connector is IFA 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 emissions	150kHz~30MHz	2.44 dB
	30MHz ~ 200MHz	2.93 dB
Radiated emissions	200MHz ~1000MHz	2.95 dB
Radiated ethissions	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	EDA (Enterprise Digital Assistant)	
MODEL NO.	MC75A0	
FCC ID	H9PMC75A0	
POWER SUPPLY	3.7Vdc (Li-Lon battery) 5.4Vdc (Adapter)	
MODULATION TYPE	64QAM, 16QAM, QPSK, BPSK	
MODULATION TECHNOLOGY	OFDM	
TRANSFER RATE	54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps	
OPERATING FREQUENCY	5180 ~ 5320MHz & 5500 ~ 5700MHz	
NUMBER OF CHANNEL	5180 ~ 5320MHz: 8 5500 ~ 5700MHz: 11	
OUTPUT POWER (AV POWER)	11.2dBm (13.2mW) for 5180 ~ 5320MHz 12.1dBm (16.2mW) for 5500 ~ 5700MHz	
ANTENNA TYPE	Refer to NOTE3 as below	
ANTENNA CONNECTOR	Refer to NOTE3 as below	
DATA CABLE	Refer to NOTE5 as below	
I/O PORTS	Refer to user's manual	
ACCESSORY DEVICES	Battery	

NOTE:

- 1. The models identified as below are identical to each other except of the following options:
 - Keypad: Numeric / QWERTY
 - Barcode reader: 1D laser scanner / BB Imager

BRAND	MODEL	DESCRIPTION		
Symbol	MC75A0	WLAN 1D Numeric		
Symbol	MC75A0	WLAN BB QWERTY		
**the worst case had been marked by boldface.				

2. The EUT uses the following Li-Lon batteries:

BATTERY 1 (1X)			
BRAND: MOTOROLA			
PART NUMBER: 82-71364-04 Rev A			
RATING: 3.7Vdc, 1950mAh, 7.21Wh			

BATTERY 2 (1.5X)			
BRAND: MOTOROLA			
PART NUMBER: 82-71364-05 Rev D			
RATING: 3.7Vdc, 3600mAh, 13.3Wh			

^{*}Battery 2 was chosen as the representative for testing.



3. The EUT used two antennas listed as below:

ANTENNA	Antenna Type	Antenna Connecter	Antenna Gain (dBi)	
ITEM	Antenna Type	Antenna Connecter	2.4GHz	5.0GHz
Main Antenna	inverted F	IPEX	-4.39	2.05
Aux. Antenna	Planar inverted	IPEX	2.31	3.29

^{**}For final tested, Aux. antenna was chosen for tested and presented in the test report.

4. The EUT is an EDA (Enterprise Digital Assistant). The functions of EUT listed as below:

TEST STANDARD		REFERENCE REPORT
WLAN 802.11b/g FCC Part 15, Subj		RF981021L04
WLAN 802.11a (5745~5825 MHz)	(Section 15.247)	14 001021201
WLAN 802.11a (5180 ~ 5320MHz, 5500 ~ 5700MHz)	FCC Part 15, Subpart E (Section 15.407)	RF981021L04-1
WLAN 802.11a (For DFS report) (5260 ~ 5320MHz, 5500 ~ 5700MHz)	FCC Part 15, Subpart E (Section 15.407)	RF981021L04-3
BLUETOOTH	FCC Part 15, Subpart C (Section 15.247)	RF981021L04-2

5. The following accessories are for optional units only.

PRODUCT	BRAND	MODEL	DESCRIPTION
RS232 charging cable	Motorola	25-102776-01R	1.2m non-shielded cable with one core
USB charging cable	Motorola	25-102775-01R	1.5m shielded cable with one core
Headset	Motorola	50-11300-050R	VR10 headset 0.8m non-shielded cable with one core
Power Supply Adaptor	Motorola	EADP-16BB A	I/P: 100-240Vac, 50-60Hz, 0.4A O/P: 5.4Vdc, 3A 1.8m non-shielded cable without core

6. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.



3.2 DESCRIPTION OF TEST MODES

Operated in 5180 ~ 5320MHz

8 channels are provided for 802.11a

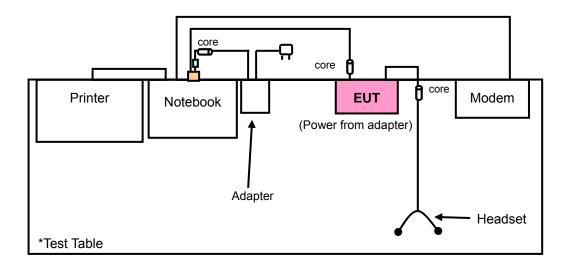
CHANNEL FREQUENCY		CHANNEL	FREQUENCY
36 5180 MHz		52	5260 MHz
40	5200 MHz	56	5280 MHz
44	5220 MHz	60	5300 MHz
48	5240 MHz	64	5320 MHz

Operated in 5500 ~ 5700MHz

11 channels are provided for 802.11a

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST





3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	DESCRIPTION
-	V	\checkmark	V	\checkmark	-

Where RE≥1G: Radiated Emission above 1GHz RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission APCM: Antenna Port Conducted Measurement

RADIATED EMISSION TEST (ABOVE 1GHz):

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

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

MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
802.11a	5180-5320	36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6.0	Z
802.11a	5500-5700	100 to 140	100, 120, 140	OFDM	BPSK	6.0	Z

RADIATED EMISSION TEST (BELOW 1GHz):

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

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

MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
802.11a	5180-5320	36 to 64	64	OFDM	BPSK	6.0	Z
802.11a	5500-5700	100 to 140	100	OFDM	BPSK	6.0	Z

POWER LINE CONDUCTED EMISSION TEST:

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

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

MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11a	5180-5320	36 to 64	64	OFDM	BPSK	6.0
802.11a	5500-5700	100 to 140	100	OFDM	BPSK	6.0



BANDEDGE MEASUREMENT:

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

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

MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11a	5180-5320	36 to 64	36, 64	OFDM	BPSK	6.0
802.11a	5500-5700	100 to 140	100, 140	OFDM	BPSK	6.0

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, data rates and antenna ports (if EUT with antenna diversity architecture).

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

MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11a	5180-5320	36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6.0
802.11a	5500-5700	100 to 140	100, 120, 140	OFDM	BPSK	6.0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE≥1G	25deg. C, 66%RH, 1008 hPa	120Vac, 60Hz	Brad Wu
RE<1G	25deg. C, 65%RH, 1008 hPa	120Vac, 60Hz	Mark Liao
PLC	25deg. C, 62%RH, 1008 hPa	120Vac, 60Hz	Sam Chang
APCM	25deg. C, 63%RH, 1008 hPa	120Vac, 60Hz	Brad Wu



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 E (15.407) ANSI C63.4-2003

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

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

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	PP05L	12130898320	E2K24CLNS
2	PRINTER	EPSON	LQ-300+	DCGY054011	FCC DoC Approved
3	MODEM	ACEEX	1414V/3	0401008253	IFAXDM1414

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS				
1	1.8m shielded USB cable with one core				
2	1.8m braid shielded wire, DB25 connector, w/o core.				
3	1.2m braid shielded wire, DB25 & DB9 connector, w/o core.				

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



4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

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

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

FREQUENCIES (MHz)	EIRP LIMIT (dBm)	EQUIVALENT FIELD STRENGTH AT 3m (dBμV/m) *NOTE	
	PK	PK	
5150 ~ 5350	-27	68.3	
5470 ~ 5725	-27	68.3	

NOTE:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength: $E = \frac{1000000\sqrt{30P}}{2} \quad \mu \text{V/m, where P is the eirp (Watts)}.$



4.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESIB7	100212	May 25, 2009	May 24, 2010
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Jul. 07, 2009	Jul. 06, 2010
BILOG Antenna SCHWARZBECK	VULB9168	9168-156	Apr. 30, 2009	Apr. 29, 2010
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-563	Aug. 10, 2009	Aug. 09, 2010
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 06, 2009	Jan. 05, 2010
Preamplifier Agilent	8449B	3008A01910	Sep. 11, 2009	Sep. 10, 2010
Preamplifier Agilent	8447D	2944A10638	Dec. 26, 2008	Dec. 25, 2009
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	218190/4 231241/4	May 13, 2009	May 12, 2010
RF signal cable Worken	8D-FB	Cable-HYCH9-01	Aug. 17, 2009	Aug. 16, 2010
Software	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower &Turn Table Controller EMCO	2090	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 Chamber 9.
- 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 460141.
- 5. The IC Site Registration No. is IC 7450F-4.



4.1.4 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 camber. 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 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

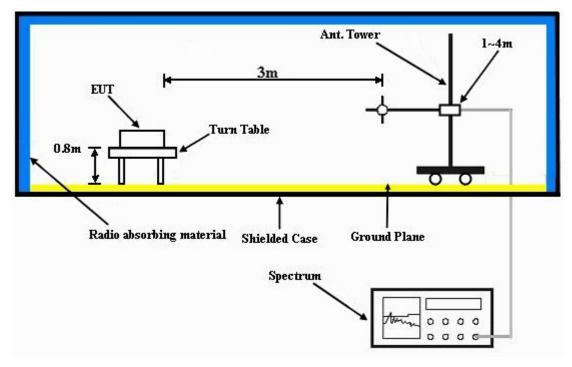
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency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

4.1.5 DEVIATION FROM TEST STANDARD

No deviation



4.1.6 TEST SETUP



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

4.1.7 EUT OPERATING CONDITION

- a. Connected the EUT to a notebook via a USB cable and placed on a testing table.
- b. The EUT runs a test program (provided by manufacture) to transmit at specific channel.
- c. The necessary accessories enable the system in full functions.



4.1.8 TEST RESULTS

802.11a (Aux. antenna was chosen for tested)

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
	25deg. C, 66%RH 1000 hPa	TESTED BY	Brad Wu	

		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	5150.00	58.6 PK	74.00	-15.4	1.00 H	145	19.73	38.91
2	5150.00	37.9 AV	54.00	-16.2	1.00 H	145	-1.06	38.91
3	*5180.00	102.4 PK			1.00 H	145	63.46	38.96
4	*5180.00	91.2 AV			1.00 H	145	52.21	38.96
5	#10360.00	58.9 PK	68.30	-9.4	1.05 H	23	10.27	48.60
		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	5150.00	60.7 PK	74.00	-13.3	1.10 V	41	21.80	38.91
2	5150.00	40.0 AV	54.00	-14.0	1.10 V	41	1.12	38.91
3	*5180.00	103.9 PK			1.10 V	41	64.90	38.96
4	*5180.00	92.6 AV			1.10 V	41	53.60	38.96
5	#10360.00	58.7 PK	68.30	-9.6	1.02 V	15	10.11	48.60

- 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. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1000 hPa	TESTED BY	Brad Wu	

	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	*5200.00	103.8 PK			1.01 H	146	64.76	38.99			
2	*5200.00	91.5 AV			1.01 H	146	52.53	38.99			
3	#10400.00	59.0 PK	68.30	-9.4	1.03 H	214	10.32	48.63			
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M				
	EMISSION LIMIT ANTENNA TABLE RAW VALUE CORRECTION										
NO.	FREQ. (MHz)	LEVEL		MARGIN (dB)		ANGLE	_	FACTOR			
NO .	*5200.00	LEVEL		MARGIN (dB)		ANGLE	_	FACTOR			
1 2	, ,	LEVEL (dBuV/m)		MARGIN (dB)	HEIGHT (m)	ANGLE (Degree)	(dBuV)	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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1000 hPa	TESTED BY	Brad Wu	

		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	*5240.00	103.9 PK			1.03 H	151	64.81	39.05						
2	*5240.00	91.6 AV			1.03 H	151	52.59	39.05						
3	#10480.00	59.1 PK	68.30	-9.2	1.01 H	219	10.27	48.87						
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M							
NO.	EMISSION LIMIT ANTENNA TABLE RAW VALUE CORRECTION													
	` ,		(dBuV/m)	, (u.b.)	HEIGHT (m)		(dBuV)							
1	*5240.00		(dBuV/m)	iiii (a2)	1.01 V		(dBuV) 65.21							
1 2	*5240.00 *5240.00	(dBuV/m)	(dBuV/m)		HEIGHT (m)	(Degree)	, ,	(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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1000 hPa	TESTED BY	Brad Wu	

		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	*5260.00	103.1 PK			1.02 H	148	63.97	39.09		
2	*5260.00	92.9 AV			1.02 H	148	53.80	39.09		
3	#10520.00	59.3 PK	68.30	-9.0	1.08 H	206	10.30	48.98		
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M			
NO	NO. FREQ. (MHz) EMISSION LEVEL (dBuV/m) CORRECTION MARGIN (dB) CORRECTION HEIGHT (m) CORRECTION FACTOR (dB/m) CORRECTION									
110.	FREG. (MHZ)		(dBuV/m)	MARGIN (dB)	HEIGHT (m)		(dBuV)			
1	*5260.00		(dBuV/m)	MARGIN (dB)	HEIGHT (m) 1.02 V		(dBuV) 65.39			
1 2	` ,	(dBuV/m)	(dBuV/m)	MARGIN (dB)	HEIGHT (m)	(Degree)	, ,	(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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1000 hPa	TESTED BY	Brad Wu	

	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	*5300.00	104.3 PK			1.04 H	142	65.17	39.15		
2	*5300.00	92.6 AV			1.04 H	142	53.46	39.15		
3	10600.00	58.9 PK	74.00	-15.1	1.03 H	29	9.67	49.19		
4	10600.00	46.2 AV	54.00	-7.8	1.03 H	29	-2.98	49.19		
		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)		
NO.	FREQ. (MHz) *5300.00	LEVEL		MARGIN (dB)		ANGLE		FACTOR		
NO. 1	` ,	LEVEL (dBuV/m)		MARGIN (dB)	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)		
1	*5300.00	LEVEL (dBuV/m) 105.1 PK		-15.0	HEIGHT (m) 1.04 V	ANGLE (Degree)	(dBuV) 65.98	FACTOR (dB/m) 39.15		

- 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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
	25deg. C, 66%RH 1000 hPa	TESTED BY	Brad Wu	

		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	*5320.00	105.3 PK			1.00 H	154	66.11	39.18
2	*5320.00	93.7 AV			1.00 H	154	54.55	39.18
3	5350.00	57.1 PK	74.00	-16.9	1.01 H	153	17.92	39.22
4	5350.00	38.9 AV	54.00	-15.1	1.01 H	153	-0.31	39.22
5	10640.00	58.6 PK	74.00	-15.4	1.04 H	123	9.33	49.25
6	10640.00	46.0 AV	54.00	-8.0	1.04 H	123	-3.26	49.25
		ANTENNA	A 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	*5320.00	106.3 PK			1.00 V	89	67.08	39.18
2	*5320.00	95.0 AV			1.00 V	89	55.84	39.18
_		33.0 AV			1.00 V	3	55.04	33.10
3	5350.00	62.5 PK	74.00	-11.5	1.00 V	89	23.28	39.22
_			74.00 54.00	-11.5 -11.3				
3	5350.00	62.5 PK			1.00 V	89	23.28	39.22

- 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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1000 hPa	TESTED BY	Brad Wu	

		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	5460.00	58.7 PK	74.00	-15.3	1.00 H	251	19.30	39.38
2	5460.00	41.5 AV	54.00	-12.5	1.00 H	251	2.10	39.38
3	#5470.00	62.9 PK	68.30	-5.4	1.00 H	251	23.49	39.40
4	*5500.00	104.9 PK			1.00 H	251	65.48	39.45
5	*5500.00	93.7 AV			1.00 H	251	54.25	39.45
6	11000.00	58.5 PK	74.00	-15.5	1.00 H	166	8.74	49.79
7	11000.00	46.4 AV	54.00	-7.6	1.00 H	166	-3.41	49.79
		ANTENNA	A 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	5460.00	60.0 PK	74.00	-14.0	1.01 V	216	20.62	39.38
2	5460.00	43.8 AV	54.00	-10.2	1.01 V	216	4.38	39.38
3	#5470.00	64.1 PK	68.30	-4.2	1.01 V	216	24.68	39.40
4	*5500.00	105.6 PK			1.01 V	216	66.13	39.45
5	*5500.00	94.0 AV			1.01 V	216	54.55	39.45
6	11000.00	58.6 PK	74.00	-15.4	1.02 V	54	8.85	49.79
7	11000.00	46.4 AV	54.00	-7.6	1.02 V	54	-3.39	49.79

- 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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 120		FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1000 hPa	TESTED BY	Brad Wu	

	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	*5600.00	105.4 PK			1.00 H	255	65.75	39.62
2	*5600.00	94.6 AV			1.00 H	255	54.98	39.62
3	11200.00	60.7 PK	74.00	-13.3	1.20 H	215	10.63	50.08
4	11200.00	47.3 AV	54.00	-6.7	1.20 H	215	-2.76	50.08
		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	*5600.00	106.5 PK			1.00 V	216	66.84	39.62
2	*5600.00	95.2 AV			1.00 V	216	55.55	39.62
3	11200.00	60.9 PK	74.00	-13.2	1.01 V	99	10.77	50.08

- 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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 140		FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
	25deg. C, 66%RH 1000 hPa	TESTED BY	Brad Wu	

	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	*5700.00	101.1 PK			1.00 H	264	61.23	39.90	
2	*5700.00	90.7 AV			1.00 H	264	50.77	39.90	
3	#5725.00	62.0 PK	68.30	-6.3	1.00 H	264	22.12	39.92	
4	11400.00	60.4 PK	74.00	-13.6	1.05 H	319	10.04	50.33	
5	11400.00	46.2 AV	54.00	-7.8	1.05 H	319	-4.14	50.33	
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M		
NO.	FREQ. (MHz)	EMISSION	LIMIT			TABLE		CORRECTION	
	FREG. (MITZ)	LEVEL (dBuV/m)	(dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)	
1	*5700.00			MARGIN (dB)				FACTOR	
1 2	,	(dBuV/m)		MARGIN (dB)	HEIGHT (m)	(Degree)	(dBuV)	FACTOR (dB/m)	
1	*5700.00	(dBuV/m) 102.2 PK		-5.9	HEIGHT (m) 1.07 V	(Degree) 211	(dBuV) 62.34	FACTOR (dB/m) 39.90	
1 2	*5700.00 *5700.00	(dBuV/m) 102.2 PK 91.2 AV	(dBuV/m)		1.07 V 1.07 V	(Degree) 211 211	(dBuV) 62.34 51.32	FACTOR (dB/m) 39.90 39.90	

- 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. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.



BELOW 1GHz WORST-CASE DATA: 802.11a (Frequency: 5180-5320MHz)

(Aux. antenna was chosen for tested)

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 64		FREQUENCY RANGE	Below 1000MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak	
	25deg. C, 65%RH 999 hPa	TESTED BY	Mark Liao	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	228.22	31.4 QP	46.00	-14.6	1.00 H	163	19.53	11.85
2	329.32	29.3 QP	46.00	-16.7	1.00 H	160	14.95	14.36
3	440.14	27.6 QP	46.00	-18.4	1.00 H	220	10.17	17.39
4	556.80	26.8 QP	46.00	-19.3	1.00 H	127	5.83	20.92
5	718.18	35.5 QP	46.00	-10.6	1.00 H	244	12.28	23.17
6	795.95	34.6 QP	46.00	-11.4	1.00 H	106	9.38	25.21
		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	59.06	33.4 QP	40.00	-6.6	1.00 V	316	19.96	13.42
2	119.34	33.1 QP	43.50	-10.4	1.00 V	10	21.40	11.67
3	339.04	29.7 QP	46.00	-16.3	1.50 V	199	15.14	14.59
4	558.75	32.9 QP	46.00	-13.1	2.00 V	241	11.90	20.97
5	718.18	37.8 QP	46.00	-8.3	1.25 V	316	14.58	23.17

- 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.



(Frequency: 5500-5700MHz) (Aux. antenna was chosen for tested)

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 100		FREQUENCY RANGE	Below 1000MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak	
	25deg. C, 65%RH 999 hPa	TESTED BY	Mark Liao	

	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	57.12	33.2 QP	40.00	-6.8	2.00 H	217	19.76	13.48
2	127.11	31.9 QP	43.50	-11.6	1.50 H	250	19.87	12.03
3	440.14	31.5 QP	46.00	-14.5	2.00 H	238	14.08	17.39
4	558.75	30.4 QP	46.00	-15.6	1.25 H	292	9.46	20.97
5	718.18	37.0 QP	46.00	-9.0	2.00 H	283	13.81	23.17
6	879.55	33.0 QP	46.00	-13.0	1.25 H	169	7.05	25.91
		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	55.18	33.6 QP	40.00	-6.4	1.00 V	310	20.11	13.53
2	75.62	33.4 QP	40.00	-6.6	1.00 V	76	23.82	9.60
3	119.34	35.9 QP	43.50	-7.6	1.00 V	13	24.26	11.67
4	638.46	30.0 QP	46.00	-16.0	1.00 V	10	7.77	22.22
5	720.12	39.8 QP	46.00	-6.2	1.00 V	178	16.62	23.22
6	879.55	36.8 QP	46.00	-9.2	1.25 V	166	10.88	25.91

- 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 0.50MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Sep. 24, 2009	Sep. 23, 2010
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 31, 2008	Dec. 30, 2009
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Dec. 29, 2008	Dec. 28, 2009
LISN ROHDE & SCHWARZ	ESH3-Z5	100311	Jul. 29, 2009	Jul. 28, 2010
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

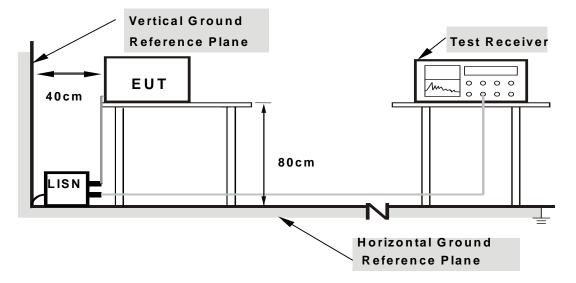
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

424	DEVIATION	FROM TEST	STANDARD
7.4.7			OIMIDAIN

No deviation



4.2.5 TEST SETUP



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

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

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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.



4.2.7 TEST RESULTS

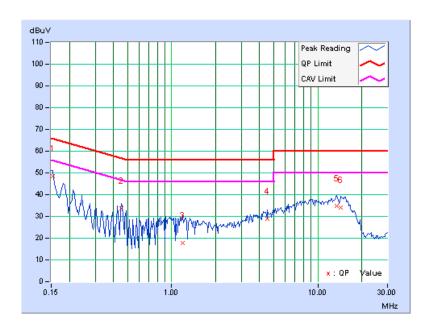
CONDUCTED WORST-CASE DATA: 802.11a (Frequency: 5180-5320MHz)

(Aux. antenna was chosen for tested)

PHASE	Line 1	6dB BANDWIDTH	9kHz
PHASE	Line i	OUD DANDWIDIN	9KHZ

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB ((uV)]	[dB	(uV)]	[dB	(uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.154	0.13	48.38	-	48.51	-	65.79	55.79	-17.28	_
2	0.455	0.14	33.68	-	33.82	-	56.79	46.79	-22.97	_
3	1.184	0.17	17.51	-	17.68	-	56.00	46.00	-38.32	-
4	4.531	0.29	28.68	-	28.97	-	56.00	46.00	-27.03	_
5	13.512	0.52	34.31	-	34.83	-	60.00	50.00	-25.17	_
6	14.332	0.54	33.56	-	34.10	-	60.00	50.00	-25.90	-

- 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.

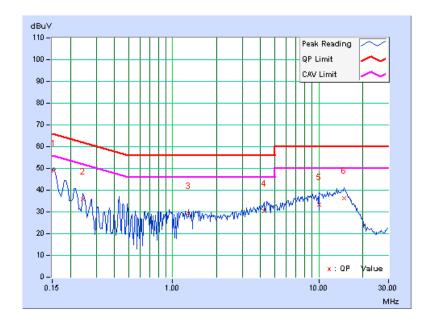




PHASE	Line 2	6dB BANDWIDTH	9kHz
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	Freq.	Corr.	Readin	Reading Value Emission Level			Limit		Margin	
No		Factor	[dB ([dB (uV)]		(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.154	0.13	48.76	-	48.89	-	65.79	55.79	-16.90	-
2	0.244	0.13	35.81	-	35.94	-	61.97	51.97	-26.02	-
3	1.289	0.18	28.94	-	29.12	-	56.00	46.00	-26.88	-
4	4.215	0.31	30.02	-	30.33	-	56.00	46.00	-25.67	-
5	10.035	0.50	32.91	-	33.41	-	60.00	50.00	-26.59	-
6	14.883	0.66	35.51	-	36.17	-	60.00	50.00	-23.83	-

- 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.



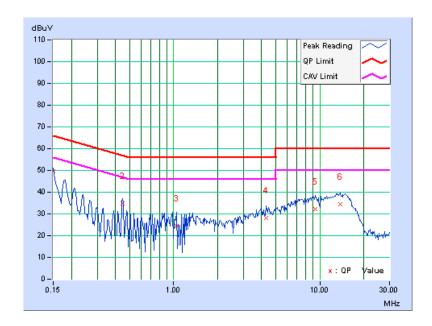


(Frequency: 5500-5700MHz) (Aux. antenna was chosen for tested)

PHASE Line 1	6dB BANDWIDTH	9kHz
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	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
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	0.13	49.54	-	49.67	-	66.00	56.00	-16.33	-
2	0.447	0.14	34.76	-	34.90	-	56.93	46.93	-22.03	-
3	1.047	0.17	24.34	-	24.51	-	56.00	46.00	-31.49	-
4	4.281	0.29	27.96	-	28.25	-	56.00	46.00	-27.75	-
5	9.363	0.41	31.88	-	32.29	-	60.00	50.00	-27.71	-
6	13.738	0.52	34.07	-	34.59	-	60.00	50.00	-25.41	-

- 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.

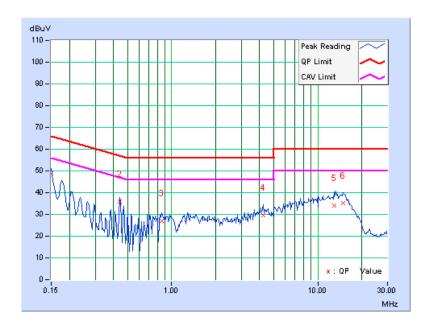




PHASE	Line 2	6dB BANDWIDTH	9kHz
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	Freq.	Corr.	Reading Value		lue Emission Level		Limit		Margin	
No		Factor	[dB ([dB (uV)] [dB (uV)]		(uV)]	[dB	(uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.13	48.90	-	49.03	-	66.00	56.00	-16.97	-
2	0.443	0.15	35.66	-	35.81	-	57.01	47.01	-21.19	-
3	0.857	0.17	26.78	-	26.95	-	56.00	46.00	-29.05	_
4	4.250	0.31	29.18	-	29.49	-	56.00	46.00	-26.51	-
5	12.980	0.60	33.29	-	33.89	-	60.00	50.00	-26.11	-
6	14.902	0.66	34.45	-	35.11	-	60.00	50.00	-24.89	-

- 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 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

4.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

FREQUENCY BAND	LIMIT
5.150 ~ 5.250GHz	The lesser of 50mW (17dBm) or 4dBm + 10logB
5.250 ~ 5.350GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB
5.470 ~ 5.725GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB

NOTE: Where B is the 26dB emission bandwidth in MHz.

4.3.2 TEST INSTRUMENTS

FOR POWER OUTPUT MEASUREMENT

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	CALIBRATED UNTIL	
High Speed Peak Power Meter	ML2495A	0824012	Aug. 10, 2009	Aug. 09, 2010	
Power Sensor MA2411B		0738138	Aug. 10, 2009	Aug. 09, 2010	

Note:

FOR 26dB OCCUPIED BANDWIDTH

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
R&S SPECTRUM ANALYZER	FSP40	100040	Jul. 07, 2009	Jul. 06, 2010

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

^{1.} The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

^{2.} Measurement Bandwidth of ML2495A is 65MHz greater than 26dB bandwidth of emission.



4.3.3 TEST PROCEDURES

FOR POWER OUTPUT MEASUREMENT

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

FOR 26dB OCCUPIED BANDWIDTH

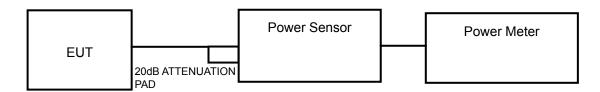
The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 300kHz RBW and 1MHz VBW. The 26dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 26dB.

4.3.4 DEVIATION FROM TEST STANDARD

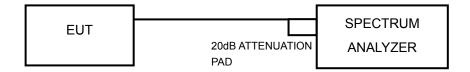
No deviation

4.3.5 TEST SETUP

FOR POWER OUTPUT MEASUREMENT



FOR 26dB OCCUPIED BANDWIDTH



4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



4.3.7 TEST RESULTS

POWER OUTPUT: 802.11a (Aux. antenna was chosen for tested)

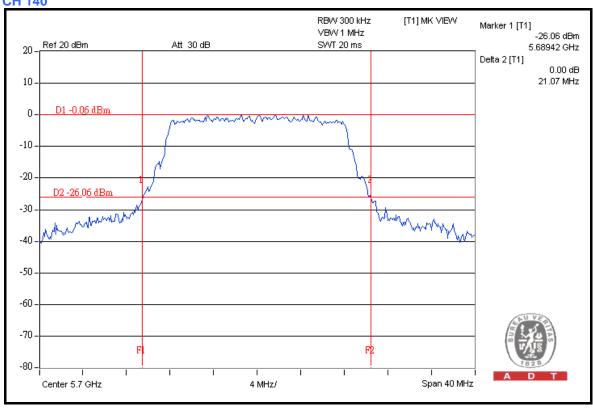
CHANNEL	CHANNEL FREQUENCY (MHz)	OUTPUT POWER (mW)	OUTPUT POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
36	5180	10.2	10.1	17	PASS
40	5200	10.5	10.2	17	PASS
48	5240	10.2	10.1	17	PASS
52	5260	10.5	10.2	24	PASS
60	5300	11.5	10.6	24	PASS
64	5320	13.2	11.2	24	PASS
100	5500	16.2	12.1	24	PASS
120	5600	13.2	11.2	24	PASS
140	5700	8.3	9.2	24	PASS



26dB OCCUPIED BANDWIDTH: 802.11a (Aux. antenna was chosen for tested)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)	PASS / FAIL
36	5180	20.86	PASS
40	5200	20.91	PASS
48	5240	20.92	PASS
52	5260	20.89	PASS
60	5300	20.82	PASS
64	5320	20.98	PASS
100	5500	20.95	PASS
120	5600	20.97	PASS
140	5700	21.07	PASS

CH 140





4.4 PEAK POWER EXCURSION MEASUREMENT

4.4.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

FREQUENCY BAND	LIMIT
5.150 ~ 5.250GHz	13dB
5.250 ~ 5.350GHz	13dB
5.470 ~ 5.725GHz	13dB

4.4.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100040	Jul. 07, 2009	Jul. 06, 2010

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 PROCEDURE

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set the spectrum bandwidth span to view the entire spectrum.
- c. Using peak detector and Max-hold function for Trace 1 (RB = 1MHz, VB = 3MHz) and 2 (RB = 1MHz, VB = 300 kHz).
- d. The differences between Trace1 and Trace 2 in any 1MHz band at f1 to f2 range were recorded and showed to another trace.



4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



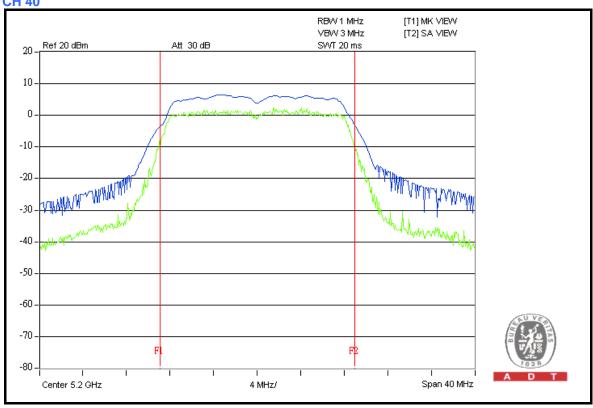
4.4.7 TEST RESULTS

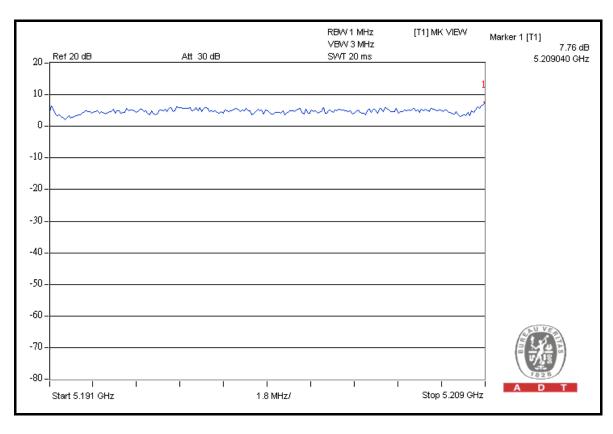
802.11a (Aux. antenna was chosen for tested)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)	PEAK TO AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
36	5180	6.40	13	PASS
40	5200	7.76	13	PASS
48	5240	7.23	13	PASS
52	5260	6.80	13	PASS
60	5300	7.45	13	PASS
64	5320	6.61	13	PASS
100	5500	6.96	13	PASS
120	5600	6.33	13	PASS
140	5700	7.31	13	PASS









41



4.5 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

FREQUENCY BAND	LIMIT
5.150 ~ 5.250GHz	4dBm
5.250 ~ 5.350GHz	11dBm
5.470 ~ 5.725GHz	11dBm

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100040	Jul. 07, 2009	Jul. 06, 2010

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 PROCEDURES

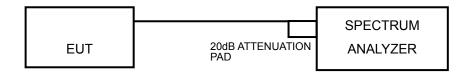
- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW = 1MHz, VBW = 3MHz. The PPSD is the highest level found across the emission in any 1MHz band.



4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

Same as 4.3.6

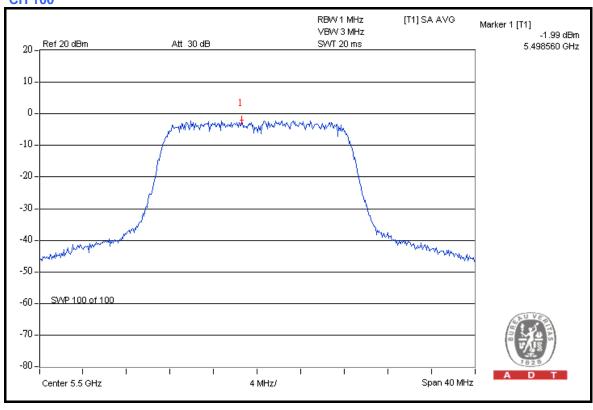


4.5.7 TEST RESULTS

802.11a (Aux. antenna was chosen for tested)

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
36	5180	-3.7	4	PASS
40	5200	-3.7	4	PASS
48	5240	-3.7	4	PASS
52	5260	-3.7	11	PASS
60	5300	-3.0	11	PASS
64	5320	-2.6	11	PASS
100	5500	-2.0	11	PASS
120	5600	-2.9	11	PASS
140	5700	-5.0	11	PASS

CH 100





4.6 FREQUENCY STABILITY

4.6.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency tolerance of the carrier signal shall be maintained within the band of operation frequency over a temperature variation of –30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100040	Jul. 07, 2009	Jul. 06, 2010
WIT STANDARD TEMPERATURE AND HUMIDITY CHAMBER	TH-4S-C	W981030	Jun. 24, 2009	Jun. 23, 2010

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 PROCEDURE

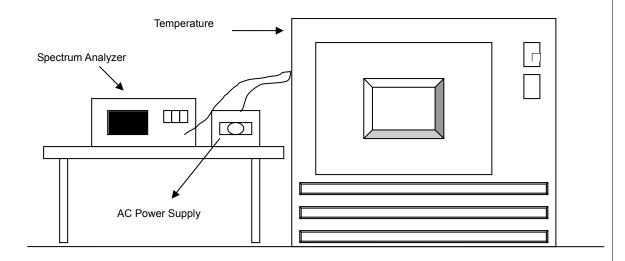
- a. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- b. Turn the EUT on and couple its output to a spectrum analyzer.
- c. Turn the EUT off and set the chamber to the highest temperature specified.
- d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.



4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 TEST SETUP



4.6.6 EUT OPERATING CONDITION

Same as Item 4.1.7



4.6.7 TEST RESULTS

	FREQUEMCY STABILITY VERSUS TEMP.								
			OF	ERATING F	REQUENCY:	: 5320MHz			
		0 MIN	NUTE	2 MIN	NUTE	5 MIN	NUTE	10 MI	NUTE
TEMP. (℃)	POWER SUPPLY (Vdc)	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift
		(MHz)	ppm	(MHz)	ppm	(MHz)	ppm	(MHz)	ppm
55	3.7	5319.997012	-0.562	5319.996975	-0.569	5319.996740	-0.613	5319.996955	-0.572
50	3.7	5319.996704	-0.620	5319.997127	-0.540	5319.996698	-0.621	5319.996946	-0.574
40	3.7	5319.996640	-0.632	5319.996935	-0.576	5319.997013	-0.561	5319.996986	-0.567
30	3.7	5319.996708	-0.619	5319.996718	-0.617	5319.996966	-0.570	5319.997193	-0.528
20	3.7	5319.996146	-0.724	5319.996129	-0.728	5319.996745	-0.612	5319.996257	-0.704
10	3.7	5319.996890	-0.585	5319.997147	-0.536	5319.996696	-0.621	5319.997031	-0.558
0	3.7	5319.996614	-0.636	5319.996883	-0.586	5319.996302	-0.695	5319.996951	-0.573
-10	3.7	5319.996978	-0.568	5319.997165	-0.533	5319.997094	-0.546	5319.997167	-0.533
-20	3.7	5319.997085	-0.548	5319.997118	-0.542	5319.997241	-0.519	5319.997343	-0.499
-30	3.7	5319.997012	-0.562	5319.996975	-0.569	5319.996740	-0.613	5319.996955	-0.572

	FREQUEMCY STABILITY VERSUS VOLTAGE								
	OPERATING FREQUENCY: 5320MHz								
		0 MIN	NUTE	2 MIN	NUTE	5 MIN	NUTE	10 MI	NUTE
TEMP. (℃)	POWER SUPPLY (Vac)	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift
		(MHz)	ppm	(MHz)	ppm	(MHz)	ppm	(MHz)	ppm
	3.2	5319.996708	-0.619	5319.997026	-0.559	5319.997053	-0.554	5319.997244	-0.518
20	3.7	5319.996708	-0.619	5319.996718	-0.617	5319.996966	-0.570	5319.997193	-0.528
	4.255	5319.996558	-0.647	5319.996394	-0.678	5319.996830	-0.596	5319.996722	-0.616



4.7 BAND EDGES MEASUREMENT

4.7.1 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100040	Jul. 07, 2009	Jul. 06, 2010

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

4.7.2 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 1MHz and 3MHz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

4.7.3 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

4.7.4 TEST RESULTS

For signals in the restricted bands above and below the 5.18 to 5.32GHz and 5.50 to 5.70GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak filed strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW = 1MHz, VBW = 3MHz) are attached on the following pages.



FOR 5180-5320MHz BAND: 802.11a (Aux. antenna was chosen for tested)

RESTRICT BAND (4500 ~ 5150 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5180.00 (PK)	103.9	41.24	62.66	74.00
5180.00 (AV)	92.6	50.62	41.98	54.00

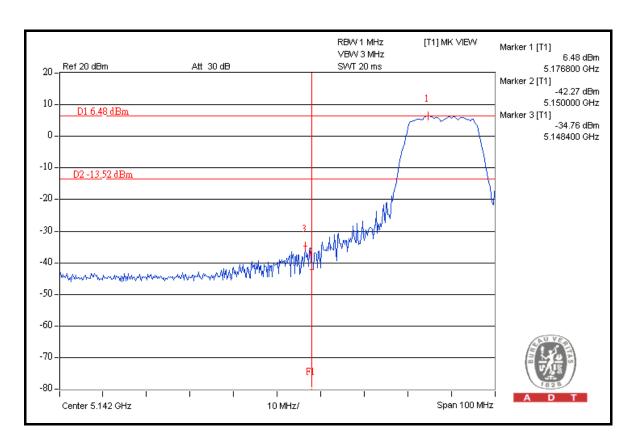
RESTRICT BAND (5350 ~ 5460 MHz)

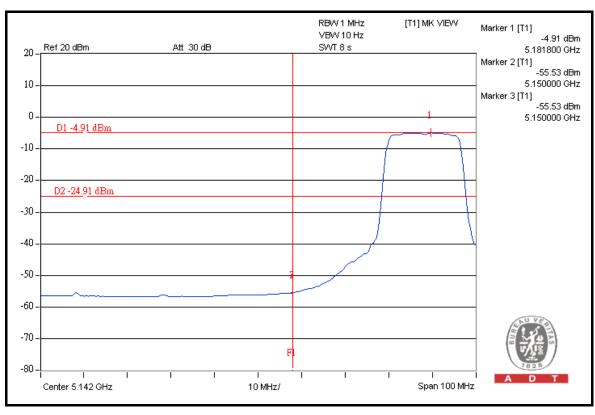
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5320.00 (PK)	106.3	40.47	65.83	74.00
5320.00 (AV)	95.0	50.33	44.67	54.00

NOTE:

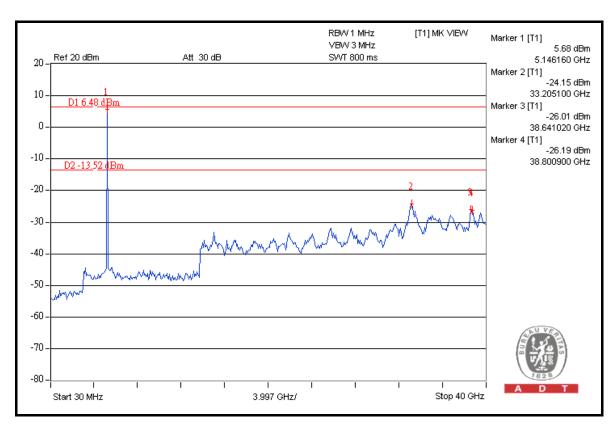
- 1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
- 2. Maximum field strength in restrict band = Fundamental emission Delta.

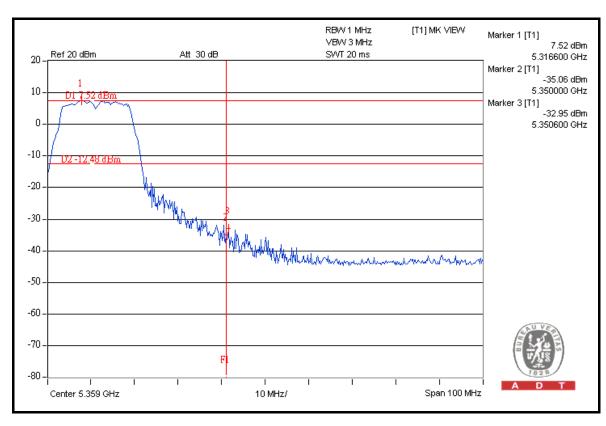




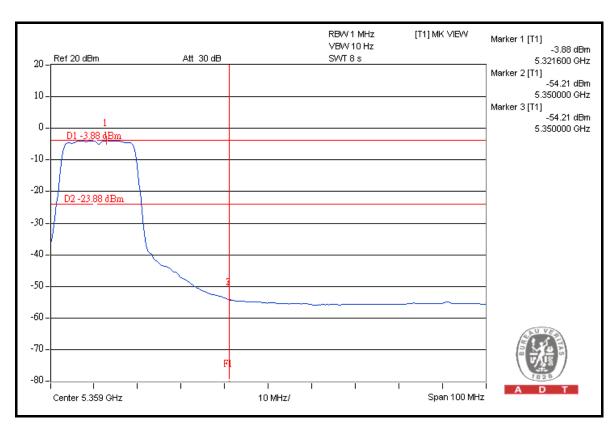


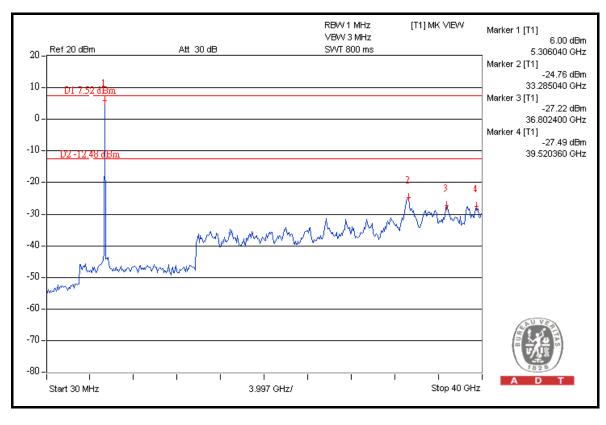














FOR 5500-5700MHz BAND: 802.11a (Aux. antenna was chosen for tested) 5500MHz

RESTRICT BAND (5350 ~ 5460 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	105.6	46.32	59.28	74.00
5500.00 (AV)	94.0	51.67	42.33	54.00

FREQUENCY BAND (5460 ~ 5470 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	105.6	41.05	64.55	68.30

5700MHz

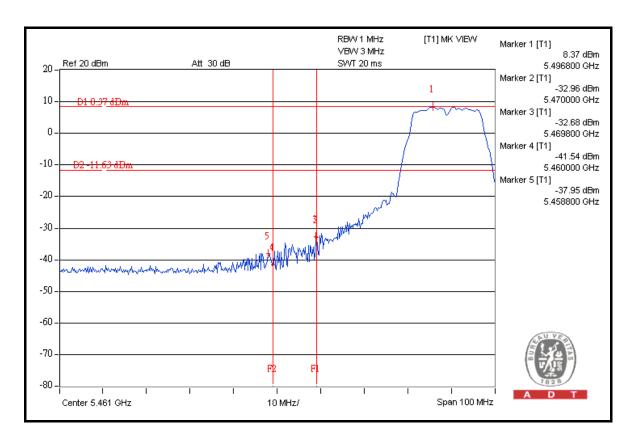
ABOVE 5725 MHz

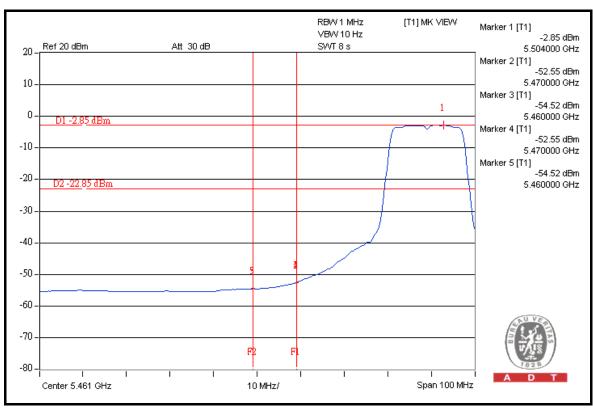
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5700.00 (PK)	102.2	37.90	64.3	68.30

NOTE:

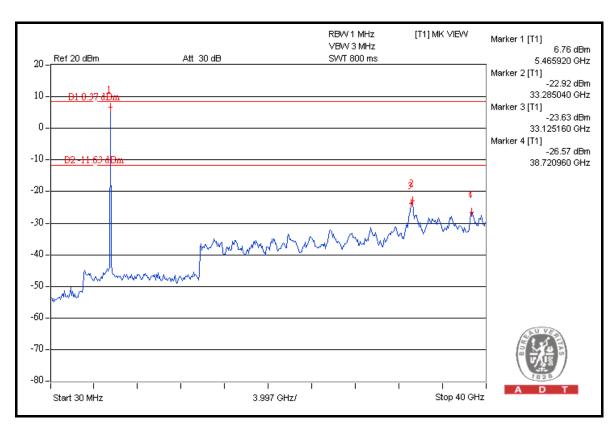
- 1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
- 2. Maximum field strength in restrict band = Fundamental emission Delta.

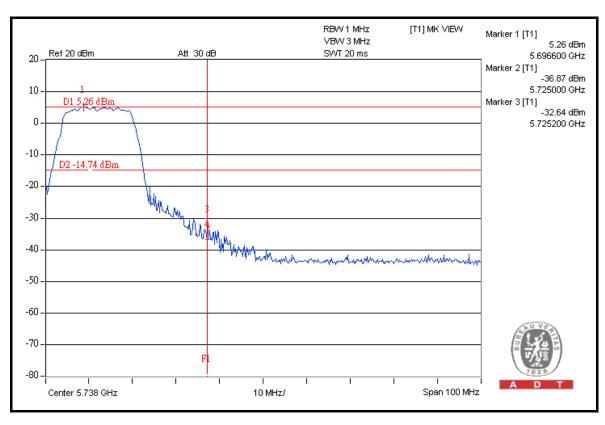




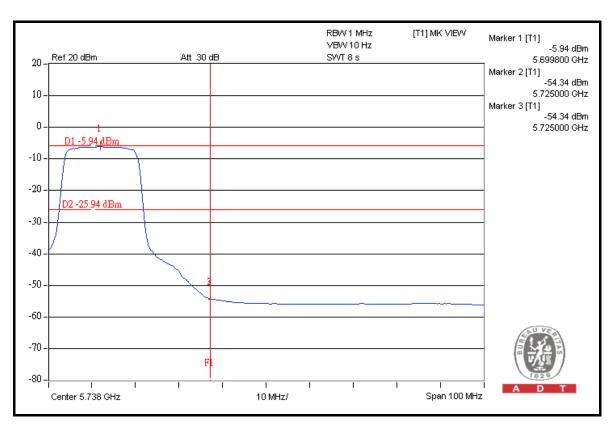


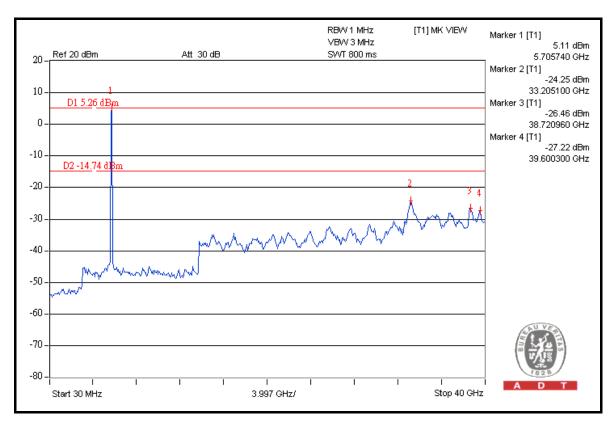














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5. PHOTOGRAPHS OF THE TEST CONFIGURATION	
Please refer to the attached file (Test Setup Photo).	



6. INFORMATION ON THE TESTING LABORATORIES

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

USA FCC, NVLAP

Germany TUV Rheinland

Japan VCCI

Norway NEMKO

Canada INDUSTRY CANADA, CSA

R.O.C. TAF, BSMI, NCC

Netherlands Telefication

Singapore GOST-ASIA(MOU)

Russia CERTIS(MOU)

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

Linko EMC/RF Lab: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

Web Site: www.adt.com.tw

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



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

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

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