

4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 23, 2006
Agilent SIGNAL GENERATOR	E8257C	MY43320668	Dec. 07, 2006
TEKTRONIX OSCILLOSCOPE	TDS380	B016335	July. 04, 2007
NARDA DETECTOR	4503A	FSCM99899	NA

NOTE:

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



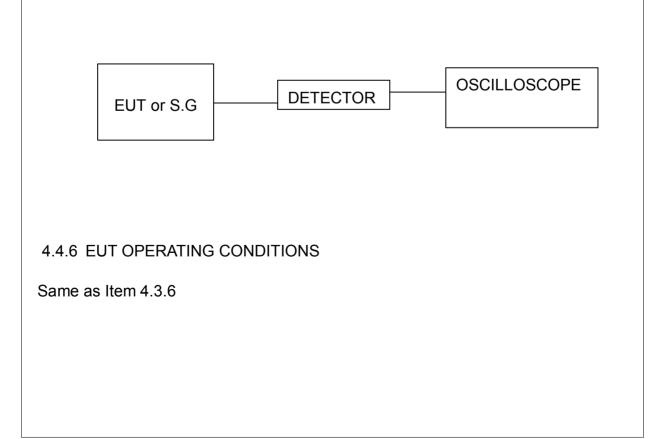
4.4.3 TEST PROCEDURES

- 1. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
- 2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
- 3. Adjusted the power to have the same reading on oscilloscope. Record the power level.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP





4.4.7 TEST RESULTS (ANTENNA 1)

802.11b DSSS modulation

MODULATION TYPE	ССК	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz		22deg. C, 64%RH, 973hPa
TESTED BY	Wen Yu		

Antenna (Gain : 2 dBi)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	69.183	18.40	30	PASS
6	2437	40.738	16.10	30	PASS
11	2462	50.119	17.00	30	PASS



802.11g OFDM modulation

MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	22deg. C, 64%RH, 973hPa
TESTED BY	Wen Yu		

Antenna (Gain : 2.0 dBi)

CHANNEL	CHANNEL FREQUENCY (MHz)		PEAK POWER OUTPUT (dBm)		PASS/FAIL
1	2412	74.131	18.70	30	PASS
6	2437	109.648	20.40	30	PASS
11	2462	61.660	17.90	30	PASS

802.11g Turbo OFDM modulation

INPUT POWER	120Vac, 60 Hz	ENVIRONMENTAL	22deg. C, 64%RH,
(SYSTEM)		CONDITIONS	973hPa
TESTED BY	Wen Yu		

Antenna (Gain : 2.0 dBi)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	-	PASS/FAIL
6	2437	87.096	19.40	30	PASS



4.4.8 TEST RESULTS (ANTENNA 2)

802.11b DSSS modulation

MODULATION TYPE	ССК	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	22deg. C, 64%RH, 973hPa
TESTED BY	Wen Yu		

Antenna (Gain : 4.5 dBi)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	69.183	18.40	30	PASS
6	2437	40.738	16.10	30	PASS
11	2462	50.119	17.00	30	PASS



802.11g OFDM modulation

MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	22deg. C, 64%RH, 973hPa
TESTED BY	Wen Yu		

Antenna (Gain : 4.5 dBi)

CHANNEL	CHANNEL FREQUENCY (MHz)		PEAK POWER OUTPUT (dBm)		PASS/FAIL
1	2412	74.131	18.70	30	PASS
6	2437	109.648	20.40	30	PASS
11	2462	61.660	17.90	30	PASS

802.11g Turbo OFDM modulation

INPUT POWER	120Vac, 60 Hz	ENVIRONMENTAL	22deg. C, 64%RH,
(SYSTEM)		CONDITIONS	973hPa
TESTED BY	Wen Yu		

Antenna (Gain : 4.5 dBi)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	-	PASS/FAIL
6	2437	87.096	19.40	30	PASS



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 23, 2006

NOTE:

1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2. 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

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6

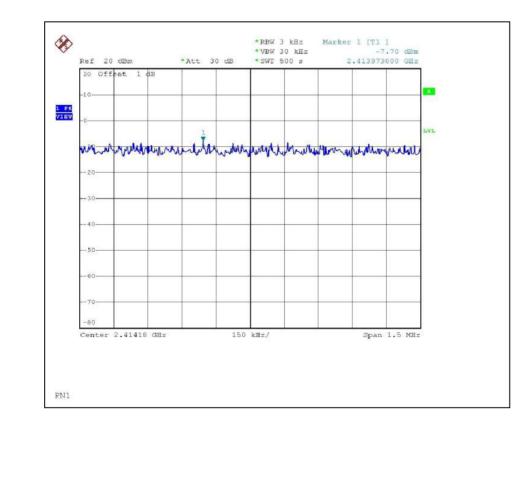


4.5.7 TEST RESULTS

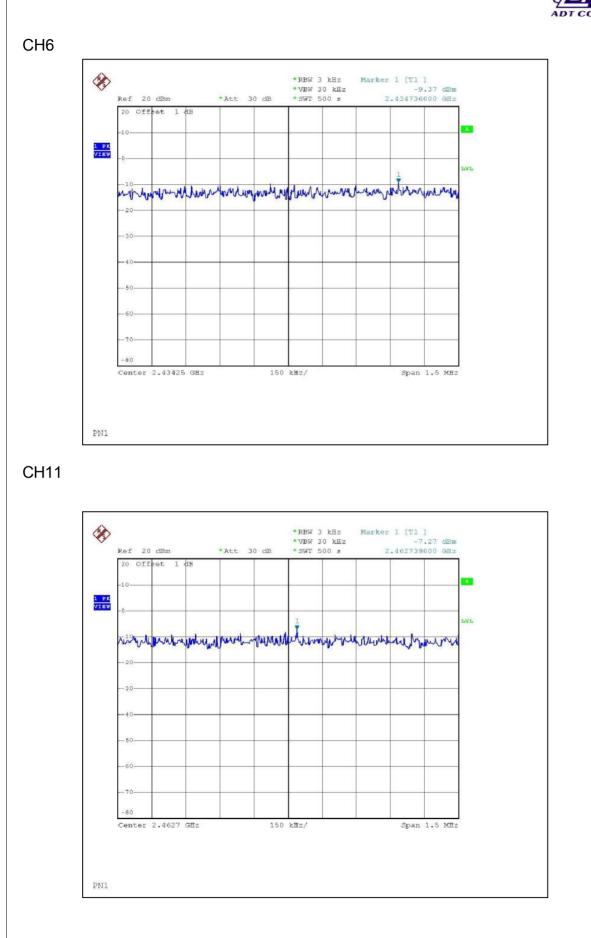
802.11b DSSS modulation

MODULATION TYPE	сск	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	22deg. C, 64%RH, 973hPa
TESTED BY	Sky Liao		

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-7.70	8	PASS
6	2437	-9.37	8	PASS
11	2462	-7.27	8	PASS





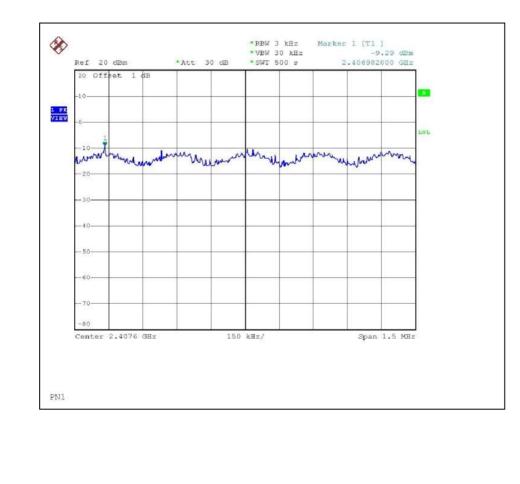




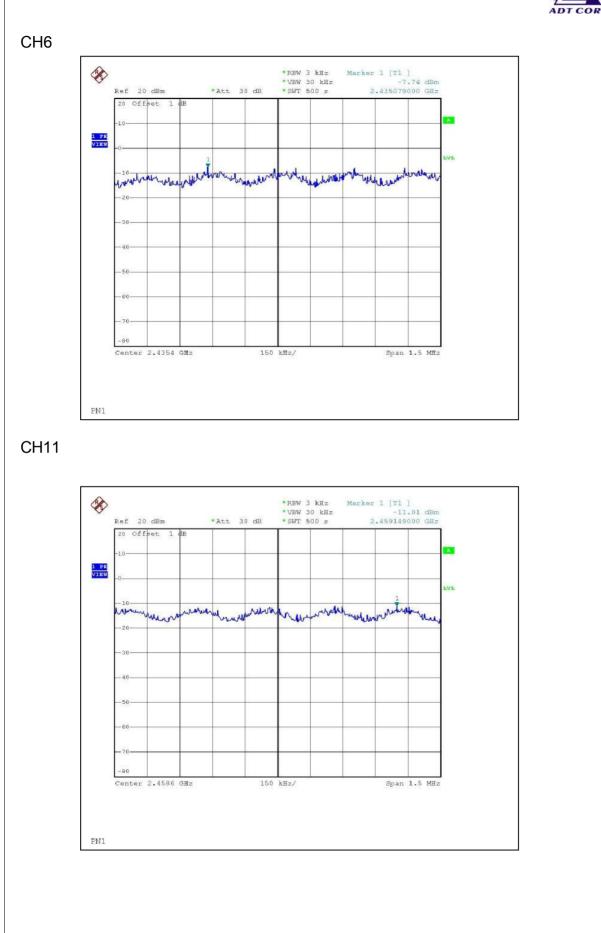
802.11g OFDM modulation

MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	22deg. C, 64%RH, 973hPa
TESTED BY	Sky Liao		

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-9.29	8	PASS
6	2437	-7.74	8	PASS
11	2462	-11.01	8	PASS





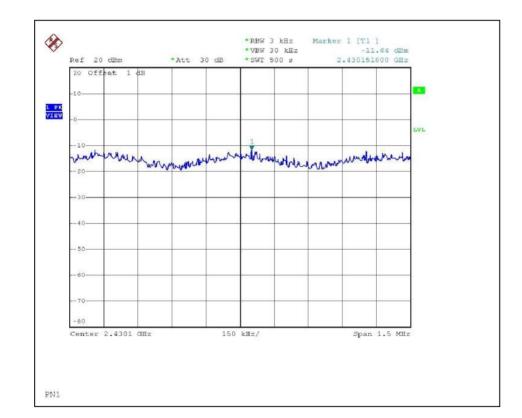




802.11g Turbo OFDM modulation

INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL	22 deg. C, 64%RH,
		CONDITIONS	973 hPa
TESTED BY	Sky Liao		

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
6	2437	-11.64	8	PASS





4.6 CONDUCTED EMISSION AND BAND EDGES MEASUREMENT

4.6.1 LIMITS OF CONDTCTED EMISSION AND BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 23, 2006

NOTE:

1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2. 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

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

The spectrum plots (RBW = VBW = 100kHz) are attached on the following pages.

4.6.4 EUT OPERATING CONDITION

Same as Item 4.3.5



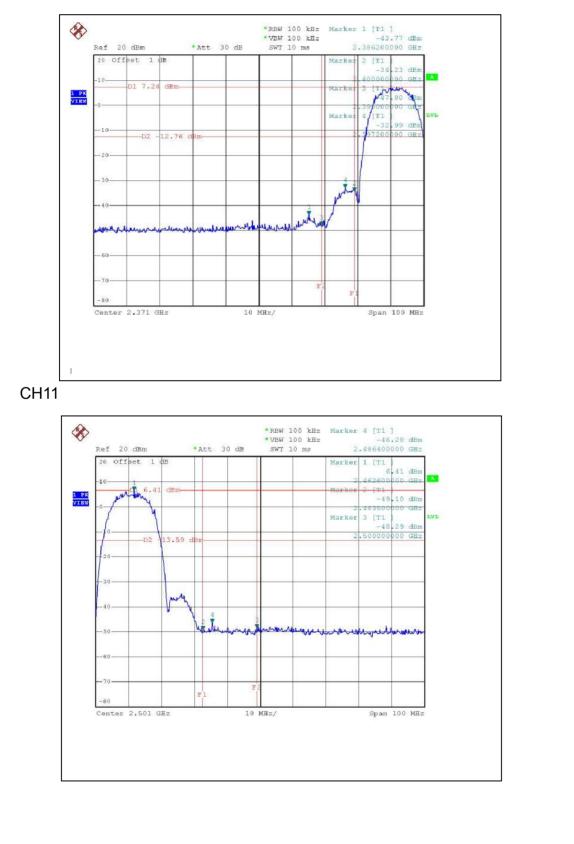
4.6.5 TEST RESULTS

The spectrum plots are attached on the following 8 images. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).

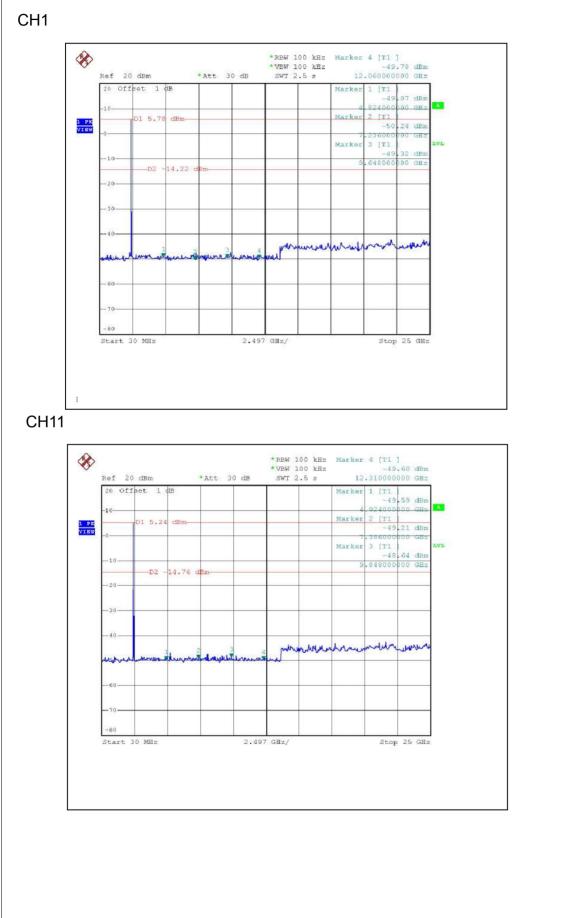


802.11b DSSS MODULATION:



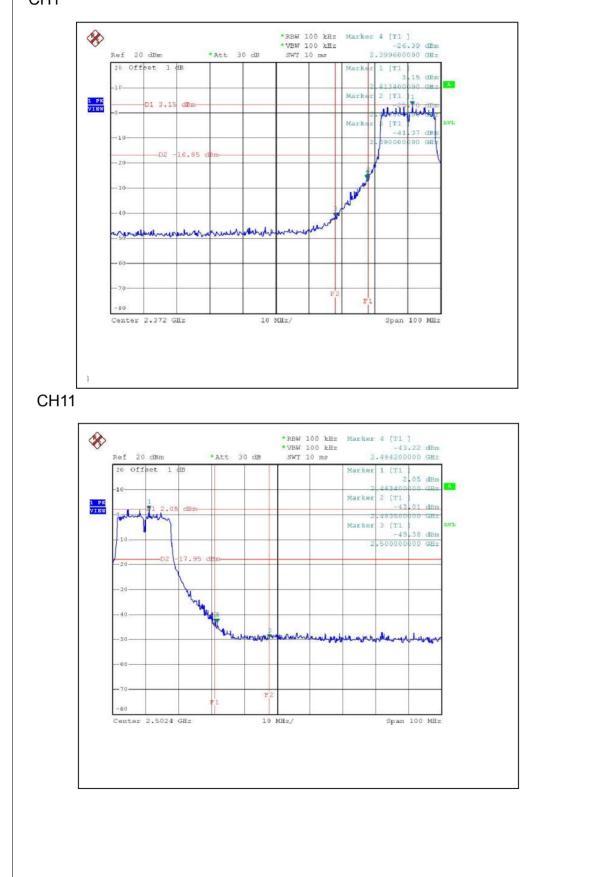




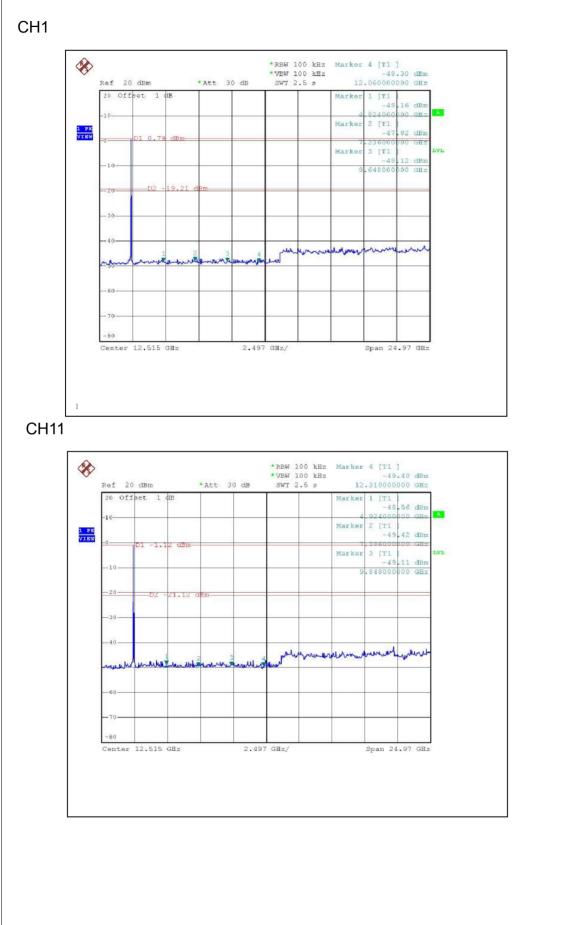




802.11g OFDM MODULATION: CH1

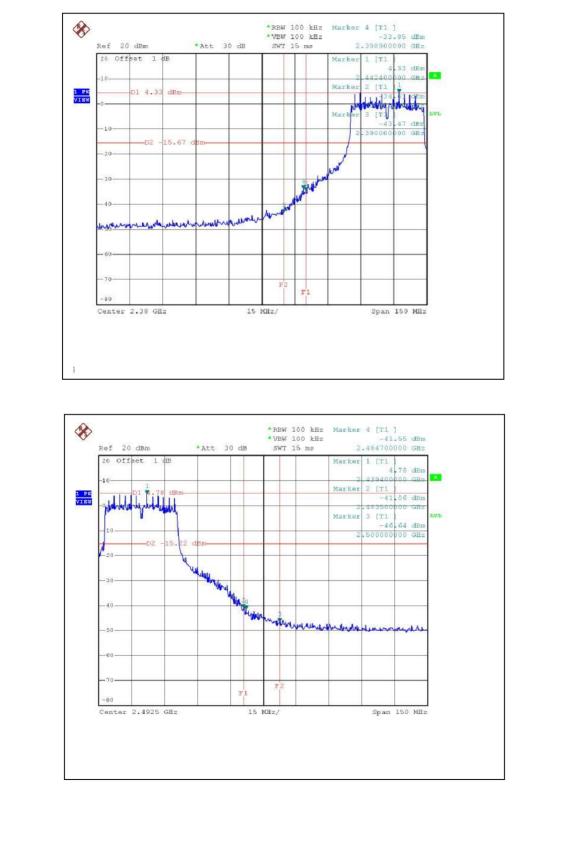




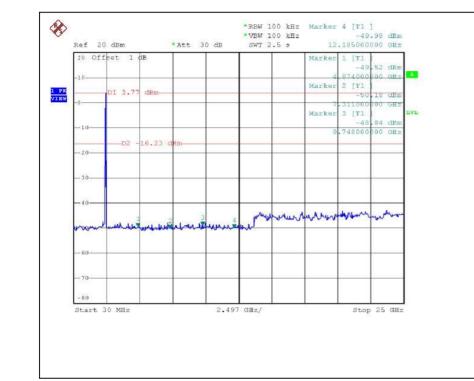




802.11g Turbo MODE OFDM MODULATION:









4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antennas used in this product are as below:

No.	Model No.	Gain (dBi)	Antenna Type	Connector
1	WSS001	2	Dipole	RP-SMA(M)
2	WPB002-3	4.5	PCB	MHF



5. TEST TYPES AND RESULTS (802.11a, 5725~5850MHz Band)

5.1 CONDUCTED EMISSION MEASUREMENT

5.1.1 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.

5.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver	ESCS 30	847124/029	Dec. 15, 2006
Line-Impedance Stabilization Network(for EUT)	ENV-216	100071	Nov. 10, 2006
Line-Impedance Stabilization Network(for Peripheral)	KNW-407	8/1395/12	Jul. 19, 2006
RF Cable (JETBAO)	RG233/U	Cable_CB_01	Dec. 09, 2006
Terminator	50	2	Oct. 08, 2006
Software	ADT_Cond_V7.3.2	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.

4. The test was performed in ADT Shielded Room No. B.

5. The VCCI Con B Registration No. is C-2193.



5.1.3 TEST PROCEDURES

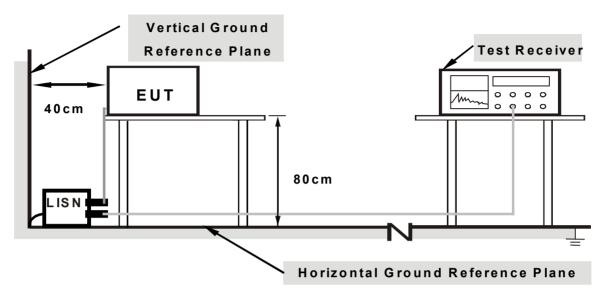
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs
- b. provide 50 ohm/ 50uH of coupling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

5.1.4 DEVIATION FROM TEST STANDARD

No deviation



5.1.5 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 related item – Photographs of the Test Configuration.

5.1.6 EUT OPERATING CONDITIONS

- a. Plug the EUT into test board and placed on the testing table.
- b. The support unit 1 (Notebook computer) ran a test program "ART52 build58" to enable EUT under transmission condition continuously at specific channel frequency.



5.1.7 TEST RESULTS

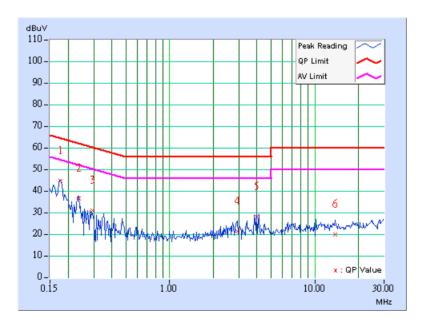
Conducted Worst-Case Data

MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz					
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TRANSFER RATE	6Mbps					
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 955hPa	PHASE	Line (L)					
TESTED BY	Eric Lee							

	Freq.	Corr.	Rea Va	ding lue		Level		Limit		gin
No		Factor	[dB	[dB (uV)]		[dB (uV)] [dB (uV)		[dB (uV)]		B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	9.60	34.87	-	44.47	-	64.61	54.61	-20.14	-
2	0.236	9.60	26.47	-	36.07	-	62.24	52.24	-26.17	-
3	0.294	9.60	21.08	-	30.68	-	60.41	50.41	-29.73	-
4	2.935	9.70	11.41	-	21.11	-	56.00	46.00	-34.89	-
5	3.996	9.70	18.23	-	27.93	-	56.00	46.00	-28.07	-
6	13.867	10.05	10.03	-	20.08	-	60.00	50.00	-39.92	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

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



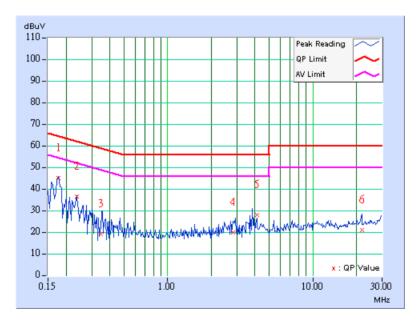


MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TRANSFER RATE	6Mbps
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 955hPa	PHASE	Neutral (N)
TESTED BY	Eric Lee		

	Freq.	Corr.	Rea Va	ding lue		Emission Level		Limit		gin
No		Factor	[dB([dB (uV)] [dB (uV)] [dB (uV)]		[dB (uV)] [dB (uV)] (d		[dB (uV)]		B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	9.60	34.93	-	44.53	-	64.61	54.61	-20.08	-
2	0.236	9.60	26.51	-	36.11	-	62.24	52.24	-26.13	-
3	0.345	9.60	9.30	-	18.90	-	59.07	49.07	-40.17	-
4	2.818	9.70	9.92	-	19.62	-	56.00	46.00	-36.38	-
5	4.113	9.70	17.96	-	27.66	-	56.00	46.00	-28.34	-
6	21.711	10.10	10.97	-	21.07	-	60.00	50.00	-38.93	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

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





5.2 RADIATED EMISSION MEASUREMENT

5.2.1 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.



5.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ADVANTEST Spectrum Analyzer	R3271A	85060311	July 07, 2007
HP Pre_Amplifier	8449B	3008A01922	Oct. 02, 2006
ROHDE & SCHWARZ Test Receiver	ESCS30	100375	Sep. 19, 2006
CHASE Broadband Antenna	VULB9168	138	Dec. 11, 2006
Schwarzbeck Horn_Antenna	BBHA9120	D124	Dec. 27, 2006
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170153	Jan. 05, 2007
SCHWARZBECK Biconical Antenna	VHBA9123	459	Jun. 08, 2009
SCHWARZBECK Periodic Antenna	UPA6108	1148	Jun. 08, 2009
RF Switches (ARNITSU)	CS-201	1565157	NA
RF CABLE (Chaintek)	SF102	22054-2	Nov. 16. 2006
RF Cable(RICHTEC)	9913-30M N-N Cable	STCCAB-30M- 1GHz	Jul. 16, 2006
Software	ADT_Radiated_V 5.14	NA	NA
CHANCE MOST Antenna Tower	AT-100	0203	NA
CHANCE MOST Turn Table	TT-100	0203	NA

Note: 1. The calibration interval of the above test instruments is 12 months (36 months for Biconical and Periodic Antenna)and the calibrations are traceable to NML/ROC and NIST/USA.

2. The horn antenna, HP preamplifier (model: 8449B) and Spectrum Analyzer (model: R3271A) are used only for the measurement of emission frequency above 1GHz if tested.

- 3. The test was performed in ADT Open Site No. C.
- The FCC Site Registration No. is 656396.
 The VCCI Site Registration No. is R-1626.
- 6. The CANADA Site Registration No. is IC 4824A-3.

7. The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Radiated emissions (30MHz-1GHz)	2.98 dB
Radiated emissions (1GHz ~18GHz)	2.21 dB
Radiated emissions (18GHz ~40GHz)	1.88 dB



5.2.3 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 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:

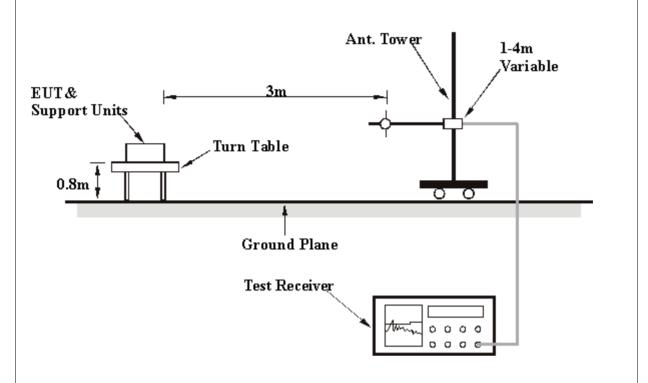
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

5.2.4 DEVIATION FROM TEST STANDARD

No deviation



5.2.5 TEST SETUP



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

5.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6



5.2.7 TEST RESULTS - ANTENNA 1

Below 1GHz Worst-Case Data

MODULATION TYPE	BPSK	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TRANSFER RATE	6Mbps
ENVIRONMENTAL CONDITIONS	27deg. C, 53%RH, 955hPa	DETECTOR FUNCTION	Quasi-Peak
TESTED BY	Wen Yu		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
No.	Freq.	Emission Level	Limit	Margin	Antenna Height	Table Angle	Raw Value	Correction Factor		
140.	(MHz)	(dBuV/m)	(dBuV/m) (dB)	(m)	(Degree)	(dBuV)	(dB/m)			
1	134.19	41.50 QP	43.50	-2.00	1.20 H	218	28.50	13.00		
2	167.82	40.50 QP	43.50	-3.00	1.00 H	36	26.80	13.70		
3	201.15	42.40 QP	43.50	-1.10	1.00 H	22	30.70	11.70		
4	234.48	43.80 QP	46.00	-2.20	1.00 H	12	30.70	13.10		
5	268.01	44.00 QP	46.00	-2.00	1.00 H	157	28.90	15.10		
6	301.51	44.30 QP	46.00	-1.70	1.10 H	59	27.50	16.80		
7	334.67	44.50 QP	46.00	-1.50	1.10 H	120	27.30	17.20		
8	401.33	38.00 QP	46.00	-8.00	1.15 H	136	18.90	19.10		
9	469.34	38.90 QP	46.00	-7.10	1.15 H	229	17.90	21.00		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
	Freg.	Emission	Limit	Margin	Antenna	Table	Raw	Correction		
No.	(MHz)	Level	-	0	Height	Angle	Value	Factor		
	(10112)	(dBuV/m)	(dBuV/m) (dB)	(m)	(Degree)	(dBuV)	(dB/m)			
1	133.86	39.20 QP	43.50	-4.30	1.26 V	195	26.30	12.90		
2	167.19	37.70 QP	43.50	-5.80	1.38 V	204	24.00	13.70		
3	200.52	38.20 QP	43.50	-5.30	1.23 V	246	26.60	11.60		
4	234.45	37.10 QP	46.00	-8.90	1.17 V	41	24.00	13.10		
5	335.09	34.40 QP	46.00	-11.60	1.00 V	192	17.20	17.20		
6	401.68	32.60 QP	46.00	-13.40	1.38 V	47	13.60	19.10		
7	469.04	37.30 QP	46.00	-8.70	1.29 V	232	16.30	21.00		
8	500.02	36.20 QP	46.00	-9.80	1.12 V	61	14.50	21.80		

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)

- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value



802.11a OFDM modulation

CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 40 GHz				
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps				
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)				
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 955hPa	TESTED BY	Wen Yu				

	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	#3830.00	48.30 PK	74.00	-25.70	1.14 H	324	15.60	32.80		
1	#3830.00	42.80 AV	54.00	-11.20	1.14 H	324	10.10	32.80		
2	*5745.00	102.40 PK			1.16 H	307	65.90	36.50		
2	*5745.00	92.40 AV			1.16 H	307	55.90	36.50		
3	#11490.00	63.00 PK	74.00	-11.00	1.47 H	0	11.50	51.50		
3	#11490.00	49.40 AV	54.00	-4.60	1.47 H	0	-2.10	51.50		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
No.	Freq. (MHz)	Emission Level	Limit (dBuV/m)	Margin (dB)	Antenna Height	Table Angle	Raw Value	Correction Factor			
	. ,	(dBuV/m)	` '	()	(m)	(Degree)	(dBuV)	(dB/m)			
1	#3830.00 #3830.00	47.80 PK 40.80 AV	74.00 54.00	-26.20 -13.20	1.00 V 1.00 V	358 358	15.10 8.10	32.80 32.80			
2	*5745.00	114.30 PK	54.00	-13.20	1.00 V 1.17 V	52	77.80	36.50			
2	*5745.00	103.70 AV			1.17 V	52	67.20	36.50			
3	#11490.00	66.40 PK	74.00	-7.60	1.63 V	51	14.90	51.50			
3	#11490.00	52.70 AV	54.00	-1.30	1.63 V	51	1.20	51.50			

NOTE: 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 falling in the restricted band.



CHANNEL	Channel 3	FREQUENCY RANGE	1 ~ 40 GHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 955hPa	TESTED BY	Wen Yu

	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	#3856.60	50.90 PK	74.00	-23.10	1.14 H	316	18.20	32.80		
1	#3856.60	46.90 AV	54.00	-7.10	1.14 H	316	14.20	32.80		
2	*5785.00	103.00 PK			1.22 H	311	66.30	36.70		
2	*5785.00	93.10 AV			1.22 H	311	56.40	36.70		
3	#11570.00	63.00 PK	74.00	-11.00	1.48 H	1	11.70	51.30		
3	#11570.00	49.30 AV	54.00	-4.70	1.48 H	1	-2.00	51.30		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)			
1	#3856.60	49.00 PK	74.00	-25.00	1.48 V	351	16.30	32.80			
1	#3856.60	44.20 AV	54.00	-9.80	1.48 V	351	11.50	32.80			
2	*5785.00	114.20 PK			1.14 V	53	77.50	36.70			
2	*5785.00	104.40 AV			1.14 V	53	67.70	36.70			
3	#11570.00	65.50 PK	74.00	-8.50	1.78 V	53	14.20	51.30			
3	#11570.00	52.30 AV	54.00	-1.70	1.78 V	53	1.00	51.30			

NOTE: 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 falling in the restricted band.



CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40 GHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 955hPa	TESTED BY	Wen Yu

	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	#3883.30	55.60 PK	74.00	-18.40	1.15 H	313	22.90	32.80			
1	#3883.30	51.20 AV	54.00	-2.80	1.15 H	313	18.50	32.80			
2	*5825.00	104.10 PK			1.14 H	309	67.30	36.80			
2	*5825.00	94.20 AV			1.14 H	309	57.40	36.80			
3	#11650.00	62.70 PK	74.00	-11.30	1.50 H	0	11.80	51.00			
3	#11650.00	49.00 AV	54.00	-5.00	1.50 H	0	-1.90	51.00			

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)			
1	#3883.30	50.50 PK	74.00	-23.50	1.72 V	241	17.80	32.80			
1	#3883.30	46.60 AV	54.00	-7.40	1.72 V	241	13.90	32.80			
2	*5825.00	114.70 PK			1.15 V	306	77.90	36.80			
2	*5825.00	104.70 AV			1.15 V	306	67.90	36.80			
3	#11650.00	65.30 PK	74.00	-8.70	1.75 V	52	14.40	51.00			
3	#11650.00	52.20 AV	54.00	-1.80	1.75 V	52	1.30	51.00			

NOTE: 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 falling in the restricted band.



802.11a Turbo OFDM modulation

CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 40 GHz	
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps	
INPUT POWER		DETECTOR	Peak(PK)	
(SYSTEM)	120Vac, 60 Hz	FUNCTION	Average (AV)	
ENVIRONMENTAL	26deg. C, 70%RH,	TESTED BY	Mon Yu	
CONDITIONS	955hPa		Wen Yu	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
No.	Freq. (MHz)	Emission Level	Limit (dBuV/m)	Margin	Antenna Height	Table Angle	Raw Value	Correction Factor			
	(IMI⊟2)	(dBuV/m)	(ubuv/III)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)			
1	#3840.00	46.50 PK	74.00	-27.50	1.00 H	307	13.80	32.80			
1	#3840.00	39.20 AV	54.00	-14.80	1.00 H	307	6.50	32.80			
2	*5760.00	101.60 PK			1.21 H	310	65.00	36.60			
2	*5760.00	89.90 AV			1.21 H	310	53.30	36.60			
3	#11520.00	62.80 PK	74.00	-11.20	1.22 H	351	11.30	51.50			
3	#11520.00	49.50 AV	54.00	-4.50	1.22 H	351	-2.00	51.50			

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)			
1	#3840.00	46.00 PK	74.00	-28.00	1.00 V	151	13.30	32.80			
1	#3840.00	37.70 AV	54.00	-16.30	1.00 V	151	5.00	32.80			
2	*5760.00	112.80 PK			1.21 V	321	76.20	36.60			
2	*5760.00	103.20 AV			1.21 V	321	66.60	36.60			
3	#11520.00	62.50 PK	74.00	-11.50	1.12 V	43	11.00	51.50			
3	#11520.00	49.80 AV	54.00	-4.20	1.12 V	43	-1.70	51.50			

NOTE: 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 falling in the restricted band.



CHANNEL	Channel 2	FREQUENCY RANGE	1 ~ 40 GHz
MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER	120Vac, 60 Hz	DETECTOR	Peak(PK)
(SYSTEM)		FUNCTION	Average (AV)
ENVIRONMENTAL	26deg. C, 70%RH,	TESTED BY	Wen Yu
CONDITIONS	955hPa	IESIEDBI	

	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	#3866.60	46.90 PK	74.00	-27.10	1.00 H	296	14.20	32.80
1	#3866.60	40.40 AV	54.00	-13.60	1.00 H	296	7.70	32.80
2	*5800.00	102.50 PK			1.20 H	309	65.80	36.70
2	*5800.00	92.70 AV			1.20 H	309	56.00	36.70
3	#11600.00	62.30 PK	74.00	-11.70	1.20 H	342	11.20	51.20
3	#11600.00	48.90 AV	54.00	-5.10	1.20 H	342	-2.20	51.20

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#3866.60	46.20 PK	74.00	-27.80	1.00 V	305	13.50	32.80
1	#3866.60	37.80 AV	54.00	-16.20	1.00 V	305	5.10	32.80
2	*5800.00	112.60 PK			1.14 V	50	75.90	36.70
2	*5800.00	103.10 AV			1.14 V	50	66.40	36.70
3	#11600.00	62.70 PK	74.00	-11.30	1.11 V	42	11.60	51.20
3	#11600.00	49.40 AV	54.00	-4.60	1.11 V	42	-1.70	51.20

NOTE: 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 falling in the restricted band.

7. The limit value is defined as per 15.247



5.3 6dB BANDWIDTH MEASUREMENT

5.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

5.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 23, 2006

NOTE:

1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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



5.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

5.3.4 DEVIATION FROM TEST STANDARD

No deviation

5.3.5 TEST SETUP



5.3.6 EUT OPERATING CONDITIONS

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



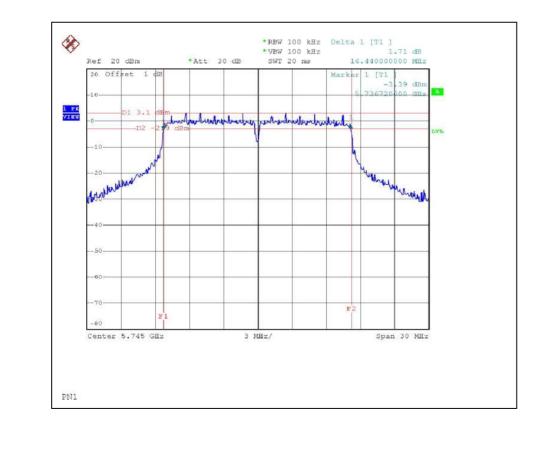
5.3.7 TEST RESULTS- ANTENNA 1

802.11a OFDM modulation

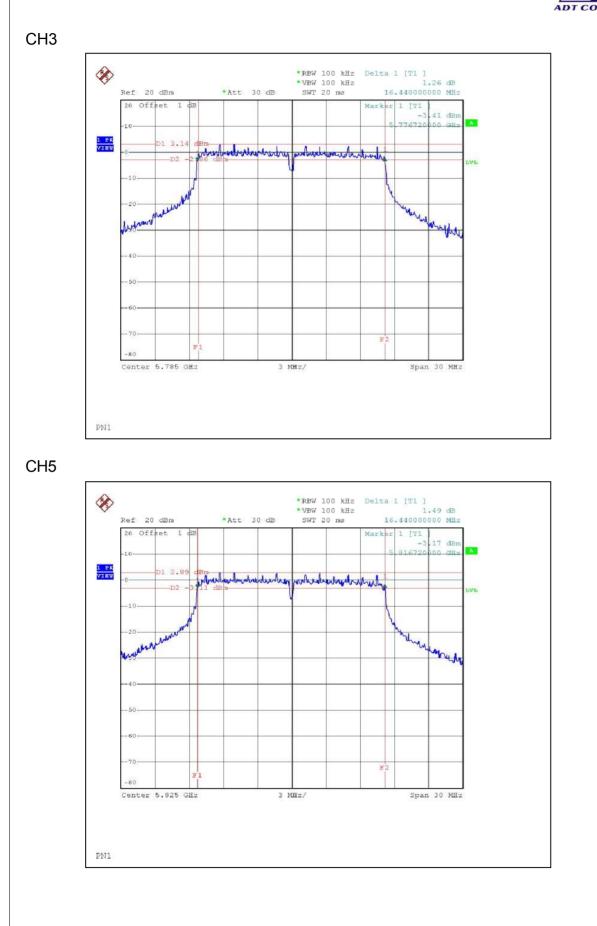
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz		24deg. C, 62%RH, 955hPa
TESTED BY	Wen Yu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	5745	16.44	0.5	PASS
3	5785	16.44	0.5	PASS
5	5825	16.44	0.5	PASS

CH1







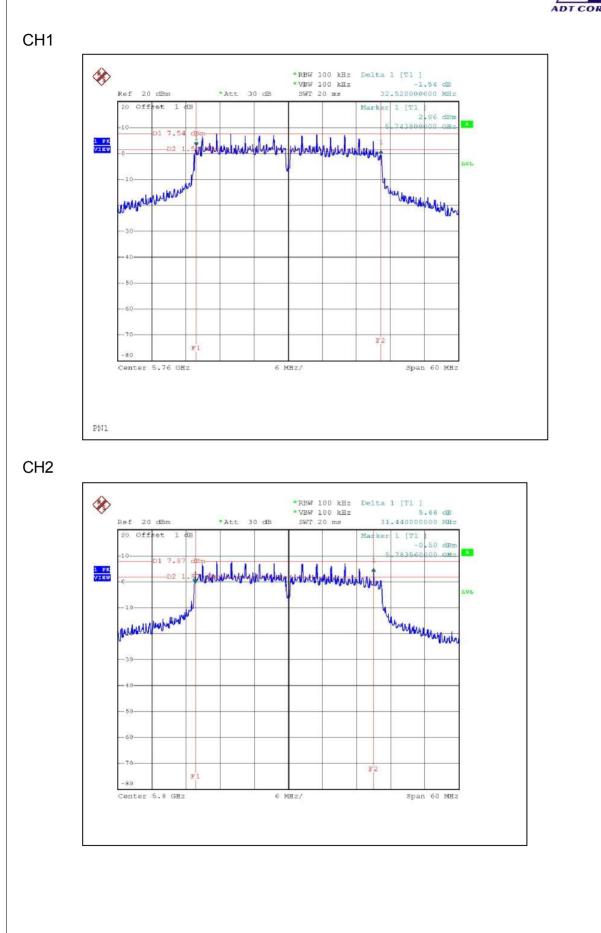


802.11a Turbo OFDM modulation

MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 62%RH, 955hPa
TESTED BY	Wen Yu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	5760	32.52	0.5	PASS
2	5800	31.44	0.5	PASS







5.4 MAXIMUM PEAK OUTPUT POWER

5.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

5.4.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 23, 2006
Agilent SIGNAL GENERATOR	E8257C	MY43320668	Dec. 07, 2006
TEKTRONIX OSCILLOSCOPE	TDS380	B016335	July 04, 2007
NARDA DETECTOR	4503A	FSCM99899	NA

NOTE:

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



5.4.3 TEST PROCEDURES

- 1. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
- 2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
- 3. Adjusted the power to have the same reading on oscilloscope. Record the power level.

5.4.4 DEVIATION FROM TEST STANDARD

No deviation

5.4.5 TEST SETUP



5.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6



5.4.7 TEST RESULTS

802.11a OFDM modulation

MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 62%RH, 955hPa
TESTED BY	Wen Yu		

Antenna 1 (Gain : 5 dBi) + Antenna Cable (1.8dB loss)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)		PASS/FAIL
1	5745	83.176	19.2	30	PASS
3	5785	83.176	19.2	30	PASS
5	5825	89.125	19.5	30	PASS



802.11a Turbo OFDM modulation

MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 52%RH, 955hPa
TESTED BY	Wen Yu		

Antenna 1 (Gain : 5 dBi) + Antenna Cable (1.8dB loss)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)		PASS/FAIL
1	5760	141.254	21.5	30	PASS
2	5800	141.254	21.5	30	PASS



5.5 POWER SPECTRAL DENSITY MEASUREMENT

5.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

5.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 23, 2006

NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.

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



5.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time = span/3 kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3 kHz for a full response of the mixer in the spectrum analyzer.

5.5.4 DEVIATION FROM TEST STANDARD

No deviation

5.5.5 TEST SETUP



5.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6



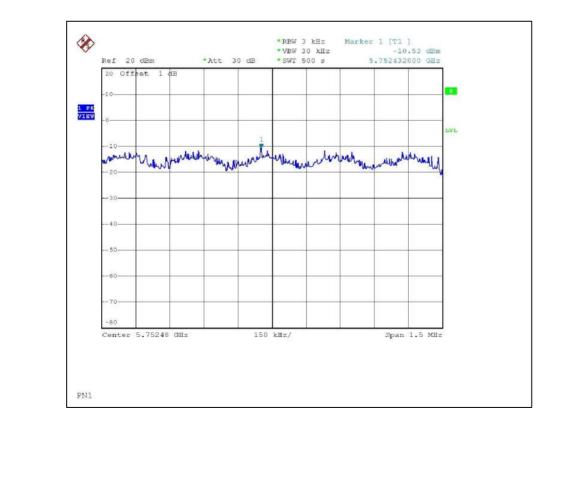
5.5.7 TEST RESULTS -ANTENNA 1

802.11a OFDM modulation

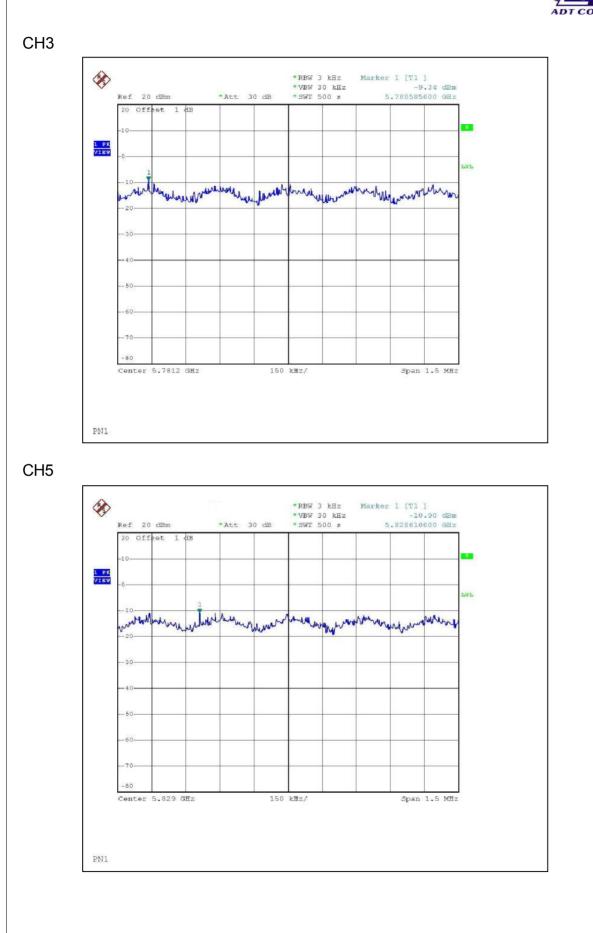
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps	
INPUT POWER (SYSTEM)	120Vac, 60 Hz		24deg. C, 62%RH, 955hPa	
TESTED BY	Wen Yu			

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5745	-10.53	8	PASS
3	5785	-9.34	8	PASS
5	5825	-10.90	8	PASS

CH1







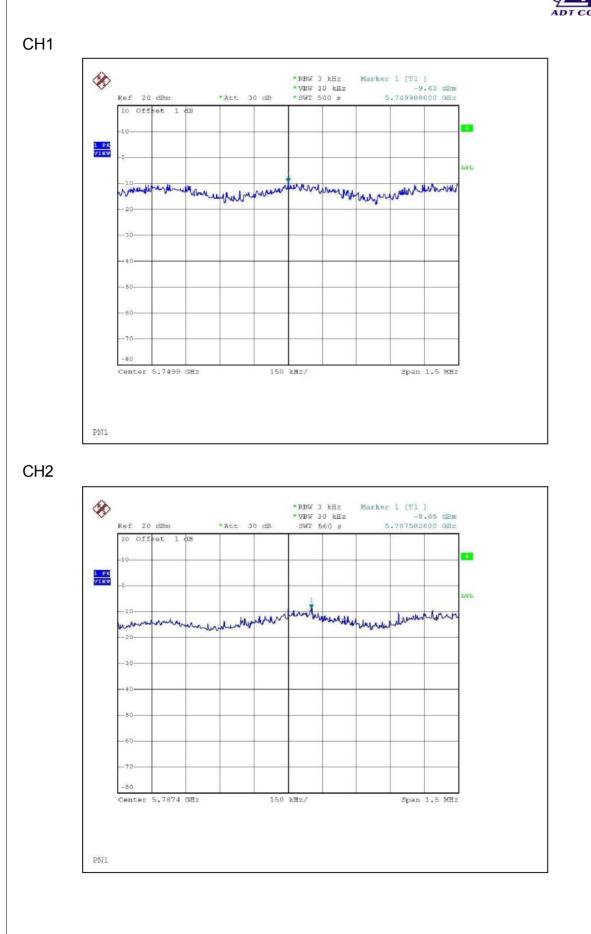


802.11a Turbo OFDM modulation

MODULATION TYPE	BPSK	TRANSFER RATE	12Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 62%RH, 955hPa
TESTED BY	Wen Yu		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5760	-9.63	8	PASS
2	5800	-8.65	8	PASS







5.6 BAND EDGES MEASUREMENT

5.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

5.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 23, 2006

NOTE:

1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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



5.6.3 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 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

5.6.4 DEVIATION FROM TEST STANDARD

No deviation

5.6.5 EUT OPERATING CONDITION

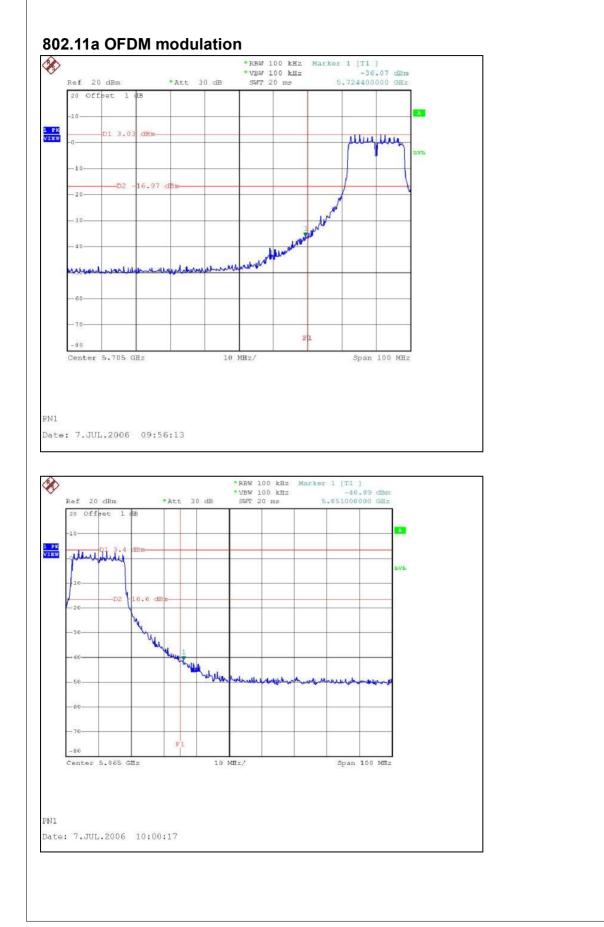
Same as Item 4.3.6



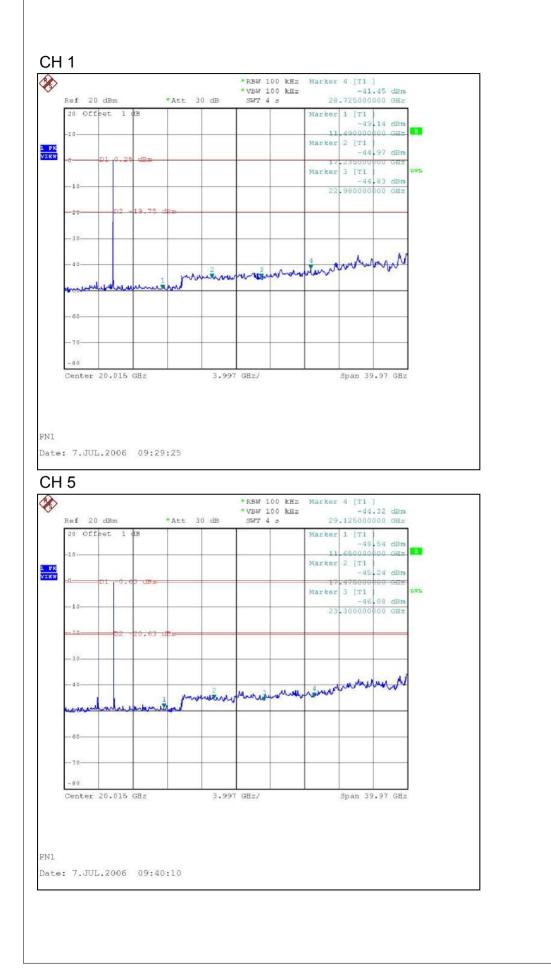
5.6.6 TEST RESULTS -ANTENNA 1

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

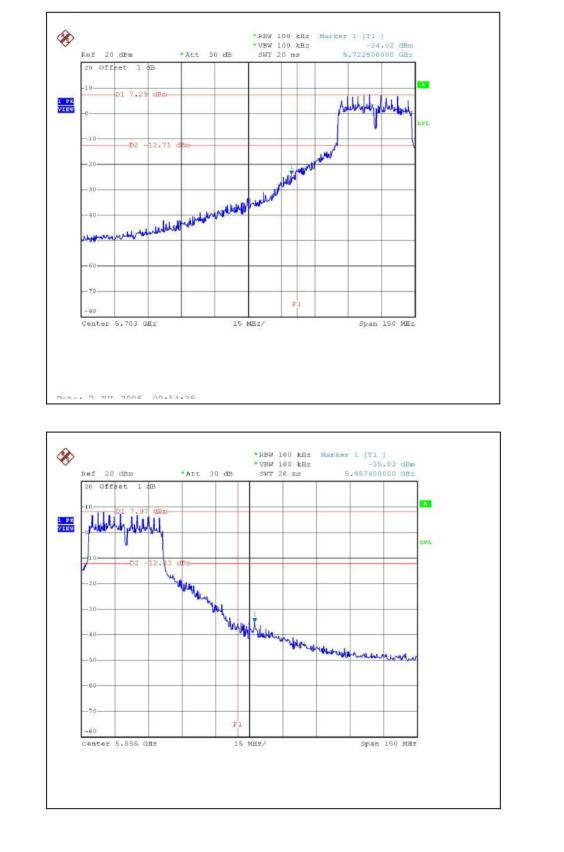






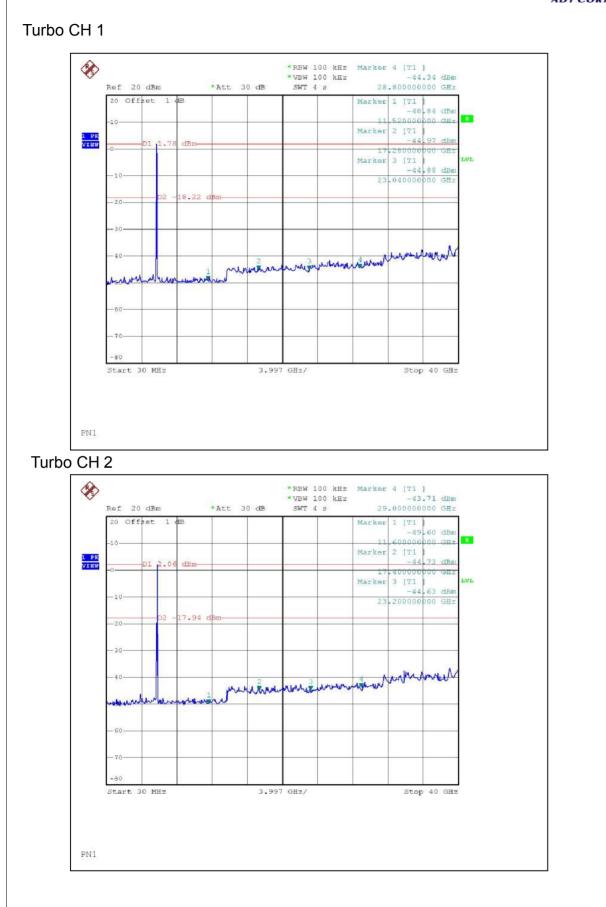






802.11a Turbo OFDM modulation







5.7 ANTENNA REQUIREMENT

5.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247(a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

5.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is as following:

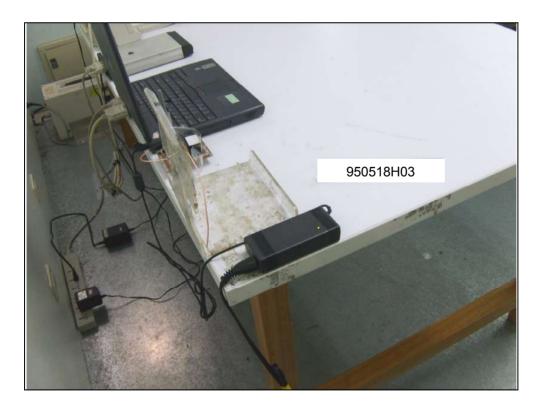
No.	Model No.	Gain (dBi)	Cable Loss (dB)	Net Gain (dB)	Antenna Type	Connector
1	SAA04-220080	5	1.8	3.2	Dipole	RP-N plug



6. PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST (2.4G)







CONDUCTED EMISSION TEST (5G)

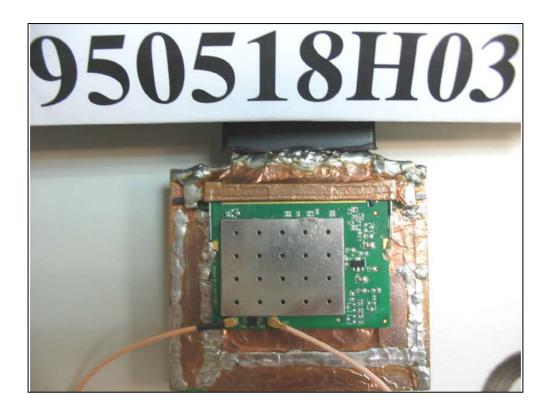




RADIATED EMISSION TEST (2.4G)







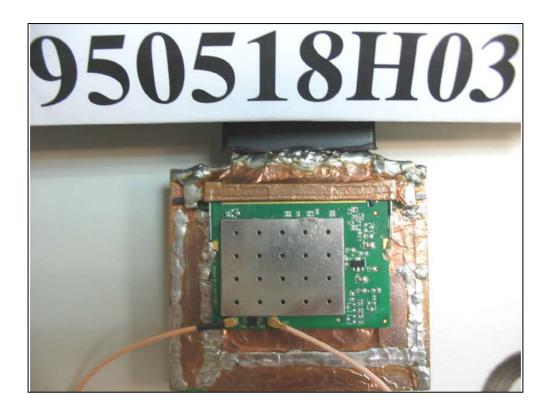


RADIATED EMISSION TEST (5G)











7. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., 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, UL, A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA, CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	CERTIS(MOU)

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

Linko EMC/RF Lab:

Hsin Chu EMC/RF Lab:

Tel: 886-2-26052180 Fax: 886-2-26052943 Tel: 886-3-5935343 Fax: 886-3-5935342

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

Web Site: <u>www.adt.com.tw</u>

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



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.