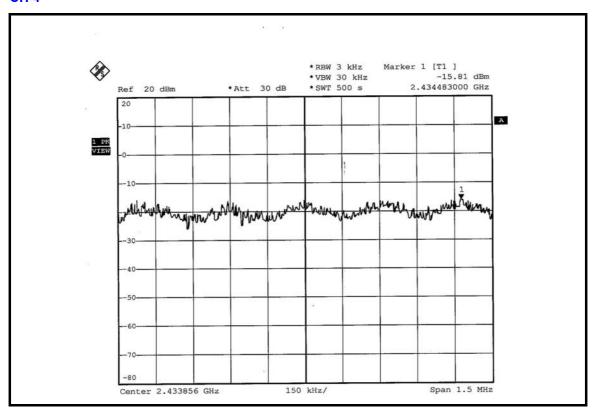
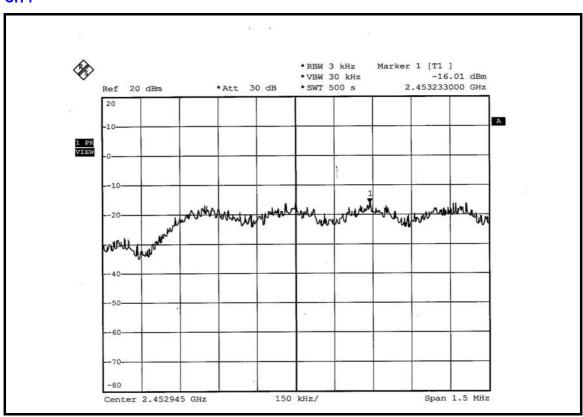


CH 4

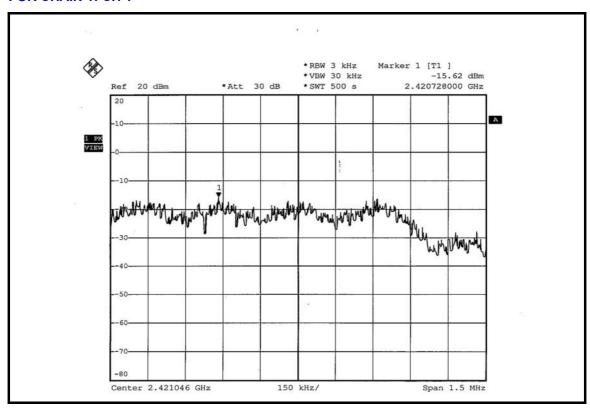


CH 7

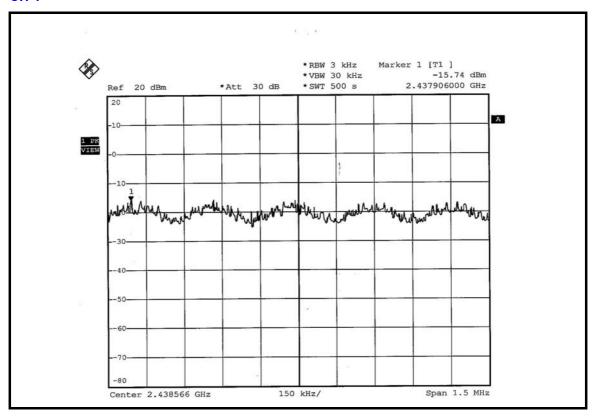




FOR CHAIN 1: CH 1

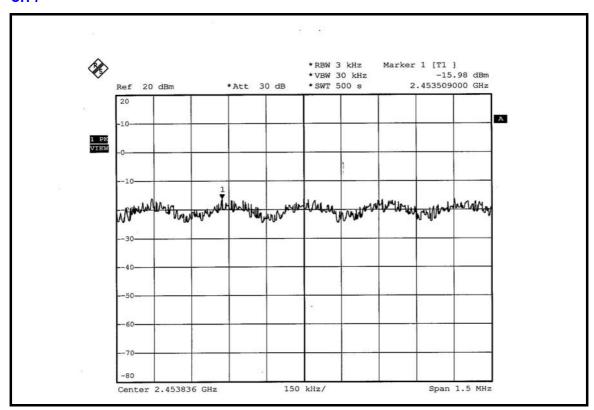


CH 4





CH 7





4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF 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	FSEK30	100049	Aug. 14, 2006

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

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 (Peak RBW = VBW = 100kHz; Average RBW = 1MHz, VBW = 100Hz) are attached on the following pages.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6



4.6.6 TEST RESULTS

The spectrum plots are attached on the following 24 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:

NOTE 1:

The band edge emission plot of DSSS technique on the next page shows 49.43dBc between carrier maximum power and local maximum emission in restrict band (2.38772GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 108.58dBuV/m (Peak), so the maximum field strength in restrict band is 108.58-49.43=59.15dBuV/m which is under 74dBuV/m limit.

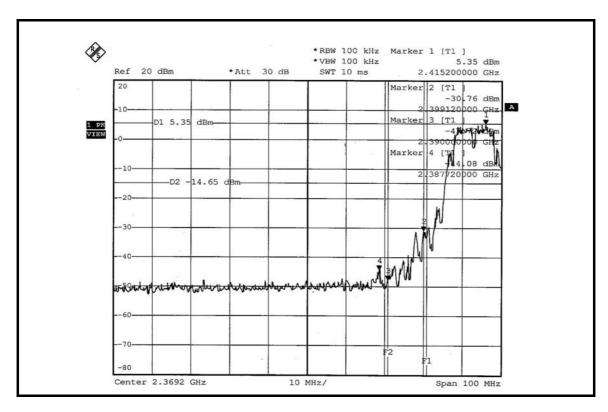
The band edge emission plot of DSSS technique on the next page shows 52.55dBc between carrier maximum power and local maximum emission in restrict band (2.38760GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 104.30dBuV/m (Average), so the maximum field strength in restrict band is 104.30-52.55=51.75dBuV/m which is under 54dBuV/m limit.

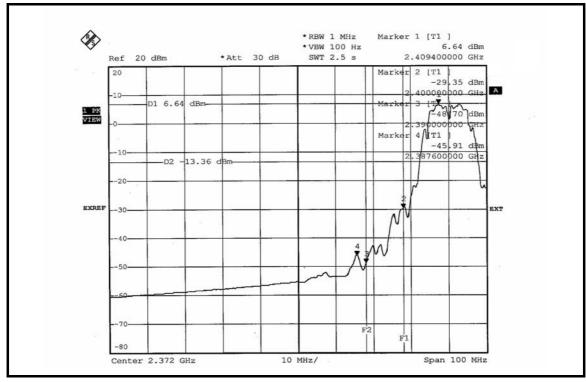
NOTE 2:

The band edge emission plot of DSSS technique on the next second page shows 50.34dBc between carrier maximum power and local maximum emission in restrict band (2.48626GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 108.72dBuV/m (Peak), so the maximum field strength in restrict band is 108.72-50.34=58.38dBuV/m which is under 74dBuV/m limit.

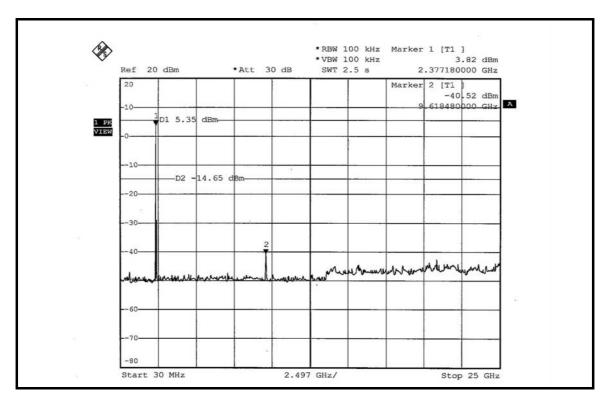
The band edge emission plot of DSSS technique on the next third page shows 52.22dBc between carrier maximum power and local maximum emission in restrict band (2.48610GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 104.56dBuV/m (Average), so the maximum field strength in restrict band is 104.56-52.22=52.34dBuV/m which is under 54dBuV/m limit.

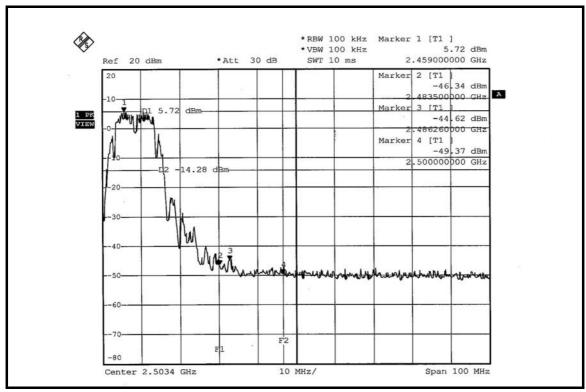




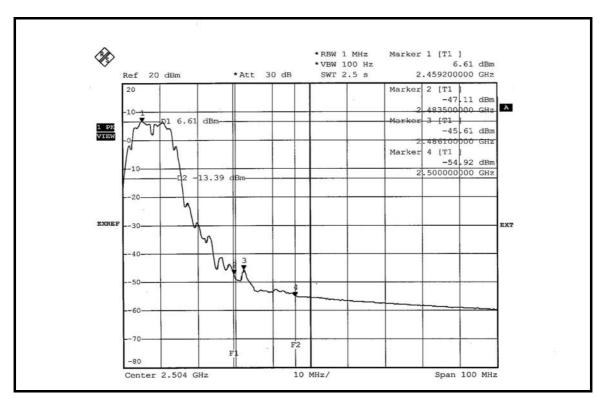


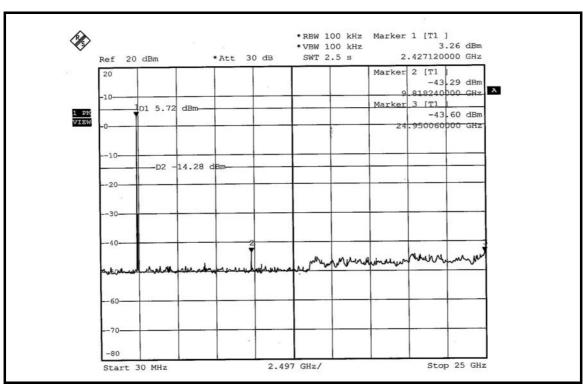














802.11g OFDM MODULATION:

NOTE 1:

The band edge emission plot of OFDM technique on the next page shows 50.16dBc between carrier maximum power and local maximum emission in restrict band (2.36492GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 110.14dBuV/m (Peak), so the maximum field strength in restrict band is 110.14-50.16=59.98dBuV/m which is under 74dBuV/m limit.

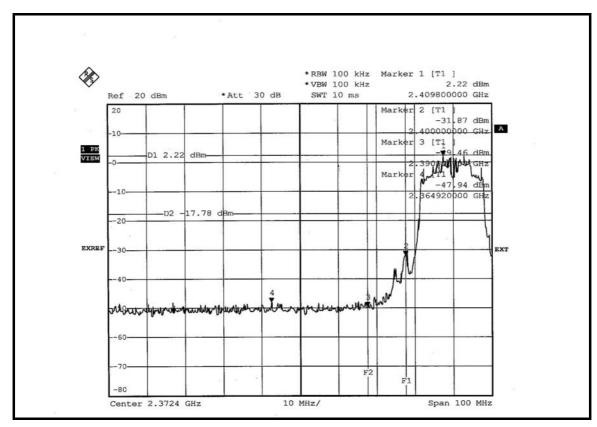
The band edge emission plot of OFDM technique on the next page shows 51.85dBc between carrier maximum power and local maximum emission in restrict band (2.38752GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 100.33dBuV/m (Average), so the maximum field strength in restrict band is 100.33-51.85=48.48dBuV/m which is under 54dBuV/m limit.

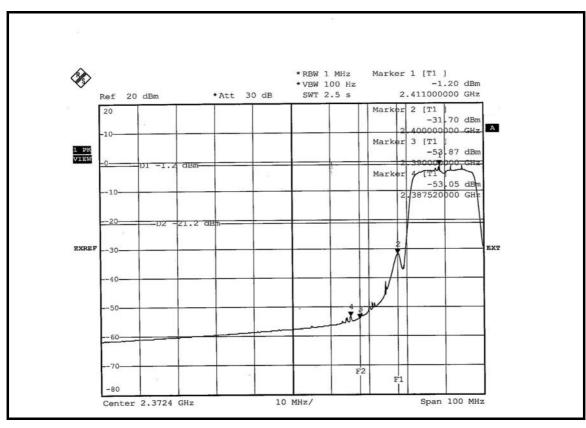
NOTE 2:

The band edge emission plot of OFDM technique on the next second page shows 48.80dBc between carrier maximum power and local maximum emission in restrict band (2.49490GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 110.20dBuV/m (Peak), so the maximum field strength in restrict band is 110.20-48.80=61.40dBuV/m which is under 74dBuV/m limit.

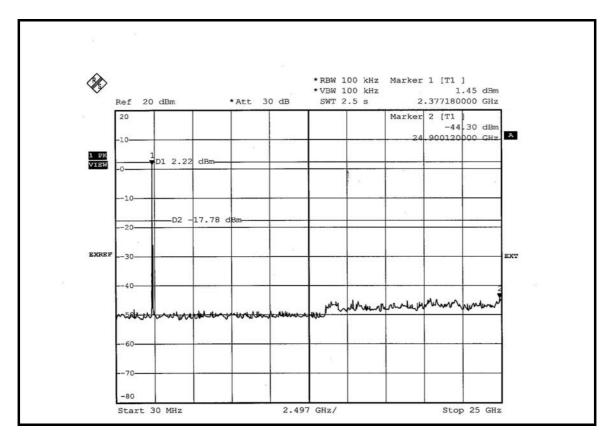
The band edge emission plot of OFDM technique on the next third page shows 52.18dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 100.35dBuV/m (Average), so the maximum field strength in restrict band is 100.35-52.18=48.17dBuV/m which is under 54dBuV/m limit.

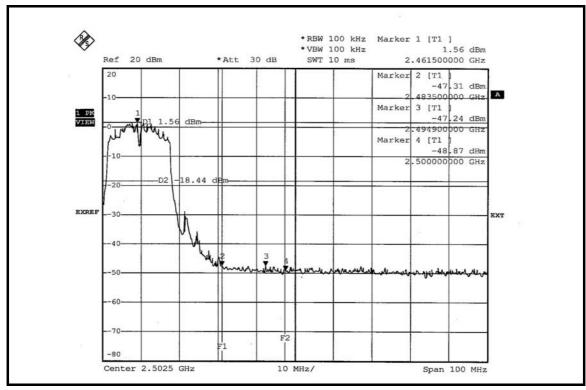




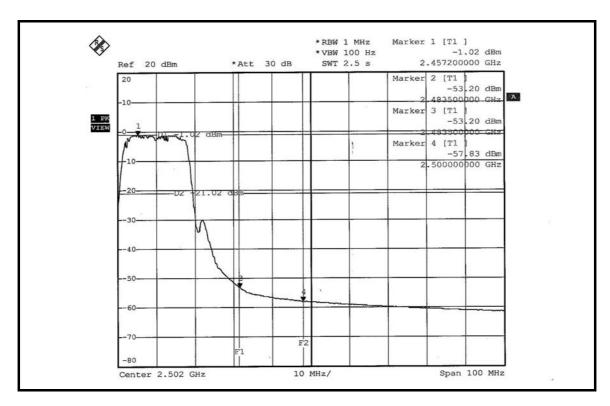


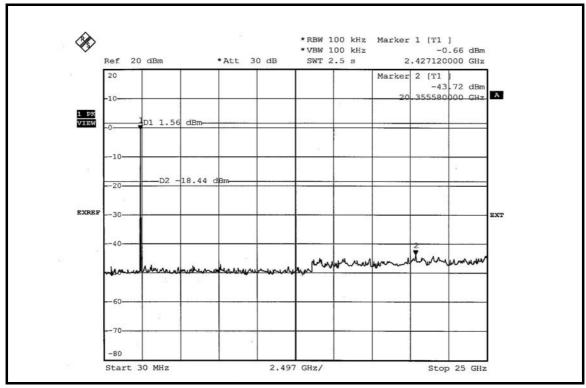














DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

NOTE 1:

The band edge emission plot of OFDM technique on the next page shows 47.40dBc between carrier maximum power and local maximum emission in restrict band (2.38880GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 113.26dBuV/m (Peak), so the maximum field strength in restrict band is 113.26-47.40=65.86dBuV/m which is under 74dBuV/m limit.

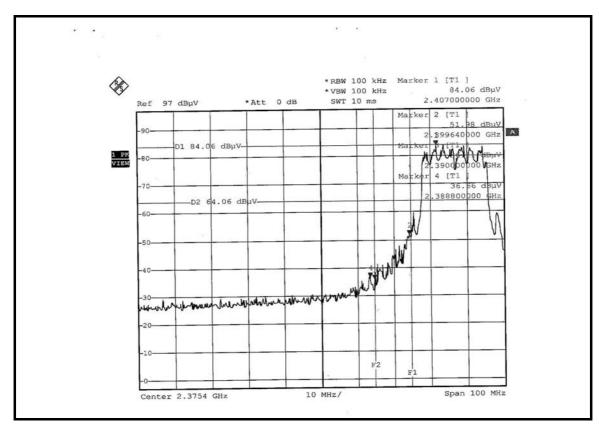
The band edge emission plot of OFDM technique on the next page shows 51.23dBc between carrier maximum power and local maximum emission in restrict band (2.38880GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 102.55dBuV/m (Average), so the maximum field strength in restrict band is 102.55-51.23=51.32dBuV/m which is under 54dBuV/m limit.

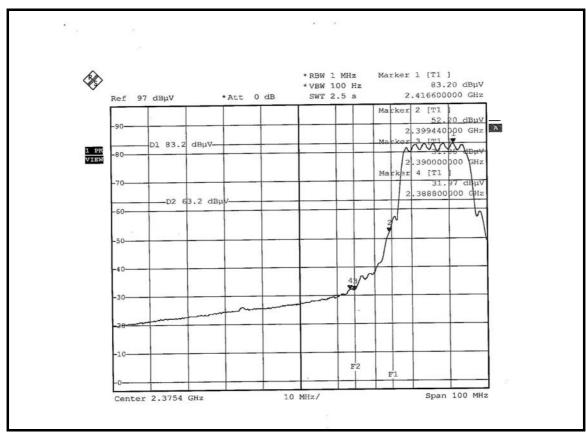
NOTE 2:

The band edge emission plot of OFDM technique on the next second page shows 46.63dBc between carrier maximum power and local maximum emission in restrict band (2.48390GHz) is 113.10dBuV/m (Peak), so the maximum field strength in restrict band is 113.10-46.63=66.47dBuV/m which is under 74dBuV/m limit.

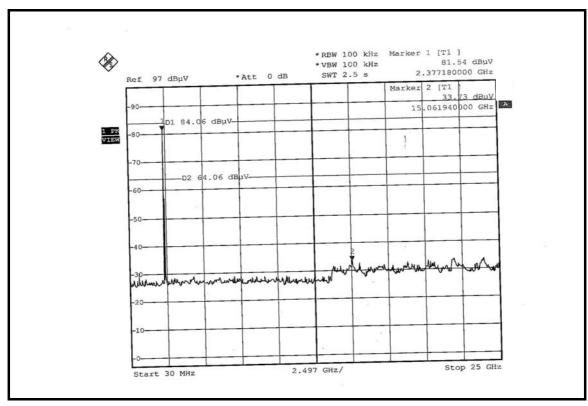
The band edge emission plot of OFDM technique on the next third page shows 49.69dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 102.32dBuV/m (Average), so the maximum field strength in restrict band is 102.32-49.69=56.63dBuV/m which is under 54dBuV/m limit.

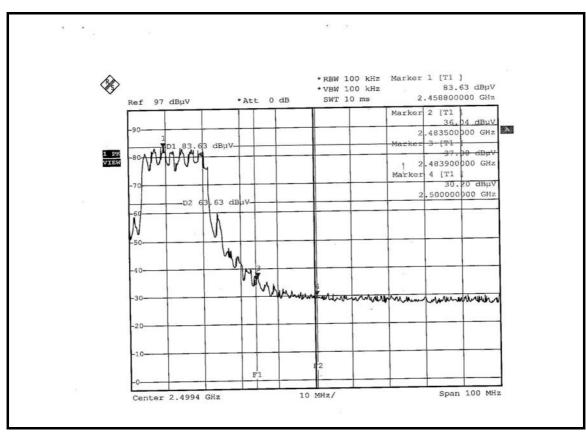




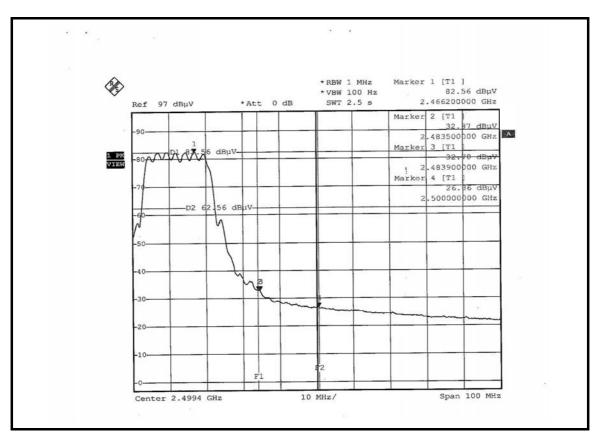


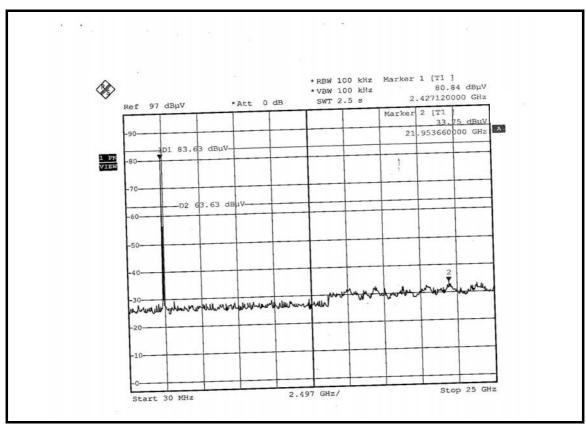














DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

NOTE 1:

The band edge emission plot of OFDM technique on the next page shows 44.58dBc between carrier maximum power and local maximum emission in restrict band (2.38888GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 110.84dBuV/m (Peak), so the maximum field strength in restrict band is 110.84-44.58=66.26dBuV/m which is under 74dBuV/m limit.

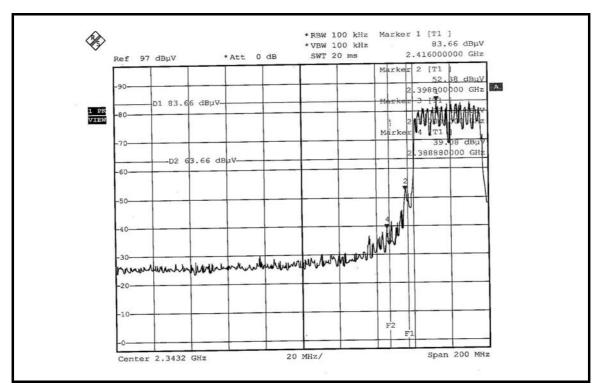
The band edge emission plot of OFDM technique on the next page shows 47.54dBc between carrier maximum power and local maximum emission in restrict band (2.38928GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 99.84dBuV/m (Average), so the maximum field strength in restrict band is 99.84-47.54=52.30dBuV/m which is under 54dBuV/m limit.

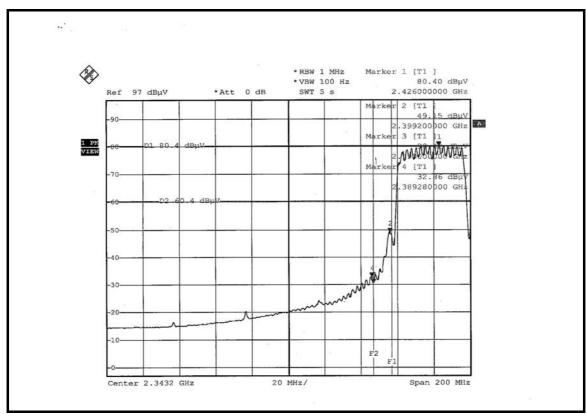
NOTE 2:

The band edge emission plot of OFDM technique on the next second page shows 45.48dBc between carrier maximum power and local maximum emission in restrict band (2.48590GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 110.71dBuV/m (Peak), so the maximum field strength in restrict band is 110.71-45.48=65.23dBuV/m which is under 74dBuV/m limit.

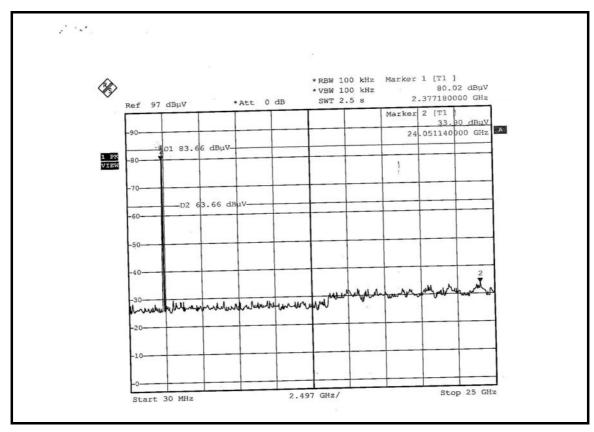
The band edge emission plot of OFDM technique on the next third page shows 46.92dBc between carrier maximum power and local maximum emission in restrict band (2.48470GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 99.31dBuV/m (Average), so the maximum field strength in restrict band is 99.31-46.92=52.39dBuV/m which is under 54dBuV/m limit.

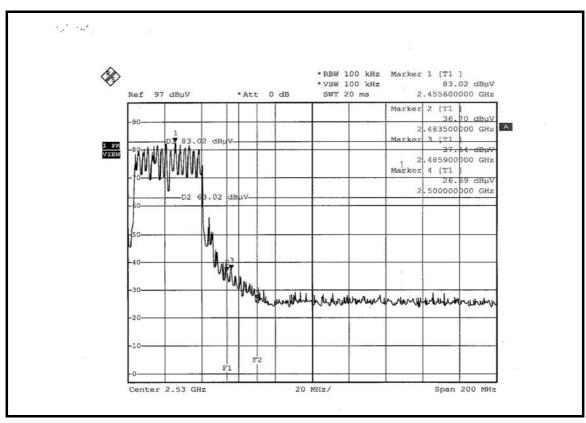




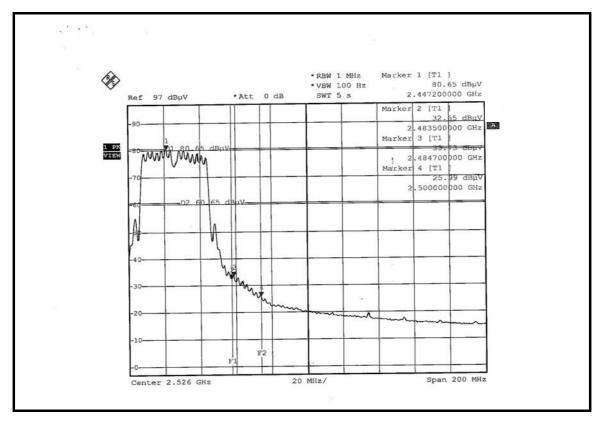


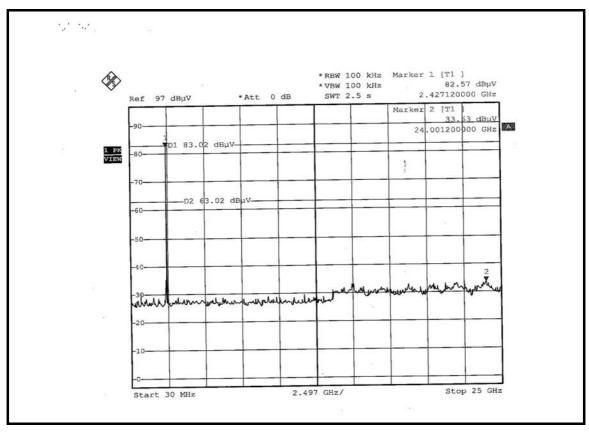














4.7 ANTENNA REQUIREMENT

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 antenna used in this product is printed antenna without connector. The maximum Gain of the antenna is 1.5dBi.



5. 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: 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: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26052943 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:

Tel: 886-3-3183232 Fax: 886-3-3185050

Web Site: www.adt.com.tw

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



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.			