



FCC TEST REPORT

REPORT NO.: RF920910H03A

MODEL NO.: A300-2

RECEIVED: Jul. 25, 2003

TESTED: Jul. 27 to Oct. 09, 2003

APPLICANT: Extreme Networks

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Lab Code: 200376-0



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1. CERTIFICATION

PRODUCT : Wireless LAN Access Point
BRAND NAME : Extreme Networks
MODEL NO. : A300-2
APPLICANT : Extreme Networks
STANDARDS : 47 CFR Part 15, Subpart C (Section 15.247),
Subpart E (Section 15.407), ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from Jul. 27 to Oct. 09, 2003. The test record data evaluation and Equipment under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

PREPARED BY: Amanda Chu , **DATE:** Oct. 09, 2003
(Amanda Chu)

APPROVED BY: Eric Lin , **DATE:** Oct. 09, 2003
(Eric Lin, Manager)



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: 47 CFR Part 15, Subpart C | | | |
|----------------------------------------------------|----------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------|
| Standard Section | Test Type and Limit | Result | REMARK |
| 15.207 | AC Power Conducted Emission | PASS | Meet the requirement of limit Minimum passing margin is -10.58dBuV at 1.338MHz |
| 15.247(a)(2) | Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz | PASS | Meet the requirement of limit |
| 15.247(b) | Maximum Peak Output Power Limit: max. 30dBm | PASS | Meet the requirement of limit |
| 15.247(c) | Radiated Emissions Limit: Table 15.209 | PASS | Meet the requirement of limit Minimum passing margin is -0.9dBuV at 2390.00 MHz |
| 15.247(d) | Power Spectral Density Limit: max. 8dBm | PASS | Meet the requirement of limit |
| 15.247(c) | Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency | PASS | Meet the requirement of limit |



for freq. 5.15~5.35GHz :

| APPLIED STANDARD: 47 CFR Part 15, Subpart E | | | |
|----------------------------------------------------|----------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------|
| Standard Section | Test Type | Result | REMARK |
| 15.407(b)(5) | AC Power Conducted Emission | PASS | Meet the requirement of limit Minimum passing margin is -10.78dBuV at 1.338MHz |
| 15.407(b/1/2/5) | Electric Field Strength Spurious Emissions, 30 MHz – 40000 MHz | PASS | Meet the requirement of limit Minimum passing margin is -1.0dBuV at 5408.00MHz |
| 15.407(a/1/2) | 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 |

for freq. 5.725~5.850GHz :

| APPLIED STANDARD: 47 CFR Part 15, Subpart C | | | |
|----------------------------------------------------|----------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------|
| Standard Section | Test Type and Limit | Result | REMARK |
| 15.207 | AC Power Conducted Emission | PASS | Meet the requirement of limit Minimum passing margin is -10.78dBuV at 1.338MHz |
| 15.247(a)(2) | Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz | PASS | Meet the requirement of limit |
| 15.247(b) | Maximum Peak Output Power Limit: max. 30dBm | PASS | Meet the requirement of limit |
| 15.247(c) | Radiated Emissions Limit: Table 15.209 | PASS | Meet the requirement of limit Minimum passing margin is -1.3dBuV at 5440.00MHz |
| 15.247(d) | Power Spectral Density Limit: max. 8dBm | PASS | Meet the requirement of limit |
| 15.247(c) | Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency | PASS | Meet the requirement of limit |



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| PRODUCT | Wireless LAN Access Point |
| MODEL NO. | A300-2 |
| POWER SUPPLY | 48VDC from POE (Power Over Ethernet) |
| MODULATION | DSSS, OFDM |
| TRANSFER RATE | 802.11b and draft 802.11g: 1/2/5.5/6/9/11/12/18/24/36/48/54Mbps 802.11a:6 to 54Mbps (Turbo mode: up to 108Mbps *see note 1) |
| FREQUENCY RANGE | 802.11b and draft 802.11g: 2400MHz ~ 2483.5MHz 802.11a: 5.15~5.35GHz and 5.725~5.850GHz |
| NUMBER OF CHANNEL | 802.11b and draft 802.11g: 11 802.11a: 13 for Normal mode / 5 for Turbo mode |
| CHANNEL SPACING | 802.11b and draft 802.11g: 5MHz 802.11a: 20MHz for Normal mode / 40MHz for Turbo mode |
| OUTPUT POWER | 802.11b: 18.3dBm / draft 802.11g: 18.2dBm 802.11a: 21.0dBm |
| DATA CABLE | NA |
| ANTENNA TYPE | Dual-Band Omni-Directional Antenna, Dual Mode Antenna |
| I/O PORTS | RJ 45 (POE) Port x 1 |
| ASSOCIATED DEVICES | NA |

NOTE:

1. This EUT is capable of providing data rates of up to 108Mbps in Turbo Mode depending upon reception quality.

2. The EUT has one model name, and it is included two internal model names which are identical to each other in all aspects except for the followings:

| Model Name | Internal Model Name | Model number | Difference |
|------------|---------------------|--------------|-------------------------|
| A300-2 | A300-2i | 15700 | With integrated antenna |
| | A300-2d | 15701 | With detachable antenna |

3. There is two antennas provided to this EUT, please refer to the following table:

| No. | Model No. | Gain (dBi) | Antenna Type | Antenna Connector |
|-----|-----------|----------------------------|-----------------------------|--------------------------------|
| 1 | R0322-120 | 1.5dBi(2.4GHz) | Dual-Band | HRS U.FL-LP-066(2.4GHz) |
| | R0322-103 | 4.5dBi(5GHz) | Omni-Directional Antenna | MMCX R/A Plug(5GHz) |
| 2 | R0323-061 | 6dBi(2.4GHz) 6dBi(5GHz) | Dual Mode Antenna | RP TNC(2.4GHz) RP SMA(5GHz) |

4. Frequency Range of each Antennas are as followings:

| Antenna No. | Frequency Range |
|-------------|-------------------------------------------------------------|
| No. 1 | 2400MHz ~ 2483.5MHz, 5.15GHz ~ 5.35GHz, 5.725GHz ~ 5.850GHz |
| No. 2 | 2400MHz ~ 2483.5MHz, 5.25GHz ~ 5.35GHz, 5.725GHz ~ 5.850GHz |

5. The EUT was powered POE (Power Over Ethernet):

| POE: | |
|---------------------------------------------------------------------------|--------------------------|
| Brand: | 3COM |
| Model No.: | PW130 |
| Input power : | 100-250Vac 50-60Hz 500mA |
| Output power : | 48Vdc 420mA |
| *The POE supplied power to EUT via POE port, only used on testing. | |

6. Dual-band, the EUT communicates with Wireless-A (802.11a), Wireless-B, (802.11b), and Wireless-G (draft 802.11g) wireless networks.
7. For more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

For 802.11b: Eleven channels are provided to this EUT.

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 1 | 2412 MHz | 7 | 2442 MHz |
| 2 | 2417 MHz | 8 | 2447 MHz |
| 3 | 2422 MHz | 9 | 2452 MHz |
| 4 | 2427 MHz | 10 | 2457 MHz |
| 5 | 2432 MHz | 11 | 2462 MHz |
| 6 | 2437 MHz | | |

NOTE:

1. Below 1 GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, worst case one, was chosen for final test.
2. Above 1 GHz, the channel 1, 6, and 11 were tested individually.
3. Transfer rate, 11Mbps with CCK technique and 6Mbps with OFDM technique, the worst case, were chosen for final test.
4. Test result (A) is for antenna 1, test result (B) is for antenna 2
5. Transfer rate, 11Mbps with CCK technique and 6Mbps with OFDM technique, the worst case, were chosen for final test.

For 802.11a: Thirteen channels are provided to this EUT for Normal mode.

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 1 | 5180 MHz | 8 | 5320 MHz |
| 2 | 5200 MHz | 9 | 5745MHz |
| 3 | 5220 MHz | 10 | 5765MHz |
| 4 | 5240 MHz | 11 | 5785MHz |
| 5 | 5260 MHz | 12 | 5805MHz |
| 6 | 5280 MHz | 13 | 5825MHz |
| 7 | 5300 MHz | | |

Five channels are provided to this EUT for Turbo Mode.

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 1 | 5210 MHz | 4 | 5760MHz |
| 2 | 5250 MHz | 5 | 5800MHz |
| 3 | 5290 MHz | | |

NOTE:

- 1..The EUT was tested in both normal mode (channel bandwidth of approximately 30MHz) and turbo mode (channel bandwidth of approximately 60MHz).
2. "Normal Mode" allows data rates of up to 54Mbps. The device was, therefore, tested in Normal mode at the data rate that produced the highest output power for normal mode (6Mbps).
3. "Turbo Mode" allows data rates of up to 108Mbps. At data rates higher than 12Mbps the PA gain is reduced to improve signal fidelity. The device was, therefore, tested in turbo mode at the data rate that produced the highest output power for turbo mode (12Mbps).
4. Channel 1, 4, 5, 8, 9, 11 and 13 are the closest frequencies to the band edge, were chosen for final test of Normal Mode.
5. Channel 1 ~ 5 were chosen for final test of turbo mode.



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is an Wireless LAN Access Point According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**47 CFR Part 15, Subpart C. (15.247),
Subpart E (15.407). ANSI C63.4 : 1992**

All tests 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 47CFR Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



3.4 DESCRIPTION OF SUPPORT UNITS

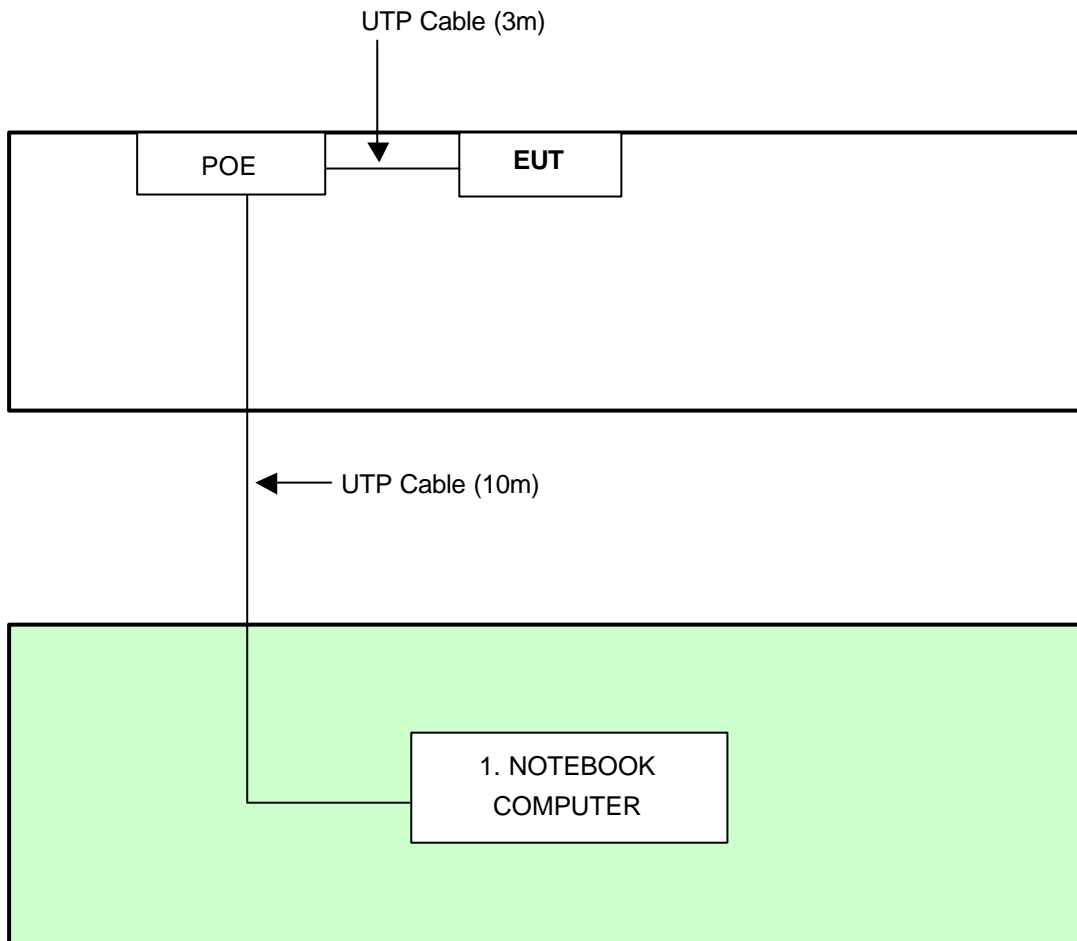
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| No. | Product | Brand | Model No. | Serial No. | FCC ID |
|-----|----------|-------|-----------|------------------------------|---------|
| 1 | NOTEBOOK | DELL | PP01L | TW-09C748-12800-1 A3-1999 | FCC DoC |

| No. | Signal cable description |
|-----|--------------------------|
| 1 | NA |

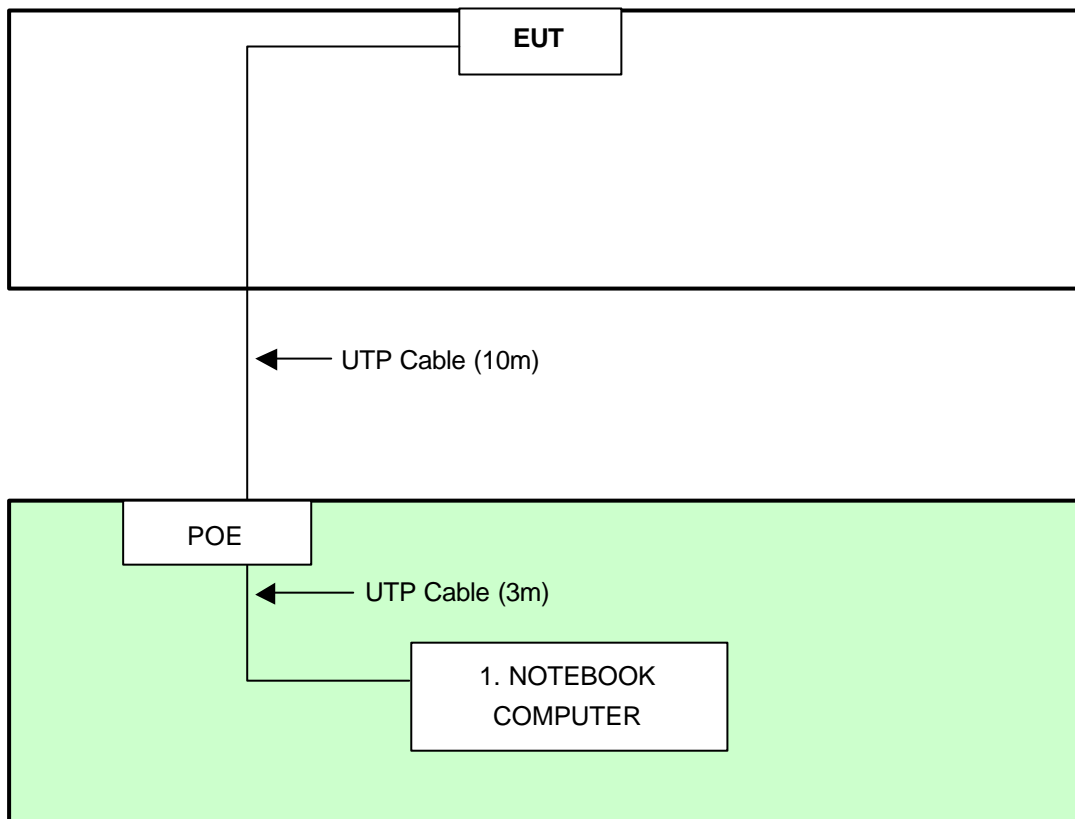
Note: 1. All power cords of the above support units are unshielded (1.8m).

For Conducted test:



- NOTE:** 1. Support unit 1 was kept in the control room during the test.
2. Please refer to the photos of test configuration in Item 5 also.

For Radiated test:



- NOTE:** 1. Support unit 1 was kept in the control room during the test.
2. Please refer to the photos of test configuration in Item 5 also.



4. TEST TYPES AND RESULTS (FOR PART 802.11b)

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY OF EMISSION (MHz) | CONDUCTED LIMIT (dB μ V) | |
|-----------------------------|------------------------------|----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56 | 56 to 46 |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED UNTIL |
|-----------------------------------|-----------|-------------|------------------|
| ROHDE & SCHWARZ Test Receiver | ESCS 30 | 847124/029 | Nov. 17, 2003 |
| ROHDE & SCHWARZ LISN (for EUT) | ESHS-Z5 | 848773/004 | Nov. 13, 2003 |
| KYORITSU LISN (for peripheral) | KNW-407 | 8/1395/12 | Jul. 23, 2004 |
| RF Cable (JETBAO) | RG233/U | Cable_CA_01 | Jul. 03, 2004 |
| Terminator(for KYORITSU) | 50 | 3 | Apr. 11, 2004 |
| Software | Cond-V2e | 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 ADT Shielded Room No. A.
 3. The VCCI Con A Registration No. is C-817.



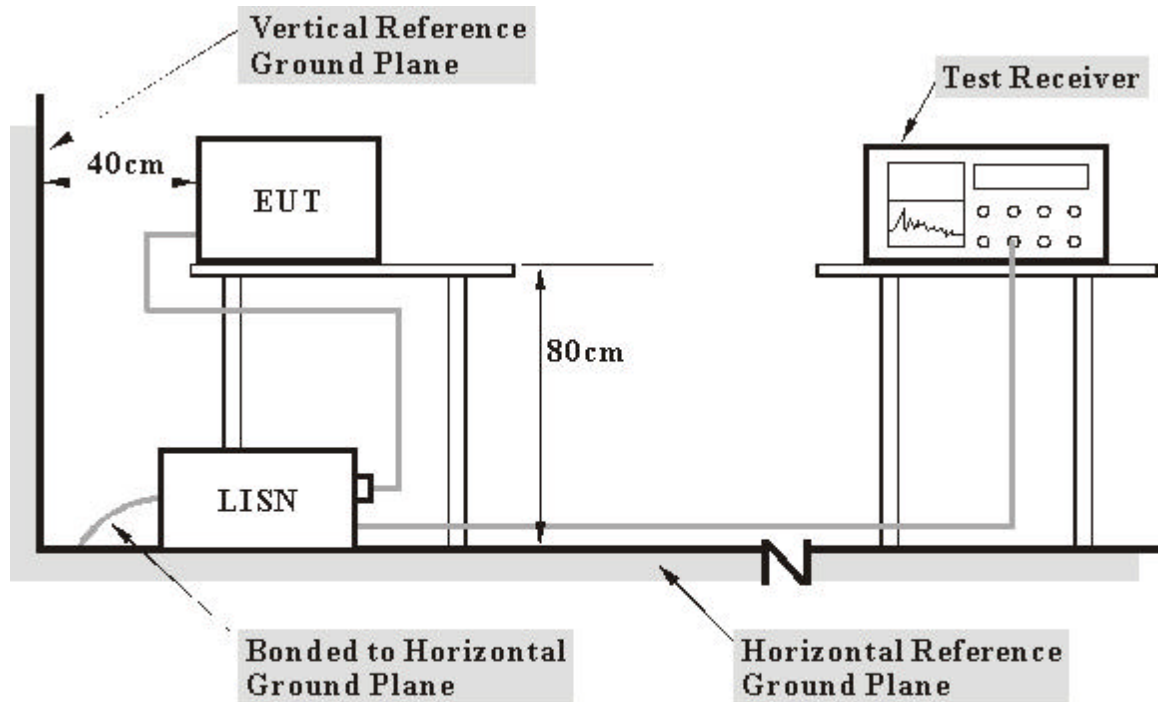
4.1.3 TEST PROCEDURES

- 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 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 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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

4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on the testing table.
- b. Prepared another computer system to act as a communication partner and placed it outside of testing area.
- c. The communication partner run a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency via RJ 45 cable and wireless.
- d. The communication partner sent data to EUT by command "PING".

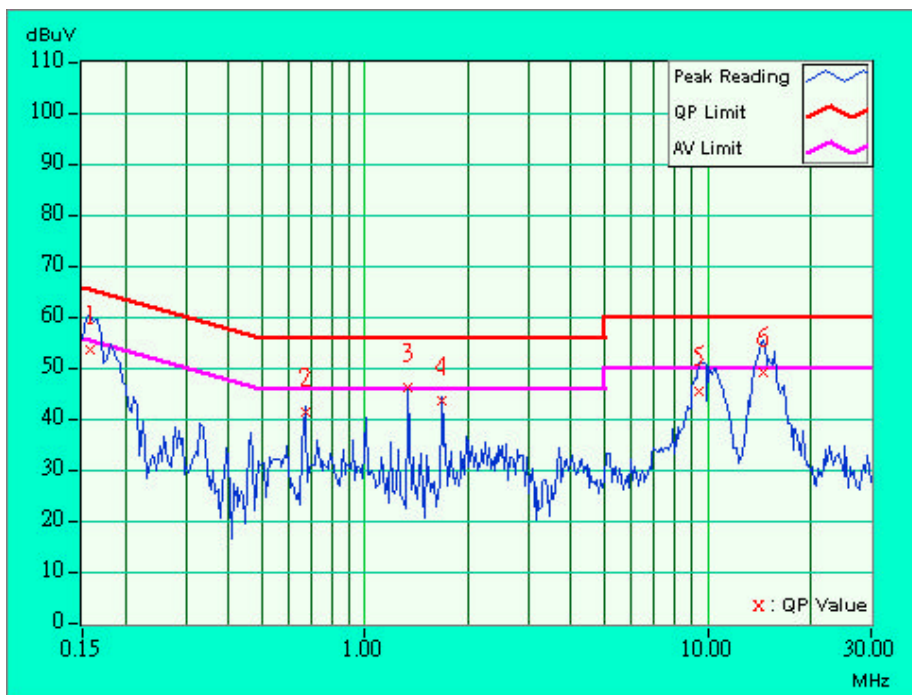


4.1.7 TEST RESULTS

| | | | |
|---------------------------------|---------------------------|----------------------|------------|
| EUT | Wireless LAN Access Point | | |
| MODEL | A300-2 | | |
| MODE | Channel 11 | 6dB BANDWIDTH | 9 kHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | PHASE | Line (L) |
| ENVIRONMENTAL CONDITIONS | 27deg. C, 69%RH, 969 hPa | TESTED BY | Larry Peng |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----------|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|--------------|----------------|--------|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| | 1 | 0.158 | 0.20 | 52.78 | - | 52.98 | - | 65.58 | 55.58 | -12.60 |
| 2 | 0.670 | 0.24 | 40.31 | - | 40.55 | - | 56.00 | 46.00 | -15.45 | - |
| 3 | 1.338 | 0.30 | 45.12 | - | 45.42 | - | 56.00 | 46.00 | -10.58 | - |
| 4 | 1.673 | 0.30 | 42.80 | - | 43.10 | - | 56.00 | 46.00 | -12.90 | - |
| 5 | 9.473 | 0.76 | 44.31 | - | 45.07 | - | 60.00 | 50.00 | -14.93 | - |
| 6 | 14.570 | 1.07 | 48.25 | - | 49.32 | - | 60.00 | 50.00 | -10.68 | - |

- NOTES: (1) "": Undetectable
 (2) Q.P. and AV. are abbreviations of quasi-peak and average.
 (3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
 (4) The emission levels of other frequencies were very low against the limit.
 (5) Correction Factor = Insertion loss + Cable loss
 (6) Margin value = Emission level - Limit value

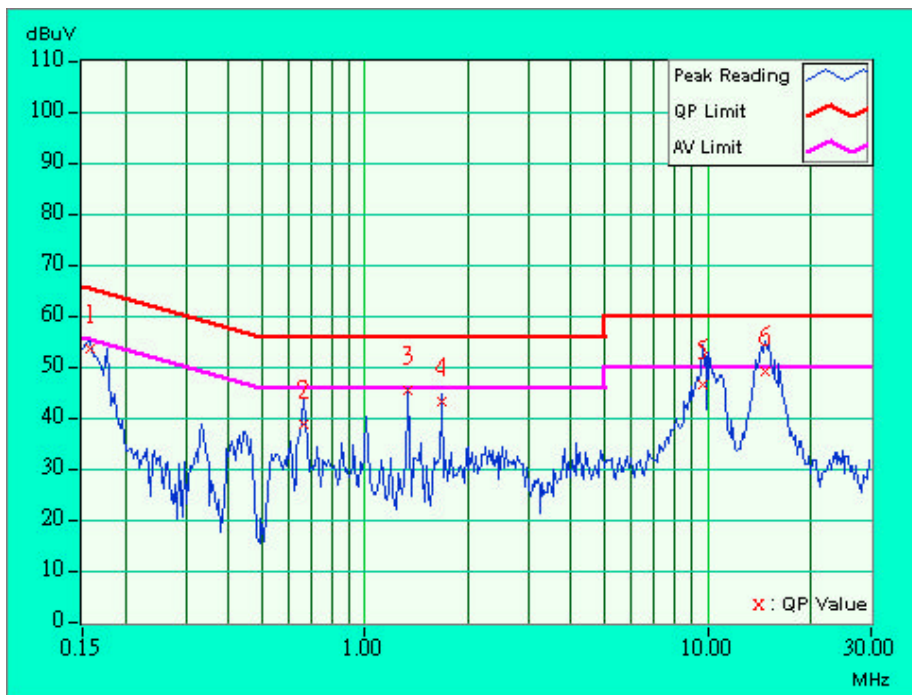




| | | | |
|---------------------------------|---------------------------|----------------------|-------------|
| EUT | Wireless LAN Access Point | | |
| MODEL | A300-2 | | |
| MODE | Channel 11 | 6dB BANDWIDTH | 9 kHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | PHASE | Neutral (N) |
| ENVIRONMENTAL CONDITIONS | 27deg. C, 69%RH, 969 hPa | TESTED BY | Larry Peng |

| No | Freq. [MHz] | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|--------|---------------|------|----------------|------|-----------|-------|--------|---|
| | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | |
| 1 | 0.158 | 0.20 | 52.77 | - | 52.97 | - | 65.58 | 55.58 | -12.61 | - |
| 2 | 0.666 | 0.24 | 38.11 | - | 38.35 | - | 56.00 | 46.00 | -17.65 | - |
| 3 | 1.338 | 0.30 | 44.81 | - | 45.11 | - | 56.00 | 46.00 | -10.89 | - |
| 4 | 1.673 | 0.30 | 42.54 | - | 42.84 | - | 56.00 | 46.00 | -13.16 | - |
| 5 | 9.676 | 0.68 | 45.71 | - | 46.39 | - | 60.00 | 50.00 | -13.61 | - |
| 6 | 14.727 | 0.89 | 48.21 | - | 49.10 | - | 60.00 | 50.00 | -10.90 | - |

- NOTES: (1) "": Undetectable
 (2) Q.P. and AV. are abbreviations of quasi-peak and average.
 (3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
 (4) The emission levels of other frequencies were very low against the limit.
 (5) Correction Factor = Insertion loss + Cable loss
 (6) Margin value = Emission level - Limit value





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 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.



4.2.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED UNTIL |
|---------------------------------------|-----------|-------------------------|------------------|
| HP Spectrum Analyzer | 8594ER | 3829U04676 | Jul. 14, 2004 |
| ADVANTEST Spectrum Analyzer | R3271A | 85060311 | May 21, 2004 |
| CHASE RF Pre_Amplifier | CPA9232 | 1057 | Apr. 24, 2004 |
| HP Pre_Amplifier | 8449B | 3008A01281 | June 27, 2004 |
| ROHDE & SCHWARZ Test Receiver | ESVS 10 | 849231 /019 | Nov. 03, 2003 |
| CHASE Broadband Antenna | CBL6111c | 2730 | Jul 17, 2004 |
| Schwarzbeck Horn_Antenna | 3115 | 5619 | Jul. 17, 2004 |
| SCHWARZBECK Tunable Dipole Antenna | UHAP | 897 | Mar. 07, 2005 |
| SCHWARZBECK Tunable Dipole Antenna | VHAP | 880 | Mar. 07, 2005 |
| RF Switches (ARNITSU) | CS-201 | 1565157 | Dec. 01, 2003 |
| RF CABLE (Chaintek) 1GHz-20GHz | SF102 | 22054-2 | Feb. 10. 2004 |
| RF Cable(RICHTEC) | 9913-30M | STCCAB-30M-1GH z-021 | Nov. 5, 2003 |
| Software | AS60P8 | 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 Tunable Dipole Antenna) and the calibrations are traceable to NML/ROC and NIST/USA.

2. * = These equipment are used for the final measurement.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The test was performed in ADT Open Site No. C.
5. The FCC Site Registration No. is 656396.
6. The VCCI Site Registration No. is R-1626.
7. The CANADA Site Registration No. is IC 3789-C.



4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. 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 10 dB 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 10 dB margin would be re-tested one by one using the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

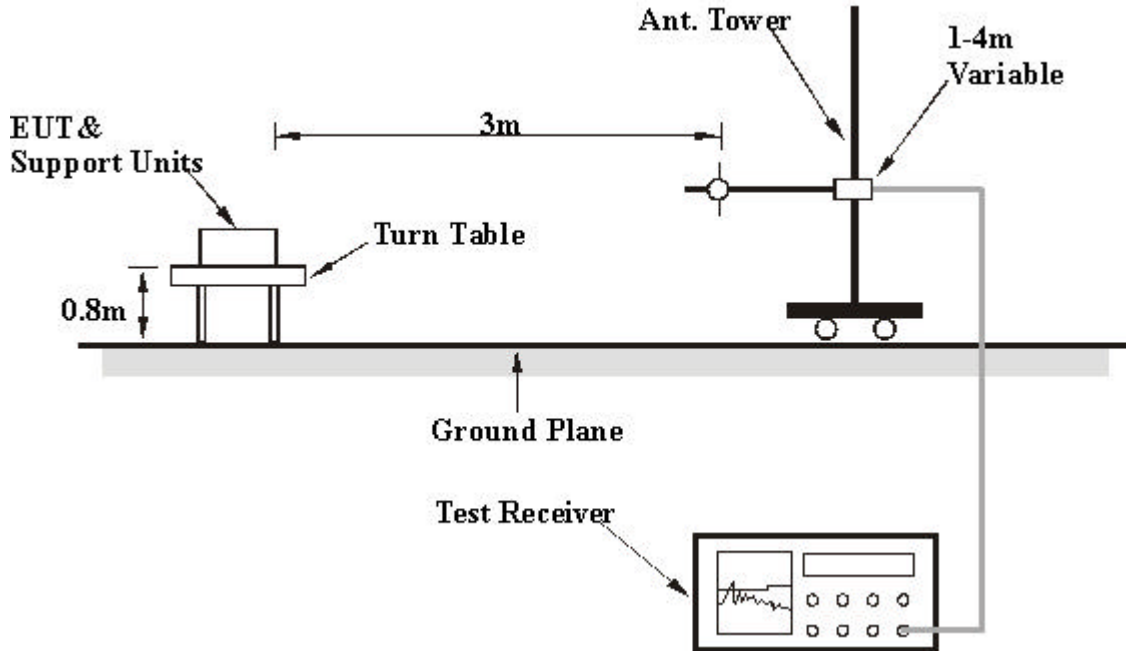
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 300 Hz for Average detection (AV) at frequency above 1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

4.2.7 TEST RESULTS(A)

| | | | |
|---------------------------------|---------------------------|--------------------------|----------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| MODE | Channel 11 | FREQUENCY RANGE | Below 1000 MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 29deg. C, 56%RH, 969 hPa | TESTED BY | Eric Lee |

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 | 52.00 | 24.9 QP | 40.00 | -15.10 | 2.17 H | 25 | 17.30 | 7.60 |
| 2 | 60.25 | 22.1 QP | 40.00 | -17.90 | 1.68 H | 0 | 16.90 | 5.20 |
| 3 | 124.95 | 25.4 QP | 43.50 | -18.10 | 1.13 H | 169 | 13.30 | 12.00 |
| 4 | 220.16 | 24.8 QP | 46.00 | -21.20 | 1.00 H | 42 | 15.30 | 9.40 |
| 5 | 249.85 | 27.6 QP | 46.00 | -18.40 | 1.42 H | 199 | 14.60 | 13.00 |
| 6 | 264.49 | 32.9 QP | 46.00 | -13.10 | 1.39 H | 68 | 18.90 | 14.00 |
| 7 | 351.63 | 29.4 QP | 46.00 | -16.60 | 1.07 H | 190 | 13.90 | 15.50 |
| 8 | 374.98 | 31.8 QP | 46.00 | -14.20 | 1.10 H | 140 | 15.60 | 16.20 |
| 9 | 500.13 | 33.4 QP | 46.00 | -12.60 | 1.35 H | 29 | 14.10 | 19.30 |
| 10 | 527.53 | 39.0 QP | 46.00 | -7.00 | 1.84 H | 323 | 19.40 | 19.60 |

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 | 50.50 | 32.4 QP | 40.00 | -7.60 | 1.48 V | 229 | 24.10 | 8.30 |
| 2 | 56.13 | 30.4 QP | 40.00 | -9.60 | 1.25 V | 161 | 24.10 | 6.40 |
| 3 | 69.01 | 36.7 QP | 40.00 | -3.30 | 1.61 V | 345 | 31.00 | 5.80 |
| 4 | 71.10 | 32.8 QP | 40.00 | -7.20 | 1.66 V | 119 | 26.70 | 6.10 |
| 5 | 124.96 | 26.6 QP | 43.50 | -16.90 | 1.02 V | 25 | 14.60 | 12.00 |
| 6 | 250.02 | 27.0 QP | 46.00 | -19.00 | 1.00 V | 12 | 14.00 | 13.00 |
| 7 | 264.45 | 28.1 QP | 46.00 | -17.90 | 1.36 V | 37 | 14.00 | 14.00 |
| 8 | 374.72 | 32.2 QP | 46.00 | -13.80 | 1.00 V | 351 | 16.00 | 16.20 |
| 9 | 396.33 | 33.1 QP | 46.00 | -12.90 | 1.43 V | 344 | 16.10 | 17.00 |
| 10 | 500.23 | 33.9 QP | 46.00 | -12.10 | 1.38 V | 37 | 14.60 | 19.30 |
| 11 | 527.52 | 39.9 QP | 46.00 | -6.10 | 1.50 V | 174 | 20.30 | 19.60 |
| 12 | 625.37 | 32.6 QP | 46.00 | -13.40 | 1.14 V | 27 | 10.90 | 21.70 |

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



TEST RESULTS (A)- DSSS

| | | | |
|---------------------------------|-----------------------------|--------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| MODE | Channel 1 | FREQUENCY RANGE | 1000MHz~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 17deg. C, 68%RH, 969 hPa | TESTED BY | Eric Lee |

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 | 2368.00 | 53.9 PK | 74.00 | -20.10 | 1.03 H | 25 | 24.20 | 29.70 |
| 1 | 2368.00 | 41.9 AV | 54.00 | -12.10 | 1.03 H | 25 | 12.20 | 29.70 |
| 2 | 2390.00 | 54.4 PK | 74.00 | -19.60 | 1.08 H | 333 | 24.60 | 29.80 |
| 2 | 2390.00 | 45.5 AV | 54.00 | -8.50 | 1.08 H | 333 | 15.70 | 29.80 |
| 3 | *2412.00 | 100.2 PK | | | 1.56 H | 132 | 70.30 | 29.90 |
| 3 | *2412.00 | 93.9 AV | | | 1.56 H | 132 | 64.00 | 29.90 |
| 4 | 4824.00 | 39.6 PK | 74.00 | -34.40 | 1.02 H | 25 | 3.30 | 36.20 |
| 4 | 4824.00 | 28.6 AV | 54.00 | -25.40 | 1.02 H | 25 | 3.30 | 36.20 |
| 5 | 7236.00 | 45.9 PK | 74.00 | -28.10 | 1.45 H | 21 | 4.20 | 41.70 |
| 5 | 7236.00 | 35.9 AV | 54.00 | -18.10 | 1.45 H | 21 | 4.20 | 41.70 |
| 6 | 9648.00 | 46.4 PK | 74.00 | -27.60 | 1.44 H | 101 | 1.50 | 44.90 |
| 6 | 9648.00 | 36.9 AV | 54.00 | -17.10 | 1.44 H | 101 | 1.50 | 44.90 |

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 | 2368.00 | 59.9 PK | 74.00 | -14.10 | 1.14 V | 304 | 30.20 | 29.70 |
| 1 | 2368.00 | 50.5 AV | 54.00 | -3.50 | 1.14 V | 304 | 20.80 | 29.70 |
| 2 | 2390.00 | 61.2 PK | 74.00 | -12.80 | 1.40 V | 25 | 31.40 | 29.80 |
| 2 | 2390.00 | 53.1 AV | 54.00 | -0.90 | 1.40 V | 25 | 23.30 | 29.80 |
| 3 | *2412.00 | 107.9 PK | | | 1.03 V | 32 | 78.00 | 29.90 |
| 3 | *2412.00 | 100.8 AV | | | 1.03 V | 32 | 70.90 | 29.90 |
| 4 | 4824.00 | 42.9 PK | 74.00 | -31.10 | 1.02 V | 65 | 6.60 | 36.20 |
| 4 | 4824.00 | 30.8 AV | 54.00 | -23.20 | 1.02 V | 65 | 6.60 | 36.20 |
| 5 | 7236.00 | 49.3 PK | 74.00 | -24.70 | 1.87 V | 54 | 7.70 | 41.70 |
| 5 | 7236.00 | 38.3 AV | 54.00 | -15.70 | 1.87 V | 54 | 7.70 | 41.70 |
| 6 | 9648.00 | 51.1 PK | 74.00 | -22.90 | 1.64 V | 319 | 6.20 | 44.90 |
| 6 | 9648.00 | 40.5 AV | 54.00 | -13.50 | 1.64 V | 319 | -4.40 | 36.20 |

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



| | | | |
|---------------------------------|-----------------------------|--------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| MODE | Channel 6 | FREQUENCY RANGE | 1000MHz~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 26deg. C, 67%RH, 969 hPa | TESTED BY | Eric Lee |

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 | 2384.00 | 52.90 PK | 74.00 | -21.10 | 1.05 H | 42 | 22.50 | 30.40 |
| 1 | 2384.00 | 43.60 AV | 54.00 | -10.40 | 1.05 H | 42 | 13.20 | 30.40 |
| 2 | *2437.00 | 106.50 PK | | | 1.69 H | 98 | 75.80 | 30.70 |
| 2 | *2437.00 | 96.90 AV | | | 1.69 H | 98 | 66.20 | 30.70 |
| 3 | 2494.00 | 54.40 PK | 74.00 | -19.60 | 1.59 H | 353 | 23.60 | 30.80 |
| 3 | 2494.00 | 45.40 AV | 54.00 | -8.60 | 1.59 H | 353 | 14.60 | 30.80 |
| 4 | 4874.00 | 41.70 PK | 74.00 | -32.30 | 1.70 H | 215 | 5.20 | 36.50 |
| 5 | 7311.00 | 46.90 PK | 74.00 | -27.10 | 1.02 H | 29 | 5.10 | 41.80 |
| 6 | 9748.00 | 50.50 PK | 74.00 | -23.50 | 1.63 H | 261 | 5.90 | 44.60 |

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 | 2384.00 | 59.20 PK | 74.00 | -14.80 | 1.45 V | 7 | 28.80 | 30.40 |
| 1 | 2384.00 | 51.00 AV | 54.00 | -3.00 | 1.45 V | 7 | 20.60 | 30.40 |
| 2 | *2437.00 | 111.00 PK | | | 1.03 V | 50 | 80.30 | 30.70 |
| 2 | *2437.00 | 102.90 AV | | | 1.03 V | 50 | 72.20 | 30.70 |
| 3 | 2494.00 | 61.20 PK | 74.00 | -12.80 | 1.56 V | 96 | 30.40 | 30.80 |
| 3 | 2494.00 | 52.90 AV | 54.00 | -1.10 | 1.56 V | 96 | 22.10 | 30.80 |
| 4 | 4874.00 | 45.40 PK | 74.00 | -28.60 | 1.45 V | 213 | 8.90 | 36.50 |
| 5 | 7311.00 | 50.00 PK | 74.00 | -24.00 | 1.06 V | 9 | 8.20 | 41.80 |
| 6 | 9748.00 | 53.70 PK | 74.00 | -20.30 | 1.05 V | 241 | 9.10 | 44.60 |
| 6 | 9748.00 | 42.50 AV | 54.00 | -11.50 | 1.05 V | 241 | -2.10 | 44.60 |

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



| | | | |
|---------------------------------|-----------------------------|--------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| MODE | Channel 11 | FREQUENCY RANGE | 1000MHz~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 17deg. C, 68%RH, 969 hPa | TESTED BY | Eric Lee |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

| 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 | *2462.00 | 100.2 PK | | | 1.04 H | 25 | 70.10 | 30.10 |
| 1 | *2462.00 | 93.3 AV | | | 1.04 H | 25 | 63.20 | 30.10 |
| 2 | 2483.50 | 54.4 PK | 74.00 | -19.60 | 1.42 H | 25 | 24.20 | 30.10 |
| 2 | 2483.50 | 43.3 AV | 54.00 | -10.70 | 1.42 H | 25 | 13.20 | 30.10 |
| 3 | 4924.00 | 38.8 PK | 74.00 | -35.20 | 1.45 H | 247 | 2.10 | 36.70 |
| 3 | 4924.00 | 28.8 AV | 54.00 | -25.20 | 1.45 H | 247 | 2.10 | 36.70 |
| 4 | 7386.00 | 45.2 PK | 74.00 | -28.80 | 1.45 H | 247 | 3.30 | 41.80 |
| 4 | 7386.00 | 35.7 AV | 54.00 | -18.30 | 1.45 H | 247 | 3.30 | 41.80 |
| 5 | 9848.00 | 49.4 PK | 74.00 | -24.60 | 1.52 H | 324 | 5.00 | 44.40 |
| 5 | 9848.00 | 37.8 AV | 54.00 | -16.20 | 1.52 H | 324 | 5.00 | 44.40 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

| 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 | *2462.00 | 107.2 PK | | | 1.05 V | 326 | 77.10 | 30.10 |
| 1 | *2462.00 | 101.0 AV | | | 1.05 V | 326 | 70.90 | 30.10 |
| 2 | 2483.50 | 60.3 PK | 74.00 | -13.70 | 1.08 V | 208 | 30.20 | 30.10 |
| 2 | 2483.50 | 53.0 AV | 54.00 | -1.00 | 1.08 V | 208 | 22.90 | 30.10 |
| 3 | 4924.00 | 43.8 PK | 74.00 | -30.20 | 1.25 V | 352 | 7.10 | 36.70 |
| 3 | 4924.00 | 33.0 AV | 54.00 | -21.00 | 1.25 V | 352 | 7.10 | 36.70 |
| 4 | 7386.00 | 48.2 PK | 74.00 | -25.80 | 1.40 V | 141 | 6.40 | 41.80 |
| 4 | 7386.00 | 38.3 AV | 54.00 | -15.70 | 1.40 V | 141 | 6.40 | 41.80 |
| 5 | 9848.00 | 50.4 PK | 74.00 | -23.60 | 1.46 V | 352 | 6.00 | 44.40 |
| 5 | 9848.00 | 39.4 AV | 54.00 | -14.60 | 1.46 V | 352 | 6.00 | 44.40 |

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



TEST RESULTS (A)- OFDM

| | | | |
|---------------------------------|-----------------------------|--------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| MODE | Channel 1 | FREQUENCY RANGE | 1000MHz~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 28deg. C, 56%RH, 969 hPa | TESTED BY | Eric Lee |

| 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 | 2368.00 | 51.3 PK | 74.00 | -22.70 | 1.23 H | 65 | 21.60 | 29.70 |
| 1 | 2368.00 | 41.3 AV | 54.00 | -12.70 | 1.23 H | 65 | 11.60 | 29.70 |
| 2 | 2390.00 | 54.4 PK | 74.00 | -19.60 | 1.54 H | 8 | 24.60 | 29.80 |
| 2 | 2390.00 | 46.0 AV | 54.00 | -8.00 | 1.54 H | 8 | 16.20 | 29.80 |
| 3 | *2412.00 | 96.0 PK | | | 1.03 H | 140 | 66.10 | 29.90 |
| 3 | *2412.00 | 86.8 AV | | | 1.03 H | 140 | 56.90 | 29.90 |
| 4 | 4824.00 | 37.5 PK | 74.00 | -36.50 | 1.01 H | 21 | 1.30 | 36.20 |
| 4 | 4824.00 | 27.3 AV | 54.00 | -26.70 | 1.01 H | 21 | 1.30 | 36.20 |
| 5 | 7236.00 | 42.8 PK | 74.00 | -31.20 | 1.47 H | 54 | 1.20 | 41.70 |
| 5 | 7236.00 | 34.3 AV | 54.00 | -19.70 | 1.47 H | 54 | 1.20 | 41.70 |
| 6 | 9648.00 | 46.5 PK | 74.00 | -27.50 | 1.03 H | 352 | 1.60 | 44.90 |
| 6 | 9648.00 | 36.5 AV | 54.00 | -17.50 | 1.03 H | 352 | 1.60 | 44.90 |

| 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 | 2368.00 | 58.1 PK | 74.00 | -15.90 | 1.23 V | 41 | 28.40 | 29.70 |
| 1 | 2368.00 | 49.3 AV | 54.00 | -4.70 | 1.23 V | 41 | 19.60 | 29.70 |
| 2 | 2390.00 | 61.9 PK | 74.00 | -12.10 | 1.25 V | 24 | 32.10 | 29.80 |
| 2 | 2390.00 | 52.1 AV | 54.00 | -1.90 | 1.25 V | 24 | 22.30 | 29.80 |
| 3 | *2412.00 | 102.4 PK | | | 1.05 V | 22 | 72.50 | 29.90 |
| 3 | *2412.00 | 93.8 AV | | | 1.05 V | 22 | 63.90 | 29.90 |
| 4 | 4824.00 | 41.7 PK | 74.00 | -32.30 | 1.00 V | 21 | 5.50 | 36.20 |
| 4 | 4824.00 | 30.4 AV | 54.00 | -23.60 | 1.00 V | 21 | 5.50 | 36.20 |
| 5 | 7236.00 | 48.2 PK | 74.00 | -25.80 | 1.01 V | 21 | 6.50 | 41.70 |
| 5 | 7236.00 | 36.6 AV | 54.00 | -17.40 | 1.01 V | 21 | 6.50 | 41.70 |
| 6 | 9648.00 | 49.7 PK | 74.00 | -24.30 | 1.09 V | 0 | 4.80 | 44.90 |
| 6 | 9648.00 | 38.4 AV | 54.00 | -15.60 | 1.09 V | 0 | 4.80 | 44.90 |

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



| | | | |
|---------------------------------|-----------------------------|--------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| MODE | Channel 6 | FREQUENCY RANGE | 1000MHz~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 26deg. C, 61%RH, 969 hPa | TESTED BY | Eric Lee |

| 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 | 2384.00 | 51.00 PK | 74.00 | -23.00 | 1.75 H | 65 | 20.60 | 30.40 |
| 1 | 2384.00 | 44.20 AV | 54.00 | -9.80 | 1.75 H | 65 | 13.80 | 30.40 |
| 2 | 2390.00 | 52.40 PK | 74.00 | -21.60 | 1.26 H | 256 | 22.00 | 30.40 |
| 2 | 2390.00 | 41.60 AV | 54.00 | -12.40 | 1.26 H | 256 | 11.20 | 30.40 |
| 3 | *2437.00 | 102.00 PK | | | 1.54 H | 26 | 71.30 | 30.70 |
| 3 | *2437.00 | 92.70 AV | | | 1.54 H | 26 | 62.00 | 30.70 |
| 4 | 2483.50 | 52.10 PK | 74.00 | -21.90 | 1.02 H | 78 | 21.20 | 31.00 |
| 4 | 2483.50 | 43.20 AV | 54.00 | -10.80 | 1.02 H | 78 | 12.20 | 31.00 |
| 5 | 4874.00 | 42.60 PK | 74.00 | -31.40 | 1.45 H | 54 | 6.10 | 36.50 |
| 6 | 7311.00 | 47.10 PK | 74.00 | -26.90 | 1.54 H | 226 | 5.40 | 41.80 |
| 7 | 9748.00 | 52.60 PK | 74.00 | -21.40 | 1.06 H | 98 | 8.00 | 44.60 |
| 7 | 9748.00 | 41.00 AV | 54.00 | -13.00 | 1.06 H | 98 | -3.60 | 44.60 |

| 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 | 2384.00 | 62.10 PK | 74.00 | -11.90 | 1.10 V | 64 | 31.70 | 30.40 |
| 1 | 2384.00 | 53.00 AV | 54.00 | -1.00 | 1.10 V | 64 | 22.60 | 30.40 |
| 2 | 2390.00 | 59.60 PK | 74.00 | -14.40 | 1.10 V | 23 | 29.10 | 30.40 |
| 2 | 2390.00 | 49.90 AV | 54.00 | -4.10 | 1.10 V | 23 | 19.40 | 30.40 |
| 3 | *2437.00 | 108.60 PK | | | 1.01 V | 49 | 78.00 | 30.70 |
| 3 | *2437.00 | 99.90 AV | | | 1.01 V | 49 | 69.20 | 30.70 |
| 4 | 2483.50 | 59.80 PK | 74.00 | -14.20 | 1.12 V | 16 | 28.90 | 31.00 |
| 4 | 2483.50 | 50.60 AV | 54.00 | -3.40 | 1.12 V | 16 | 19.60 | 31.00 |
| 5 | 4874.00 | 46.80 PK | 74.00 | -27.20 | 1.54 V | 24 | 10.30 | 36.50 |
| 6 | 7311.00 | 50.90 PK | 74.00 | -23.10 | 1.50 V | 5 | 9.10 | 41.80 |
| 7 | 9748.00 | 54.20 PK | 74.00 | -19.80 | 1.42 V | 26 | 9.60 | 44.60 |
| 7 | 9748.00 | 42.70 AV | 54.00 | -11.30 | 1.42 V | 26 | -1.90 | 44.60 |

NOTE:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value
5. The limit value is defined as per 15.247
6. “ * “ : Fundamental frequency



| | | | |
|---------------------------------|-----------------------------|--------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| MODE | Channel 11 | FREQUENCY RANGE | 1000MHz~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 28deg. C, 56%RH, 969 hPa | TESTED BY | Eric Lee |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M | | | | | | | | |
|----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 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 | *2462.00 | 93.5 PK | | | 1.08 H | 352 | 63.50 | 30.10 |
| 1 | *2462.00 | 83.3 AV | | | 1.08 H | 352 | 53.30 | 30.10 |
| 2 | 2483.50 | 54.3 PK | 74.00 | -19.70 | 1.02 H | 35 | 24.20 | 30.10 |
| 2 | 2483.50 | 45.3 AV | 54.00 | -8.70 | 1.02 H | 35 | 15.20 | 30.10 |
| 3 | 4924.00 | 38.7 PK | 74.00 | -35.30 | 1.02 H | 24 | 2.00 | 36.70 |
| 3 | 4924.00 | 29.2 AV | 54.00 | -24.80 | 1.02 H | 24 | 2.00 | 36.70 |
| 4 | 7386.00 | 44.6 PK | 74.00 | -29.40 | 1.08 H | 333 | 2.70 | 41.80 |
| 4 | 7386.00 | 33.6 AV | 54.00 | -20.40 | 1.08 H | 333 | 2.70 | 41.80 |
| 5 | 9848.00 | 48.1 PK | 74.00 | -25.90 | 1.07 H | 131 | 3.70 | 44.40 |
| 5 | 9848.00 | 37.2 AV | 54.00 | -16.80 | 1.07 H | 131 | 3.70 | 44.40 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M | | | | | | | | |
|--------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 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 | *2462.00 | 102.1 PK | | | 1.11 V | 312 | 72.00 | 30.10 |
| 1 | *2462.00 | 94.1 AV | | | 1.11 V | 312 | 64.00 | 30.10 |
| 2 | 2483.50 | 61.2 PK | 74.00 | -12.80 | 1.40 V | 269 | 31.10 | 30.10 |
| 2 | 2483.50 | 52.9 AV | 54.00 | -1.10 | 1.40 V | 269 | 22.80 | 30.10 |
| 3 | 4924.00 | 42.8 PK | 74.00 | -31.20 | 1.23 V | 35 | 6.10 | 36.70 |
| 3 | 4924.00 | 32.8 AV | 54.00 | -21.20 | 1.23 V | 35 | 6.10 | 36.70 |
| 4 | 7386.00 | 49.2 PK | 74.00 | -24.80 | 1.24 V | 96 | 7.30 | 41.80 |
| 4 | 7386.00 | 38.5 AV | 54.00 | -15.50 | 1.24 V | 96 | 7.30 | 41.80 |
| 5 | 9848.00 | 49.3 PK | 74.00 | -24.70 | 1.05 V | 301 | 5.00 | 44.40 |
| 5 | 9848.00 | 40.8 AV | 54.00 | -13.20 | 1.05 V | 301 | 5.00 | 44.40 |

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency

4.2.8 TEST RESULTS (B)

| | | | |
|---------------------------------|---------------------------|--------------------------|----------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| MODE | Channel 11 | FREQUENCY RANGE | Below 1000 MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 29deg. C, 56%RH, 969 hPa | TESTED BY | Eric Lee |

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 | 40.36 | 31.6 QP | 40.00 | -8.40 | 1.03 H | 62 | 18.00 | 13.60 |
| 2 | 45.68 | 25.1 QP | 40.00 | -14.90 | 1.19 H | 154 | 14.30 | 10.90 |
| 3 | 60.32 | 18.9 QP | 40.00 | -21.10 | 1.23 H | 256 | 13.70 | 5.20 |
| 4 | 125.34 | 24.6 QP | 43.50 | -18.90 | 1.15 H | 47 | 12.50 | 12.00 |
| 5 | 220.41 | 29.1 QP | 46.00 | -16.90 | 1.65 H | 71 | 19.70 | 9.40 |
| 6 | 250.00 | 31.3 QP | 46.00 | -14.70 | 1.67 H | 94 | 18.30 | 13.00 |
| 7 | 308.00 | 24.6 QP | 46.00 | -21.40 | 1.68 H | 9 | 10.30 | 14.30 |
| 8 | 351.89 | 31.9 QP | 46.00 | -14.10 | 1.02 H | 41 | 16.40 | 15.50 |
| 9 | 375.21 | 31.8 QP | 46.00 | -14.20 | 1.95 H | 321 | 15.60 | 16.20 |
| 10 | 396.24 | 37.2 QP | 46.00 | -8.80 | 1.42 H | 125 | 20.20 | 17.00 |
| 11 | 480.02 | 32.5 QP | 46.00 | -13.50 | 1.52 H | 142 | 13.70 | 18.90 |
| 12 | 500.00 | 35.0 QP | 46.00 | -11.00 | 1.32 H | 50 | 15.70 | 19.30 |
| 13 | 528.30 | 41.8 QP | 46.00 | -4.20 | 1.87 H | 59 | 22.20 | 19.60 |
| 14 | 625.20 | 34.0 QP | 46.00 | -12.00 | 1.42 H | 301 | 12.20 | 21.70 |

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 | 46.35 | 27.7 QP | 40.00 | -12.30 | 1.54 V | 21 | 17.30 | 10.50 |
| 2 | 61.26 | 29.2 QP | 40.00 | -10.80 | 1.00 V | 62 | 24.00 | 5.20 |
| 3 | 70.00 | 29.6 QP | 40.00 | -10.40 | 1.47 V | 58 | 23.70 | 5.90 |
| 4 | 125.01 | 33.6 QP | 43.50 | -9.90 | 1.44 V | 55 | 21.60 | 12.00 |
| 5 | 220.32 | 28.8 QP | 46.00 | -17.20 | 1.16 V | 326 | 19.30 | 9.40 |
| 6 | 250.23 | 34.0 QP | 46.00 | -12.00 | 1.69 V | 356 | 21.00 | 13.00 |
| 7 | 308.11 | 27.6 QP | 46.00 | -18.40 | 1.56 V | 357 | 13.20 | 14.30 |
| 8 | 352.02 | 32.2 QP | 46.00 | -13.80 | 1.06 V | 9 | 16.70 | 15.50 |
| 9 | 375.32 | 31.9 QP | 46.00 | -14.10 | 1.40 V | 154 | 15.70 | 16.20 |
| 10 | 396.21 | 33.9 QP | 46.00 | -12.10 | 1.45 V | 269 | 16.90 | 17.00 |
| 11 | 500.01 | 36.8 QP | 46.00 | -9.20 | 1.11 V | 58 | 17.50 | 19.30 |
| 12 | 528.34 | 41.9 QP | 46.00 | -4.10 | 1.03 V | 69 | 22.30 | 19.60 |

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



TEST RESULTS (B)- DSSS

| | | | |
|---------------------------------|-----------------------------|--------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| MODE | Channel 1 | FREQUENCY RANGE | 1000MHz~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 17deg. C, 68%RH, 969 hPa | TESTED BY | Eric Lee |

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 | 2336.00 | 49.2 PK | 74.00 | -24.80 | 1.26 H | 320 | 18.50 | 30.70 |
| 2 | 2368.00 | 52.2 PK | 74.00 | -21.80 | 1.47 H | 54 | 21.40 | 30.80 |
| 2 | 2368.00 | 43.4 AV | 54.00 | -10.60 | 1.47 H | 54 | 12.60 | 30.80 |
| 3 | 2390.00 | 51.2 PK | 74.00 | -22.80 | 1.25 H | 41 | 20.30 | 30.90 |
| 3 | 2390.00 | 42.1 AV | 54.00 | -11.90 | 1.25 H | 41 | 11.20 | 30.90 |
| 4 | *2412.00 | 97.2 PK | | | 1.54 H | 56 | 66.20 | 31.00 |
| 4 | *2412.00 | 91.2 AV | | | 1.54 H | 56 | 60.20 | 31.00 |
| 5 | 2560.00 | 47.3 PK | 74.00 | -26.70 | 1.75 H | 84 | 15.90 | 31.40 |
| 6 | 4824.00 | 44.5 PK | 74.00 | -29.50 | 1.26 H | 54 | 8.20 | 36.30 |
| 7 | 7236.00 | 45.8 PK | 74.00 | -28.20 | 1.45 H | 47 | 4.10 | 41.70 |
| 8 | 9648.00 | 46.8 PK | 74.00 | -27.20 | 1.02 H | 88 | 2.70 | 44.20 |

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 | 2336.00 | 59.7 PK | 74.00 | -14.30 | 1.03 V | 69 | 29.00 | 30.70 |
| 1 | 2336.00 | 50.1 AV | 54.00 | -3.90 | 1.03 V | 69 | 19.40 | 30.70 |
| 2 | 2368.00 | 61.2 PK | 74.00 | -12.80 | 1.45 V | 21 | 30.40 | 30.80 |
| 2 | 2368.00 | 51.8 AV | 54.00 | -2.20 | 1.45 V | 21 | 21.00 | 30.80 |
| 3 | 2390.00 | 60.0 PK | 74.00 | -14.00 | 1.02 V | 214 | 29.10 | 30.90 |
| 3 | 2390.00 | 51.2 AV | 54.00 | -2.80 | 1.02 V | 214 | 20.30 | 30.90 |
| 4 | *2412.00 | 107.2 PK | | | 1.00 V | 356 | 76.20 | 31.00 |
| 4 | *2412.00 | 99.2 AV | | | 1.00 V | 356 | 68.20 | 31.00 |
| 5 | 2560.00 | 56.4 PK | 74.00 | -17.60 | 1.15 V | 10 | 25.00 | 31.40 |
| 5 | 2560.00 | 49.4 AV | 54.00 | -4.60 | 1.15 V | 10 | 18.00 | 31.40 |
| 6 | 4824.00 | 47.5 PK | 74.00 | -26.50 | 1.45 V | 24 | 11.20 | 36.30 |
| 7 | 7236.00 | 44.4 PK | 74.00 | -29.60 | 1.03 V | 54 | 2.70 | 41.70 |
| 8 | 9648.00 | 49.9 PK | 74.00 | -24.10 | 1.44 V | 77 | 5.70 | 44.20 |

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



| | | | |
|---------------------------------|-----------------------------|--------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| MODE | Channel 6 | FREQUENCY RANGE | 1000MHz~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 17deg. C, 68%RH, 969 hPa | TESTED BY | Eric Lee |

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 | 2320.00 | 46.40 PK | 74.00 | -27.60 | 1.74 H | 54 | 16.20 | 30.20 |
| 2 | 2390.00 | 48.60 PK | 74.00 | -25.40 | 1.06 H | 63 | 18.20 | 30.40 |
| 3 | *2437.00 | 101.70 PK | | | 1.52 H | 45 | 71.00 | 30.70 |
| 3 | *2437.00 | 93.90 AV | | | 1.52 H | 45 | 63.20 | 30.70 |
| 4 | 2483.50 | 50.20 PK | 74.00 | -23.80 | 1.42 H | 201 | 19.30 | 31.00 |
| 5 | 2928.00 | 47.90 PK | 74.00 | -26.10 | 1.54 H | 214 | 16.00 | 32.00 |
| 6 | 4874.00 | 45.70 PK | 74.00 | -28.30 | 1.56 H | 35 | 9.20 | 36.50 |
| 7 | 7311.00 | 48.00 PK | 74.00 | -26.00 | 1.02 H | 41 | 6.20 | 41.80 |
| 8 | 9748.00 | 47.60 PK | 74.00 | -26.40 | 1.66 H | 3 | 3.00 | 44.60 |

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 | 2320.00 | 54.40 PK | 74.00 | -19.60 | 1.02 V | 35 | 24.20 | 30.20 |
| 1 | 2320.00 | 45.00 AV | 54.00 | -9.00 | 1.02 V | 35 | 14.80 | 30.20 |
| 2 | 2390.00 | 58.60 PK | 74.00 | -15.40 | 1.20 V | 12 | 28.20 | 30.40 |
| 2 | 2390.00 | 46.60 AV | 54.00 | -7.40 | 1.20 V | 12 | 16.20 | 30.40 |
| 3 | *2437.00 | 110.50 PK | | | 1.44 V | 13 | 79.80 | 30.70 |
| 3 | *2437.00 | 102.70 AV | | | 1.44 V | 13 | 72.00 | 30.70 |
| 4 | 2483.50 | 57.10 PK | 74.00 | -16.90 | 1.19 V | 30 | 26.10 | 31.00 |
| 4 | 2483.50 | 46.20 AV | 54.00 | -7.80 | 1.19 V | 30 | 15.30 | 31.00 |
| 5 | 2928.00 | 56.40 PK | 74.00 | -17.60 | 1.28 V | 35 | 24.40 | 32.00 |
| 5 | 2928.00 | 52.90 AV | 54.00 | -1.10 | 1.28 V | 35 | 20.90 | 32.00 |
| 6 | 4874.00 | 51.00 PK | 74.00 | -23.00 | 1.11 V | 25 | 14.60 | 36.50 |
| 6 | 4874.00 | 41.70 AV | 54.00 | -12.30 | 1.11 V | 25 | 5.20 | 36.50 |
| 7 | 7311.00 | 45.40 PK | 74.00 | -28.60 | 1.52 V | 323 | 3.60 | 41.80 |
| 8 | 9748.00 | 51.40 PK | 74.00 | -22.60 | 1.45 V | 241 | 6.80 | 44.60 |
| 8 | 9748.00 | 43.90 AV | 54.00 | -10.10 | 1.45 V | 241 | -0.70 | 44.60 |

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



| | | | |
|---------------------------------|-----------------------------|--------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| MODE | Channel 11 | FREQUENCY RANGE | 1000MHz~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 17deg. C, 68%RH, 969 hPa | TESTED BY | Eric Lee |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M | | | | | | | | |
|----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 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 | *2462.00 | 100.0 PK | | | 1.69 H | 60 | 68.70 | 31.30 |
| 1 | *2462.00 | 91.9 AV | | | 1.69 H | 60 | 60.60 | 31.30 |
| 2 | 2483.50 | 52.7 PK | 74.00 | -21.30 | 1.54 H | 24 | 21.30 | 31.40 |
| 2 | 2483.50 | 42.4 AV | 54.00 | -11.60 | 1.54 H | 24 | 11.00 | 31.40 |
| 3 | 2496.00 | 49.5 PK | 74.00 | -24.50 | 1.03 H | 62 | 18.20 | 31.30 |
| 4 | 2560.00 | 47.2 PK | 74.00 | -26.80 | 1.02 H | 54 | 15.80 | 31.40 |
| 5 | 4924.00 | 45.0 PK | 74.00 | -29.00 | 1.63 H | 261 | 8.40 | 36.60 |
| 6 | 7386.00 | 45.2 PK | 74.00 | -28.80 | 1.09 H | 78 | 3.30 | 41.90 |
| 7 | 9848.00 | 46.2 PK | 74.00 | -27.80 | 1.92 H | 47 | 2.50 | 43.70 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M | | | | | | | | |
|--------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 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 | *2462.00 | 107.3 PK | | | 1.01 V | 352 | 76.00 | 31.30 |
| 1 | *2462.00 | 98.5 AV | | | 1.01 V | 352 | 67.20 | 31.30 |
| 2 | 2483.50 | 60.5 PK | 74.00 | -13.50 | 1.54 V | 74 | 29.00 | 31.40 |
| 2 | 2483.50 | 51.3 AV | 54.00 | -2.70 | 1.54 V | 74 | 19.90 | 31.40 |
| 3 | 2496.00 | 59.3 PK | 74.00 | -14.70 | 1.02 V | 326 | 28.10 | 31.30 |
| 3 | 2496.00 | 48.4 AV | 54.00 | -5.60 | 1.02 V | 326 | 17.20 | 31.30 |
| 4 | 2560.00 | 56.4 PK | 74.00 | -17.60 | 1.55 V | 21 | 25.00 | 31.40 |
| 4 | 2560.00 | 49.8 AV | 54.00 | -4.20 | 1.55 V | 21 | 18.40 | 31.40 |
| 5 | 4924.00 | 48.6 PK | 74.00 | -25.40 | 1.54 V | 74 | 12.00 | 36.60 |
| 6 | 7386.00 | 48.6 PK | 74.00 | -25.40 | 1.02 V | 47 | 6.60 | 41.90 |
| 7 | 9848.00 | 48.4 PK | 74.00 | -25.60 | 1.41 V | 2 | 4.70 | 43.70 |

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



TEST RESULTS (B)- OFDM

| | | | |
|---------------------------------|-----------------------------|--------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| MODE | Channel 1 | FREQUENCY RANGE | 1000MHz~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 28deg. C, 56%RH, 969 hPa | TESTED BY | Eric Lee |

| 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 | 2336.00 | 49.9 PK | 74.00 | -24.10 | 1.63 H | 59 | 19.20 | 30.70 |
| 2 | 2368.00 | 54.3 PK | 74.00 | -19.70 | 1.08 H | 75 | 23.60 | 30.80 |
| 2 | 2368.00 | 43.9 AV | 54.00 | -10.10 | 1.08 H | 75 | 13.10 | 30.80 |
| 3 | 2390.00 | 51.5 PK | 74.00 | -22.50 | 1.39 H | 289 | 20.60 | 30.90 |
| 3 | 2390.00 | 41.3 AV | 54.00 | -12.70 | 1.39 H | 289 | 10.40 | 30.90 |
| 4 | *2412.00 | 92.6 PK | | | 1.52 H | 69 | 61.60 | 31.00 |
| 4 | *2412.00 | 83.2 AV | | | 1.52 H | 69 | 52.20 | 31.00 |
| 5 | 2560.00 | 49.8 PK | 74.00 | -24.20 | 1.47 H | 54 | 18.40 | 31.40 |
| 6 | 4824.00 | 42.4 PK | 74.00 | -31.60 | 1.02 H | 68 | 6.10 | 36.30 |
| 7 | 7236.00 | 44.3 PK | 74.00 | -29.70 | 1.63 H | 56 | 2.60 | 41.70 |
| 8 | 9648.00 | 46.2 PK | 74.00 | -27.80 | 1.47 H | 44 | 2.10 | 44.20 |

| 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 | 2336.00 | 57.0 PK | 74.00 | -17.00 | 1.43 V | 26 | 26.30 | 30.70 |
| 1 | 2336.00 | 48.6 AV | 54.00 | -5.40 | 1.43 V | 26 | 17.90 | 30.70 |
| 2 | 2368.00 | 63.2 PK | 74.00 | -10.80 | 1.27 V | 56 | 32.40 | 30.80 |
| 2 | 2368.00 | 52.7 AV | 54.00 | -1.30 | 1.27 V | 56 | 21.90 | 30.80 |
| 3 | 2390.00 | 59.2 PK | 74.00 | -14.80 | 1.34 V | 97 | 28.30 | 30.90 |
| 3 | 2390.00 | 50.4 AV | 54.00 | -3.60 | 1.34 V | 97 | 19.60 | 30.90 |
| 4 | *2412.00 | 101.0 PK | | | 1.20 V | 24 | 70.00 | 31.00 |
| 4 | *2412.00 | 92.5 AV | | | 1.20 V | 24 | 61.50 | 31.00 |
| 5 | 2560.00 | 54.3 PK | 74.00 | -19.70 | 1.15 V | 24 | 22.90 | 31.40 |
| 5 | 2560.00 | 48.4 AV | 54.00 | -5.60 | 1.15 V | 24 | 17.00 | 31.40 |
| 6 | 4824.00 | 47.5 PK | 74.00 | -26.50 | 1.65 V | 247 | 11.20 | 36.30 |
| 7 | 7236.00 | 46.8 PK | 74.00 | -27.20 | 1.30 V | 247 | 5.10 | 41.70 |
| 8 | 9648.00 | 48.9 PK | 74.00 | -25.10 | 1.78 V | 47 | 4.70 | 44.20 |

- NOTE:**
1. Emission level(dBUV/m)=Raw Value(dBUV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



| | | | |
|---------------------------------|-----------------------------|--------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| MODE | Channel 6 | FREQUENCY RANGE | 1000MHz~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 28deg. C, 56%RH, 969 hPa | TESTED BY | Eric Lee |

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 | 2346.00 | 42.30 PK | 74.00 | -31.70 | 1.75 H | 47 | 12.00 | 30.30 |
| 2 | 2390.00 | 48.90 PK | 74.00 | -25.10 | 1.23 H | 32 | 18.50 | 30.40 |
| 3 | *2437.00 | 101.90 PK | | | 1.56 H | 35 | 71.20 | 30.70 |
| 3 | *2437.00 | 91.90 AV | | | 1.56 H | 35 | 61.20 | 30.70 |
| 4 | 2483.50 | 50.40 PK | 74.00 | -23.60 | 1.54 H | 241 | 19.50 | 31.00 |
| 5 | 2928.00 | 47.90 PK | 74.00 | -26.10 | 1.02 H | 23 | 16.00 | 32.00 |
| 6 | 4874.00 | 41.50 PK | 74.00 | -32.50 | 1.35 H | 98 | 5.00 | 36.50 |
| 7 | 7311.00 | 46.40 PK | 74.00 | -27.60 | 1.63 H | 325 | 4.60 | 41.80 |
| 8 | 9748.00 | 49.80 PK | 74.00 | -24.20 | 1.52 H | 45 | 5.20 | 44.60 |

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 | 2346.00 | 49.40 PK | 74.00 | -24.60 | 1.19 V | 68 | 19.10 | 30.30 |
| 2 | 2390.00 | 59.10 PK | 74.00 | -14.90 | 1.23 V | 10 | 28.70 | 30.40 |
| 2 | 2390.00 | 48.40 AV | 54.00 | -5.60 | 1.23 V | 10 | 18.00 | 30.40 |
| 3 | *2437.00 | 109.10 PK | | | 1.00 V | 58 | 78.40 | 30.70 |
| 3 | *2437.00 | 99.60 AV | | | 1.00 V | 58 | 68.90 | 30.70 |
| 4 | 2483.50 | 58.30 PK | 74.00 | -15.70 | 1.19 V | 12 | 27.30 | 31.00 |
| 4 | 2483.50 | 47.50 AV | 54.00 | -6.50 | 1.19 V | 12 | 16.60 | 31.00 |
| 5 | 2928.00 | 56.40 PK | 74.00 | -17.60 | 1.19 V | 30 | 24.50 | 32.00 |
| 5 | 2928.00 | 52.60 AV | 54.00 | -1.40 | 1.19 V | 30 | 20.60 | 32.00 |
| 6 | 4874.00 | 46.30 PK | 74.00 | -27.70 | 1.15 V | 93 | 9.80 | 36.50 |
| 7 | 7311.00 | 50.00 PK | 74.00 | -24.00 | 1.53 V | 26 | 8.20 | 41.80 |
| 8 | 9748.00 | 51.70 PK | 74.00 | -22.30 | 1.25 V | 23 | 7.10 | 44.60 |
| 8 | 9748.00 | 41.70 AV | 54.00 | -12.30 | 1.25 V | 23 | -2.90 | 44.60 |

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



| | | | |
|---------------------------------|-----------------------------|--------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| MODE | Channel 11 | FREQUENCY RANGE | 1000MHz~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 28deg. C, 56%RH, 969 hPa | TESTED BY | Eric Lee |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M | | | | | | | | |
|----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 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 | *2462.00 | 93.3 PK | | | 1.56 H | 54 | 62.00 | 31.30 |
| 1 | *2462.00 | 82.6 AV | | | 1.56 H | 54 | 51.30 | 31.30 |
| 2 | 2483.50 | 54.0 PK | 74.00 | -20.00 | 1.55 H | 148 | 22.50 | 31.40 |
| 2 | 2483.50 | 42.6 AV | 54.00 | -11.40 | 1.55 H | 148 | 11.20 | 31.40 |
| 3 | 2496.00 | 49.5 PK | 74.00 | -24.50 | 1.03 H | 69 | 18.20 | 31.30 |
| 4 | 2560.00 | 50.2 PK | 74.00 | -23.80 | 1.42 H | 107 | 18.80 | 31.40 |
| 5 | 4924.00 | 44.9 PK | 74.00 | -29.10 | 1.35 H | 87 | 8.20 | 36.60 |
| 6 | 7386.00 | 44.5 PK | 74.00 | -29.50 | 1.05 H | 47 | 2.60 | 41.90 |
| 7 | 9848.00 | 43.4 PK | 74.00 | -30.60 | 1.47 H | 54 | -0.30 | 43.70 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M | | | | | | | | |
|--------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 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 | *2462.00 | 101.6 PK | | | 1.21 V | 25 | 70.30 | 31.30 |
| 1 | *2462.00 | 92.6 AV | | | 1.21 V | 25 | 61.20 | 31.30 |
| 2 | 2483.50 | 59.3 PK | 74.00 | -14.70 | 1.47 V | 84 | 27.90 | 31.40 |
| 2 | 2483.50 | 49.5 AV | 54.00 | -4.50 | 1.47 V | 84 | 18.00 | 31.40 |
| 3 | 2496.00 | 57.1 PK | 74.00 | -16.90 | 1.28 V | 201 | 25.80 | 31.30 |
| 3 | 2496.00 | 46.9 AV | 54.00 | -7.10 | 1.28 V | 201 | 15.60 | 31.30 |
| 4 | 2560.00 | 56.2 PK | 74.00 | -17.80 | 1.16 V | 47 | 24.80 | 31.40 |
| 4 | 2560.00 | 50.8 AV | 54.00 | -3.20 | 1.16 V | 47 | 19.40 | 31.40 |
| 5 | 4924.00 | 47.6 PK | 74.00 | -26.40 | 1.24 V | 89 | 11.00 | 36.60 |
| 6 | 7386.00 | 48.3 PK | 74.00 | -25.70 | 1.36 V | 54 | 6.40 | 41.90 |
| 7 | 9848.00 | 47.3 PK | 74.00 | -26.70 | 1.59 V | 354 | 3.60 | 43.70 |

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|--------------|------------------|
| R&S SPECTRUM ANALYZER | FSP | 1093.4495.30 | Dec. 19, 2003 |

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.

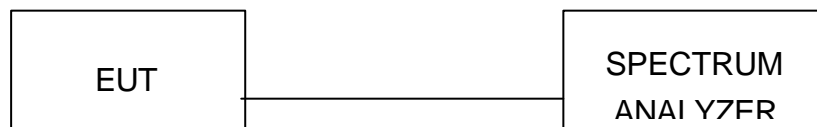
4.3.3 TEST PROCEDURE

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 6 dB.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

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



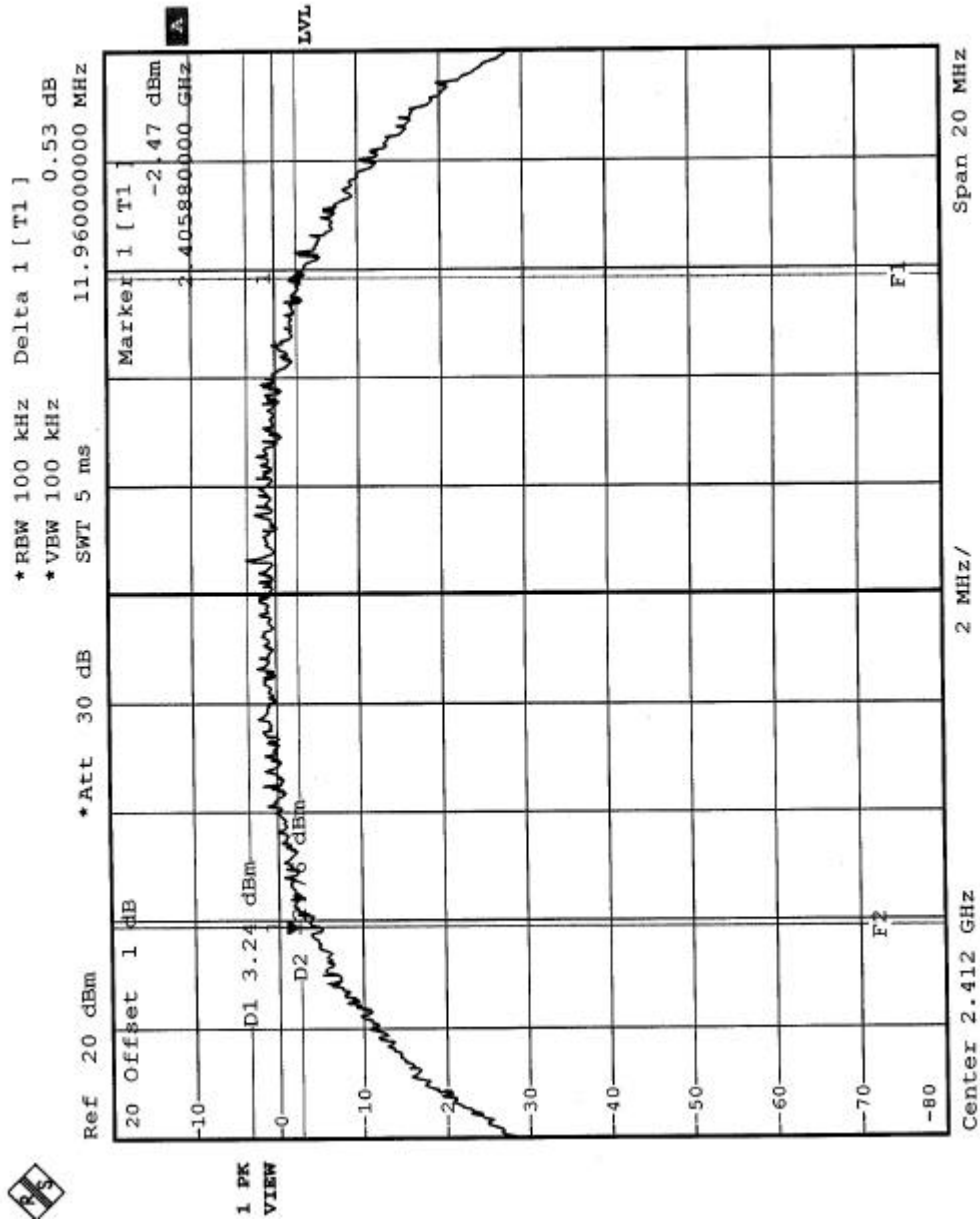
4.3.7 TEST RESULTS (A)-DSSS

| | | | |
|-----------------------------|---------------------------|---------------------------------|-----------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | ENVIRONMENTAL CONDITIONS | 21deg. C, 58%RH, 969 hPa |
| TESTED BY | Eric Lee | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS/FAIL |
|----------------|--------------------------------|----------------------------|----------------------------|------------------|
| 1 | 2412 | 11.96 | 0.5 | PASS |
| 6 | 2437 | 11.32 | 0.5 | PASS |
| 11 | 2462 | 11.84 | 0.5 | PASS |

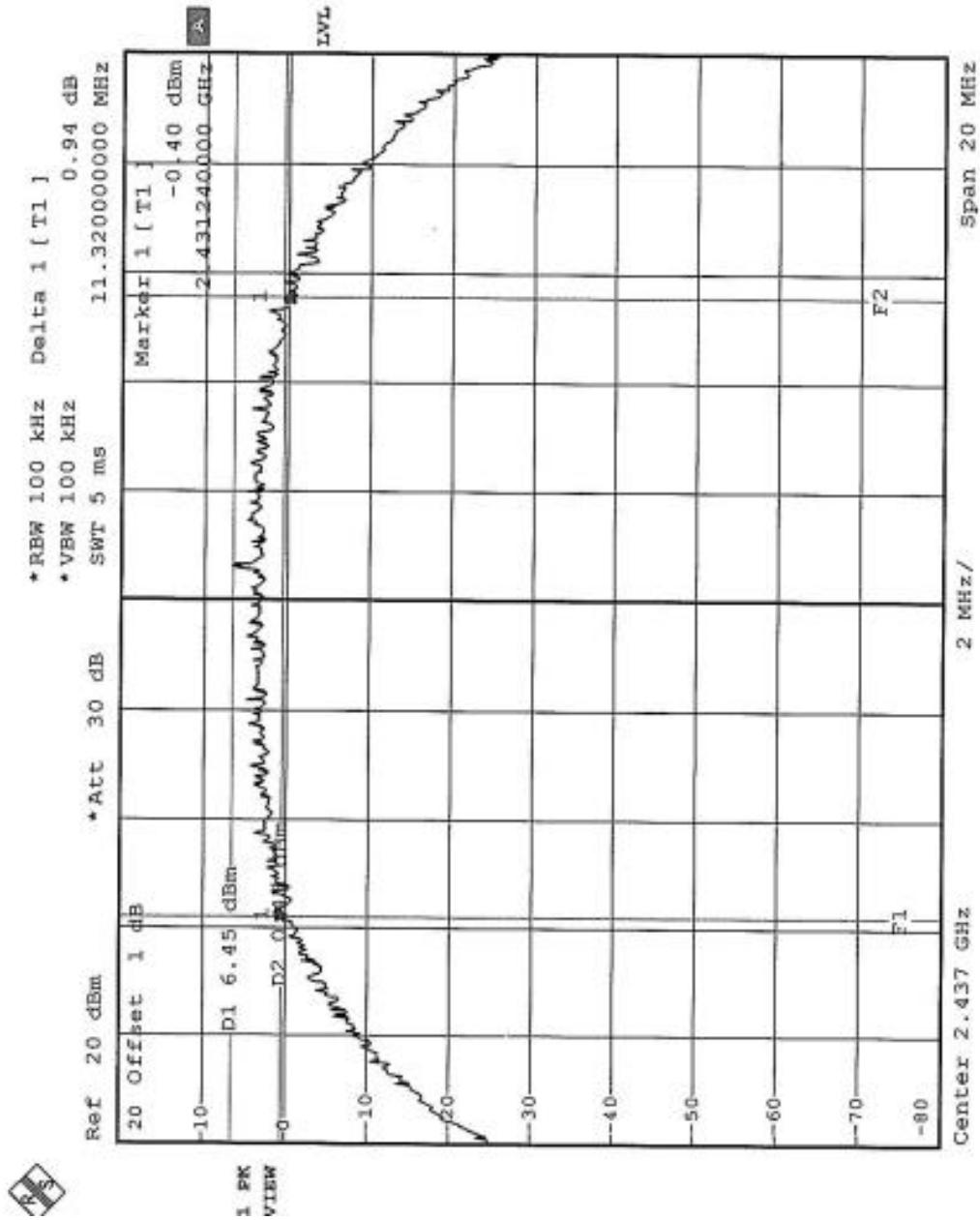


CH1



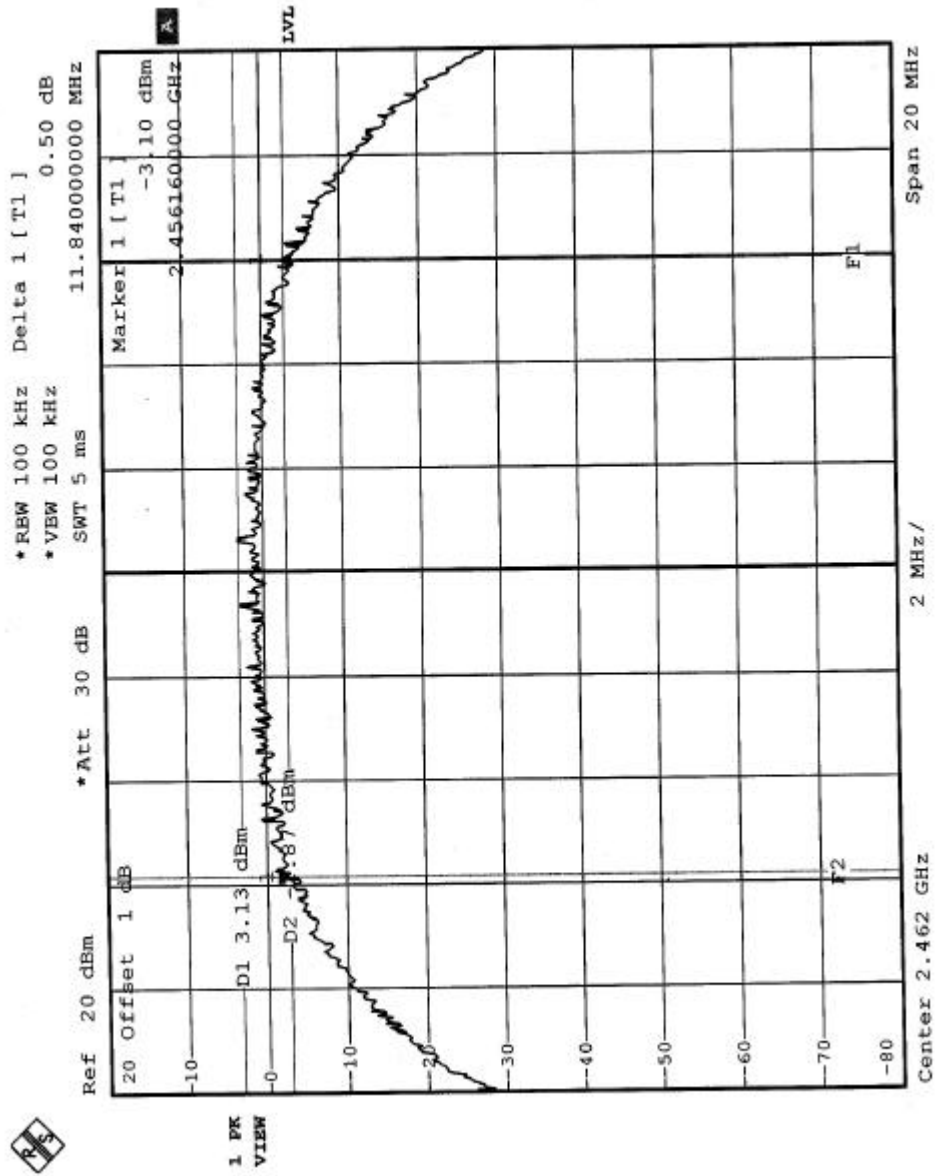


CH6





CH11





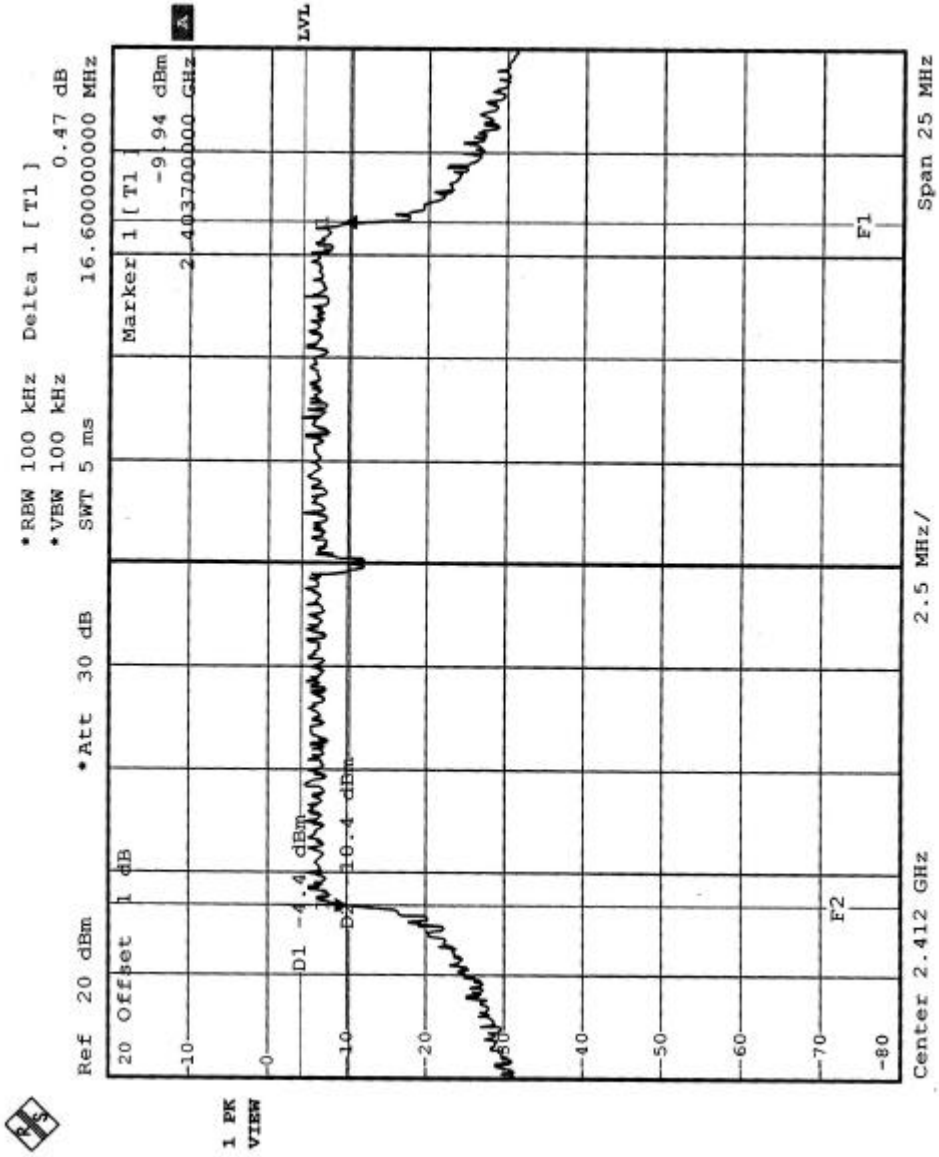
4.3.8 TEST RESULTS (A)-OFDM

| | | | |
|-----------------------------|---------------------------|---------------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | ENVIRONMENTAL CONDITIONS | 21deg. C, 58%RH, 969 hPa |
| TESTED BY | Eric Lee | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS/FAIL |
|----------------|--------------------------------|----------------------------|----------------------------|------------------|
| 1 | 2412 | 16.6 | 0.5 | PASS |
| 6 | 2437 | 16.65 | 0.5 | PASS |
| 11 | 2462 | 16.6 | 0.5 | PASS |

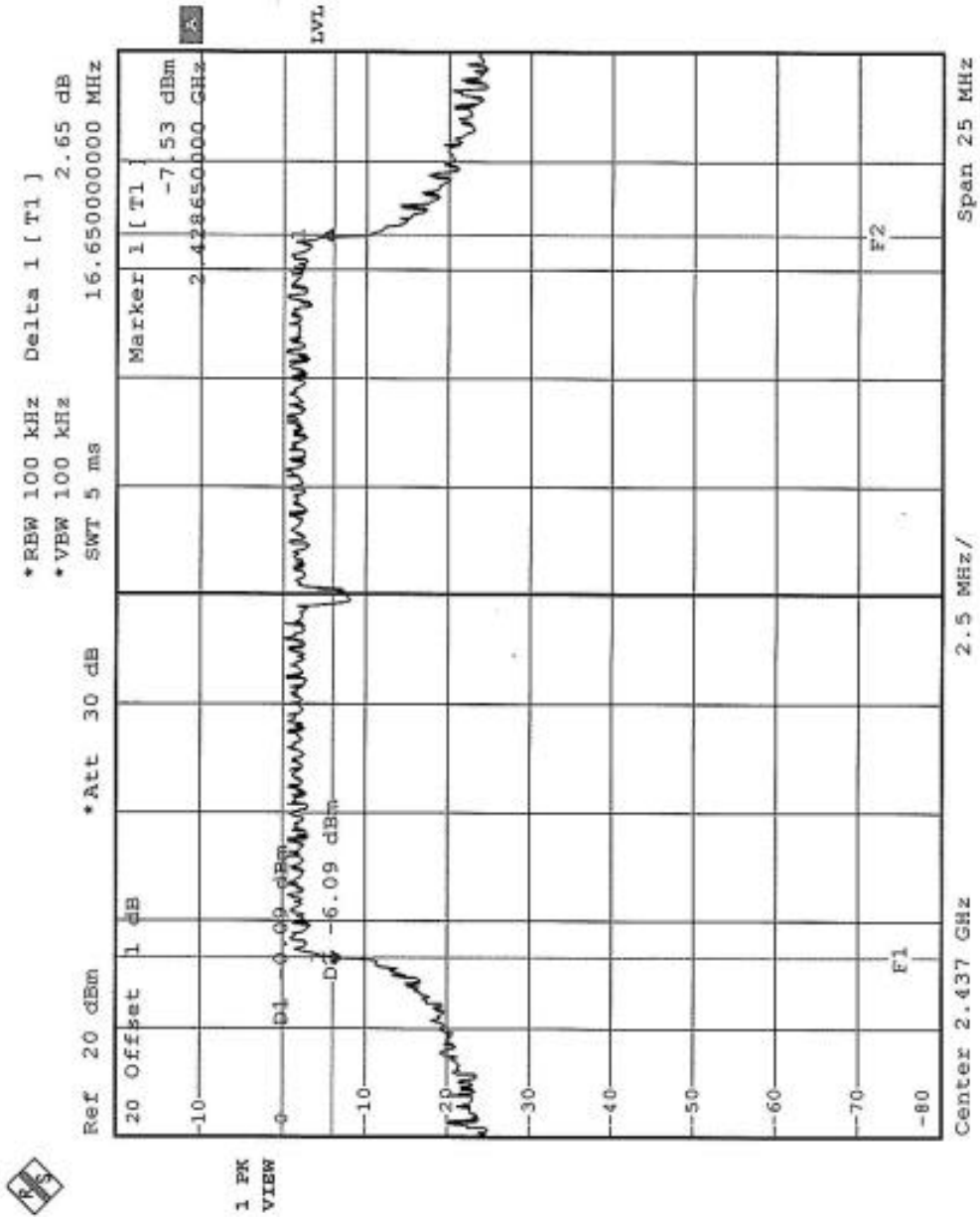


CH1



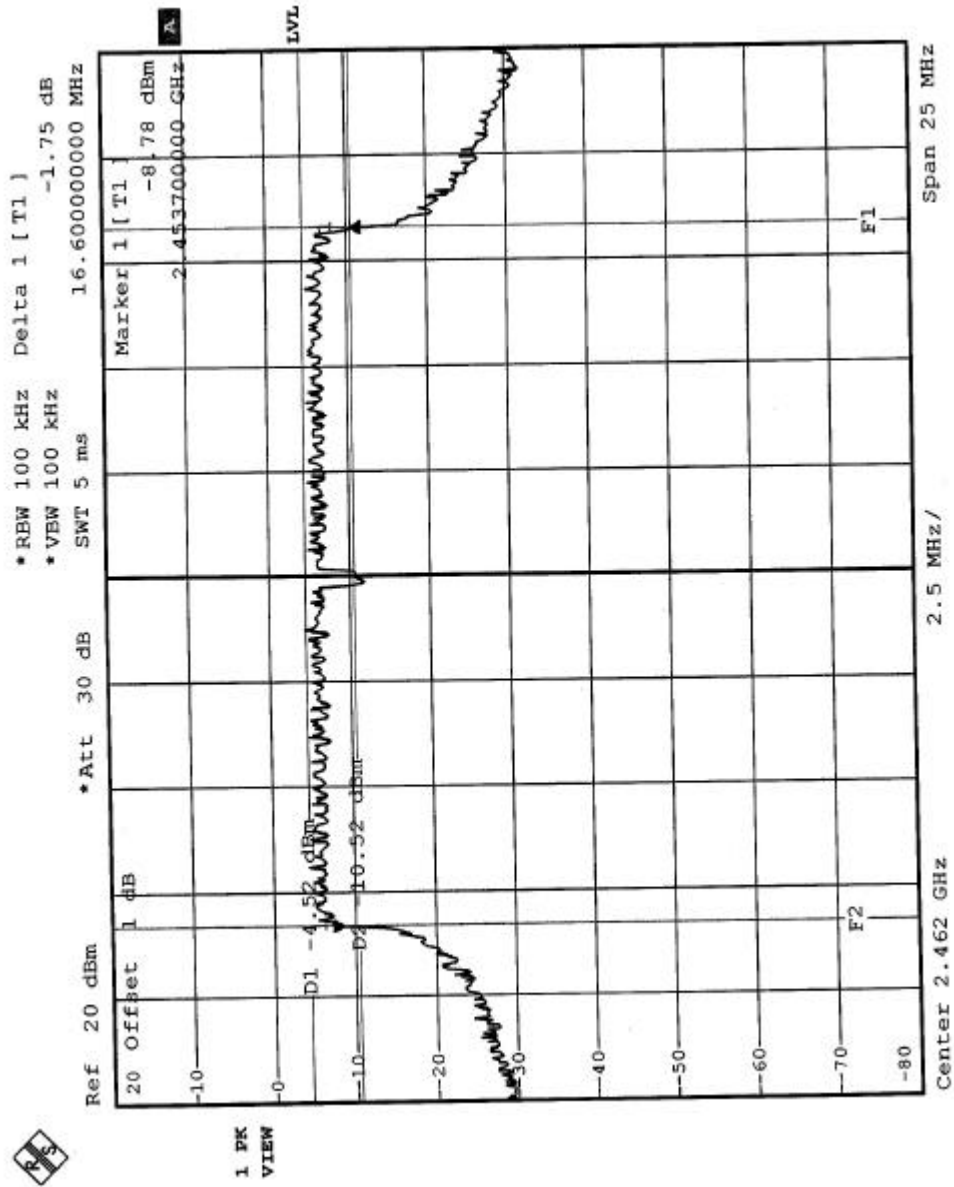


CH6





CH11





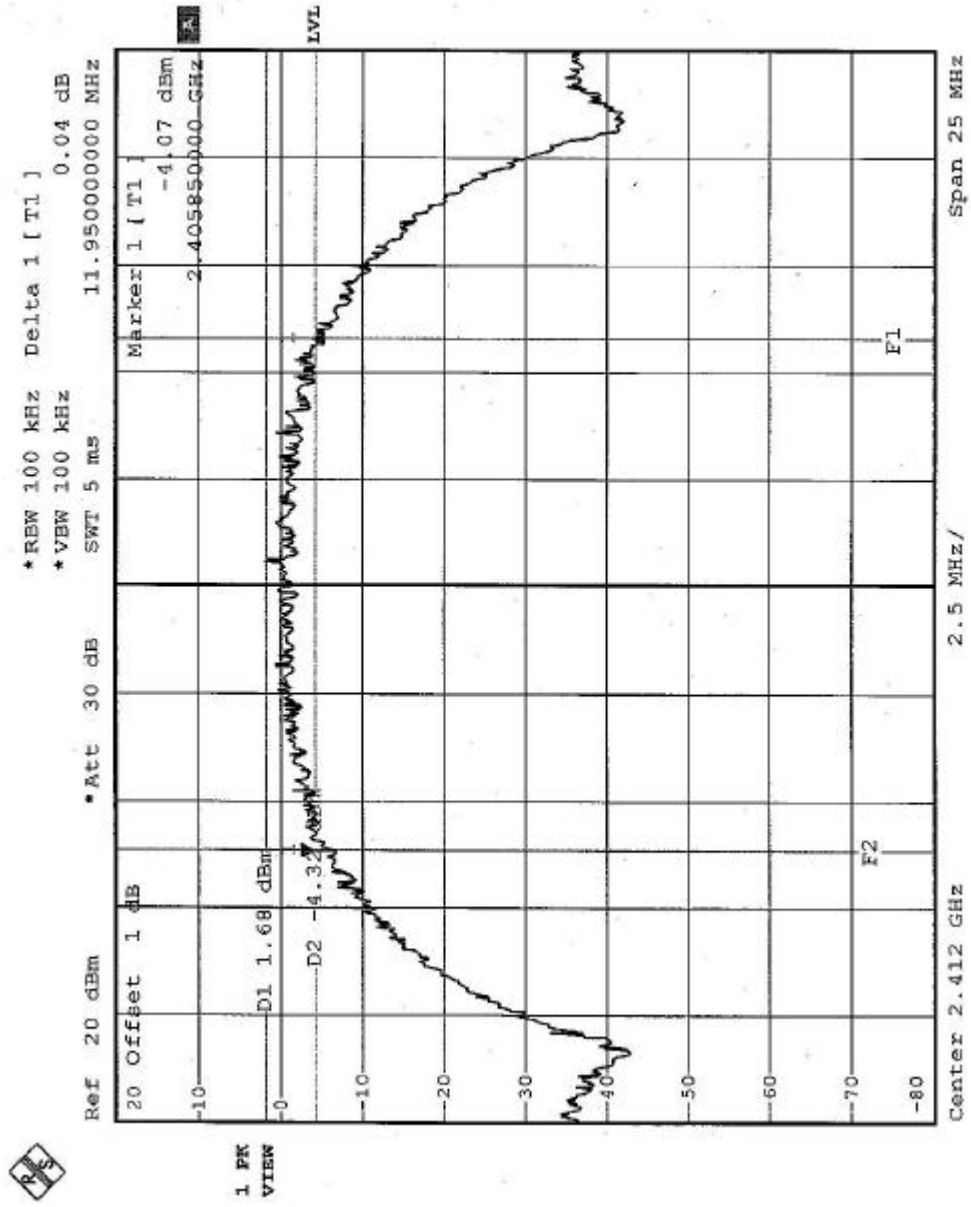
4.3.9 TEST RESULTS (B)-DSSS

| | | | |
|-----------------------------|---------------------------|---------------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | ENVIRONMENTAL CONDITIONS | 21deg. C, 58%RH, 969 hPa |
| TESTED BY | Eric Lee | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS/FAIL |
|----------------|--------------------------------|----------------------------|----------------------------|------------------|
| 1 | 2412 | 11.95 | 0.5 | PASS |
| 6 | 2437 | 12.08 | 0.5 | PASS |
| 11 | 2462 | 12.00 | 0.5 | PASS |

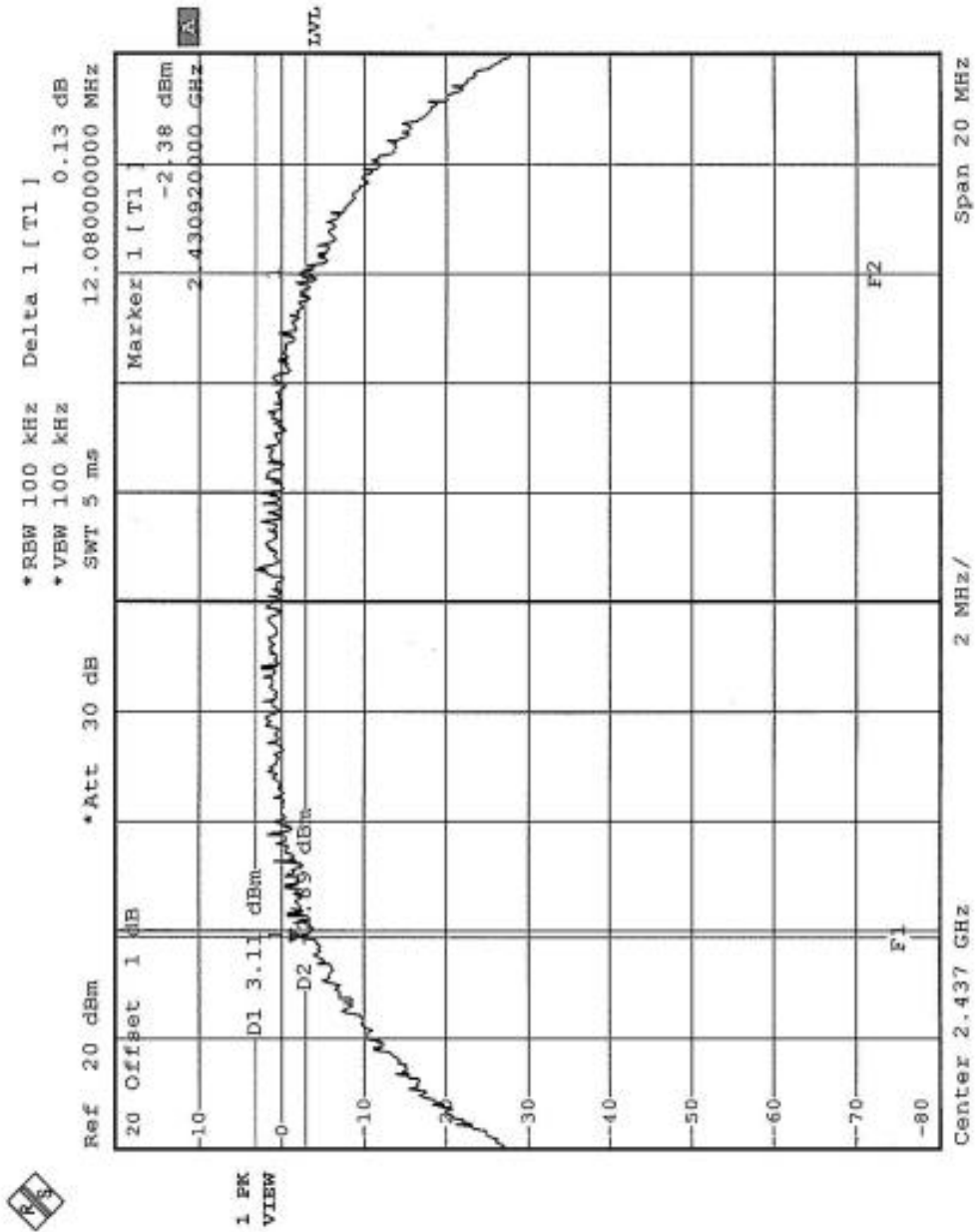


CH1



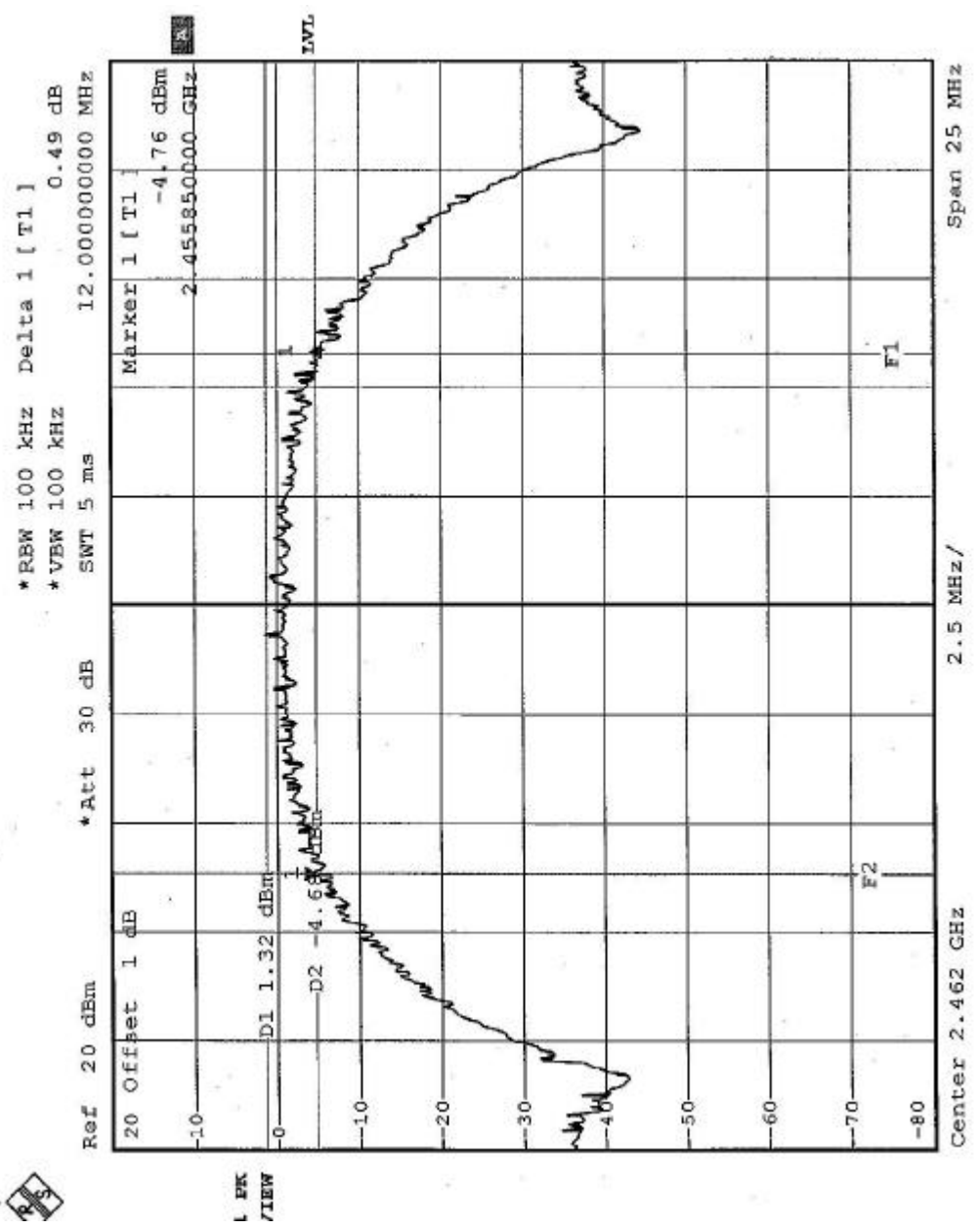


CH6





CH11





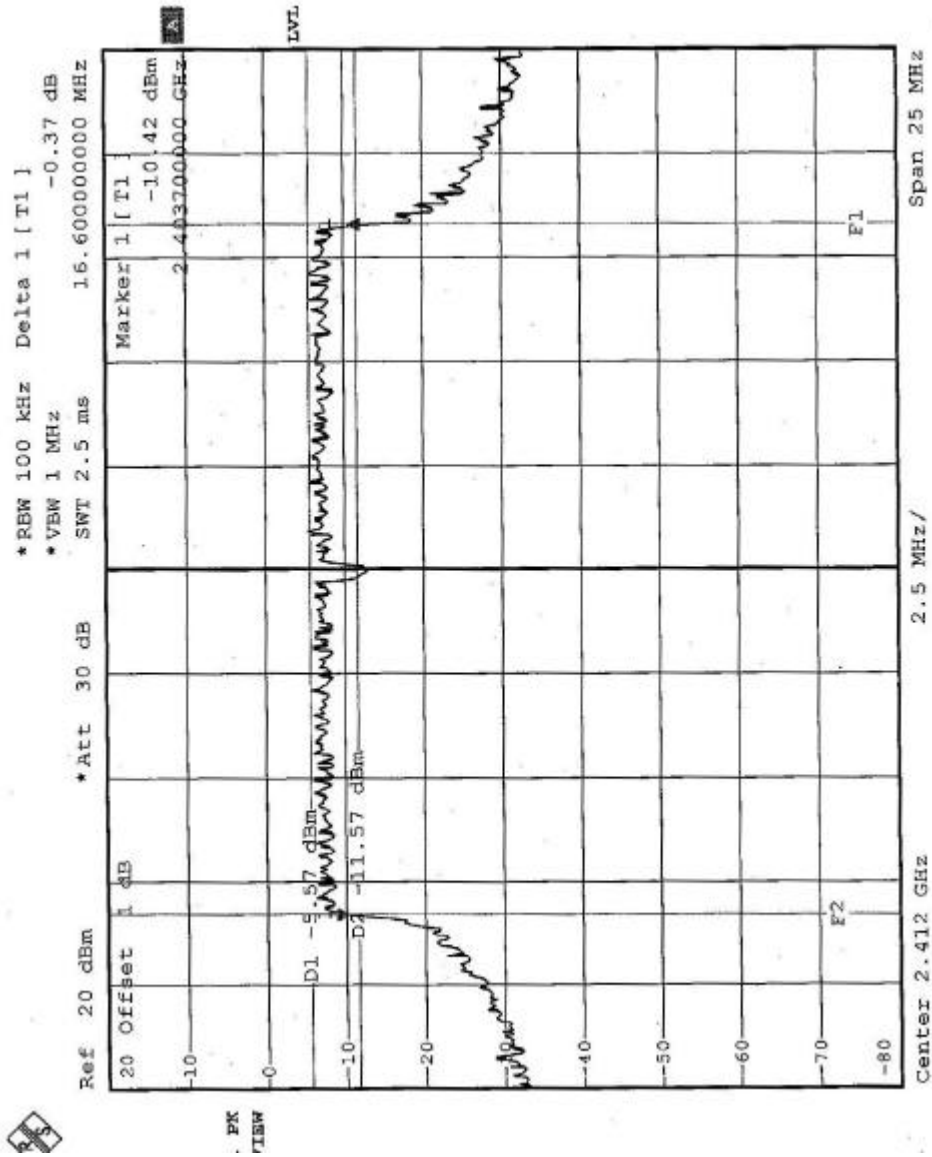
4.3.10 TEST RESULTS (B)-OFDM

| | | | |
|-----------------------------|---------------------------|---------------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | ENVIRONMENTAL CONDITIONS | 21deg. C, 58%RH, 969 hPa |
| TESTED BY | Eric Lee | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS/FAIL |
|----------------|--------------------------------|----------------------------|----------------------------|------------------|
| 1 | 2412 | 16.60 | 0.5 | PASS |
| 6 | 2437 | 16.65 | 0.5 | PASS |
| 11 | 2462 | 16.60 | 0.5 | PASS |

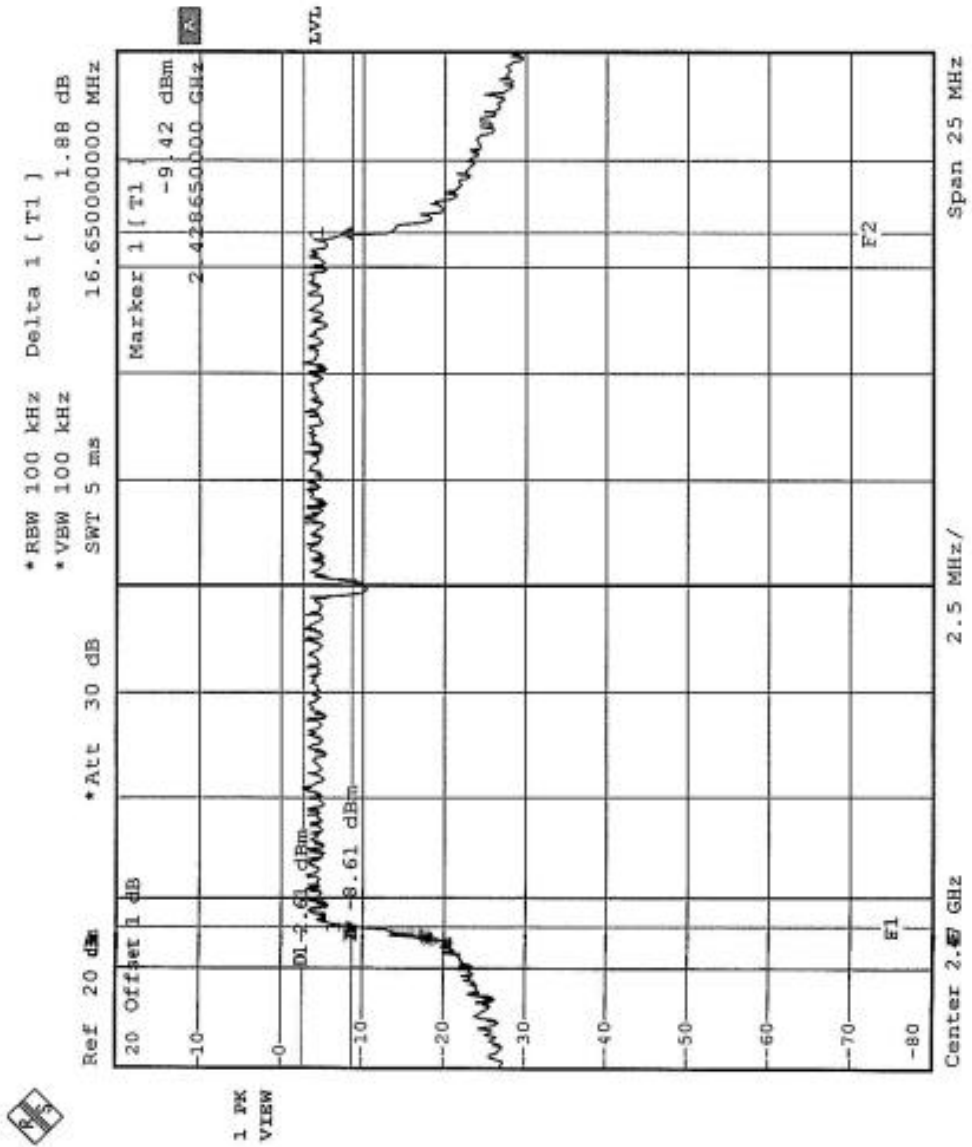


CH1



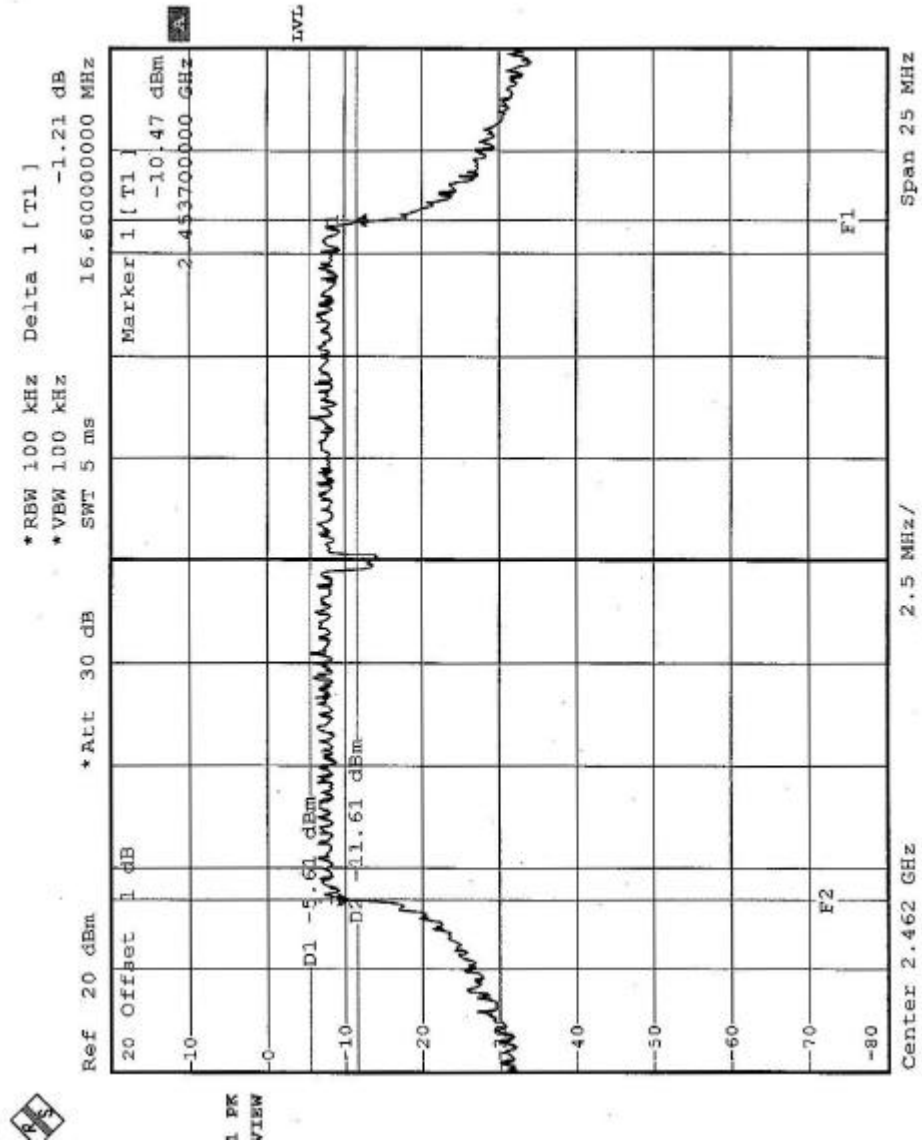


CH6





CH11





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 | FSP30 | 100019 | Dec. 19, 2003 |
| R&S SIGNAL GENERATOR | SMP04 | 100011 | May 28, 2004 |
| TEKTRONIX OSCILLOSCOPE | TDS 220 | B048470 | Mar. 05, 2004 |
| NARDA DETECTOR | 4503A | FSCM99899 | NA |

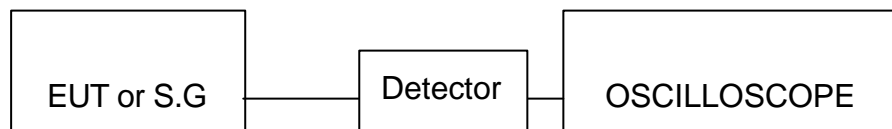
NOTE:

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 peak 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 peak reading on oscilloscope.
Record the power level.

4.4.4 TEST SETUP



4.4.5 EUT OPERATING CONDITIONS

Same as Item 4.3.6



4.4.6 TEST RESULTS (A)-DSSS

| | | | |
|-----------------------------|---------------------------|---------------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | ENVIRONMENTAL CONDITIONS | 19deg. C, 64%RH, 969 hPa |
| TESTED BY | Eric Lee | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|-------------------------|------------------------|-----------|
| 1 | 2412 | 15.63 | 30 | PASS |
| 6 | 2437 | 18.3 | 30 | PASS |
| 11 | 2462 | 15.29 | 30 | PASS |

4.4.7 TEST RESULTS (A)-OFDM

| | | | |
|-----------------------------|---------------------------|---------------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | ENVIRONMENTAL CONDITIONS | 19deg. C, 64%RH, 969 hPa |
| TESTED BY | Eric Lee | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|-------------------------|------------------------|-----------|
| 1 | 2412 | 16.23 | 30 | PASS |
| 6 | 2437 | 18.2 | 30 | PASS |
| 11 | 2462 | 16.01 | 30 | PASS |



4.4.8 TEST RESULTS (B)-DSSS

| | | | |
|-----------------------------|---------------------------|---------------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | ENVIRONMENTAL CONDITIONS | 19deg. C, 64%RH, 969 hPa |
| TESTED BY | Eric Lee | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|----------------|--------------------------------|--------------------------------|-------------------------------|------------------|
| 1 | 2412 | 13.3 | 30 | PASS |
| 6 | 2437 | 13.7 | 30 | PASS |
| 11 | 2462 | 13.08 | 30 | PASS |

4.4.9 TEST RESULTS (B)-OFDM

| | | | |
|-----------------------------|---------------------------|---------------------------------|--------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | ENVIRONMENTAL CONDITIONS | 19deg. C, 64%RH, 969 hPa |
| TESTED BY | Eric Lee | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|----------------|--------------------------------|--------------------------------|-------------------------------|------------------|
| 1 | 2412 | 13.4 | 30 | PASS |
| 6 | 2437 | 15.8 | 30 | PASS |
| 11 | 2462 | 13.19 | 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 | FSP | 1093.4495.30 | Dec. 19, 2003 |

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.

4.5.3 TEST PROCEDURE

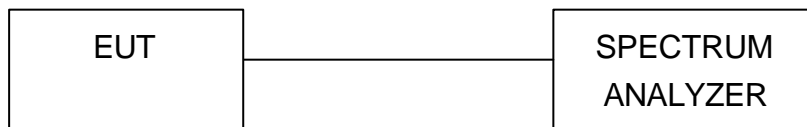
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time = span/3 kHz. The power spectral density was measured and recorded.

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

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



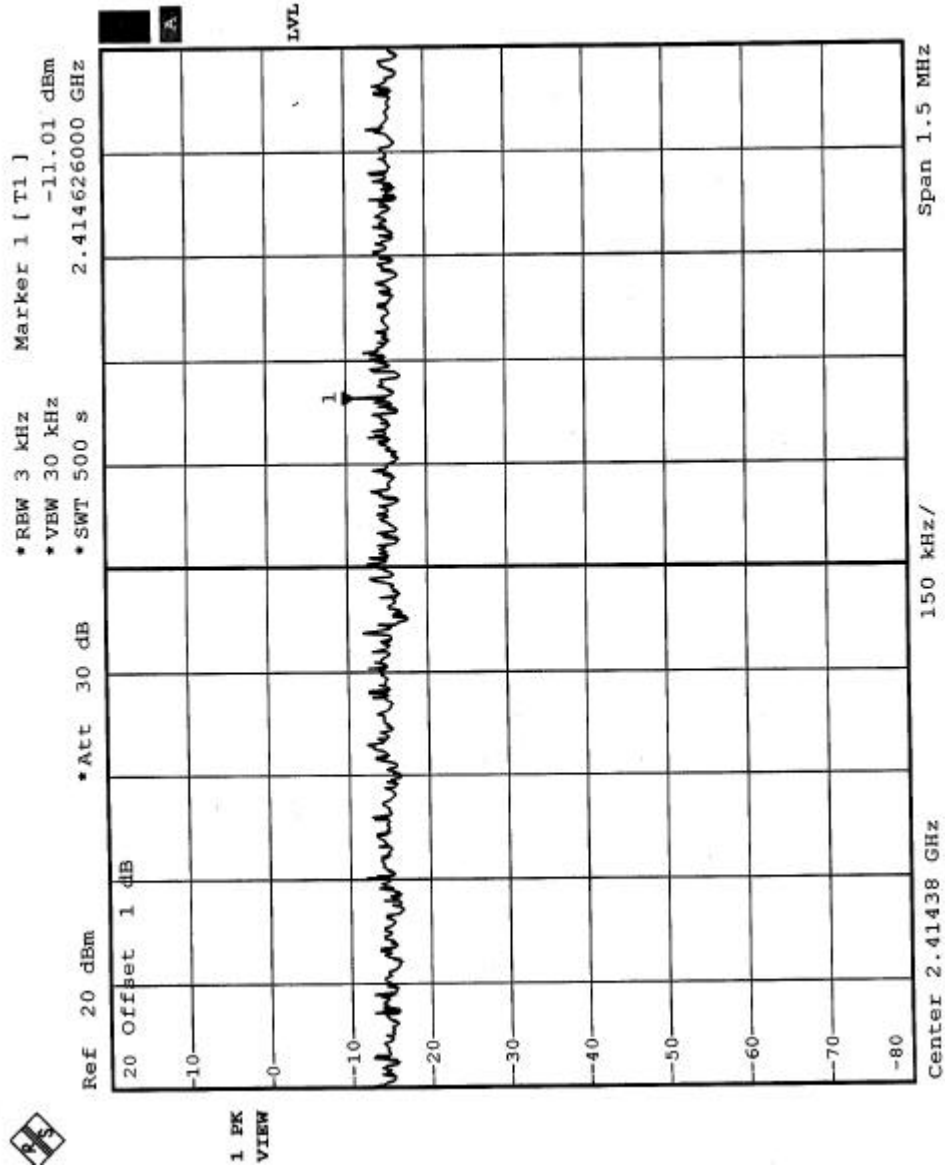
4.5.7 TEST RESULTS(A)-DSSS

| | | | |
|-----------------------------|---------------------------|---------------------------------|-------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | ENVIRONMENTAL CONDITIONS | 21deg. C, 58RH, 969 hPa |
| TESTED BY | Eric Lee | | |

| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 3 kHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|-----------------------|---------------------------------|-----------------------------------------|----------------------------|------------------|
| 1 | 2412 | -11.01 | 8 | PASS |
| 6 | 2437 | -8.66 | 8 | PASS |
| 11 | 2462 | -11.28 | 8 | PASS |

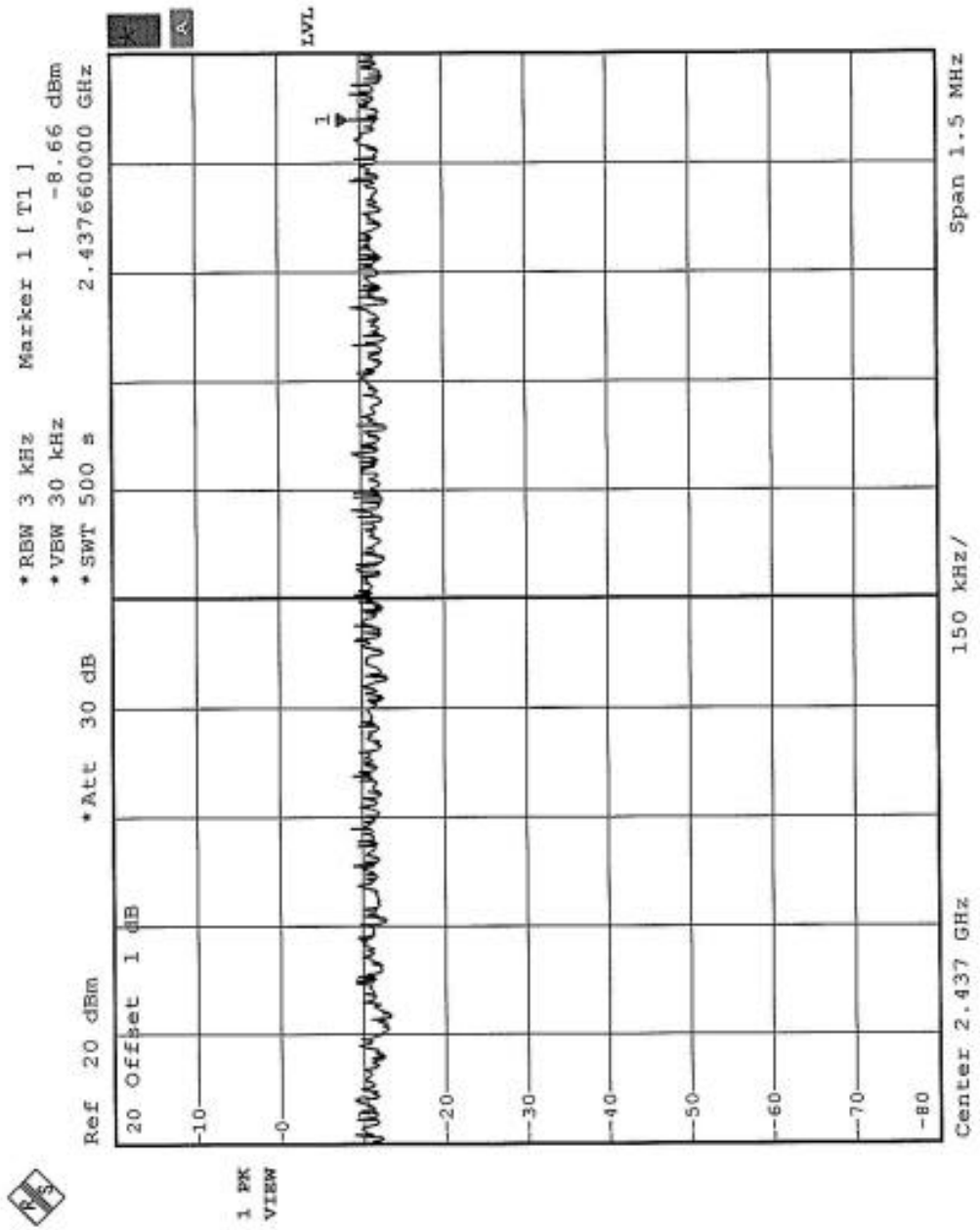


CH1



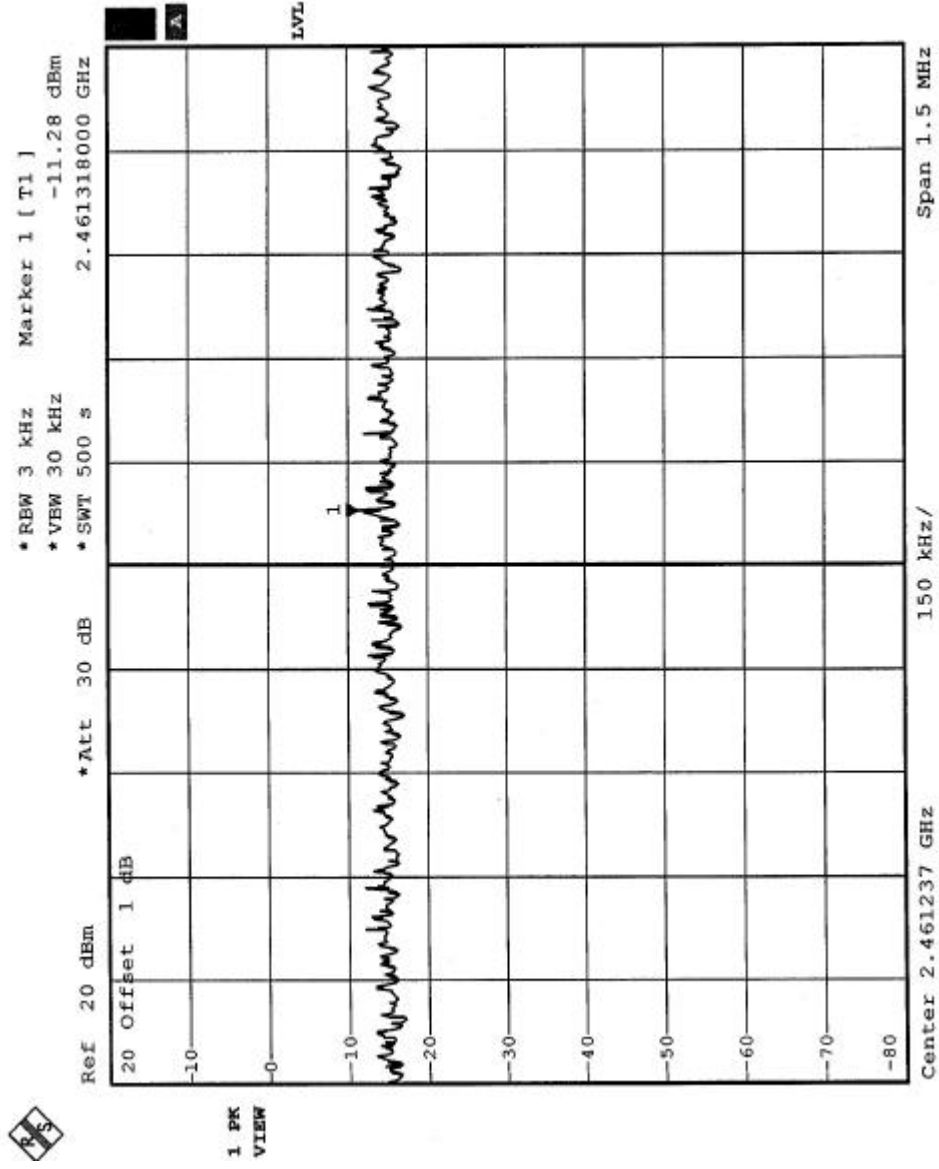


CH6





CH11





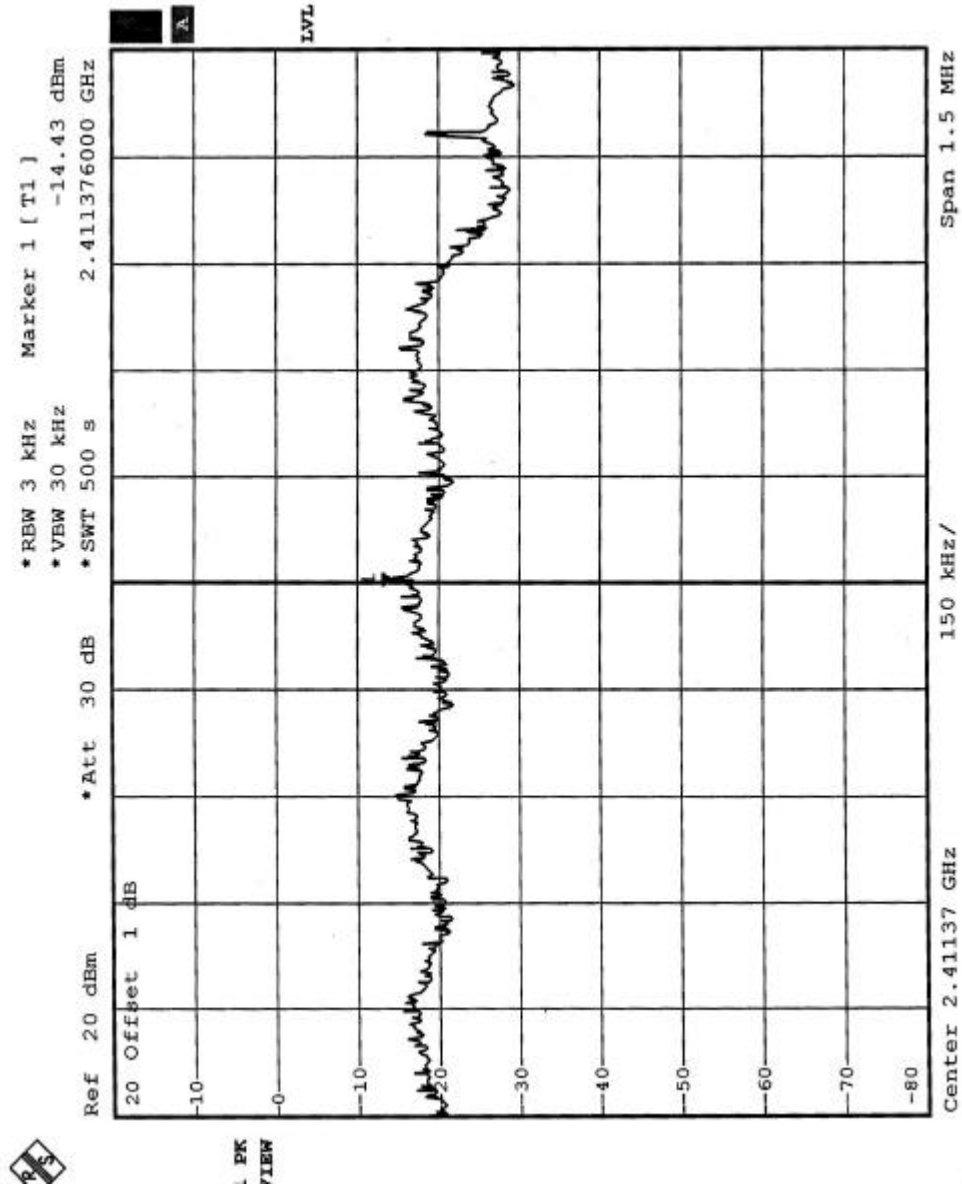
4.5.8 TEST RESULTS(A)-OFDM

| | | | |
|-----------------------------|---------------------------|---------------------------------|-------------------------|
| EUT | Wireless LAN Access Point | MODEL | A300-2 |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | ENVIRONMENTAL CONDITIONS | 21deg. C, 58RH, 969 hPa |
| TESTED BY | Eric Lee | | |

| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 3 kHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|-----------------------|---------------------------------|-----------------------------------------|----------------------------|------------------|
| 1 | 2412 | -14.43 | 8 | PASS |
| 6 | 2437 | -10.49 | 8 | PASS |
| 11 | 2462 | -14.59 | 8 | PASS |



CH1





CH6

