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**EMI TEST REPORT FOR CERTIFICATION
to
FCC PART 15 Subpart E (Section 15.407) & RSS-210
Class II Permissive Change**

FCC ID: EJE-WL0010

Industry Canada ID: 337J-WL0010

Test Sample: GOLAN INTEL Mini-PCI WLAN Module

Model: WM3945ABG

Report Number M060434_Cert_WM3945ABG_NII_Class_2

Tested for: Fujitsu Australia Ltd.

Issue Date: 4th May 2006

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NATA Accredited Laboratory Number:
5292

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to
FCC PART 15 Subpart E (Section 15.407) & RSS-210
Class II Permissive Change

Report Number: M060434_Cert_WM3945ABG_NII_Class_2

Test Sample: GOLAN INTEL Mini-PCI WLAN Module
Model: WM3945ABG
Manufacturer: INTEL Corp

FCC ID: EJE-WL0010
Industry Canada ID: 337J-WL0010
Equipment Type: Intentional Radiator (Transceiver)

Host Notebook Manufacturer: Fujitsu Ltd.
Address: Mobile Computing Division
1-1 Kamikodanaka 4-Chome, Nakahara-Ku, Kawasaki, Japan
Contact: Mr. Tsuyoshi Uchihara

Tested for: Fujitsu Australia Ltd

Test Standards: FCC Part 15, Subpart E – Unlicensed National Information, Infrastructure Devices
FCC Part 15.407, General Technical Requirements
ANSI C63.4 – 2003
OET Bulletin No. 65

RSS-210 Issue 5 and Issue 6 Low Power Licence-Exempt
RadioCommunication Devices: 6.2.2 (q1) 5150 - 5350 MHz, 5470 – 5725 MHz
& 5725-5825 MHz Local Area Network Devices

RSS-102 Issue 1 (Provisional), Evaluation Procedure for Mobile and Portable Radio Transmitters with respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields

Test Dates: 27th April to 1st May 2006

Test Officer:

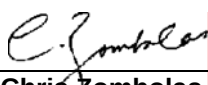


Chieu Huynh - B.Eng (Hons) Electronics

Attestation:

I hereby certify that the device(s) described herein were tested as described in this report and that the data included is that which was obtained during such testing

Authorised Signatory:



Chris Zombolas
Technical Director
EMC Technologies Pty Ltd



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EMI TEST REPORT FOR CERTIFICATION to FCC PART 15 Subpart E (Section 15.407) & RSS-210 Class II Permissive Change

1.0 INTRODUCTION

Testing was performed on the INTEL Mini-PCI Wireless LAN Module (GOLAN 11a+b/g), Model: WM3945ABG installed in Fujitsu notebook PC.

The WM3945ABG WLAN module has been recently certified by Fujitsu Australia Ltd under the FCC ID: EJE-WL0010 (IC: 337J-WL0010). The intention of this application is to add host models (Fujitsu Notebooks) and re-certify the WM3945ABG WLAN module installed in, model: C1410 as a **Class II Permissive Change**.

The GOLAN WLAN module was originally certified by INTEL as a modular approval under FCC ID: PD9WM3945ABG (Canada ID: 1000M-WM3945ABG). The intention of this application is to get a Limited Modular approval for this WLAN module for use in Fujitsu notebook PCs. The Radio modules are installed in a controlled environment at the Fujitsu notebook production/assembly factory.

The GOLAN WLAN supports IEEE 802.11b, IEEE 802.11g and IEEE802.11a (DTS & U-NII) configurations. Tests were performed in all three configurations.

The results for configuration IEEE 802.11a (U-NII: 5150 – 5350 MHz) are reported in this test report.

The results for configurations IEEE 802.11b, IEEE 802.11g and IEEE802.11a (DTS: 5725 – 5850 MHz) are reported separately.

Refer to EMC Technologies' test report: M060434_Cert_WM3945ABG_DTS_Class_2 (DTS).

The second transmitter in the notebook is a Bluetooth module, model: EYTF3CSFT. This Bluetooth module has been recently certified by Fujitsu Australia Ltd under the FCC ID: EJE-BT0001 (IC: 337J-BT0001).

Test results and procedures were performed in accordance with the following Federal Communications Commission (FCC) standards/regulations:

47 CFR, Part 15,	Unlicensed National Information Infrastructure Devices (U-NII) operating in
Subpart E:	the 5.15-5.35 GHz, 5.47-5.725 GHz and 5.725-5.825 GHz frequency bands
Section 15.203:	Antenna requirements
Section 15.205:	Restricted bands of operation
Section 15.207:	Conducted Emission Limits
Section 15.209:	Radiated Emission Limits (General requirements)
Section 15.407:	General Technical Requirements

The results and technical details of the test sample are detailed in this report. The test sample **complies** with the requirements of 47 CFR, Part 15 Subpart E - Section 15.407.

The test sample also complies with the Industry Canada RSS-210 Issue 5 for frequency band 5250 to 5350 MHz and Issue 6 for frequency band 5150 to 5250 MHz (Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands)) clause 6.2.2(q1) requirements and the RF exposure requirements of RSS-102.



1.1 Summary of Results

1.1.1 FCC Subpart E, Section 15.407

FCC Part 15, Subpart E Clauses	Industry Canada RSS-210 Clauses	Test Performed	Result
15.203	5.5	Antenna Requirement	Note 1
15.205	6.3	Operation in Restricted Band	Note 1
15.207	6.6	Conducted Emissions	Note 1
15.209	6.3	Radiated Emissions	Note 1
15.407 (a)(1) (a)(2)	6.2.2(q1)	Peak Transmit Power	Note 1
15.407 (a)(5)	6.2.2(q1)	Peak Power Spectral Density	Note 1
15.407 (a)(6)		Peak Excursion	Note 1
15.407 (b)	6.2.2(q1)	Undesirable Emission	Note 1
15.407 (f)		Radio Frequency Hazard	Note 1
15.407 (g)	6.4	Frequency Stability	Note 1

Note 1: Refer to EMC test report M060108_Cert_WM3945ABG_NII and M060108_Cert_WM3945ABG_NII_Class_2 with FCC ID: EJE-WL0010 (IC ID: 337J-WL0010)

1.1.2 FCC Subpart C, Section 15.247

FCC Part 15, Subpart C Clauses	Industry Canada RSS-210 Clauses	Test Performed	Result
15.203	5.5	Antenna Requirement	Note 1
15.205	6.3	Operation in Restricted Band	Complies
15.207	6.6	Conducted Emissions	Note 1
15.209	6.3	Radiated Emissions	Complies
15.247 (a)(2)	6.2.2(o)(iv)	Channel Bandwidth	Note 1
15.247 (b)(3)	6.2.2(o)(b)	Peak Output Power	Note 1
15.247 (i)		Radio Frequency Hazard	Complies
15.247 (d)	6.2.2(o)(e1)	Out of Band Emissions	Complies
15.247 (e)	6.2.2(o)(iv)	Peak Power Spectral Density	Note 1

Refer to EMC Technologies Report No: M060434_Cert_WM3945ABG_DTS_Class_2

Note 1: Refer to EMC test report M060108_Cert_WM3945ABG_DTS M060108_Cert_WM3945ABG_DTS_Class_2 with FCC ID: EJE-WL0010 (IC ID: 337J-WL0010)

The measurement procedure used was in accordance with ANSI C63.4-2003 and OET Bulletin No. 65. The instrumentation conformed to the requirements of ANSI C63.2-1996.

1.2 Modifications by EMC Technologies

No modifications were required.



2.0 GENERAL INFORMATION

(Information supplied by the Client)

2.1 EUT (WLAN) Details

Transmitter:	Mini-PCI Wireless LAN Module
Wireless Module:	GOLAN (11a+b/g)
Model Number:	WM3945ABG
Manufacturer:	Intel Corporation
Modulation Type:	Direct Sequence Spread Spectrum (DSSS for 802.11b) Orthogonal Frequency Division Multiplexing (OFDM for 802.11g) Orthogonal Frequency Division Multiplexing (OFDM for 802.11a)
802.11a and 802.11g	BPSK – 6Mbps, 9Mbps QPSK – 12Mbps, 18Mbps 16QAM – 24Mbps, 36Mbps 64QAM – 48Mbps, 54Mbps
802.11b	DBPSK – 1Mbps DQPSK – 2Mbps CCK – 5.5Mbps, 11Mbps
Frequency Range:	2.4 –2483.5 GHz for 11b/g 5.15 - 5.35 GHz and 5.725 - 5.850 GHz for 11a
Number of Channels:	11 channels for 11b or 11g 13 channels for 11a
Power Supply:	3.3 VDC from PCI bus

Frequency Allocation Table:

				Americas	Europe	Japan	High Band
Band	Channel	Lower Frequency	Upper Frequency	SKU #1 MOW1	SKU #2 MOW2	SKU #3 Japan	SKU #4 ROW
802.11b/g	1-11	2.401 GHz	2.473 GHz	X	X	X	X
802.11b/g	12-13	2.467 GHz	2.483 GHz		X	X	X
802.11a	34-46	5.08 GHz	5.22 GHz		X	X	
802.11a	36-48	5.150 GHz	5.250 GHz	X	X		
802.11a	52-64	5.250 GHz	5.350 GHz	X	X		
802.11a	100-140	5.470 GHz	5.725 GHz		X		
802.11a	149-161	5.725 GHz	5.825 GHz	X			X
802.11a	165	5.815 GHz	5.835 GHz	X			X

Channels Tested and Output power setting:

Channel and Mode:	Output Power setting (average, dBm)
802.11b mode	
**Channels 1	16
**Channel 6 and 11	18
802.11g mode	
**Channel 1	16
**Channel 6	17
**Channel 11	15
802.11a mode	
*Channel 36	16
*Channels 52 and 64	17
**Channels 149, 157 and 165	17

*Channels tested, refer to EMC report M060108_Cert_WM3945ABG_NII and M060108_Cert_WM3945ABG_NII_Class_2

**Channels tested and reported in the DTS submission (M060434_Cert_WM3945ABG_DTS_Class_2) M060108_Cert_WM3945ABG_DTS and M060108_Cert_WM3945ABG_DTS_Class_2



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2.2 Operational Description

The GOLAN WLAN Module was tested in Fujitsu host notebook C1410.

The Intel WLAN test software "CRTU" was used to transmit continuously during the tests. For Spurious and Harmonics tests both radio modules (WLAN and Bluetooth) were simultaneously transmitting.

2.3 Test Configuration

Radiated tests were performed for measuring the harmonics and spurious from the transmitters.

Limited Modular Approval (LMA) details to cover the following Fujitsu notebook configurations:

Fujitsu Notebook Model	WLAN Module	WLAN Antenna	FCC/IC CERTIFICATION STATUS
E8110	GOLAN WM3945ABG	2 x Inverted F antenna	GRANT Issued FCC ID: EJE-WL0010
E8210		2 x Inverted F antenna	
S7110		2 x Monopole Antenna	
Q2010		2 x Inverted F antenna	
S6310		2 x Inverted F antenna	
Following NEW Model to be added			
C1410	GOLAN WM3945ABG	2 x Inverted F Antenna	Tested model in this application

Fujitsu Notebook Model	WLAN antenna type	WLAN antenna Peak gain [dBi]			
		2.4GHz band	5GHz low band	5GHz Mid band	5GHz High band
E8110	Inverted F	-0.99	-1.12	-0.56	-0.56
E8210	Inverted F	2.47	-0.44	0.38	0.38
S7110	Monopole	2.08	1.66	0.59	1.79
Q2010	Inverted F	2.32	3.23	3.36	1.48
S6310	Inverted F	-0.38	1.09	0.64	0.90
C1410	Inverted F	2.42	2.72	2.42	3.08

The location of the WLAN antennas and the design of the WLAN antennas (Inverted F) in host C1410 notebook (new model added) are identical to the antenna in other host notebooks (had been certified).

Only the highest band of the 5 GHz WLAN (5725 – 5850 MHz) was tested for host C1410 notebook as the antenna gain for this band is higher than in other host notebooks (refer to the table above). The result for this band is reported under section 3.0 of EMC report M060434_Cert_WM3945ABG_DTS_Class_2.

For harmonics and spurious emissions of the WLAN installed in other host notebooks were reported under EMC Technologies report number: M060108_Cert_WM3945ABG_NII and M060108_Cert_WM3945ABG_NII_Class_2.

There are no IM spurious emissions recorded for host C1410 when both radio modules (WLAN and Bluetooth) simultaneously transmitting.

Refer to Appendix_A_C1410 for antenna details.



To qualify for a class 2 permissive change, the output power was re-measured on host C1410. The highest output powers are report below.

The highest output powers were granted:

Frequency MHz	Output Power Granted dBm
5200	17.8
2400	17.1

The highest new output powers are measured:

Frequency MHz	New Output Power Measured dBm
5200	17.1
2400	16.8

Data Transmission is always initiated by software, which is then passed down through the MAC, through the digital and analog baseband, finally to the RF chip. Several special packets (ACKs, CTS, PSpoll, etc) are initiated by the MAC. These are the only ways the digital baseband portion will turn on the RF transmitter, which then turns off at the end of the packet. Therefore, the transmitter will be ON only while one of the four mentioned packets is being transmitted.

2.4 Host PC Details

Host notebook :	LifeBook C series
Model Name:	C1410
Serial Number:	Pre-production Sample
Manufacturer:	FUJITSU LIMITED
CPU Type and Speed:	Yonah-DC 2.16GHz
LCD	15" WXGA / 15" XGA
Wired LAN:	Marvell 88E8055 : 10 Base-T/100 Base-TX/1000Base-T
Modem:	Agere MDC1.5 modem Model: D40
Port Replicator Model:	FPCPR63
AC Adapter Model:	SEC100P2-19.0(Sanken) / SQ2N80W19P-01(Nagano JRC)
Voltage:	19 V
Current Specs:	4.22A
Watts:	80W
RADIO MODULES	
Module # 1:	WLAN (Golan IEEE802.11a+b/g)
WLAN Model Number:	WM3945ABG
WLAN Manufacturer:	Intel Corp.
Interface Type:	Mini-Card Wireless LAN Module
Antenna Types:	Nissei Electric Inverted F Antenna Model: CP250925 Located on top edge of LCD screen
Antenna gain:	Refer antenna data provided separately (Appendix A)
Module # 2:	Bluetooth Module
Model Number:	EYTF3CS FT
Manufacturer:	TAIYO YUDEN
Interface Type:	USB
Antenna Types:	Yokowo Inverted F Antenna, Model: YCE-5250 Location: right hinge of LCD
Antenna gain:	3.27 dBi
Max. Output Power:	4 dBm



2.5 Test Procedure

Emissions measurements were performed in accordance with the procedures of ANSI C63.4-2003. Radiated emissions tests were performed at a distance of 1 and 3 metres from the EUT. OET Bulletin 65 dated June 2001 was used for reference.

2.6 Test Facility

2.6.1 General

Radiated Emission measurements were performed at EMC Technologies open area test site (OATS) situated at Lerderderg Gorge, near the township of Bacchus Marsh in Victoria, Australia. Conducted measurements at an antenna ports were performed at EMC Technologies' laboratory in Tullamarine, Victoria Australia.

The above test sites have been accepted for testing by the Federal Communications Commission (FCC) - **FCC Registration Number 90560**.

EMC Technologies open area test site (OATS) has also been accepted by Industry Canada for the performance of radiated measurements in accordance with RSS 212, Issue 1 (Provisional). **Industry Canada File Number IC 4161**.

2.6.2 NATA Accreditation

EMC Technologies is accredited in Australia to test to the following standards by the National Association of Testing Authorities (NATA).

“FCC Part 15 unintentional and intentional emitters in the frequency range 9kHz to 18 GHz excluding TV receivers (15.117 and 15.119), TV interface devices (15.115), cable ready consumer electronic equipment (15.118), cable locating equipment (15.213) and unlicensed national information infrastructure devices (Sub part E).”

The current full scope of accreditation can be found on the NATA website: www.nata.asn.au
It also includes a large number of emission, immunity, SAR, EMR and Safety standards.

NATA is the Australian national laboratory accreditation body and has accredited EMC Technologies to operate to the IEC/ISO17025 requirements. A major requirement for accreditation is the assessment of the company and its personnel as being technically competent in testing to the standards. This requires fully documented test procedures, continued calibration of all equipment to the National Standard at the National Measurements Laboratory (NML) and an internal quality system to ISO 9002. NATA has mutual recognition agreements with the National Voluntary Laboratory Accreditation Program (NVLAP) and the American Association for Laboratory Accreditation (A²LA).

2.7 Test Equipment Calibration

All measurement instrumentation and transducers were calibrated in accordance with the applicable standards by an independent NATA registered laboratory such as Agilent Technologies (Australia) Pty Ltd or the National Measurement Laboratory (NML). All equipment calibration is traceable to Australia national standards at the National Measurements Laboratory. The reference antenna calibration was performed by NML and the working antennas (biconical and log-periodic) calibrated by the NATA approved procedures.

2.8 Ambients at OATS

The Open Area Test Site (OATS) is an area of low background ambient signals. No significant broadband ambients are present however commercial radio and TV signals exceed the limit in the FM radio, VHF and UHF television bands. Radiated prescan measurements were performed in the shielded enclosure to check for possible radiated emissions at the frequencies where the OATS ambient signals exceeded the test limit.



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RESULTS

WLAN Module – WM3945ABG (802.11a (NII))

3.0 RADIATED EMISSION MEASUREMENTS

3.1 Test Procedure

Testing was performed in accordance with the requirements of FCC Part 15.407(b).

Radiated emission measurements were performed to the limits as per section 15.209 and 15.407. The measurements were made at the open area test site.

The EUT was set up on the table top (placed on turntable) of total height 80 cm above the ground plane, and operated as described in section 2 of this report. The EMI Receiver was operated under software control via the PC Controller through the IEEE.488 Interface Bus Card Adaptor. The test frequency range was sub-divided into smaller bands with sufficient frequency resolution to permit reliable display and identification of possible EMI peaks while also permitting fast frequency scan times. Calibrated EMCO 3115, EMCO 3116 and ETS standard gain horn antennas were used for measurements between 1 to 40 GHz.

The measurement of emissions between 30 - 1000 MHz, refer to EMC test report M060108_Cert_WM3945ABG_NII with FCC ID: EJE-WL0010 (IC ID: 337J-WL0010).

The measurement of emissions above 1000 MHz, appearing in the restricted bands, was made using an average detector with a resolution bandwidth of 1.0 MHz.

The EUT was slowly rotated with the Peak Detector set to Max-Hold. This was performed for two antenna heights. When an emission was located, it was positively identified and its maximum level found by rotating the automated turntable, and by varying the antenna height. Each significant peak was investigated with the Quasi-Peak/Average Detectors. The measurement data for each frequency range was automatically corrected by the software for cable losses, antenna factors and preamplifier gain and all data was then stored on disk in sequential data files. This process was performed for both horizontal and vertical antenna polarisations.

3.2 Calculation of field strength

The field strength was calculated automatically by the software using all the pre-stored calibration data. The method of calculation is shown below:

E = V + AF - G + L Where:

E = Radiated Field Strength in dBμV/m.

V = EMI Receiver Voltage in dBμV. (measured value)

AF = Antenna Factor in dB(m⁻¹). (stored as a data array)

G = Preamplifier Gain in dB. (stored as a data array)

L = Cable loss in dB. (stored as a data array of Insertion Loss versus frequency)

- Example Field Strength Calculation**

Assuming a receiver reading of 34.0 dBμV is obtained at 90 MHz, the Antenna Factor at that frequency is 9.2 dB. The cable loss is 1.9 dB while the preamplifier gain is 20 dB. The resulting Field Strength is therefore as follows:

$$34.0 + 9.2 + 1.9 - 20 = 25.1 \text{ dB}\mu\text{V/m}$$

Measurement uncertainty with a confidence interval of 95% is:

- Free radiation tests (1000 MHz – 18,000 MHz) ± 4.1 dB



3.3 Results - Out of Band Emissions (Spurious and Harmonics)

All measurements above 1 GHz were initially made over a distance of 3 metres. This was decreased to 1.0 metre as the emission levels from the device were very low.

Measurements were performed on Fujitsu host notebook C1410. Only the highest band of the 5 GHz WLAN (5725 – 5850 MHz) was tested. The result for this band is reported under section 3.0 of EMC report M060434_Cert_WM3945ABG_DTS_Class_2.

For harmonics and spurious emissions of the WLAN installed in other host notebooks were reported under EMC Technologies report number: M060108_Cert_WM3945ABG_NII and M060108_Cert_WM3945ABG_NII_Class_2.

Testing was performed while both the WLAN transmitter and Bluetooth transmitter continuously operated.

3.3.1 Spurious and Harmonics

Refer to EMC Technologies report number: M060108_Cert_WM3945ABG_NII and M060108_Cert_WM3945ABG_NII_Class_2.

3.3.2 IM Spurious

There are no IM spurious emissions recorded when both radio modules (WLAN and Bluetooth) simultaneously transmitting.

Also refer to EMC Technologies report number: M060108_Cert_WM3945ABG_NII and M060108_Cert_WM3945ABG_NII_Class_2.

4.0 RADIO FREQUENCY EXPOSURE (HAZARD) INFORMATION

Testing was performed in accordance with the requirements of FCC Part 15.407(f)

Refer to EMC Technologies report number: M060108_Cert_WM3945ABG_NII and M060108_Cert_WM3945ABG_NII_Class_2.



5.0 COMPLIANCE STATEMENT

The INTEL Mini-PCI Wireless LAN Module (GOLAN 11a+b/g), Model: WM3945ABG installed in Fujitsu notebook PCs tested on behalf of Fujitsu Australia Ltd, **comply** with the **Class II Permissive Change** requirements of 47 CFR, Part 15 Subpart E -Section 15.407 (5.15-5.35 GHz, 5.47-5.725 GHz and 5.725-5.825 GHz bands).

The test sample also complies with the Industry Canada RSS-210 Issue 5 for frequency band 5250 to 5350 MHz and Issue 6 for frequency band 5150 to 5250 MHz (Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands)) clause 6.2.2(q1) requirements and the RF exposure requirements of RSS-102.

Results were as follows:

FCC Subpart E, Section 15.407

FCC Part 15, Subpart E Clauses	Industry Canada RSS-210 Clauses	Test Performed	Result
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The results for configurations IEEE 802.11b, IEEE 802.11g and IEEE802.11a (DTS: 5725 – 5850 MHz) are reported separately.

Refer to EMC Technologies' test report: M060434_Cert_WM3945ABG_DTS_Class_2 (DTS)



TEST REPORT APPENDICES

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