



EMC Technologies Pty Ltd
ABN 82 057 105 549
176 Harrick Road
Keilor Park Victoria Australia 3042

Ph: + 613 9365 1000
Fax: + 613 9331 7455
email: melb@emctech.com.au

EMI TEST REPORT FOR CERTIFICATION
to
FCC PART 15 Subpart C (Section 15.247) & RSS-210
Class II Permissive Change

FCC ID: PPD-AR5B97-F
Industry Canada ID: 4101A-AR5B97F

Radio Module: Atheros XSPAN 802.11gbn AR5B97 WLAN Module

Host NoteBook: LifeBook T Series
Model Numbers: T730 / TH700

Report Number: M100215_FCC_AR5B97_C2PC

Issue Date: 10th March 2010

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Class II Permissive Change
EMC Technologies Report No. M100215_FCC_AR5B97_C2PC
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Accreditation No. 5292

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Class II Permissive Change

Report No. M100215_FCC_AR5B97_C2PC

Radio Module: Atheros XSPAN 802.11g/bn AR5B97 WLAN Module
Manufacturer: Atheros Communications Inc

FCC ID: PPD-AR5B97-F
Industry Canada ID: 4101A-AR5B97F
Equipment Type: Intentional Radiator (Transceiver)

Host NoteBook: T730 / TH700 LifeBook
Manufacturer: Fujitsu Ltd - Mobile Computing Division
Address: 1-1 Kamikodanaka 4-Chome, Nakahara-Ku, Kawasaki, Japan
Contact: Mr. Tsuyoshi Uchihara

Test Standards: FCC Part 15 – Radio Frequency Devices (October 2009)
FCC Part 15 Subpart C - Intentional Radiators
Section 15.247: 2400 – 2483.5 MHz & 5725 – 5850 MHz Operation Bands
ANSI C63.4 – 2003

RSS-210 Issue 7 Low Power Licence-Exempt RadioCommunication
Devices Annex 8: 2400–2483.5 MHz & 5725–5850 MHz Operation Bands

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: 17th and 19th February 2010

Senior Test Engineer:




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:



Chieu Huynh
Senior EMC Engineer
EMC Technologies Pty Ltd



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Class II Permissive Change

1.0 INTRODUCTION

EMI testing was performed on the Atheros Half Mini-PCI Wireless LAN Module (HB97 802.11b/g/n 2x2), Model: AR5B97 installed in Fujitsu notebook PC, *Model numbers: T730 / TH700.

*The model numbers shown T730 and TH700 are for the same product.
The T730 is for commercial market (there is Port-Replicator as option).
The TH700 is for consumer market (there is no Port-Replicator).

The AR5B97 (HB97 802.11b/g/n 2x2) WLAN transmitter installed in the T730 / TH700 notebook is an Atheros Half Mini-PCI Wireless LAN Module. This module was originally certified by Atheros Communications as a modular approval under FCC ID: PPD-AR5B97-F (Canada ID: 4104A-AR5B97F).

The other transmitter installed in the T730 / TH700 notebook is BSMAN3 CSR Bluetooth Module. The Bluetooth module was originally certified by CSR as a modular approval under FCC ID: PIWBSMAN (Canada ID: 5255A-BSMAN).

The intention of this Class II Permissive Change application is to enable the certified AR5B97 Atheros module to be co-located with BSMAN3 CSR Bluetooth Module in host system Fujitsu LifeBook T Series, Model: T730 / TH700. Independent antennas are used for each of the Radio modules and simultaneous transmission is possible. The transmitter modules are installed in a controlled environment at the Fujitsu notebook production/assembly factory.

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

47 CFR, Part 15, Subpart C:	Rules for intentional radiators (particularly section 15.247)
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 15.247:	Operation in the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5850 MHz

The test sample **complied** with the requirements of 47 CFR, Part 15 Subpart C - Section 15.247.

The test sample also complied with the Industry Canada RSS-210 issue 7 - Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment, Annex 8 and the RF exposure requirements of RSS-102.

The measurement procedure used was in accordance with ANSI C63.4-2003. The instrumentation conformed to the requirements of ANSI C63.2-1996.



1.1 Summary of Results

FCC Subpart C, Section 15.247

FCC Part 15 Subpart C Clauses	Industry Canada RSS-210 Issue 7 and RSS-Gen Clauses	Test Performed	Results
15.203	RSS-Gen (7.1.4)	Antenna Requirement	Complies
15.205	2.2 (Table 1)	Operation in Restricted Band	Complies
15.207	RSS-Gen (7.2.2)	Conducted Emissions	Note 1
15.209	RSS-Gen (6)	Radiated Emissions	Complies
15.247 (a)(2)	A8.1 (b) (d)	Channel Bandwidth	Note 2
15.247 (b)(3)	A8.4	Peak Output Power	Note 2
15.247 (c)	RSS-Gen (7.1.4)	Antenna Gain > 6 dBi	Not Applicable. Antenna gain < 6 dBi
15.247 (d)	A8.5	Out of Band Emissions	Complies
15.247 (e)	A8.2 (b)	Peak Power Spectral Density	Note 2
15.247 (f)	A8.3	Hybrid Systems (Note 3)	Not Applicable. EUT does not employ a hybrid system
15.247 (g)	A8.1	Frequency Hopping	Not Applicable. EUT does not employ frequency hopping
15.247 (h)	A8.1	Frequency Hopping	Not Applicable. EUT does not employ frequency hopping
15.247 (i)	RSS-Gen (5.5)	Radio Frequency Hazard	Complies

Note 1: Refer to FCC Part 15B Test Report

Note 2: Refer to original approval under FCC ID: PPD-AR5B97 (Canada ID: 4104A-AR5B97)

Note 3: Hybrid systems are those that employ a combination of both frequency hopping and digital modulations technique.

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:	Half Mini-Card Wireless LAN Module
Wireless Module:	HB97 (11b/g/n) 2x2
Model Number:	AR5B97
Manufacturer:	Atheros Communication Inc,
Modulation Type:	Direct Sequence Spread Spectrum (DSSS for 802.11b) Orthogonal Frequency Division Multiplexing (OFDM for 802.11g/n)
2.4 GHz (802.11b/g/n):	CCK, DQPSK, DBPSK, BPSK, QPSK, 16QAM and 64QAM
Maximum Data Rate:	802.11b = 11Mbps 802.11g = 54Mbps 802.11n = 300 Mbps
Frequency Ranges:	2.412 –2.462 GHz for 11b/g/n
Number of Channels:	11 channels for 11b/g/n with 20 MHz bandwidth 7 channels for 11n with 40 MHz bandwidth
Antenna Types:	Nissei Inverted F (1 st , 2 nd) Locations: Left Top edge of LCD screen(1 st), Right Top edge of LCD screen(2 nd)
Antenna gain:	Max antenna gain is less than 6 dBi. Refer antenna data provided separately
Power Supply:	3.3 VDC from PCI Express bus

Channels and Output Powers:

Modes	Channels	Frequency MHz	Average Output Power (dBm)
802.11b	1	2412	17.02
	6	2437	17.25
	11	2462	16.21
802.11g	1	2412	14.8
	6	2437	17.6
	11	2462	11.94
802.11n 20 MHz	1	2412	13.88
	6	2437	17.37
	11	2462	11.32
802.11n 40 MHz	3	2422	12.15
	6	2437	15.13
	9	2452	10.1

The AR5B97 is capable of using multiple antennas transmitting simultaneously (two antennas). In any two antennas transmitting, the power level is 3 dB lower (50%) for each antenna port than if a single antenna was transmitting.



2.2 Host (Notebook PC) Details

Host:	LifeBook T series
*Model Numbers:	T730 / TH700
Serial Number:	Pre-production Sample
Manufacturer:	FUJITSU LIMITED
CPU Type and Speed:	Core i7 M620 2.66GHz
LCD	12.1" WXGA
Wired LAN:	Intel 82577LM / 82577LC: 10 Base-T/100 Base-TX/1000Base-T
Modem:	None
Port Replicator Model:	FPCPR94
AC Adapter Model:	80W: SEE100P2-19.0 (Sanken) and ADP-80NB A (Delta)
Voltage:	19V
Current Specs:	4.22A
Watts:	80W

*The model numbers shown T730 and TH700 are for the same product. The T730 is for commercial market (there is Port-Replicator as option). The TH700 is for consumer market (there is no Port-Replicator).

2.3 Test Configuration

The Atheros WLAN test software "ART" was used to transmit continuously during the tests.

Conducted tests were performed at the WLAN Antenna ports.

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

2.4 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.

2.5 Test Facility

2.5.1 General

EMC Technologies Pty Ltd is listed by the FCC as a test laboratory able to perform compliance testing for the public. EMC Technologies is listed as an FCC part 47CFR2.948 test lab and may perform the testing required under Parts 15 and 18 – **FCC Registration Number 90560**

EMC Technologies Pty Ltd has also been accredited as a Conformity Assessment Body (CAB) by Australian Communications and Media Authority (ACMA) under the APECTEL MRA and is designated to perform compliance testing on equipment subject to Declaration of Conformity (DoC) and Certification under Parts 15 & 18 of the FCC Commission's rules – **Registration Number 494713 & Designation number AU0001.**

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 OATS number - IC 3569B-1.**

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 Keilor Park, Victoria Australia.



2.5.2 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 emissions, 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 Institute (NMI) 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).

2.6 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 Institute (NMI). All equipment calibration is traceable to Australia national standards at the National Measurements Institute. The reference antenna calibration was performed by NMI and the working antennas (biconical and log-periodic) calibrated by the EMC Technologies. The complete list of test equipment used for the measurements, including calibration dates and traceability is contained in Appendix A

2.7 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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FCC 15.247 (DTS) RESULTS

3.0 CONDUCTED EMISSION MEASUREMENTS

Testing was performed by Fujitsu General EMC Laboratory, JAPAN accredited by NVLAP (Lab Code: 200373-0).

4.0 RADIATED SPURIOUS EMISSION MEASUREMENTS

4.1 Test Procedure

Testing was performed in accordance with the requirements of FCC Part 15.247(d).

Radiated emission measurements were performed to the limits as per section 15.209 and 15.247. The measurements were made at the open area test site. All measurements above 1 GHz were made over a distance of 3 and 1 metres.

Calibrated EMCO 3115, EMCO 3116 and ETS standard gain horn antennas were used for measurements between 1 to 25 GHz.

The measurement of emissions above 1000 MHz was measured using a following setting:

Peak measurements setting: RBW = VBW = 1 MHz

Average measurements setting: RBW = 1 MHz and VBW = 10 Hz

The receiver bandwidth was set to 6 dB.

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 Peak/Average Detectors. The measurement data for each frequency range was corrected for cable losses, antenna factors and preamplifier gain. This process was performed for both horizontal and vertical antenna polarisations.

4.2 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 dB μ V/m.

V = EMI Receiver Voltage in dB μ V. (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 dB μ V 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:

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



4.3 Radiated Emissions (Spurious and Harmonics)

This transmitter module was originally tested and certified by the manufacturer as a stand-alone module outside a laptop (host) with higher gain antennas. Refer to manufacturer's original FCC 15.247 AR5B97 test report for full results showing compliance with the spurious and harmonics limits. However, to ensure the transmitter module install in T730 / TH700 LifeBook is still in compliance, verification tests were performed at the worst case (frequencies with higher average output power) or selected frequencies for harmonics and spurious emissions.

All orientations were investigated and tested. Worst results were reported below.

4.3.1 Frequency Band: 1 – 25 GHz

The 74 dB μ V/m @ 3m and 54 dB μ V/m @ 3m limits are applied for emissions fall in the restricted bands. The limits for emission outside the restricted band are 20 dB below the fundamental field strength.

4.3.1.1 Configuration 802.11b

Initial investigations were performed with all data rates: (1 Mbps to 11 Mbps). Final testing was performed while the transmitter continuously operated with the data rate of 1 Mbps.

Harmonics were measured for channels where the average output power was highest.

Channel 6 - 2437 MHz

Frequency MHz	Peak Detector dBuV/m	Average Detector dBuV/m	Peak Limit dBuV/m	Average Limit dBuV/m	Result
2437	108.0	104.9	Transmitter Fundamental Level		
4874	55.8	54.0	74.0	54.0	Complied

Result: Harmonic and spurious emissions were recorded up to 25 GHz. Other harmonics were confirmed low with both RBW and VBW reduced. The worst case emissions complied with the FCC limits of sections 15.209 and 15.247 by a margin of 0 dB.

4.3.1.2 Configuration 802.11g and 802.11n

Harmonics were measured for channels where the average output power was highest.

Initial investigations were performed with all data rates: (6 Mbps to 54 Mbps and MCS0 to MCS7). Final testing was performed while the transmitter continuously operated in the worst case condition.

Channel 6 - 2437 MHz

Modes	Data Rates	Frequency MHz	Peak Detector dBuV/m	Average Detector dBuV/m	Peak Limit dBuV/m	Average Limit dBuV/m	Result
802.11g	6 Mbps	2437	111.8	100.9	Transmitter Fundamental Level		Complied
		4874	55.0	42.6	74.0	54.0	
802.11n 20 MHz	MCS0	2437	110.8	99.6	Transmitter Fundamental Level		Complied
		4874	55.4	41.8	74.0	54.0	
802.11n 40 MHz	MCS0	2437	105.9	94.8	Transmitter Fundamental Level		Complied
		4874	51.1	37.0	74.0	54.0	

Result: Spurious emissions were recorded up to 25 GHz. Harmonics were confirmed low with both RBW and VBW reduced. The worst case emissions complied with the FCC limits of sections 15.209 and 15.247 by a margin of greater than 10 dB.

4.3.2 Frequency Band: 30 - 1000 MHz

Testing was performed by Fujitsu General EMC Laboratory, JAPAN accredited by NVLAP (Lab Code: 200373-0).

4.3.3 RF Conducted Measurements at the Antenna Terminal (including Band Edge)

Refer to original approval under FCC ID: PPD-AR5B97 (Canada ID: 4104A-AR5B97) certified by Atheros.

Testing was performed by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch.



5.0 PEAK OUTPUT POWER - Section 15.247 (b)(3)

Refer to original approval under FCC ID: PPD-AR5B97 (Canada ID: 4104A-AR5B97) certified by Atheros.

Testing was performed by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch.

6.0 CHANNEL BANDWIDTH

Refer to original approval under FCC ID: PPD-AR5B97 (Canada ID: 4104A-AR5B97) certified by Atheros.

Testing was performed by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch.

7.0 PEAK POWER SPECTRAL DENSITY

Refer to original approval under FCC ID: PPD-AR5B97 (Canada ID: 4104A-AR5B97) certified by Atheros.

Testing was performed by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch.

8.0 RADIO FREQUENCY EXPOSURE (HAZARD) INFORMATION

Testing was performed in accordance with the requirements of FCC Part 15.247(i)

Spread spectrum transmitters operating in the 2400 - 2483.5 MHz and 5725 – 5850 MHz bands are required to be operated in a manner that ensures that the public is not exposed to RF energy levels in accordance with CFR 47, Section 1.1307(b)(1).

In accordance with this section and also section 2.1093 this device has been defined as a portable device.

SAR testing was performed in accordance with OET Bulletin 65 and reported under EMC Technologies reports M100216_FCC_AR5B97_SAR_2.4 (2.4 GHz). SAR values of 1.29 mW/g was measured which complied with the FCC human exposure requirements of 47 CFR 2.1093(d).

9.0 ANTENNA REQUIREMENT

This intentional radiator was designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.



10.0 COMPLIANCE STATEMENT

The Atheros Half Mini-PCI Wireless LAN Module (HB97 802.11b/g/n 2x2), Model: AR5B97 installed in Fujitsu notebook PC, Model: T730 / TH700, **complied** with the requirements of 47 CFR, Part 15 Subpart C - Rules for Radio Frequency Devices (intentional radiators), Section 15.247 - Operation in the frequency band 2400 - 2483.5 MHz.

The test sample also complied with the Industry Canada RSS-210 issue 7 - Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment, Annex 8 and the RF exposure requirements of RSS-102.

Results were as follows:

FCC Subpart C, Section 15.247

FCC Part 15 Subpart C Clauses	Industry Canada RSS-210 Issue 7 and RSS-Gen Clauses	Test Performed	Results
15.203	RSS-Gen (7.1.4)	Antenna Requirement	Complies
15.205	2.2 (Table 1)	Operation in Restricted Band	Complies
15.207	RSS-Gen (7.2.2)	Conducted Emissions	Note 1
15.209	RSS-Gen (6)	Radiated Emissions	Complies
15.247 (a)(2)	A8.1 (b) (d)	Channel Bandwidth	Note 2
15.247 (b)(3)	A8.4	Peak Output Power	Note 2
15.247 (c)	RSS-Gen (7.1.4)	Antenna Gain > 6 dBi	Not Applicable. Antenna gain < 6 dBi
15.247 (d)	A8.5	Out of Band Emissions	Complies
15.247 (e)	A8.2 (b)	Peak Power Spectral Density	Note 2
15.247 (f)	A8.3	Hybrid Systems (Note 3)	Not Applicable. EUT does not employ a hybrid system
15.247 (g)	A8.1	Frequency Hopping	Not Applicable. EUT does not employ frequency hopping
15.247 (h)	A8.1	Frequency Hopping	Not Applicable. EUT does not employ frequency hopping
15.247 (i)	RSS-Gen (5.5)	Radio Frequency Hazard	Complies

Note 1: Refer to FCC Part 15B Test Report

Note 2: Refer to original approval under FCC ID: PPD-AR5B97 (Canada ID: 4104A-AR5B97)

Note 3: Hybrid systems are those that employ a combination of both frequency hopping and digital modulations technique.



11.0 MEASUREMENT UNCERTAINTIES

EMC Technologies has evaluated the equipment and the methods used to perform the emissions testing. The estimated measurement uncertainties for emissions tests shown within this report are as follows:

Conducted Emissions:	9 kHz to 30 MHz	±3.2 dB
Radiated Emissions:	30 MHz to 300 MHz	±5.1 dB
	300 MHz to 1000 MHz	±4.7 dB
	1 GHz to 18 GHz	±4.6 dB

The above expanded uncertainties are based on standard uncertainties multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

12.0 TEST REPORT APPENDICES

MEASUREMENT INSTRUMENT DETAILS

PHOTOGRAPHS

ANTENNA INFORMATION

FCC LABELLING DETAILS

USER MANUAL

RF Exposure Information

FCC DOC for LifeBook T Series

FCC Part 15B Test Report

Atheros FCC 15.247 AR5B97 Test Report



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