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**EMI TEST REPORT FOR CERTIFICATION  
to  
FCC PART 15 Subpart C (Section 15.247) & RSS-210**

**FCC ID:** EJE-WL0021  
**Industry Canada ID:** 337J-WL0021

**Test Sample:** LifeBook T Series  
**Model:** T730 / TH700

**Radio Modules:** Intel Centrino 6200 Puma Peak 622ANHMW WLAN  
Module

**Report Number:** M100213\_FCC\_622ANHMW\_DTS

**Issue Date:** 9<sup>th</sup> March 2010

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**EMI TEST REPORT FOR CERTIFICATION**  
**to**  
**FCC PART 15 Subpart C (Section 15.247) & RSS-210**  
**EMC Technologies Report No. M100213\_FCC\_622ANHMW\_DTS**  
**Issue Date: 9<sup>th</sup> March 2010**

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**EMI TEST REPORT FOR CERTIFICATION**  
**to**  
**FCC PART 15 Subpart C (Section 15.247) & RSS-210**

**Report No. M100213\_FCC\_622ANHWMW\_DTS**

**Test Sample:** LifeBook T Series  
**Model:** T730 / TH700  
**Radio Modules:** Intel Centrino 6200 Puma Peak 622ANHWMW WLAN Module

**FCC ID:** EJE-WL0021  
**Industry Canada ID:** 337J-WL0021  
**Equipment Type:** Intentional Radiator (Transceiver)

**Manufacturer (LifeBook):** Fujitsu Ltd  
**Address:** 1-1 Kamikodanaka 4-Chome, Nakahara-Ku, Kawasaki, Japan  
**Contact:** Mr. Tsuyoshi Uchihara, Mobile Computing Division

**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:** 1<sup>st</sup> to 2<sup>nd</sup> March 2010


**Senior 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**



**EMI TEST REPORT FOR CERTIFICATION**  
**to**  
**FCC PART 15 Subpart C (Section 15.247) & RSS-210**

## 1.0 INTRODUCTION

EMI testing was performed on the Fujitsu notebook PC, Model: T730 / TH700 with Intel Centrino Advanced-N 6200 (Puma Peak 802.11a/b/g/n 2x2), Model: 622ANHMW.

The Puma Peak 2x2 WLAN module was originally certified by INTEL as a modular approval under FCC ID: PD9622ANH (Canada ID: 1000M-622ANH). The Radio modules are installed in a controlled environment at the Fujitsu notebook production/assembly factory.

The intention of this application is to FCC certify Intel Centrino Advanced-N 6200 (Puma Peak 802.11a/b/g/n 2x2), Model: 622ANHMW installed in Fujitsu LifeBook T Series, Model: T730 / TH700.

The 622ANHMW 2x2 WLAN supports IEEE 802.11b, IEEE 802.11g, IEEE 802.11a and IEEE 802.11n (DTS & U-NII) configurations.

DTS results for configurations IEEE 802.11b, IEEE 802.11g, IEEE 802.11a and IEEE 802.11n are reported in this test report.

The NII (WLAN) is submitted separately under NII submission.

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	<b>Complies</b>
15.205	2.2 (Table 1)	Operation in Restricted Band	<b>Complies</b>
15.207	RSS-Gen (7.2.2)	Conducted Emissions	<b>Note 1</b>
15.209	RSS-Gen (6)	Radiated Emissions	<b>Complies</b>
15.247 (a)(2)	A8.1 (b) (d)	Channel Bandwidth	<b>Note 2</b>
15.247 (b)(3)	A8.4	Peak Output Power	<b>Note 2</b>
15.247 (c)	RSS-Gen (7.1.4)	Antenna Gain > 6 dBi	<b>Not Applicable.</b> Antenna gain < 6 dBi
15.247 (d)	A8.5	Out of Band Emissions	<b>Complies</b>
15.247 (e)	A8.2 (b)	Peak Power Spectral Density	<b>Note 2</b>
15.247 (f)	A8.3	Hybrid Systems (Note 3)	<b>Not Applicable.</b> EUT does not employ a hybrid system
15.247 (g)	A8.1	Frequency Hopping	<b>Not Applicable.</b> EUT does not employ frequency hopping
15.247 (h)	A8.1	Frequency Hopping	<b>Not Applicable.</b> EUT does not employ frequency hopping
15.247 (i)	RSS-Gen (5.5)	Radio Frequency Hazard	<b>Complies</b>

**Note 1:** Refer to Attachment 3, FCC Part 15B Test Report

**Note 2:** Refer to original approval under FCC ID: PD9622ANH (Canada ID: 1000M-622ANH)

**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

<b>Transmitter:</b>	Half Mini-Card Wireless LAN Module
<b>Wireless Module:</b>	Intel Centrino Advanced-N 6200 Puma Peak 2x2 (11a/b/g/n)
<b>Model Number:</b>	622ANHMMW
<b>Manufacturer:</b>	Intel Corporation
<b>Frequency Ranges:</b>	2.412 – 2.462 GHz 5.18 - 5.32 GHz, 5.5 – 5.7 GHz and 5.745 - 5.825 GHz
<b>Maximum Data Rates:</b>	802.11b = 11Mbps, 802.11g and 802.11a = 54Mbps 802.11n = 450 Mbps
<b>Antenna Types:</b>	Nissei Electric Inverted F (1 <sup>st</sup> , 2 <sup>nd</sup> )
<b>Antenna gain:</b>	Max antenna gain is less than 6 dBi. Refer antenna data provided separately
<b>Power Supply:</b>	3.3 VDC from PCI bus

#### Channels and Output Power Settings:

Modes	Channels	Frequency MHz	Average Output Power (dBm)
<b>802.11b</b>	1, 6 and 11	2412, 2437 and 2462	16.5
<b>802.11g</b>	1	2412	15.5
	6	2437	16.5
	11	2462	15.5
<b>802.11a</b>	36, 40 and 48	5180, 5200 and 5240	16.5
	52, 60 and 64	5260, 5300 and 5320	
	100, 120 and 140	5500, 5600 and 5700	
	149, 157 and 165	5745, 5785 and 5825	14.5
<b>802.11n 20MHz Bandwidth</b>	1	2412	15.5
	6	2437	16.5
	11	2462	15.5
	36, 40 and 48	5180, 5200 and 5240	16.5
	52, 60 and 64	5260, 5300 and 5320	
	100, 120 and 140	5500, 5600 and 5700	
	149, 157 and 165	5745, 5785 and 5825	14.5
<b>802.11n 40MHz Bandwidth</b>	3	2422	12
	6	2437	16.5
	9	2452	12
	38, 54 and 62	5190, 5270 and 5310	16.5
	102, 118 and 134	5510, 5590 and 5670	
	151 and 159	5755 and 5795	14.5

The 622ANHMMW 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.

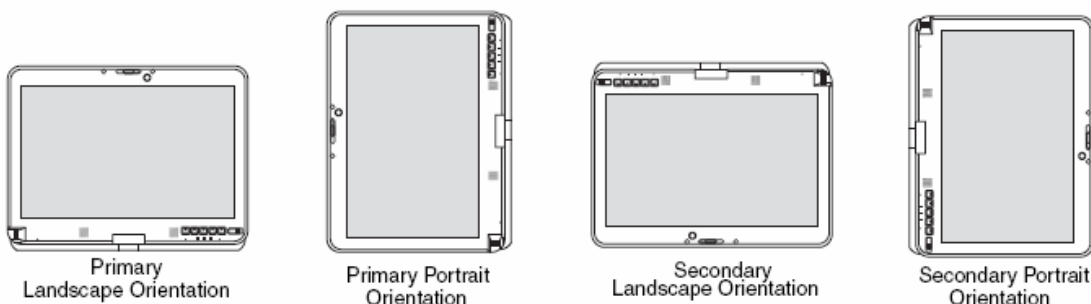
The results stated in this test report are for worst case output power shown in the table above. If output powers of any channels 149 to 165 are to be increased higher than 14.5 dBm, then the secondary portrait orientation (position) of the tablet must be disabled in order to comply with the FCC rules. Refer to section 2.2 for orientations.



## 2.2 EUT (Notebook PC) Details

<b>NoteBook PC:</b>	LifeBook T series
<b>*Model Name:</b>	T730 / TH700
<b>Serial Number:</b>	Pre-production Sample
<b>Manufacturer:</b>	FUJITSU LIMITED
<b>CPU Type and Speed:</b>	Core i7 M620 2.66GHz
<b>LCD:</b>	12.1" WXGA
<b>Wired LAN:</b>	Intel 82577LM / 82577LC: 10 Base-T/100 Base-TX/1000Base-T
<b>Modem:</b>	None
<b>Port Replicator Model:</b>	FPCPR94
<b>AC Adapter Model:</b>	80W: SEE100P2-19.0 (Sanken) and ADP-80NB A (Delta)
<b>Voltage:</b>	19V
<b>Current Specs:</b>	4.22A
<b>Watts:</b>	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 Intel WLAN test software "CRTU" was used to transmit continuously during the tests.

Conducted tests were performed at the WLAN Antenna ports.

Radiated harmonics and spurious emissions were performed while the transmitter transmits continuously.

## 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](http://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 (A<sup>2</sup>LA).

## 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 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.



## 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 40 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 dBμV/m.

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

**AF** = Antenna Factor in dB(m<sup>-1</sup>). (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:

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



### 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 test report (Attachment 4) 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 – 40 GHz

The 74 dB $\mu$ V/m @ 3m and 54 dB $\mu$ 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.

Testing was performed while the WLAN transmitter continuously operated. Harmonics related to the WLAN transmitter operated in the frequency bands 2.4 – 2.4835 GHz and 5.725 – 5.850 GHz are reported below. Harmonics in the frequency bands 5.15 – 5.35 GHz and 5.47 – 5.725 GHz, refer to M100213\_FCC\_622ANHMW\_NII.

##### 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 11 - 2462 MHz

Frequency MHz	Peak Detector dBuV/m	Average Detector dBuV/m	Peak Limit dBuV/m	Average Limit dBuV/m	Result
2462	104.6	100.3	Transmitter Fundamental Level		
4924	46.8	40.1	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 > 10 dB.

**4.3.1.2 Configuration 802.11g and 802.11n**

Measurements were performed with the EUT operating in the worst case mode of single antenna transmitting and the data rate at 6 Mbps or MCS0. For multiple antennas transmitting like two antennas transmitting, the power level is 3 dB lower (50%) with respect to single antenna mode.

Harmonics were measured for channels where the RF 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.

**802.11g - Channel 11 - 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	107.8	98.1	Transmitter Fundamental Level		Complied
		4874	49.5	35.0	74.0	54.0	

**802.11n - Tx BW = 20 MHz, 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
802.11n	MCS0	2437	107.9	97.1	Transmitter Fundamental Level		Complied
		4874	48.4	34.6	74.0	54.0	

**802.11n - Tx BW = 40 MHz, 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
802.11n	MCS0	2437	105.8	95.2	Transmitter Fundamental Level		Complied
		4874	47.4	33.5	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 > 10 dB.

#### 4.3.1.3 Configuration 802.11a and 802.11n

Measurements were performed with the EUT operating in the worst case mode of single antenna transmitting and the data rate at 6 Mbps or MCS0. For multiple antennas transmitting like two antennas transmitting, the power level is 3 dB lower (50%) with respect to single antenna mode.

Harmonics were measured for channels where the RF 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.

##### 802.11a - Channel 149 - 5745 MHz

Modes	Data Rates	Frequency MHz	Peak Detector dBuV/m	Average Detector dBuV/m	Peak Limit dBuV/m	Average Limit dBuV/m	Result
802.11a	6 Mbps	5745	104.8	95.2	Transmitter Fundamental Level		Complied
		Harmonics and spurious are low					

##### 802.11n - Tx BW = 20 MHz, Channel 165 - 5825 MHz

802.11n TX BW = 20 MHz, Channel 100 - 52.0 MHz							
Modes	Data Rates	Frequency MHz	Peak Detector dBuV/m	Average Detector dBuV/m	Peak Limit dBuV/m	Average Limit dBuV/m	Result
802.11n	MCS0	5825	103.1	93.8	Transmitter Fundamental Level		Complied
		Harmonics and spurious are low					

##### 802.11n - Tx BW = 40 MHz, Channel 159 - 5795 MHz

Modes	Data Rates	Frequency MHz	Peak Detector dBuV/m	Average Detector dBuV/m	Peak Limit dBuV/m	Average Limit dBuV/m	Result
802.11n	MCS0	5795	101.7	91.9	Transmitter Fundamental Level		Complied
		Harmonics and spurious are low					

**Result:** Harmonic and spurious emissions were recorded up to 40 GHz. Other harmonics were low and confirmed with both RBW and VBW reduced. Emissions complied with the FCC limits of section 15.209 and 15.247 by a margin of > 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: PD9622ANH (Canada ID: 1000M-622ANH) certified by INTEL.

Testing was performed by Aegis Labs, Inc CA, USA accredited by A2LA (Certificate Number: 1111.01)



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

Refer to original approval under FCC ID: PD9622ANH (Canada ID: 1000M-622ANH) certified by INTEL.

Testing was performed by Aegis Labs, Inc CA, USA accredited by A2LA (Certificate Number: 1111.01)

## 6.0 CHANNEL BANDWIDTH

Refer to original approval under FCC ID: PD9622ANH (Canada ID: 1000M-622ANH) certified by INTEL.

Testing was performed by Aegis Labs, Inc CA, USA accredited by A2LA (Certificate Number: 1111.01)

## 7.0 PEAK POWER SPECTRAL DENSITY

Refer to original approval under FCC ID: PD9622ANH (Canada ID: 1000M-622ANH) certified by INTEL.

Testing was performed by Aegis Labs, Inc CA, USA accredited by A2LA (Certificate Number: 1111.01)

## 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 M100214\_FCC\_622ANHMW\_SAR\_2.4 (2.4 GHz) and M100214\_FCC\_622ANHMW\_SAR\_5.6 (5.18 – 5.825 GHz). SAR values of 1.47 mW/g (DTS) and 1.32 mW/g (NII) were 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 Fujitsu notebook PC, Model: T730 / TH700 with Intel Centrino Advanced-N 6200 (Puma Peak 802.11a/b/g/n 2x2), Model: 622ANHWMW, **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 and 5725 – 5850 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	<b>Complies</b>
15.205	2.2 (Table 1)	Operation in Restricted Band	<b>Complies</b>
15.207	RSS-Gen (7.2.2)	Conducted Emissions	<b>Note 1</b>
15.209	RSS-Gen (6)	Radiated Emissions	<b>Complies</b>
15.247 (a)(2)	A8.1 (b) (d)	Channel Bandwidth	<b>Note 2</b>
15.247 (b)(3)	A8.4	Peak Output Power	<b>Note 2</b>
15.247 (c)	RSS-Gen (7.1.4)	Antenna Gain > 6 dBi	<b>Not Applicable.</b> Antenna gain < 6 dBi
15.247 (d)	A8.5	Out of Band Emissions	<b>Complies</b>
15.247 (e)	A8.2 (b)	Peak Power Spectral Density	<b>Note 2</b>
15.247 (f)	A8.3	Hybrid Systems (Note 3)	<b>Not Applicable.</b> EUT does not employ a hybrid system
15.247 (g)	A8.1	Frequency Hopping	<b>Not Applicable.</b> EUT does not employ frequency hopping
15.247 (h)	A8.1	Frequency Hopping	<b>Not Applicable.</b> EUT does not employ frequency hopping
15.247 (i)	RSS-Gen (5.5)	Radio Frequency Hazard	<b>Complies</b>

**Note 1:** Refer to Attachment 3, FCC Part 15B Test Report

**Note 2:** Refer to original approval under FCC ID: PD9622ANH (Canada ID: 1000M-622ANH)

**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:

<b>Conducted Emissions:</b>	9 kHz to 30 MHz	±3.2 dB
<b>Radiated Emissions:</b>	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

**APPENDIX A: MEASUREMENT INSTRUMENT DETAILS**

**APPENDIX B: PHOTOGRAPHS**

**APPENDIX C: OPERATIONAL DESCRIPTION**

**APPENDIX D: BLOCK DIAGRAM**

**APPENDIX E: ANTENNA INFORMATION**

**APPENDIX F: SCHEMATIC**

**APPENDIX G: FCC LABELLING DETAILS**

**APPENDIX H: USER MANUAL**

**Attachment 1: RF Exposure Information**

**Attachment 2: FCC DOC for LifeBook T Series**

**Attachment 3: FCC Part 15B Test Report**

**Attachment 4: Intel FCC Part 15.247 Test Report**

