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

FCC ID: EJE-WB0035

Industry Canada ID: 337J-WB0035

Test Sample: LifeBook P Series

Model: P7120

Radio Modules: WM3B2915ABG Mini-PCI WLAN (Calexico2 11a+b/g) &
UGXZ5-102A Bluetooth

Report Number: M050752_Cert_WM3B2915ABG_DTS_BT

Tested for: Fujitsu Australia Ltd.

Issue Date: 30th August 2005

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EMI TEST REPORT FOR CERTIFICATION
to
FCC PART 15 Subpart C (Section 15.247) & RSS-210
EMC Technologies Report No. M050752_Cert_WM3B2915ABG_DTS_BT
Issue Date: 30th August 2005

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Refer to Report No: M050752_Cert_WM3B2915ABG_NII_BT

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

Report Number: M050752_Cert_WM3B2915ABG_DTS_BT

Test Sample: LifeBook P Series
Model: P7120
Radio Modules: Mini-PCI WLAN, Model: WM3B2915ABG (Intel Corp.)
Bluetooth, Model: UGXZ5-102A (Fujitsu Ltd)

FCC ID: EJE-WB0035
Industry Canada ID: 337J-WB0035
Equipment Type: Intentional Radiator (Transceiver)

Manufacturer (LifeBook): Fujitsu Ltd
Address: 1405, Ohamaru, Inagi-shi, Tokyo 206-8503, Japan
Contact: Mr. Tsuyoshi Uchihara

Tested for: Fujitsu Australia Ltd

Test Standards: FCC Part 15, Subpart C – Intentional Radiators
FCC Part 15.247: 2400 – 2483.5 MHz & 5725 – 5850 MHz Operation Band
ANSI C63.4 – 2003
OET Bulletin No. 65

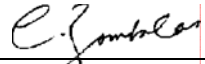
RSS-210 Issue 5 Low Power Licence-Exempt RadioCommunication Devices:
6.2.2 (o) 2400 – 2483.5 MHz & 5725 – 5850 MHz Spread Spectrum

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: 2nd to 26th August 2005

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 C (Section 15.247) & RSS-210

1.0 INTRODUCTION

EMI testing was performed on test sample LifeBook P Series, Model: P7120 with Mini-PCI Wireless LAN Module (Calexico2 11a+b/g), Model WM3B2915ABG & Bluetooth, Model UGXZ5-102A.

The Calexico2 WLAN supports IEEE 802.11b, IEEE 802.11g and IEEE802.11a (DTS & U-NII) configurations. Tests were performed in all three configurations and also on the Bluetooth.

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

The results for IEEE 802.11a (U-NII) and Bluetooth are reported separately. Refer to EMC Technologies' test report: M050752_Cert_WM3B2915ABG_NII_BT (U-NII) and M050752_Cert_BT_WM3B2915ABG (Bluetooth).

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 5 (Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands)) clause 6.2.2(o) and the RF exposure requirements of RSS-102.

1.1 Summary of Results

1.1.1 WLAN, Calexico2 802.11b, 802.11g and 802.11a (DTS) - 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 | Not Applicable |
| 15.205 | 6.3 | Operation in Restricted Band | Complies |
| 15.207 | 6.6 | Conducted Emissions | Complies |
| 15.209 | 6.3 | Radiated Emissions | Complies |
| 15.247 (a)(2) | 6.2.2(o)(iv) | Channel Bandwidth | Complies |
| 15.247 (b)(3) | 6.2.2(o)(b) | Peak Output Power | Complies |
| 15.247 (i) | | Radio Frequency Hazard | *Complies with SAR requirements |
| 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 | Complies |



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1.1.2 WLAN, Caletico2 802.11a (U-NII) - 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 | Not Applicable |
| 15.205 | 6.3 | Operation in Restricted Band | Complies |
| 15.207 | 6.6 | Conducted Emissions | Complies |
| 15.209 | 6.3 | Radiated Emissions | Complies |
| 15.407 (a)(1) (a)(2) | 6.2.2(q1) | Peak Transmit Power | Complies |
| 15.407 (a)(5) | 6.2.2(q1) | Peak Power Spectral Density | Complies |
| 15.407 (a)(6) | | Peak Excursion | Complies |
| 15.407 (b) | 6.2.2(q1) | Undesirable Emission | Complies |
| 15.407 (f) | | Radio Frequency Hazard | *Complies with SAR requirements |
| 15.407 (g) | 6.4 | Frequency Stability | Complies |

Refer to EMC Technologies Report No: M050752_Cert_WM3B2915ABG_NII_BT

1.1.3 Bluetooth - 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 | Not Applicable |
| 15.205 | 6.3 | Operation in Restricted Band | Complies |
| 15.207 | 6.6 | Conducted Emissions | Complies |
| 15.209 | 6.3 | Radiated Emissions | Complies |
| 15.247 (a)(1) | 6.2.2(o)(ii) | Channel Occupancy/Bandwidth | Complies |
| 15.247 (b)(1) | 6.2.2(o)(b) | Peak Output Power | Complies |
| 15.247 (i) | | Radio Frequency Hazard | *Complies with SAR requirements |
| 15.247 (d) | 6.2.2(o)(e1) | Out of Band Emissions | Complies |

Refer to EMC Technologies Report No: M050752_Cert_BT_WM3B2915ABG

*Refer to EMC Technologies' report M050753_Cert_WM3B2915ABG_SAR_2.4 and M050753_Cert_WM3B2915ABG_SAR_5.2

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.



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2.0 GENERAL INFORMATION

(Information supplied by the Client)

2.1 Product Details

| | |
|--------------------------------|--|
| Test Sample (LifeBook): | LifeBook P Series |
| Model Number: | P7120D |
| Serial Number: | Pre-production Sample |
| Manufacturer: | Fujitsu Ltd |
| CPU Type and Speed: | Pentium-M 1.2 GHz ULV Celeron-M 1.0 GHz ULV |
| LCD: | 10.6" WXGA |
| Wired LAN: | Realtech RTL8100C : 10 Base-T/100 Base-TX |
| Modem: | Agere MDC 1.5, Model: AM2 |
| Port Replicator Model: | FPCPR62 |
| AC Adapter Model: | SEC80N2-16.0 (Sanken) / US25 (Eastern) |
| Voltage: | 16 V |
| Current Specs: | 3.75A |
| Watts: | 60 W |
| Radio Modules: | WLAN (Calexico2 11a+b/g) and Bluetooth |
| WLAN Model Number: | WM3B2915ABG |
| WLAN Manufacturer: | Intel Corporation |
| Interface Type: | Mini-PCI Wireless LAN Module |
| Bluetooth Model Number: | UGXZ5-102A |
| Bluetooth Manufacturer: | Fujitsu Ltd |
| FCC ID: | EJE-WB0035 |
| Industry Canada ID: | 337J-WB0035 |
| Equipment Type: | Intentional Radiator (Transceiver) |



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2.2 Technical Specifications

2.2.1 WLAN Transmitter Specifications

| | |
|----------------------------|--|
| Transmitter: | Mini-PCI Wireless LAN Module |
| Wireless Module: | Calexico2 (11a+b/g) |
| Model Number: | WM3B2915ABG |
| 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 | BPSK – 6Mbps, 9Mbps QPSK – 12Mbps, 18Mbps 16QAM – 24Mbps, 36Mbps 64QAM – 48Mbps, 54Mbps |
| 802.11g | BPSK – 6Mbps, 9Mbps QPSK – 12Mbps, 18Mbps 16QAM – 24Mbps, 36Mbps 64QAM – 48Mbps, 54Mbps |
| 802.11b | DBPSK – 1Mbps DQPSK – 2Mbps CCK – 5.5Mbps, 11Mbps |
| Maximum Data Rate: | 802.11b = 11Mbps, 802.11g and 802.11a = 54Mbps |
| 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 |
| Antenna Types: | Nissei Electric Inverted-F |
| Models: | CP254654 (left) and CP254655 (right) Located on top edge of LCD screen |
| Antenna gain: | 802.11b/g = 1.9 dBi 802.11a (5.15 – 5.35 GHz) = 1.23 dBi 802.11a (5.725 – 5.825 GHz) = 1.94 dBi |
| Max. Output Power: | 802.11b = 15 dBm 802.11g = 14 dBm 802.11a = 10-14 dBm |
| Power Supply: | 3.3 VDC from PCI bus |
| Chipset Used: | 82533MDE and 82533RGE |

Frequency allocation and maximum output power setting for 802.11b/g:

| Channel Number | Frequency (MHz) | EUT Power level setting dBm | |
|----------------|-----------------|-----------------------------|---------|
| | | 802.11b | 802.11g |
| 1 | 2412* | 15 | 14 |
| 2 | 2417 | 15 | 14 |
| 3 | 2422 | 15 | 14 |
| 4 | 2427 | 15 | 14 |
| 5 | 2432 | 15 | 14 |
| 6 | 2437* | 15 | 14 |
| 7 | 2442 | 15 | 14 |
| 8 | 2447 | 15 | 14 |
| 9 | 2452 | 15 | 14 |
| 10 | 2457 | 15 | 14 |
| 11 | 2462* | 15 | 14 |

*Channels tested and reported in this report



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Frequency allocation and maximum output power setting for 802.11a:

| Channel Number | Frequency (MHz) | Power level setting dBm |
|--|-----------------|-------------------------|
| *Channels tested and reported in this report (DTS) | | |
| 149 | 5745* | 14 |
| 153 | 5765 | 14 |
| 157 | 5785* | 14 |
| 161 | 5805 | 14 |
| 165 | 5825* | 14 |
| *Channels tested and reported in the U-NII submission (M050752_Cert_WM3B2915ABG_NII_BT) | | |
| 36 | 5180* | 10 |
| 40 | 5200 | 10 |
| 44 | 5220 | 10 |
| 48 | 5240 | 10 |
| 52 | 5260* | 14 |
| 56 | 5280 | 14 |
| 60 | 5300 | 14 |
| 64 | 5320* | 14 |

2.2.2 Bluetooth Transmitter Specifications

Transmitter: Bluetooth
Model Number: UGXZ5-102A
Manufacturer: Fujitsu Ltd
Network Standard: Bluetooth™ RF Test Specification
Modulation Type: Frequency Hopping Spread Spectrum (FHSS)
Frequency Range: 2402 MHz to 2480 MHz
Number of Channels: 79
Carrier Spacing: 1.0 MHz
Antenna Types: Yokowo Monopole Chip Antenna
Model: YCE-5250
Location: Right palm rest area
Antenna gain: 2.78 dBi
Max. Output Power: 12 dBm
Reference Oscillator: 16 MHz (Built-in)
Power Supply: 3.3 VDC from host.

Frequency allocation:

| Channel Number | Frequency (MHz) | Bluetooth Utility power setting |
|----------------|-----------------|---------------------------------|
| 1* | 2402 | Power (Ext, Int) = 180, 45 |
| 2 | 2403 | |
| 3 | 2404 | |
| . | . | |
| . | . | |
| . | . | |
| 39 | 2440 | |
| 40* | 2441 | |
| 41 | 2442 | |
| . | . | |
| . | . | |
| . | . | |
| 77 | 2478 | |
| 78 | 2479 | |
| 79* | 2480 | |

*Channels tested and reported in the Bluetooth submission (M050752_Cert_BT_WM3B2915ABG)



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2.3 Operational Description

The EUT is a LifeBook P Series, Model: P7120 installed with a Mini-PCI Wireless LAN (WLAN) Module (Calexico2 11a+b/g, Model WM3B2915ABG) & Bluetooth, Model UGXZ5-102A.

The same WLAN radio module and Bluetooth combination has been previously certified by Fujitsu under FCC ID: EJE-WB0030 and IC: 337J-WB0030 in a different host.

The intention of this application is to re-certify this WLAN and Bluetooth with a different antenna combination in host – LifeBook P Series, Model: P7120.

2.4 Test Configuration

The Intel WLAN software and the BlueSuiteCasira software were used to set-up the WLAN module and Bluetooth devices respectively to continuously transmit during the tests. The LCD screen was observed for the transmitter status shown for the respective software.

Antenna

The Calexico2 (11a+b/g) WLAN, Model WM3B2915ABG is configured with Nissei Electric Inverted-F Antenna, Models: CP254654 and CP254655. The ALPS Bluetooth device is configured with Yokowo Monopole Antenna, Model: YCE-5250. The installation of the OEM WLAN module, Bluetooth Device and the Antennas in Fujitsu LifeBook P Series, Model: P7120 is in a controlled environment. The installation is performed during the production/assembly process at the Fujitsu factory.

Refer to Appendix F – Antenna Information.

There are three antennas: WLAN antennas (x2) are located on the right hand side and left hand side on the top edge of the LCD screen. Bluetooth antenna is located on the right palm rest area.

Refer to photos in Appendix B3 for WLAN Antenna locations.

AC Adapter

The AC adapter SEC80N2-16.0 was used for all the tests. Details of the AC adapter are supplied in section 2.1 of this report.

2.5 Block Diagram

Refer to Appendix D - Block Diagram

2.6 Support Equipment

Refer to Attachment 3 – FCC Part 15B Test Report (Report: FG05-073EAL)

2.7 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.



2.8 Test Facility

2.8.1 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.

2.8.2 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).

2.9 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. The complete list of test equipment used for the measurements, including calibration dates and traceability is contained in Appendix A

2.10 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 – WM3B2915ABG (802.11b, 802.11g and 802.11a (DTS))

3.0 CONDUCTED EMISSION MEASUREMENTS

Testing was performed in accordance with the requirements of FCC Part 15.207
Refer to Attachment 3 – FCC Part 15B Test Report (Report: FG05-073EAL)

4.0 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. 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 Attachment 3 – FCC Part 15B Test Report (Report: FG05-073EAL).

The measurement of emissions above 1000 MHz, appearing in the restricted bands, was made using an average detector with a 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 software for cable losses automatically corrected the measurement data for each frequency range, 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.

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:

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

Measurement uncertainty with a confidence interval of 95% is:

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



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4.3 Radiated Emissions (Spurious and Harmonics)

4.3.1 Frequency Band: 1 – 40 GHz

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.

The 54 dB μ V/m limit at 3 metres has been converted to 64 dB μ V/m at 1 metre using a factor of 20 dB per decade where emissions were located in the restricted bands.

Testing was performed with the WLAN transmitter continuously operated. Harmonics related to the WLAN transmitter (2.4 – 2.4835 GHz and 5725 – 5850 GHz) are reported below. Harmonics in the frequency band (5.15 – 5.35 GHz), refer to M050752_Cert_WM3B2915ABG_NII_BT. Harmonics related to the Bluetooth transmitter, refer to M050752_Cert_BT_WM3B2915ABG.

4.3.1.1 Configuration 802.11b

Initial investigations were performed with three modulation types: (DBPSK, DQPSK and CCK). No significant differences in emissions were observed. Final testing was performed while the transmitter continuously operated with the modulation rate of 11 Mbps (CCK).

When the EUT was operating at its highest channel (2462 MHz), the field strength at 2483.5 MHz was 56.6 dB μ V/m peak and 43.1 dB μ V/m average and was > 20 dB below the maximum field strength of the in-band carrier.

When the EUT was operating at its lowest channel (2412 MHz), the field strength at 2400 MHz was 69.8 dB μ V/m peak and 60.4 dB μ V/m average and was > 20 dB below the maximum field strength of the in-band carrier.

Channel 1 - 2412 MHz

| Frequency MHz | Level dB μ V/m | | Antenna Polarization | Peak Limit dB μ V/m | Average Limit dB μ V/m | Result |
|---------------|--------------------|------------------|----------------------|-------------------------|----------------------------|--------|
| | Peak Detector | Average Detector | | | | |
| 2412 | Transmitter | Fundamental | | | | |
| 4824 | 49.2 | 42.3 | Vert/Hort | 74.0 | 54.0 | Pass |
| 7236 | 46 | 37 | Vert/Hort | - | - | Pass |
| 9648 | 48 | 39 | Vert/Hort | - | - | Pass |
| 12060 | 51 | 41 | Vert/Hort | 74.0 | 54.0 | Pass |
| 14472 | 55 | 46 | Vert/Hort | 74.0 | 54.0 | Pass |
| 16884 | 56 | 49 | Vert/Hort | - | - | Pass |
| 19296 | 65 | 52 | Vert/Hort | 84.0* (1m) | 64.0* (1m) | Pass |
| 21708 | 67 | 54 | Vert/Hort | - | - | Pass |
| 24120 | 68 | 55 | Vert/Hort | - | - | Pass |
| 6432.1 | 55.6 | 44.8 | Vert/Hort | - | - | Pass |

*Measurement was performed at 1 metre distance and the limits were corrected accordingly.



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Channel 6 - 2437 MHz

| Frequency MHz | Level dBuV/m | | Antenna Polarization | Peak Limit dBuV/m | Average Limit dBuV/m | Result |
|---------------|---------------|------------------|----------------------|-------------------|----------------------|--------|
| | Peak Detector | Average Detector | | | | |
| 2437 | Transmitter | Fundamental | | | | |
| 4874 | 50.8 | 42.9 | Vert/Hort | 74.0 | 54.0 | Pass |
| 7311 | 46 | 37 | Vert/Hort | 74.0 | 54.0 | Pass |
| 9748 | 48 | 39 | Vert/Hort | - | - | Pass |
| 12185 | 51 | 41 | Vert/Hort | 74.0 | 54.0 | Pass |
| 14622 | 55 | 46 | Vert/Hort | - | - | Pass |
| 17059 | 56 | 49 | Vert/Hort | - | - | Pass |
| 19496 | 65 | 52 | Vert/Hort | 84.0* (1m) | 64.0* (1m) | Pass |
| 21933 | 67 | 54 | Vert/Hort | - | - | Pass |
| 24370 | 68 | 55 | Vert/Hort | - | - | Pass |
| 6498.8 | 56.9 | 46.2 | Vert/Hort | - | - | Pass |

*Measurement was performed at 1 metre distance and the limits were corrected accordingly.

Channel 11 - 2462 MHz

| Frequency MHz | Level dBuV/m | | Antenna Polarization | Peak Limit dBuV/m | Average Limit dBuV/m | Result |
|---------------|---------------|------------------|----------------------|-------------------|----------------------|--------|
| | Peak Detector | Average Detector | | | | |
| 2462 | Transmitter | Fundamental | | | | |
| 4924 | 49.7 | 42.7 | Vert/Hort | 74.0 | 54.0 | Pass |
| 7386 | 46 | 37 | Vert/Hort | 74.0 | 54.0 | Pass |
| 9848 | 48 | 39 | Vert/Hort | - | - | Pass |
| 12310 | 51 | 41 | Vert/Hort | 74.0 | 54.0 | Pass |
| 14772 | 55 | 46 | Vert/Hort | - | - | Pass |
| 17234 | 56 | 49 | Vert/Hort | - | - | Pass |
| 19696 | 65 | 52 | Vert/Hort | 84.0* (1m) | 64.0* (1m) | Pass |
| 22158 | 67 | 54 | Vert/Hort | 84.0* (1m) | 64.0* (1m) | Pass |
| 24620 | 68 | 55 | Vert/Hort | - | - | Pass |
| 6565.4 | 56.0 | 45.5 | Vert/Hort | - | - | Pass |

*Measurement was performed at 1 metre distance and the limits were corrected accordingly.

Result: 2nd harmonic and spurious emissions were recorded within the restricted bands of up to 25 GHz. Other harmonics were confirmed low with both RBW and VBW reduced (the peak and average levels listed in the above tables were noise floor readings). Spurious emissions were not fall in the restricted bands. Harmonics were complied with the FCC limits in sections 15.209 and 15.247 by a margin of 11.1 dB. The measurement uncertainty for radiated emissions in this band was ± 4.1 dB.



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4.3.1.2 Configuration 802.11g

Initial investigations were performed with four modulation types: (BPSK, QPSK, 16QAM and 64QAM). No significant differences in emissions were observed. Final testing was performed while the transmitter continuously operated with the modulation rate of 6 Mbps (BPSK).

When the EUT was operating at its highest channel (2462 MHz), the field strength at 2483.5 MHz was 55.7 dB μ V/m peak and 43.8 dB μ V/m average and was > 20 dB below the maximum field strength of the in-band carrier.

When the EUT was operating at its lowest channel (2412 MHz), the field strength at 2400 MHz was 75.2 B μ V/m peak and 54.0 dB μ V/m average and was > 20 dB below the maximum field strength of the in-band carrier.

Channel 1 - 2412 MHz

| Frequency MHz | Level dB μ V/m | | Antenna Polarization | Peak Limit dB μ V/m | Average Limit dB μ V/m | Result |
|---------------|--------------------|------------------|----------------------|-------------------------|----------------------------|--------|
| | Peak Detector | Average Detector | | | | |
| 2412 | Transmitter | Fundamental | | | | |
| 4824 | 47 | 37 | Vert/Hort | 74.0 | 54.0 | Pass |
| 7236 | 46 | 37 | Vert/Hort | - | - | Pass |
| 9648 | 48 | 39 | Vert/Hort | - | - | Pass |
| 12060 | 51 | 41 | Vert/Hort | 74.0 | 54.0 | Pass |
| 14472 | 55 | 46 | Vert/Hort | 74.0 | 54.0 | Pass |
| 16884 | 56 | 49 | Vert/Hort | - | - | Pass |
| 19296 | 65 | 52 | Vert/Hort | 84.0* (1m) | 64.0* (1m) | Pass |
| 21708 | 67 | 54 | Vert/Hort | - | - | Pass |
| 24120 | 68 | 55 | Vert/Hort | - | - | Pass |
| 6432.1 | 56.4 | 45.0 | Vert/Hort | - | - | Pass |

*Measurement was performed at 1 metre distance and the limits were corrected accordingly.

Channel 6 - 2437 MHz

| Frequency MHz | Level dB μ V/m | | Antenna Polarization | Peak Limit dB μ V/m | Average Limit dB μ V/m | Result |
|---------------|--------------------|------------------|----------------------|-------------------------|----------------------------|--------|
| | Peak Detector | Average Detector | | | | |
| 2437 | Transmitter | Fundamental | | | | |
| 4874 | 47 | 37 | Vert/Hort | 74.0 | 54.0 | Pass |
| 7311 | 46 | 37 | Vert/Hort | 74.0 | 54.0 | Pass |
| 9748 | 48 | 39 | Vert/Hort | - | - | Pass |
| 12185 | 51 | 41 | Vert/Hort | 74.0 | 54.0 | Pass |
| 14622 | 55 | 46 | Vert/Hort | - | - | Pass |
| 17059 | 56 | 49 | Vert/Hort | - | - | Pass |
| 19496 | 65 | 52 | Vert/Hort | 84.0* (1m) | 64.0* (1m) | Pass |
| 21933 | 67 | 54 | Vert/Hort | - | - | Pass |
| 24370 | 68 | 55 | Vert/Hort | - | - | Pass |
| 6498.8 | 57.8 | 46.5 | Vert/Hort | - | - | Pass |

*Measurement was performed at 1 metre distance and the limits were corrected accordingly.



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Channel 11 - 2462 MHz

| Frequency MHz | Level dBuV/m | | Antenna Polarization | Peak Limit dBuV/m | Average Limit dBuV/m | Result |
|---------------|---------------|------------------|----------------------|-------------------|----------------------|--------|
| | Peak Detector | Average Detector | | | | |
| 2462 | Transmitter | Fundamental | | | | |
| 4924 | 47 | 37 | Vert/Hort | 74.0 | 54.0 | Pass |
| 7386 | 46 | 37 | Vert/Hort | 74.0 | 54.0 | Pass |
| 9848 | 48 | 39 | Vert/Hort | - | - | Pass |
| 12310 | 51 | 41 | Vert/Hort | 74.0 | 54.0 | Pass |
| 14772 | 55 | 46 | Vert/Hort | - | - | Pass |
| 17234 | 56 | 49 | Vert/Hort | - | - | Pass |
| 19696 | 65 | 52 | Vert/Hort | 84.0* (1m) | 64.0* (1m) | Pass |
| 22158 | 67 | 54 | Vert/Hort | 84.0* (1m) | 64.0* (1m) | Pass |
| 24620 | 68 | 55 | Vert/Hort | - | - | Pass |
| 6565.4 | 58.0 | 46.5 | Vert/Hort | - | - | Pass |

*Measurement was performed at 1 metre distance and the limits were corrected accordingly.

Result: Spurious emissions were recorded up to 25 GHz. Harmonics were low and confirmed with both RBW and VBW reduced (the peak and average levels listed in the above tables were noise floor readings). However, spurious emissions were not fall in the restricted bands. Harmonics were complied with the FCC limits in sections 15.209 and 15.247. The measurement uncertainty for radiated emissions in this band was ± 4.1 dB.

4.3.1.3 Configuration 802.11a (5.725 – 5.850 MHz)

Initial investigations were performed with four modulation types: (BPSK, QPSK, 16QAM and 64QAM). No significant differences in emissions were observed. Final testing was performed while the transmitter continuously operated with the modulation rate of 54 Mbps (64QAM).

When the EUT was operating at its highest channel (5825 MHz), the field strength at 5850 MHz was 63.1 dB μ V/m peak & 49.3 dB μ V/m average and was > 20 dB below the maximum field strength of the in-band carrier.

When the EUT was operating at its lowest channel (5745 MHz), the field strength at 5725 MHz was 64.0 dB μ V/m peak & 49.8 dB μ V/m average and was > 20 dB below the maximum field strength of the in-band carrier.

Channel 149 – 5745 MHz

| Frequency MHz | Level dBuV/m | | Antenna Polarization | Peak Limit dBuV/m | Average Limit dBuV/m | Result |
|---------------|---------------|------------------|----------------------|-------------------|----------------------|--------|
| | Peak Detector | Average Detector | | | | |
| 5745 | Transmitter | Fundamental | | | | |
| 11490 | 52 | 43 | Vert/Hort | 74.0 | 54.0 | Pass |
| 17235 | 55 | 46 | Vert/Hort | - | - | Pass |
| 22980 | 66 | 51 | Vert/Hort | 84.0* (1m) | 64.0* (1m) | Pass |
| 28725 | 70 | 56 | Vert/Hort | - | - | Pass |
| 34470 | 79 | 65 | Vert/Hort | - | - | Pass |
| 7660 | 56.4 | 47.7 | Vert/Hort | 74.0 | 54.0 | Pass |

*Measurement was performed at 1 metre distance and the limits were corrected accordingly.



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Channel 157 – 5785 MHz

| Frequency MHz | Level dBuV/m | | Antenna Polarization | Peak Limit dBuV/m | Average Limit dBuV/m | Result |
|---------------|---------------|------------------|----------------------|-------------------|----------------------|--------|
| | Peak Detector | Average Detector | | | | |
| 5785 | Transmitter | Fundamental | | | | |
| 11570 | 52 | 43 | Vert/Hort | 74.0 | 54.0 | Pass |
| 17355 | 55 | 46 | Vert/Hort | - | - | Pass |
| 23140 | 66 | 51 | Vert/Hort | - | - | Pass |
| 28925 | 70 | 56 | Vert/Hort | - | - | Pass |
| 34710 | 79 | 65 | Vert/Hort | - | - | Pass |
| 7713.3 | 56.0 | 47.4 | Vert/Hort | 74.0 | 54.0 | Pass |

*Measurement was performed at 1 metre distance and the limits were corrected accordingly.

Channel 161 – 5825 MHz

| Frequency MHz | Level dBuV/m | | Antenna Polarization | Peak Limit dBuV/m | Average Limit dBuV/m | Result |
|---------------|---------------|------------------|----------------------|-------------------|----------------------|--------|
| | Peak Detector | Average Detector | | | | |
| 5825 | Transmitter | Fundamental | | | | |
| 11650 | 52 | 43 | Vert/Hort | 74.0 | 54.0 | Pass |
| 17475 | 55 | 46 | Vert/Hort | - | - | Pass |
| 23300 | 66 | 51 | Vert/Hort | - | - | Pass |
| 29125 | 70 | 56 | Vert/Hort | - | - | Pass |
| 34950 | 79 | 65 | Vert/Hort | - | - | Pass |
| 7766.6 | 55.3 | 46.8 | Vert/Hort | - | - | Pass |

*Measurement was performed at 1 metre distance and the limits were corrected accordingly.

Result: Spurious emissions were recorded within the restricted bands of up to 40 GHz. Harmonics were low and confirmed with both RBW and VBW reduced (the peak and average levels listed in the above tables were noise floor readings). Emissions were complied with the FCC limits in section 15.209 and 15.407 by a margin of 6.3 dB. The measurement uncertainty for radiated emissions in this band was ± 4.1 dB.

4.3.2 Frequency Band: 30 - 1000 MHz

Refer to Attachment 3 – FCC Part 15B Test Report (Report: FG05-073EAL).



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4.3.3 RF Conducted Measurements at the Antenna Terminal

In the 100 kHz bandwidth within the operating band, the highest emissions (spurious/harmonics) level that is produced by the intentional radiator shall be at least 20 dB below.

The transmitter output was connected to the spectrum analyser in peak hold mode.

The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were utilised.

D1 line indicates the 20 dB limit below the highest level of the transmitter

Results: Complies.

Configuration 802.11a (5.725 – 5.850 GHz)

Refer to Appendix J1 for Harmonics plots

Configuration 802.11b

Refer to Appendix J2 for Harmonics plots

Configuration 802.11g

Refer to Appendix J3 for Harmonics plots

4.3.4 Band Edge Measurements

In the 100 kHz bandwidth within the operating band, the highest emissions (spurious/harmonics) level that is produced by the intentional radiator shall be at least 20 dB below.

The transmitter output was connected to the spectrum analyser in peak hold mode.

The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were utilised.

D1 line indicates the 20 dB limit below the highest level of the transmitter

Results: Complies.

Configuration 802.11a (5.725 – 5.850 GHz)

Refer to Appendix K1 for Band Edge plots

Configuration 802.11b

Refer to Appendix K2 for Band Edge plots

Configuration 802.11g

Refer to Appendix K3 for Band Edge plots



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

Testing was performed in accordance with the requirements of FCC Part 15.247(b)(3).

Measurements were performed while the WLAN transmitter continuously transmitted.

The peak output power measurement was performed using the integration method as per test method # 3 of DA 02-2138. The resolution bandwidth of 1 MHz was used. The video bandwidth of 30 kHz was used ($VBW \geq 1/T$, where T (worst case) = 170 μ S).

Variation by +/- 15% of the supply voltage, in accordance with Section 15.31(e), to the computer power supply did not vary the output power observed.

5.1 Configuration 802.11a

Initial investigations were performed with four modulation types: (BPSK, QPSK, 16QAM and 64QAM). Power with BPSK modulation (rate = 6 Mbps) was observed to be slightly worst. Final testing was performed while the transmitter continuously operated with the modulation rate of 6Mbps (BPSK).

| Frequency MHz | P dBm | Limit dBm | P mW | Limit mW | Result |
|---------------|-------|-----------|------|----------|----------|
| 5745 | 11.2 | 30 | 13.2 | 1000 | Complies |
| 5785 | 10.9 | 30 | 12.3 | 1000 | Complies |
| 5825 | 10.7 | 30 | 11.7 | 1000 | Complies |

5.2 Configuration 802.11b

Initial investigations were performed with three modulation types: (DBPSK, DQPSK and CCK). Power with CCK modulation (rate = 11 Mbps) was observed to be slightly worst. Final testing was performed while the transmitter continuously operating with the modulation rate of 11 Mbps (CCK).

| Frequency MHz | P dBm | Limit dBm | P mW | Limit mW | Result |
|---------------|-------|-----------|------|----------|----------|
| 2412 | 12.8 | 30 | 19.1 | 1000 | Complies |
| 2437 | 12.6 | 30 | 18.2 | 1000 | Complies |
| 2462 | 13.1 | 30 | 20.4 | 1000 | Complies |

5.3 Configuration 802.11g

Initial investigations were performed with four modulation types: (BPSK, QPSK, 16QAM and 64QAM). Power with 64QAM modulation (rate = 54 Mbps) was observed to be slightly worst. Final testing was performed while the transmitter continuously operated with the modulation rate of 54 Mbps (64QAM).

| Frequency MHz | P dBm | Limit dBm | P mW | Limit mW | Result |
|---------------|-------|-----------|------|----------|----------|
| 2412 | 10.9 | 30 | 12.3 | 1000 | Complies |
| 2437 | 10.5 | 30 | 11.2 | 1000 | Complies |
| 2462 | 10.7 | 30 | 11.7 | 1000 | Complies |



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6.0 CHANNEL BANDWIDTH

Testing was performed in accordance with the requirements of FCC Part 15.247(a)(2)

In the bands 2400 - 2483.5 MHz and 5725 - 5850 MHz, the minimum 6 dB bandwidth was at least 500 kHz. The 6 dB bandwidth was measured while the transmitter continuously transmitted.

The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.

The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were utilised

The minimum 6 dB bandwidth is at least 500 kHz

6.1 Configuration 802.11a

Initial investigations were performed with four modulation types: (BPSK, QPSK, 16QAM and 64QAM). No significant differences in bandwidth were observed. Final testing was performed while the transmitter continuously operated with the modulation rate of 6 Mbps (BPSK).

| Frequency MHz | Bandwidth MHz | Result | 6 dB Bandwidth Plots |
|---------------|---------------|----------|----------------------|
| 5745 | 16.5 | Complies | Appendix I1 |
| 5785 | 16.6 | Complies | Appendix I1 |
| 5825 | 16.6 | Complies | Appendix I1 |

6.2 Configuration 802.11b

Initial investigations were performed with three modulation types: (DBPSK, DQPSK and CCK). No significant differences in bandwidth were observed. Final testing was performed while the transmitter continuously operating with the modulation rate of 11 Mbps (CCK).

| Frequency MHz | Bandwidth MHz | Result | 6 dB Bandwidth Plots |
|---------------|---------------|----------|----------------------|
| 2412.0 | 10.3 | Complies | Appendix I2 |
| 2437.0 | 10.2 | Complies | Appendix I2 |
| 2462.0 | 10.2 | Complies | Appendix I2 |

6.3 Configuration 802.11g

Initial investigations were performed with four modulation types: (BPSK, QPSK, 16QAM and 64QAM). No significant differences in bandwidth were observed. Final testing was performed while the transmitter continuously operated with the modulation rate of 54 Mbps (64QAM).

| Frequency MHz | Bandwidth MHz | Result | 6 dB Bandwidth Plots |
|---------------|---------------|----------|----------------------|
| 2412.0 | 16.6 | Complies | Appendix I3 |
| 2437.0 | 16.6 | Complies | Appendix I3 |
| 2462.0 | 16.3 | Complies | Appendix I3 |



7.0 PEAK POWER SPECTRAL DENSITY - Section 15.247(e)

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

The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.

The resolution bandwidth of 3 kHz and the video bandwidth of 30 kHz were utilised

The specification limit is 8 dBm in any 3 kHz band during a continuous transmission.

7.1 Configuration 802.11a

Initial investigations were performed with four modulation types: (BPSK, QPSK, 16QAM and 64QAM). Peak power spectral density with BPSK modulation (rate = 6 Mbps) was observed to be slightly worst. Final testing was performed while the transmitter continuously operated with the modulation rate of 6 Mbps (BPSK).

| Frequency MHz | Level dBm | Limit dBm | Result | Spectral Density plots |
|---------------|-----------|-----------|----------|------------------------|
| 5745 | -16.9 | 8.0 | Complies | Appendix L1 |
| 5785 | -15.9 | 8.0 | Complies | Appendix L1 |
| 5825 | -16.5 | 8.0 | Complies | Appendix L1 |

7.2 Configuration 802.11b

Initial investigations were performed with three modulation types: (DBPSK, DQPSK and CCK). Peak power spectral density with CCK modulation (rate = 11 Mbps) was observed to be slightly worst. Final testing was performed while the transmitter continuously operating with the modulation rate of 11 Mbps (CCK).

| Frequency MHz | Level dBm | Limit dBm | Result | Spectral Density plots |
|---------------|-----------|-----------|----------|------------------------|
| 2412.0 | -9.4 | 8.0 | Complies | Appendix L2 |
| 2437.0 | -9.4 | 8.0 | Complies | Appendix L2 |
| 2462.0 | -9.2 | 8.0 | Complies | Appendix L2 |

7.3 Configuration 802.11g

Initial investigations were performed with four modulation types: (BPSK, QPSK, 16QAM and 64QAM). Peak power spectral density with 64QAM modulation (rate = 54 Mbps) was observed to be slightly worst. Final testing was performed while the transmitter continuously operated with the modulation rate of 54 Mbps (64QAM).

| Frequency MHz | Level dBm | Limit dBm | Result | Spectral Density plots |
|---------------|-----------|-----------|----------|------------------------|
| 2412.0 | -17.4 | 8.0 | Complies | Appendix L3 |
| 2437.0 | -15.5 | 8.0 | Complies | Appendix L3 |
| 2462.0 | -15.1 | 8.0 | Complies | Appendix L3 |



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).

Transmitter # 1 (WLAN): The antennas are located on the top edge of LCD screen (left and right hand side) and projected distance of less than 20cm from user.

Transmitter # 2 (Bluetooth): The antenna is located on the right palm rest area and projected distance of less than 20cm from user.

The separation distance between the WLAN and BT antennas is greater than 20cm. Therefore, they are not co-located transmitters.

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 M050753_Cert_WM3B2915ABG_SAR_2.4 and M050753_Cert_WM3B2915ABG_SAR_5.2. The highest SAR value was less than 0.01mW/g which complies with the FCC human exposure requirements of 47 CFR 2.1093 (d).

Refer to EMC Technologies' report - M050753_Cert_WM3B2915ABG_SAR_2.4 and M050753_Cert_WM3B2915ABG_SAR_5.2 for details of SAR compliance.

Results: Complies



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9.0 ANTENNA REQUIREMENT

Testing to the requirements of FCC Part 15.203 was not applicable as 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 LifeBook P Series, Model: P7120 with Mini-PCI Wireless LAN Module (Calexico2 11a+b/g, Model WM3B2915ABG) & Bluetooth, Model UGXZ5-102A, tested on behalf of Fujitsu Australia Ltd, **comply** 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 complies with the Industry Canada RSS-210 issue 5 (Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands)) clause 6.2.2(o) 2400 – 2483.5 MHz Spread Spectrum requirements and the RF exposure requirements of RSS-102.

Results were as follows:

WLAN, Calexico2 802.11b, 802.11g and 802.11a (DTS) - 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 | Not Applicable |
| 15.205 | 6.3 | Operation in Restricted Band | Complies |
| 15.207 | 6.6 | Conducted Emissions | Complies |
| 15.209 | 6.3 | Radiated Emissions | Complies |
| 15.247 (a)(2) | 6.2.2(o)(iv) | Channel Bandwidth | Complies |
| 15.247 (b)(3) | 6.2.2(o)(b) | Peak Output Power | Complies |
| 15.247 (i) | | Radio Frequency Hazard | *Complies with SAR requirements |
| 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 | Complies |

*Refer to EMC Technologies' report M050753_Cert_WM3B2915ABG_SAR_2.4 and M050753_Cert_WM3B2915ABG_SAR_5.2

The results for IEEE 802.11a (U-NII) and Bluetooth are reported separately.

Refer to EMC Technologies' test report: M050752_Cert_WM3B2915ABG_NII_BT (U-NII) and M050752_Cert_BT_WM3B2915ABG (Bluetooth).



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TEST REPORT APPENDICES

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Attachment 1: RF Exposure Information

Attachment 2: FCC DOC for LifeBook P Series

Attachment 3: FCC Part 15B Test Report (Report: FG05-073EAL)



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