EMI TEST REPORT

Test Report No. : 25LE0207-HO-1

Applicant	:	**FUJITSU LIMITED**
Type of Equipment	:	**Personal Computer**
Model No.	:	**P1510**
FCC ID	:	**EJE-WB0036**
Test standard	:	**FCC Part 15 Subpart C** **Section 15.207, Section 15.247: 2005**
Test Result	:	**Complied**

1. This test report shall not be reproduced in full or partial, without the written approval of UL Apex Co., Ltd.
2. The results in this report apply only to the sample tested.
3. This equipment is in compliance with the above regulation. We hereby certify that the data contain a true representation of the EMC profile.
4. The test results in this report are traceable to the national or international standards.

Date of test: April 14 to June 3 and July 13, 2005

Tested by:

Keiichi Aoki
EMC Service

Mitsuru Fujimura
EMC Service

Norihisa Hashimoto
EMC Service

Kenichi Adachi
EMC Service

Approved by :

Hironobu Shimoji
Group Leader of
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UL Apex Co., Ltd.
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Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

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SECTION 1: Client information

Company Name	:	FUJITSU LIMITED
Address	:	1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki 211-8588 Japan
Telephone Number	:	+81-44-754-3885
Facsimile Number	:	+81-44-754-3769
Contact Person	:	Tsuyoshi Uchihara

SECTION 2: Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of Equipment	:	Personal Computer
Model No.	:	P1510
Serial No.	:	R5100030
Rating	:	AC120V/60Hz (AC Adapter)
Country of Manufacture	:	Japan
Receipt Date of Sample	:	April 3, 2005
Condition of EUT	:	Engineering prototype (Not for Sale: This sample is equivalent to mass-produced items.)

2.2 Product Description

This EUT has IEEE802.11a/b/g module which consists of 2.4GHz and 5GHz in the same chip, and the other module is Bluetooth.

Standards	Test Report No.			
	IEEE802.11 a/b/g		Bluetooth	Bluetooth + IEEE802.11a/b/g
FCC	25LE0207-HO-1 * (15.247)	25LE0207-HO-2 (15.407)	25LE0207-HO-9	25LE0207-HO-10
RSS-210	25LE0207-HO-3	25LE0207-HO-4	25LE0207-HO-11	25LE0207-HO-12

*This mark stands for This report.

<IEEE802.11a/b/g>

Equipment Type : Transceiver
Frequency of operation : 11b/g: 2412-2462MHz
11a: 5150-5350MHz/5745 - 5825MHz
Channel Spacing : 5MHz(11b/g), 20MHz (11a)
Duty Cycle : over 90%
Type of Modulation : DSSS, OFDM
Mode of operation : Duplex
Antenna Type : Monopole Antenna (M/N: YCE-5008)
Antenna Gain : IEEE802.11b/g: Main -4.78 dBi /AUX -1.49 dBi
IEEE802.11a: Main Antenna: 0.90dBi, AUX Antenna -0.97 dBi
(This antenna gain are values in which antenna was mounted to the PC)
Antenna Connector Type : U-FL
Operating voltage : DC3.3V
Operating temperature range : 0-+70 deg.C.

<Bluetooth>

Equipment Type : Transceiver
Frequency of operation : 2402-2480MHz
Type of Modulation : FHSS
Antenna Type : Monopole Antenna (M/N: YCE-5008)
Antenna Gain : AUX -1.49 dBi
(This antenna gain are values in which antenna was mounted to the PC)
Antenna Connector Type : U-FL
Operating voltage : DC3.3V
Operating temperature range : 0-+70 deg.C.

FCC 15.31 (e)

This EUT provides stable voltage(DC3.3V) constantly to RF Modules regardless of input voltage. Therefore, this EUT complies with the requirement.

FCC Part 15.203 Antenna requirement

These modules have the external (particular) antenna connector, and the installation is to be done by the professionals. Therefore, the equipment complies with the antenna requirement of Section 15.203.

SECTION 3: Test specification, procedures & results

3.1 Test Specification

Test Specification : FCC Part15 Subpart C : 2005
Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators
Section 15.207 Conducted limits : 2005
Section 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz : 2005

3.2 Procedures and results

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst margin *0	Results
1	Conducted emission	ANSI C63.4:2003 7. AC powerline conducted emission measurements	Section 15.207 RSS-210 6.6	-	N/A	8.4dB 0.1584MHz, Phase L (AV) IEEE802.11b High Ch	Complied
2	6dB Bandwidth	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247(a)(2) RSS-210 5.9.1	Conducted	N/A	See data.	Complied
3	Maximum Peak Output Power	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247(b)(3) RSS-210 6.2.2(o)(b)	Conducted	N/A	See data.	Complied
4	Spurious Emission	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247 (d) RSS-210 6.2.2(o)(e1) and 6.3	Conducted/ Radiated	N/A	2.1dB 239.979MHz,HOR IEEE802.11g High Ch	Complied
5	Restricted Band Edges	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247 (d) RSS-210 6.2.2(o)(e1) and 6.3	Conducted/ Radiated	N/A	See data.	Complied
6	Power Density	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247 (e) RSS-210 6.2.2(o)(b)	Conducted	N/A	See data.	Complied
7	99% Occupied Band Width	RSS-210(issue 5): 2001 + Amendment:2002 + Amendment2:2003 + Amendment3:2004 + Amendment4:2004	RSS-210(issue 5): 2001 + Amendment:2002 + Amendment2:2003 + Amendment3:2004 + Amendment4:2004	Conducted	N/A	N/A	N/A

Note: UL Apex's EMI Work Procedures No.QPM05 and QPM15.
*0) The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.
Uncertainty:
*In case of the margin below the EMC Head Office's uncertainty.
The data listed in this report meets the limits unless the uncertainty is taken into consideration.
Conducted Emission
The measurement uncertainty (with a 95% confidence level) for this test is ±1.3dB.
Spurious Emission (Radiated)
The measurement uncertainty (with a 95% confidence level) for this test using Biconical antenna is ±4.5dB(3m)/ ±4.7dB(10m).
The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is ±5.2dB(3m)/ ±3.8dB(10m).
The measurement uncertainty (with a 95% confidence level) for this test using Horn antenna is ±6.6dB.
Other test except Conducted Emission and Spurious Emission (Radiated)
The measurement uncertainty (with a 95% confidence level) for this test is ±3.0dB.

*These tests were also referred to "Guidance on Measurement for Digital Transmission Systems Section15.247".
*These tests were performed without any deviations from test procedure except for additions or exclusions.

3.3 Addition to standards

No addition, deviation, nor exclusion has been made from standards.

3.4 Test Location

UL Apex Co., Ltd. Head Office EMC Lab. *NVLAP Lab. code: 200572-0
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116 Facsimile : +81 596 24 8124

	FCC Registration Number	IC Registration Number	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms
No.1 semi-anechoic chamber	313583	IC4247A	19.2 x 11.2 x 7.7m	7.0 x 6.0m	Preparation room
No.2 semi-anechoic chamber	846015	IC4247A-2	7.5 x 5.8 x 5.2m	4.0 x 4.0m	-
No.3 shielded room	-	-	4.7 x 7.5 x 2.7m	4.7 x 7.5m	-
No.4 measurement room	-	-	3.1 x 5.0 x 2.7m	N/A	-

* Size of vertical conducting plane (for Conducted Emission test) : 2.0 x 2.0m for No.1 and No.2 semi-anechoic and No.3 shielded room.

3.5 Test set up, Test instruments and Data of EMI

Refer to APPENDIX 1 to 3.

SECTION 4: Operation of E.U.T. during testing

4.1 Operating Modes

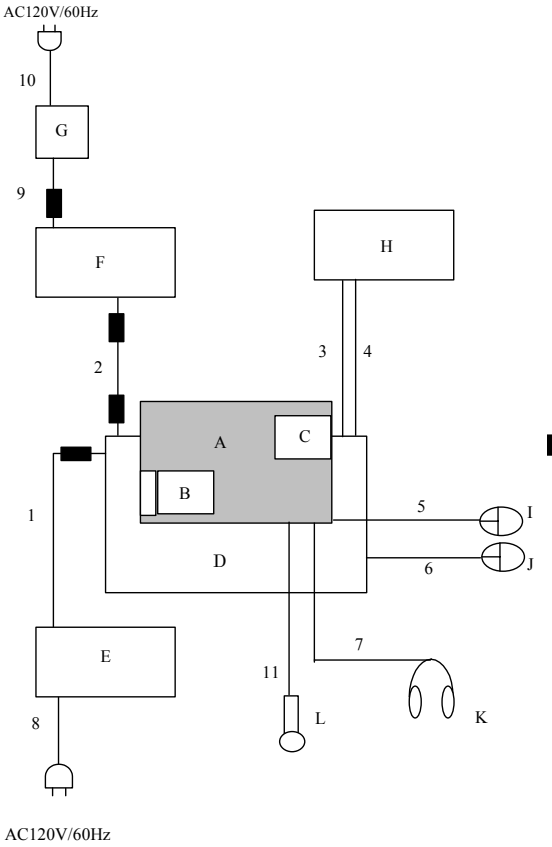
The EUT was operating in a manner similar to typical use during the tests.

PacketType : Maximum
Payload : PN9
Operation : ***(IEEE802.11b/11g)***
Low Channel :2412MHz(Ch1)
Mid Channel :2437MHz(Ch6)
High channel :2462MHz(Ch11)
(IEEE802.11a)
Low Channel :5745MHz(Ch149)
Mid Channel :5785MHz(Ch157)
High channel :5825MHz(Ch165)

Conditions : 1) Data Rate:IEEE802.11b:1,2,5.5,11Mbps
IEEE802.11g (Normal):6,9,12,18,24,36,48,54 Mbps
IEEE802.11a (Normal):6,9,12,18,24,36,48,54 Mbps
2) Antenna: AUX (A), Main (B) (same type)
*We pre-confirmed the above conditions on EUT and performed the final test with the following conditions;

	IEEE802.11b	IEEE802.11g	IEEE802.11a	IEEE802.11a
Conducted emission test	1)Rate:11 Mbps	1)Rate:54 Mbps	1)Rate:24 Mbps	-
	2) Main Antenna (A)	2) Main Antenna (A)	2) Main Antenna (A)	-
Radiated emission test	1)Rate:11Mbps	1)Rate:54 Mbps	1)Rate: 24 Mbps	-
	2) Main Antenna (A)	2) Main Antenna (A)	2) Main Antenna (A)	-
Other tests	1)Rate:11Mbps	1)Rate:54 Mbps	1)Rate: 24 Mbps	1)Rate: 54 Mbps
	2) Main Antenna (A)	2) Main Antenna (A)	2) Main Antenna (A)	2) Main Antenna (A)

4.2 Configuration and peripherals



■: Ferrite Core (Standard attachment)

* Cabling was taken into consideration and test data was taken under worse case conditions.

Description of EUT and Support equipment

No.	Item	Model number	Serial number	Manufacturer	FCC ID	Remarks
A	Personal Computer	P1510	R5100030	FUJITSU LIMITED	EJE-WB0036	EUT
B	PC Card	-	-	IO DATA	-	-
C	SD Card	-	-	IO DATA	-	-
D	Port Replicator	-	30	FUJITSU LIMITED	-	-
E	AC Adapter	CA01007-0730	01208879C	FUJITSU LIMITED	-	-
F	LCD Monitor	PLE430-B1S	05205G4538698	Iiyama	-	-
G	AC Adapter	ADPC12416BB	12416B042126921	Iiyama	-	-
H	Personal Computer	PGMJ140M	09632777	SHARP	-	-
I	Mouse	M-UB48	LZE02650788	Logitech	-	-
J	Mouse	M-UB48	LZE02601001	Logitech	-	-
K	Headset	LT-100	0010D	Panasonic	-	-
L	Microphone	-	-	Fujitsu	-	-

List of cables used

No.	Name	Length (m)	Shield	Backshell Material
1	DC Cable	1.8	N	Polyvinyl chloride
2	Monitor Cable	1.8	Y	Polyvinyl chloride
3	LAN Cable	2.9	N	Polyvinyl chloride
4	TEL Line	2.0	N	Polyvinyl chloride
5	Mouse Cable	0.7	N	Polyvinyl chloride
6	Mouse Cable	0.7	N	Polyvinyl chloride
7	Headset Cable	3.0	N	Polyvinyl chloride
8	AC Cable	2.0	N	Polyvinyl chloride
9	DC Cable	1.2	N	Polyvinyl chloride
10	AC Cable	1.8	N	Polyvinyl chloride
11	Microphone Cable	1.6	N	Polyvinyl chloride

SECTION 5: Conducted Emission

Test Procedure

EUT was placed on a platform of nominal size, 1.5m by 1.0m, raised 80cm above the conducting ground plane.
The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. EUT was located 80cm from a Line Impedance Stabilization Network (LISN)/ Artificial mains Network (AMN) and excess AC cable was bundled in center .
1) For the tests on EUT with other peripherals (as a whole system)
I/O cable and AC cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged at a 40cm height to the ground plane.
2) For the tests on EUT itself (as a stand alone equipment)
Each EUT current-carrying power lead, except the ground (safety) lead, was individually connected through a LISN /(AMN) to the input power source. All unused 50ohm connectors of the LISN(AMN) were resistively terminated in 50ohm when not connected to the measuring equipment.
The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT in a Semi Anechoic Chamber or a Measurement Room.
The EUT was connected to a LISN (AMN).
An overview sweep with peak detection has been performed.
The measurements have been performed with a CISPR quasi-peak detector (IF BW 9 kHz).
Measurement range: 0.15-30MHz

Test data : APPENDIX 3
Test result : Pass

SECTION 6: Spurious Emission

[Conducted]

Test Procedure
The Out of Band Emission was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 3
Test result : Pass

[Radiated]

Test Procedure
EUT was placed on the size, 1.0m by 1.0m, raised 80cm above the conducting ground plane.
The Radiated Electric Field Strength intensity has been measured in a Semi Anechoic Chamber with a ground plane and at a distance of 3m(Below 10GHz) and 1m(Upper 10GHz).
The height of the measuring varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.
The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver or the Spectrum Analyzer.
In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on a radiated measurement.

20dBc was applied to the frequency over the limit of FCC 15.209 and outside the restricted band of 15.205.

Frequency	Below 1GHz	Above 1GHz
Instrument used	Test Receiver / Spectrum Analyzer	Spectrum Analyzer
Detector IF Bandwidth	QP: BW 120kHz(T/R) 20dBc : RBW:100kHz/VBW: 300kHz (S/A)	PK: RBW:1MHz/VBW: 1MHz AV: RBW:1MHz/VBW:10Hz 20dBc : RBW:100kHz/VBW:300kHz

Test data : APPENDIX 3
Test result : Pass

- The carrier level and noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

* The level was confirmed with both PC of Tablet type and Note type, and the test was made with the worst-case conditions.

SECTION 7: Bandwidth

Test Procedure
The bandwidth was measured with a spectrum analyzer connected to the antenna port.

Test data **: APPENDIX 3**
Test result **: Pass**

SECTION 8: Maximum Peak Output Power

Test Procedure
The Maximum Peak Output Power was measured with a spectrum analyzer connected to the antenna port.
The test was made with the spectrum analyzer that has a function of channel-power measurement.

Test data **: APPENDIX 3**
Test result **: Pass**

SECTION 9: Peak Power Density

Test Procedure
The Peak Power Density was measured with a spectrum analyzer connected to the antenna port.

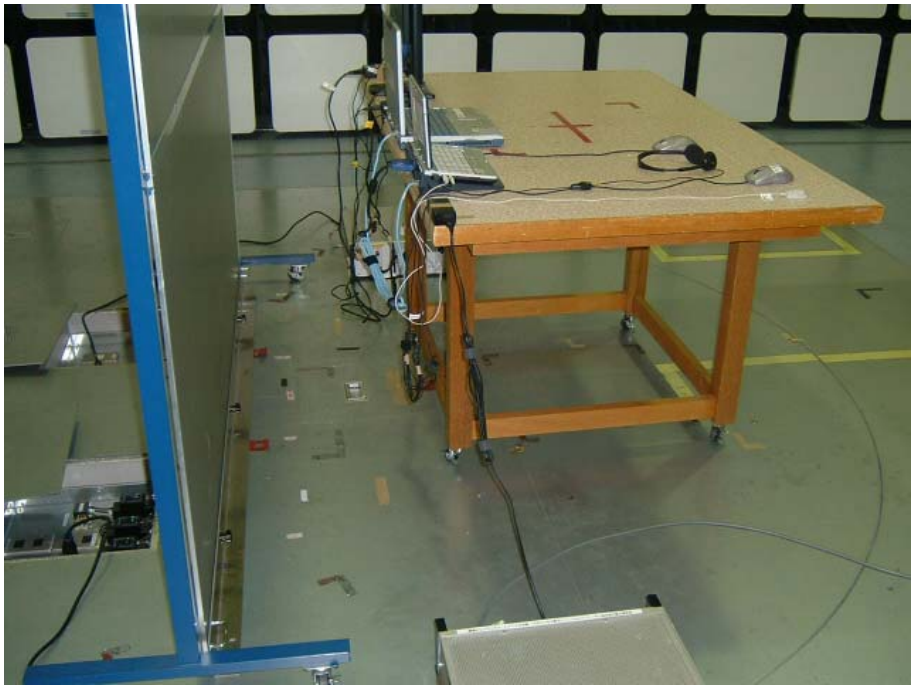
Test data **: APPENDIX 3**
Test result **: Pass**

APPENDIX 1: Photographs of test setup

Conducted Emission

Front

Side



Spurious Emission (Radiated)

Front

Rear

Worst Case Position (Y-axis:Horizontal / X-axis:Vertical)

X-axis

Y-axis

Z-axis

APPENDIX 2:Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE	2004/11/13 * 12
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE	2004/11/12 * 12
MCC-18	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	RE	2005/02/03 * 12
MCC-26	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2004/08/26 * 12
MPA-05	Pre Amplifier	TSJ	TSJ 1-26.5GHz PreAmp	RE	2004/06/12 * 12
MHA-06	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2005/01/10 * 12
MAT-20	Attenuator(10dB)(above1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-110	RE	2005/01/11 * 12
MHF-02	High Pass Filter	Tokimec	TF323DCA	RE	2004/09/18 * 12
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE / CE	2005/04/11 * 12
MRENT-14	Spectrum Analyzer	Advantest	R3273	RE / CE	2005/02/21 * 12
MCC-04	Microwave Cable 1G-50GHz	Storm	421-011 (90-1394-079)	RE	2005/01/05 * 12
MCC-19	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	RE	2005/02/03 * 12
MPA-01	Pre Amplifier	Agilent	8449B	RE	2005/02/05 * 12
MHA-06	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2005/01/10 * 12
MCC-05	Microwave Cable 1G-50GHz	Storm	421-011 (90-1394-079)	RE	2005/01/05 * 12
MBF-03	SHF Bandpass Filter	M-City	13GHz BPF	RE	2005/05/20 * 12
MHA-02	Horn Antenna	EMCO	3160-09	RE	2005/01/10 * 12
MTR-02	Test Receiver	Rohde & Schwarz	ESCS30	RE/CE	2005/02/02 * 12
MCC-13	Coaxial Cable	Fujikura/Agilent	-	CE	2005/02/24 * 12
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE(EUT)	2005/02/04 * 12
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	CE	2005/02/04 * 12
MTA-04	Termination	MCL	NTRM-50	CE	2005/02/03 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	RE	2005/02/24 * 12
MPA-06	Pre Amplifier	Hewlett Packard	8447D	RE	2004/08/29 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	RE	2004/12/16 * 12
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2004/10/14 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2004/10/14 * 12
MHA-04	Horn Antenna	EMCO	3160-10	RE	2005/01/10 * 12
MPA-03	Microwave System Power Amplifier	Agilent	83050A	RE	2005/05/11 * 12
MCC-17	Microwave Cable 1G-50GHz	Suhner	SUCOFLEX 101	RE	2005/02/03 * 12
MCC-27	Microwave Cable 1G-50GHz	Suhner	SUCOFLEX101	RE	2004/08/26 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	AT	2004/06/12 * 12
MCC-06	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	AT	2005/02/03 * 12
MCC-36	Microwave Cable	Mitachi Co., Ltd.	U.FL-2LP-066-A-(200)	AT	2004/07/22 * 12
MAT-22	Attenuator(10dB)(above1GHz)	Orient Microwave	BX10-0476-00	AT	2005/03/16 * 12

All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Test Item:

CE: Conducted emission
RE: Spurious emission(Radiated)
AT: Other tests

APPENDIX 3: Data of EMI test

Conducted Emission

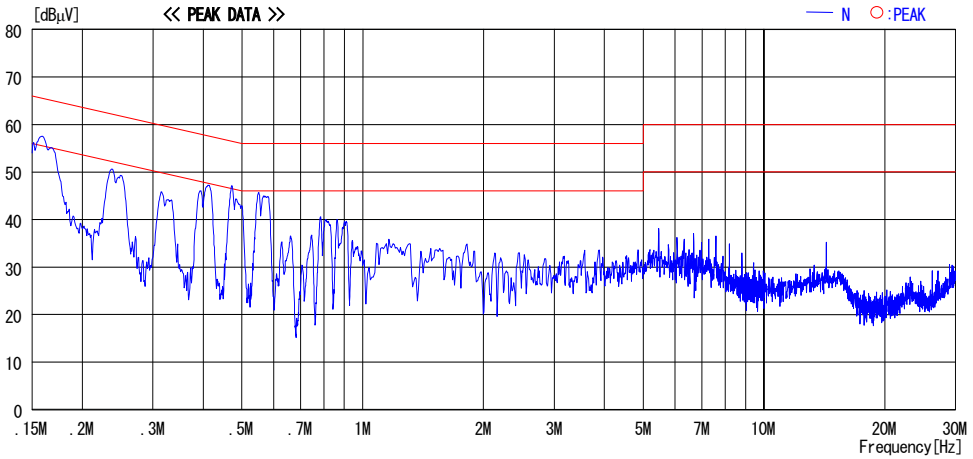
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber

Applicant	: Fujitsu Limited	Report No.	: 25LE0207-HO
Kind of EUT	: Personal Computer	Power	: AC120V/60Hz
Model No.	: P1510	Temp°C/Humi%	: 25deg.C / 46%
Serial No.	: R5100030	Operator	: Norihisa Hashimoto

Mode / Remarks : 11b 2412MHz 11Mbps / Main Antenna

LIMIT : FCC15C §15.207 (QP)
FCC15C §15.207 (AV)



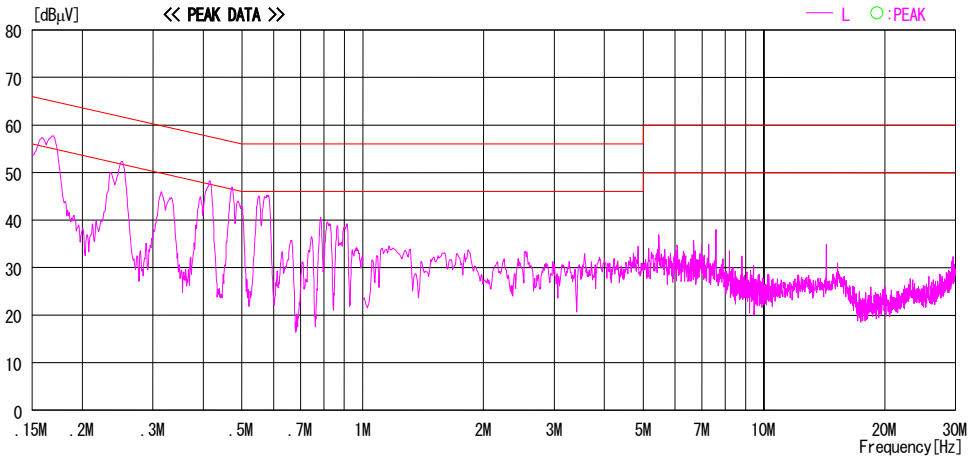


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

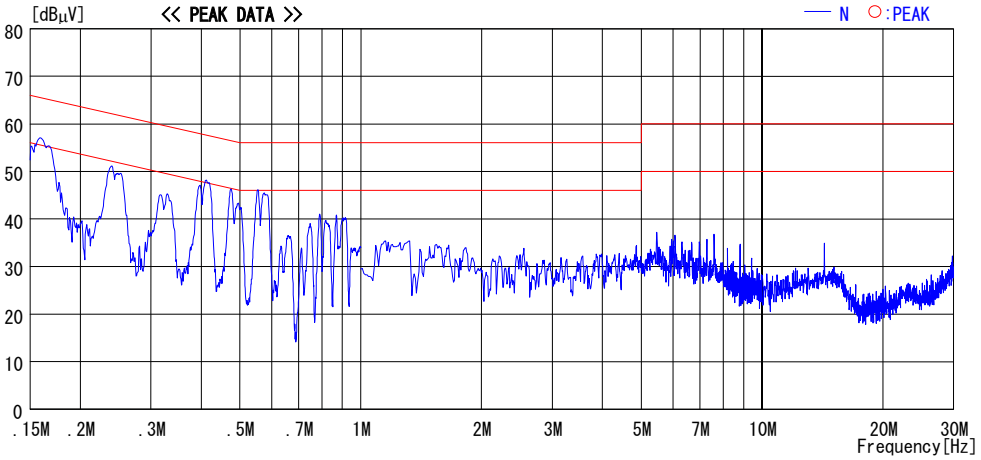
DATA OF CONDUCTED EMISSION TEST

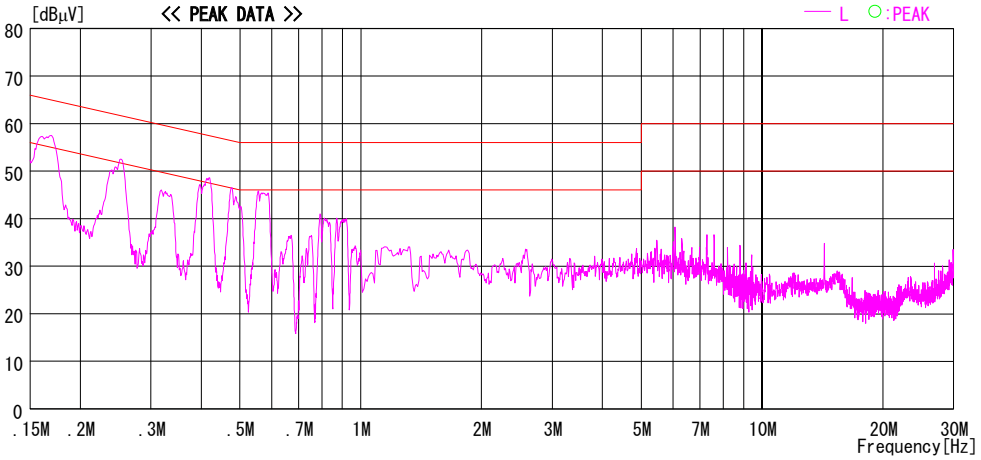
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber

Applicant	: Fujitsu Limited	Report No.	: 25LE0207-HO
Kind of EUT	: Personal Computer	Power	: AC120V/60Hz
Model No.	: P1510	Temp℃/Humi%	: 25deg.C / 46%
Serial No.	: R5100030	Operator	: Norihisa Hashimoto

Mode / Remarks: 11b 2437MHz 11Mbps / Main Antenna

LIMIT : FCC15C §15.207 (QP)
FCC15C §15.207 (AV)





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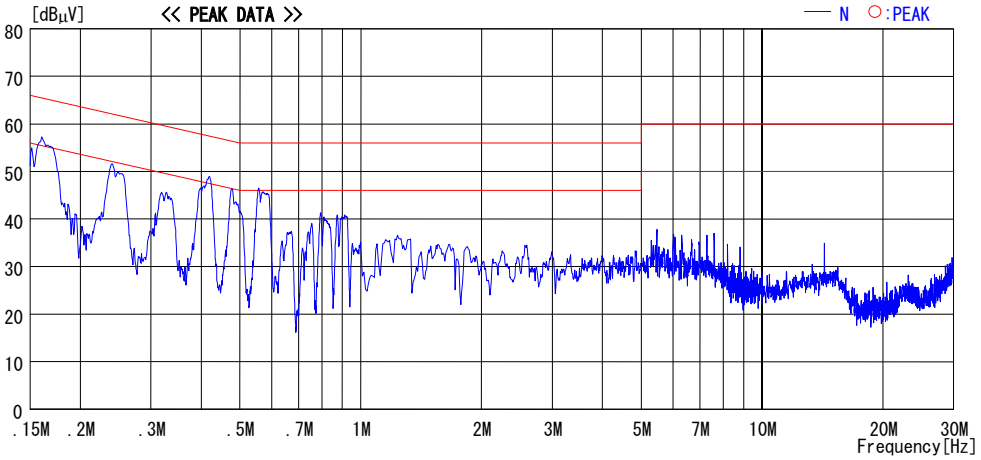
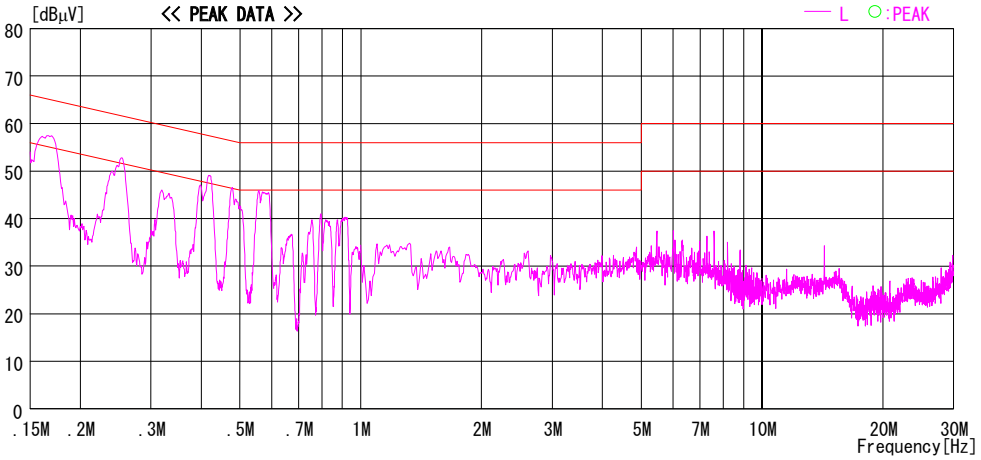
Model No.	: P1510	Temp℃/Humi%	: 25deg.C / 46%
Serial No.	: R5100030	Operator	: Norihisa Hashimoto

Mode / Remarks: 11b 2462MHz 11Mbps / Main Antenna

LIMIT : FCC15C §15.207 (QP)
FCC15C §15.207 (AV)





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Kind of EUT : Personal Computer
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Serial No. : R5100030

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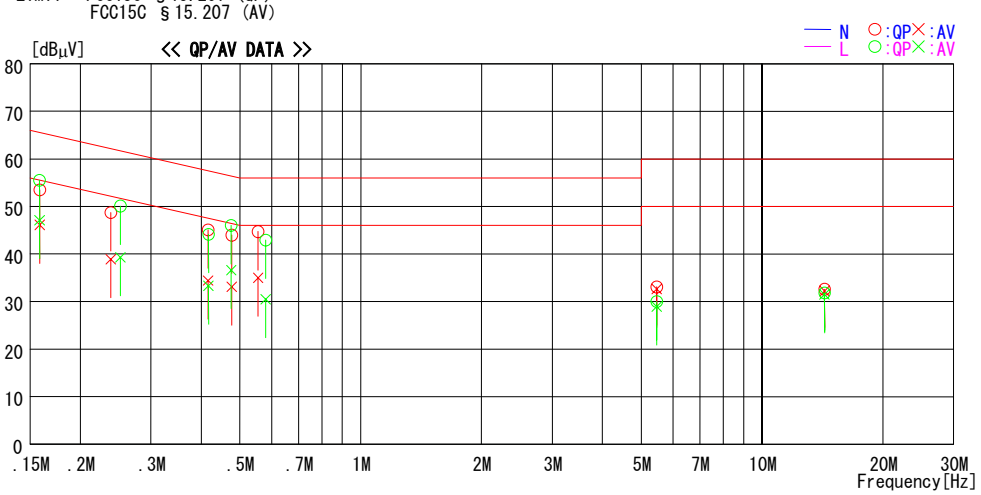
Temp℃/Humi% : 25deg.C / 46%
Operator : Norihisa Hashimoto

Mode / Remarks: 11b 2462MHz 11Mbps / Main Antenna

LIMIT : FCC15C §15.207 (QP)
FCC15C §15.207 (AV)



NO	FREQ	READING QP	READING AV	C.F	RESULT QP	RESULT AV	LIMIT QP	LIMIT AV	MARGIN QP	MARGIN AV	PHASE
	[MHz]	[dBμV]	[dBμV]	[dB]	[dBμV]	[dBμV]	[dBμV]	[dBμV]	[dB]	[dB]	
1	0.1585	53.4	46.0	0.1	53.5	46.1	65.5	55.5	12.0	9.4	N
2	0.2382	48.6	38.8	0.1	48.7	38.9	62.2	52.2	13.5	13.3	N
3	0.4165	45.0	34.3	0.1	45.1	34.4	57.5	47.5	12.4	13.1	N
4	0.4771	43.9	33.0	0.1	44.0	33.1	56.4	46.4	12.4	13.3	N
5	0.5552	44.5	34.8	0.2	44.7	35.0	56.0	46.0	11.3	11.0	N
6	5.4653	32.3	31.8	0.8	33.1	32.6	60.0	50.0	26.9	17.4	N
7	14.3194	31.1	30.7	1.5	32.6	32.2	60.0	50.0	27.4	17.8	N
8	0.1584	55.4	47.0	0.1	55.5	47.1	65.5	55.5	10.0	8.4	L
9	0.2519	50.0	39.2	0.1	50.1	39.3	61.7	51.7	11.6	12.4	L
10	0.4174	44.0	33.2	0.1	44.1	33.3	57.5	47.5	13.4	14.2	L
11	0.4757	45.9	36.5	0.1	46.0	36.6	56.4	46.4	10.4	9.8	L
12	0.5796	42.7	30.3	0.2	42.9	30.5	56.0	46.0	13.1	15.5	L
13	5.4647	29.2	28.1	0.8	30.0	28.9	60.0	50.0	30.0	21.1	L
14	14.3181	30.3	30.0	1.5	31.8	31.5	60.0	50.0	28.2	18.5	L

CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

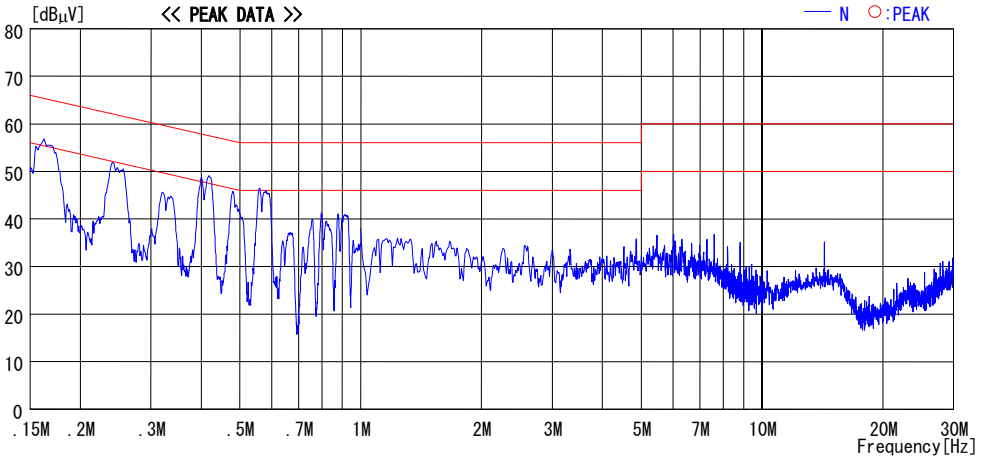
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber

Applicant	: Fujitsu Limited	Report No.	: 25LE0207-HO
Kind of EUT	: Personal Computer	Power	: AC120V/60Hz
Model No.	: P1510	Temp℃/Humi%	: 25deg.C / 46%
Serial No.	: R5100030	Operator	: Norihisa Hashimoto

Mode / Remarks: 11g 2412MHz 54Mbps / Main Antenna

LIMIT : FCC15C §15.207 (QP)
FCC15C §15.207 (AV)



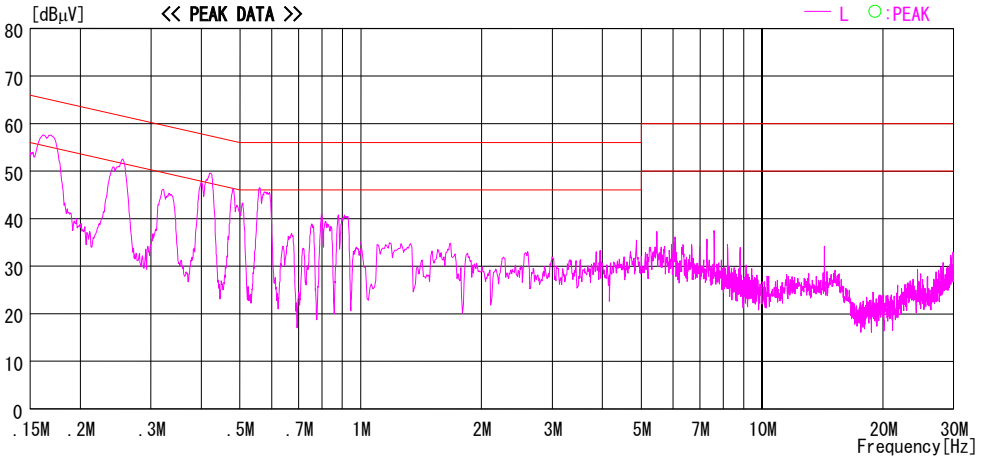


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

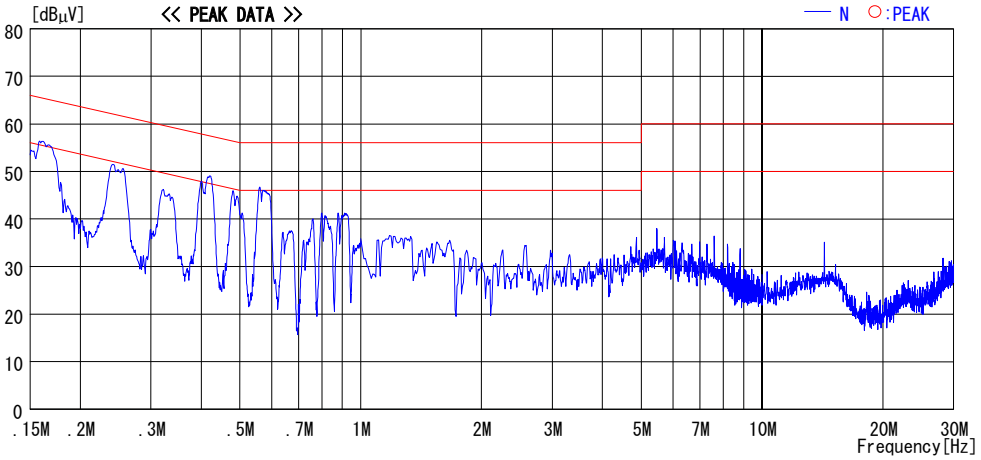
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber

Applicant	: Fujitsu Limited	Report No.	: 25LE0207-HO
Kind of EUT	: Personal Computer	Power	: AC120V/60Hz
Model No.	: P1510	Temp℃/Humi%	: 25deg.C / 46%
Serial No.	: R5100030	Operator	: Norihisa Hashimoto

Mode / Remarks: 11g 2437MHz 54Mbps / Main Antenna

LIMIT : FCC15C §15.207 (QP)
FCC15C §15.207 (AV)



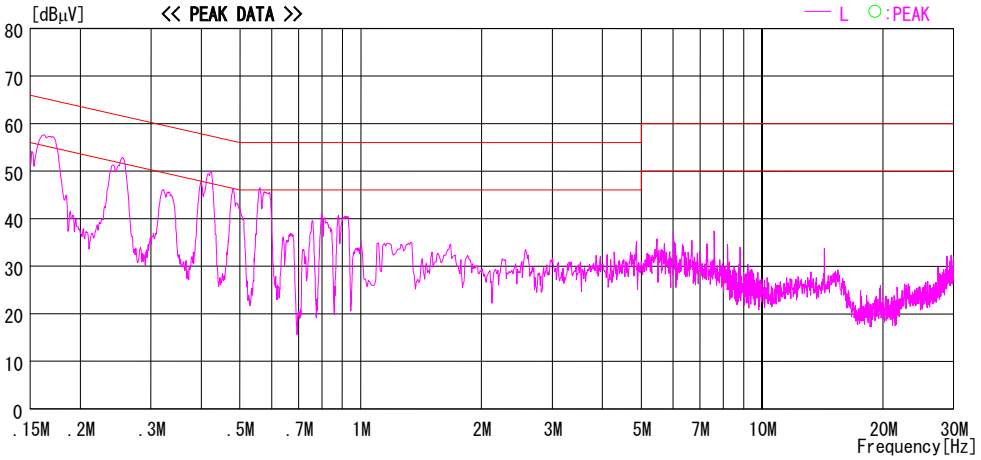


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

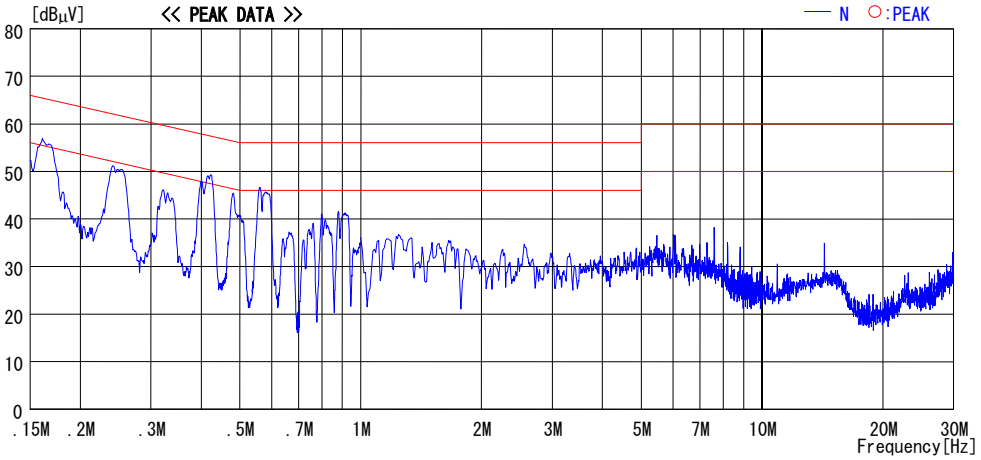
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber

Applicant	: Fujitsu Limited	Report No.	: 25LE0207-HO
Kind of EUT	: Personal Computer	Power	: AC120V/60Hz
Model No.	: P1510	Temp℃/Humi%	: 25deg.C / 46%
Serial No.	: R5100030	Operator	: Norihisa Hashimoto

Mode / Remarks: 11g 2462MHz 54Mbps / Main Antenna

LIMIT : FCC15C §15.207 (QP)
FCC15C §15.207 (AV)



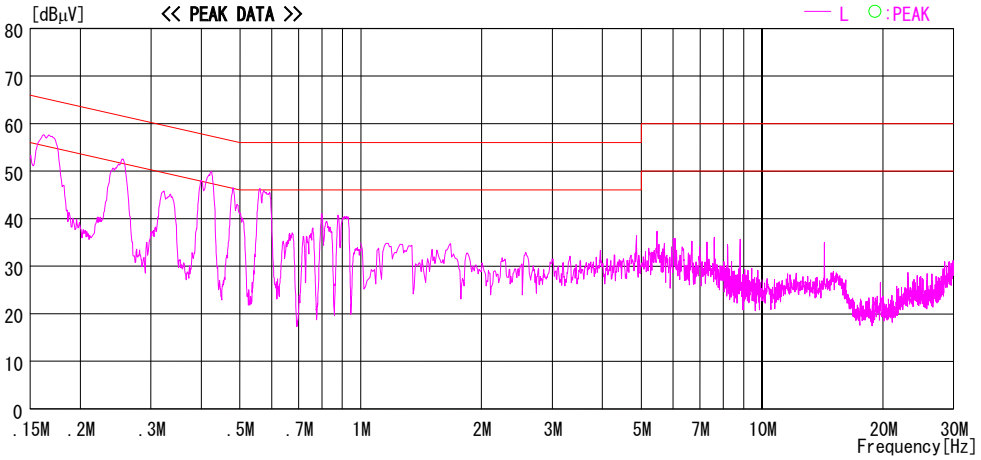


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

DATA OF CONDUCTED EMISSION TEST

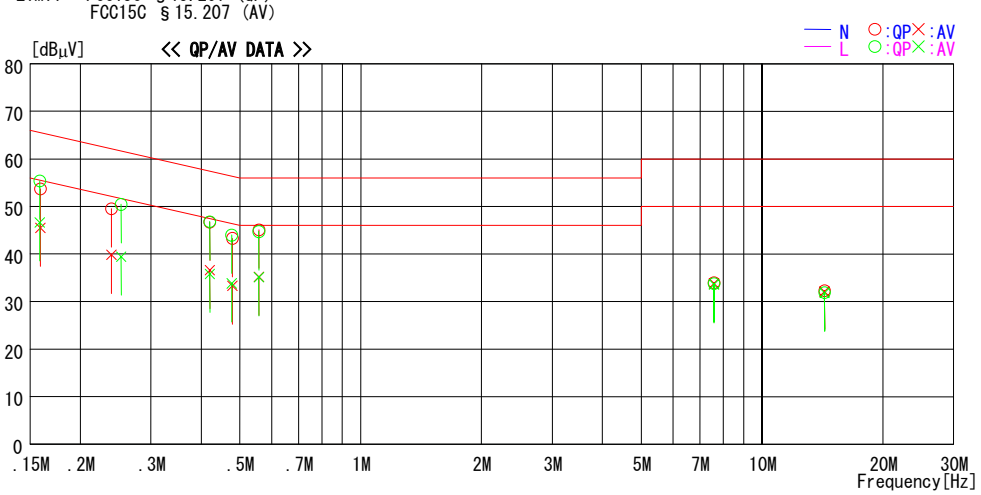
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber

Applicant : Fujitsu Limited
Kind of EUT : Personal Computer
Model No. : P1510
Serial No. : R5100030

Report No. : 25LE0207-HO
Power : AC120V/60Hz
Temp℃/Humi% : 25deg.C / 46%
Operator : Norihisa Hashimoto

Mode / Remarks: 11g 2462MHz 54Mbps / Main Antenna

LIMIT : FCC15C §15.207 (QP)
FCC15C §15.207 (AV)



NO	FREQ	READING QP	READING AV	C.F	RESULT QP	RESULT AV	LIMIT QP	LIMIT AV	MARGIN QP	MARGIN AV	PHASE
	[MHz]	[dBμV]	[dBμV]	[dB]	[dBμV]	[dBμV]	[dBμV]	[dBμV]	[dB]	[dB]	
1	0.1591	53.6	45.4	0.1	53.7	45.5	65.5	55.5	11.8	10.0	N
2	0.2392	49.4	39.7	0.1	49.5	39.8	62.1	52.1	12.6	12.3	N
3	0.4206	46.6	36.5	0.1	46.7	36.6	57.4	47.4	10.7	10.8	N
4	0.4785	43.2	33.2	0.1	43.3	33.3	56.4	46.4	13.1	13.1	N
5	0.5579	44.9	35.0	0.2	45.1	35.2	56.0	46.0	10.9	10.8	N
6	7.5928	33.0	32.8	1.0	34.0	33.8	60.0	50.0	26.0	16.2	N
7	14.3172	30.8	30.6	1.5	32.3	32.1	60.0	50.0	27.7	17.9	N
8	0.1585	55.3	46.5	0.1	55.4	46.6	65.5	55.5	10.1	8.9	L
9	0.2529	50.3	39.3	0.1	50.4	39.4	61.7	51.7	11.3	12.3	L
10	0.4207	46.7	35.7	0.1	46.8	35.8	57.4	47.4	10.6	11.6	L
11	0.4768	43.9	33.7	0.1	44.0	33.8	56.4	46.4	12.4	12.6	L
12	0.5574	44.5	34.9	0.2	44.7	35.1	56.0	46.0	11.3	10.9	L
13	7.5931	32.8	32.6	1.0	33.8	33.6	60.0	50.0	26.2	16.4	L
14	14.3186	30.4	30.3	1.5	31.9	31.8	60.0	50.0	28.1	18.2	L

CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

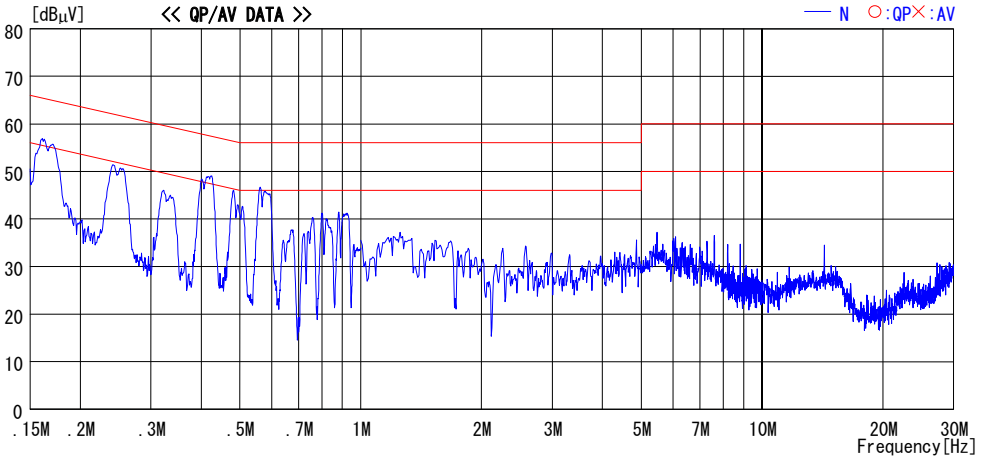
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber

Applicant	: Fujitsu Limited	Report No.	: 25LE0207-HO
Kind of EUT	: Personal Computer	Power	: AC120V/60Hz
Model No.	: P1510	Temp℃/Humi%	: 25deg.C / 46%
Serial No.	: R5100030	Operator	: Norihisa Hashimoto

Mode / Remarks: 11a High Band 5745MHz 24Mbps / Main

LIMIT : FCC15C §15.207 (QP)
FCC15C §15.207 (AV)



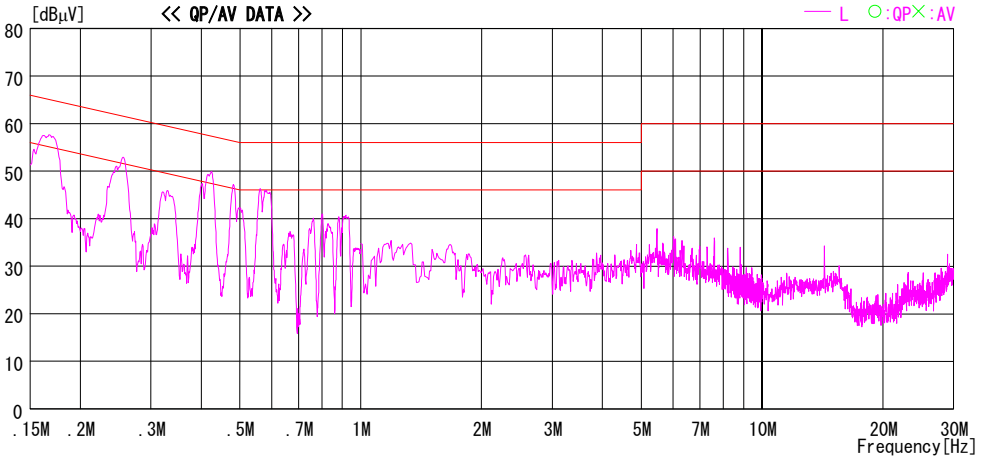


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

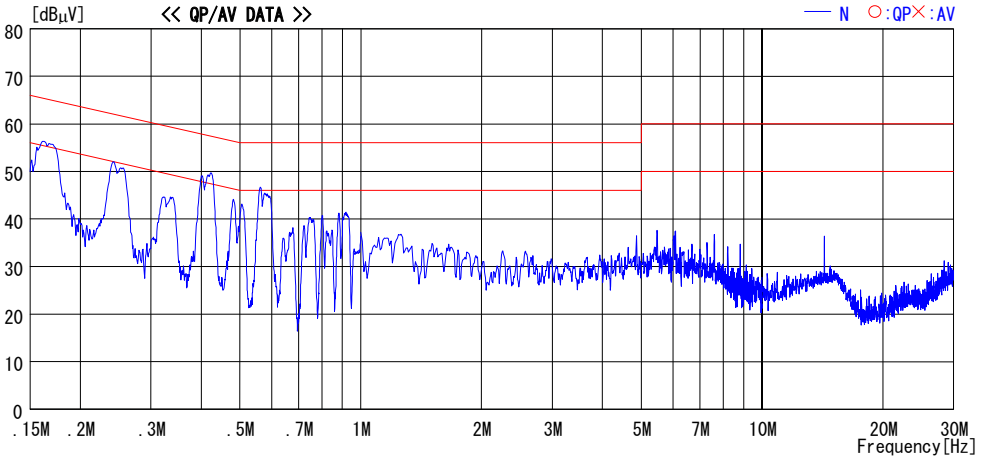
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber

Applicant	: Fujitsu Limited	Report No.	: 25LE0207-HO
Kind of EUT	: Personal Computer	Power	: AC120V/60Hz
Model No.	: P1510	Temp℃/Humi%	: 25deg.C / 46%
Serial No.	: R5100030	Operator	: Norihisa Hashimoto

Mode / Remarks: 11a High Band 5785MHz 24Mbps / Main Antenna

LIMIT : FCC15C §15.207 (QP)
FCC15C §15.207 (AV)



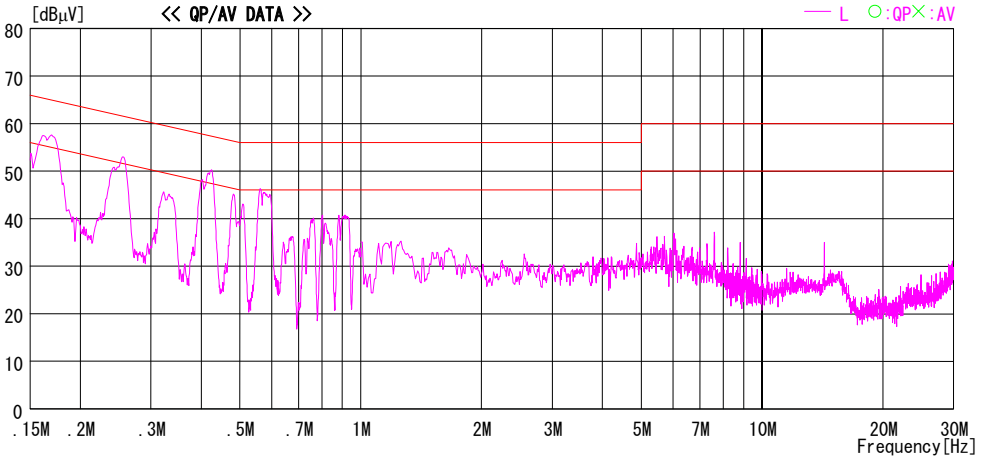


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

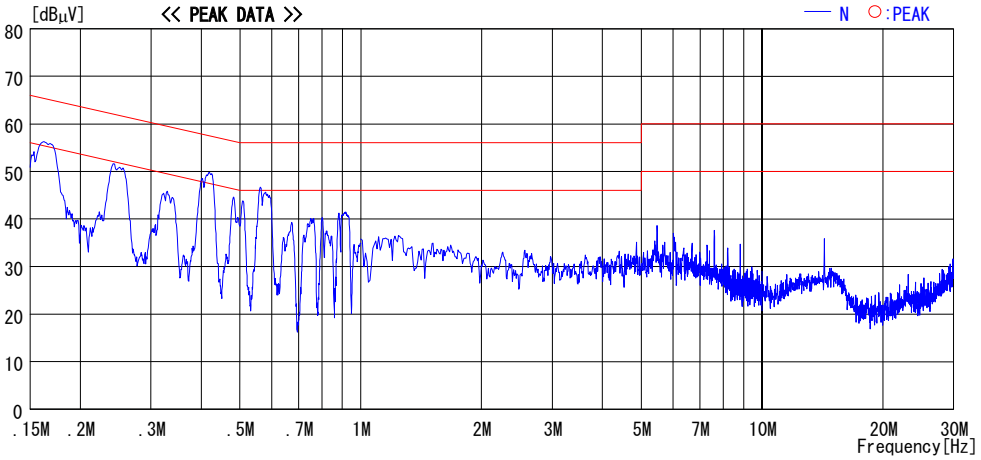
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber

Applicant	: Fujitsu Limited	Report No.	: 25LE0207-HO
Kind of EUT	: Personal Computer	Power	: AC120V/60Hz
Model No.	: P1510	Temp℃/Humi%	: 25deg.C / 46%
Serial No.	: R5100030	Operator	: Norihisa Hashimoto

Mode / Remarks: 11a High Band 5825MHz 24Mbps / Main Antenna

LIMIT : FCC15C §15.207 (QP)
FCC15C §15.207 (AV)



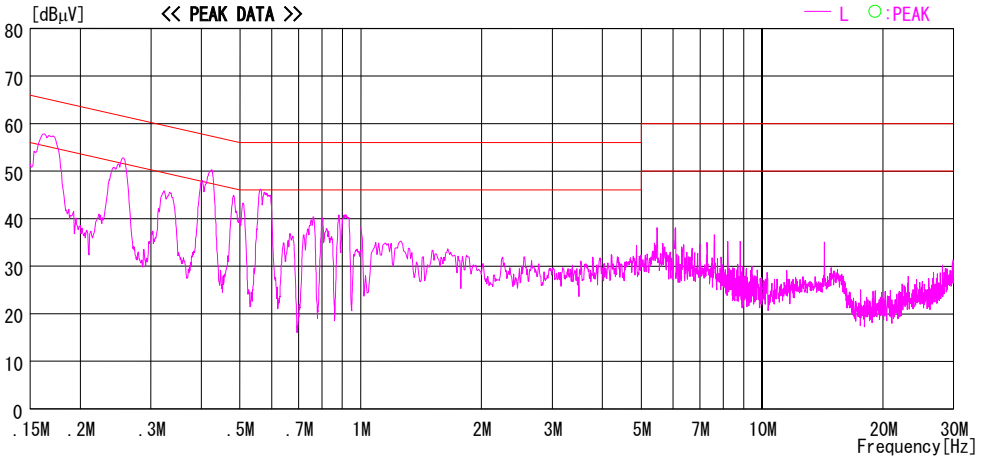


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

DATA OF CONDUCTED EMISSION TEST

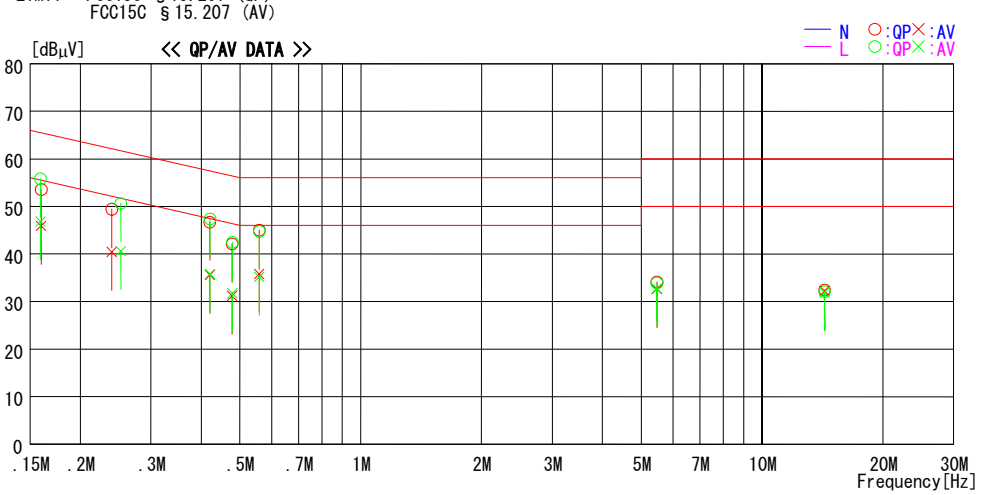
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber

Applicant : Fujitsu Limited
Kind of EUT : Personal Computer
Model No. : P1510
Serial No. : R5100030

Report No. : 25LE0207-HO
Power : AC120V/60Hz
Temp℃/Humi% : 25deg.C / 46%
Operator : Norihisa Hashimoto

Mode / Remarks: 11a High Band 5825MHz 24Mbps / Main Antenna

LIMIT : FCC15C §15.207 (QP)
FCC15C §15.207 (AV)



NO	FREQ	READING QP	READING AV	C.F	RESULT QP	RESULT AV	LIMIT QP	LIMIT AV	MARGIN QP	MARGIN AV	PHASE
	[MHz]	[dBμV]	[dBμV]	[dB]	[dBμV]	[dBμV]	[dBμV]	[dBμV]	[dB]	[dB]	
1	0.1598	53.5	45.8	0.1	53.6	45.9	65.5	55.5	11.9	9.6	N
2	0.2395	49.3	40.3	0.1	49.4	40.4	62.1	52.1	12.7	11.7	N
3	0.4207	46.6	35.5	0.1	46.7	35.6	57.4	47.4	10.7	11.8	N
4	0.4781	42.0	31.1	0.1	42.1	31.2	56.4	46.4	14.3	15.2	N
5	0.5582	44.8	35.6	0.2	45.0	35.8	56.0	46.0	11.0	10.2	N
6	5.4684	33.3	31.8	0.8	34.1	32.6	60.0	50.0	25.9	17.4	N
7	14.3191	30.9	30.7	1.5	32.4	32.2	60.0	50.0	27.6	17.8	N
8	0.1593	55.7	46.7	0.1	55.8	46.8	65.5	55.5	9.7	8.7	L
9	0.2524	50.5	40.5	0.1	50.6	40.6	61.7	51.7	11.1	11.1	L
10	0.4210	47.3	35.7	0.1	47.4	35.8	57.4	47.4	10.0	11.6	L
11	0.4786	42.3	31.6	0.1	42.4	31.7	56.4	46.4	14.0	14.7	L
12	0.5584	44.5	35.0	0.2	44.7	35.2	56.0	46.0	11.3	10.8	L
13	5.4685	33.1	31.9	0.8	33.9	32.7	60.0	50.0	26.1	17.3	L
14	14.3186	30.6	30.4	1.5	32.1	31.9	60.0	50.0	27.9	18.1	L

CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

6dB Bandwidth(DSSS and other forms of modulation)

UL Apex Co., Ltd.
Head Office EMC Lab. No.4 Measurement Room

COMPANY	: Fujitsu Limited	REPORT NO	: 25LE0207-HO
EQUIPMENT	: Personal Computer	REGULATION	: FCC 15.247(a)(2)
MODEL	: P1510	TEST DISTANCE	: -
SAMPLE NO.	: R5100030	DATE	: 05/11/2005
POWER	: AC120V/60Hz	TEMPERATURE	: 26deg.C
MODE	: Tx IEEE 802.11a/b/g	HUMIDITY	: 36%
	: Main Antenna , Continuous Transmitting	ENGINEER	: Mitsuru Fujimura

[IEEE802.11b : 11Mbps] Antenna: Main (A)

Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	9.031	500.0
Mid	2437.0	9.030	500.0
High	2462.0	9.029	500.0

[IEEE802.11g : 54Mbps] Antenna: Main (A)

Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	16.479	500.0
Mid	2437.0	16.480	500.0
High	2462.0	15.254	500.0

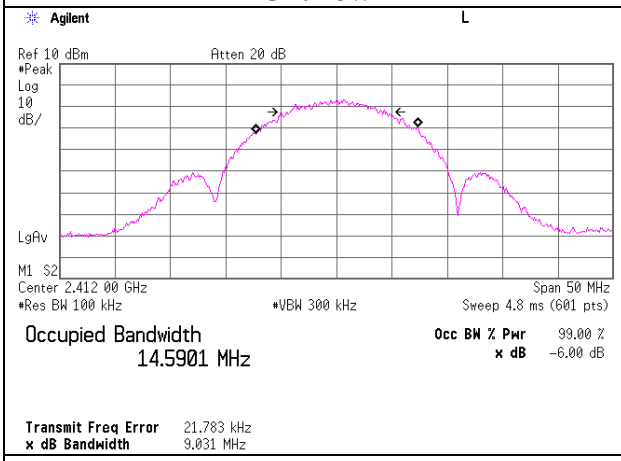
[IEEE802.11a : 24Mbps] Antenna: Main (A)

Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
149	5745.0	16.505	500.0
157	5785.0	16.511	500.0
165	5825.0	16.511	500.0

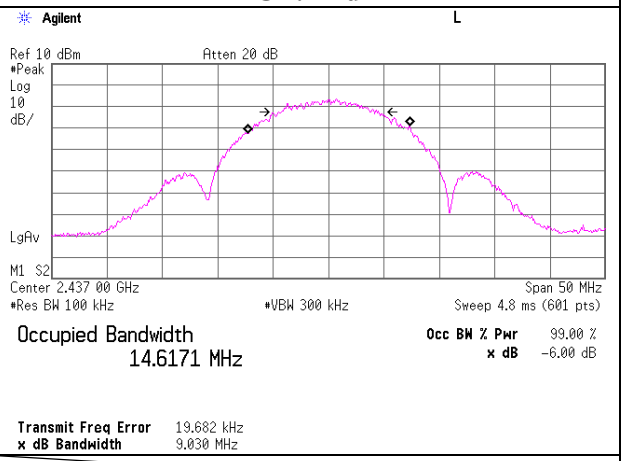
6dB Bandwidth(DSSS and other forms of modulation)

IEEE802.11b 11Mbps Antenna: Main

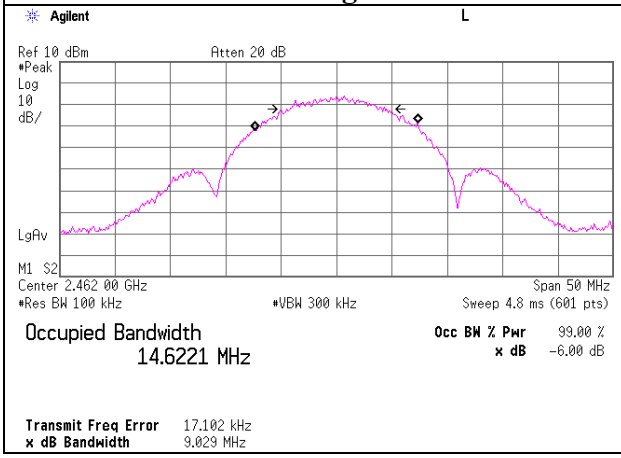
Ch:Low



Ch:Mid



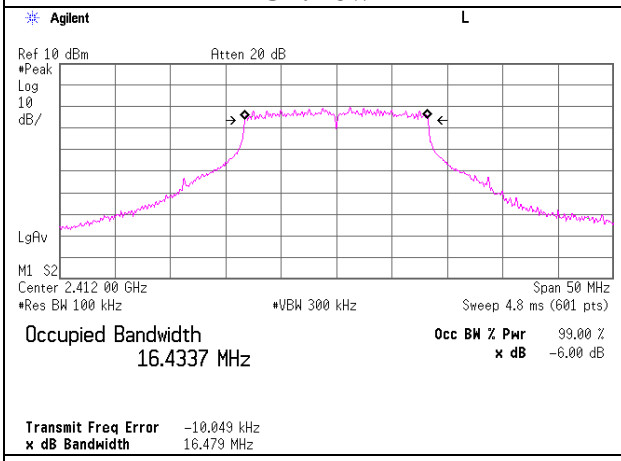
Ch:High



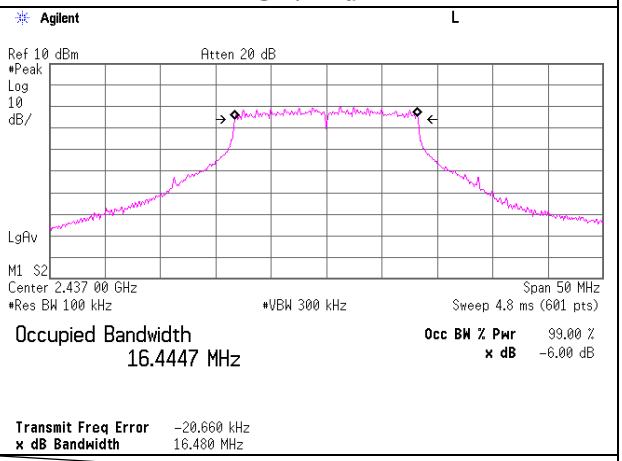
6dB Bandwidth(DSSS and other forms of modulation)

IEEE802.11g 54Mbps Antenna: Main

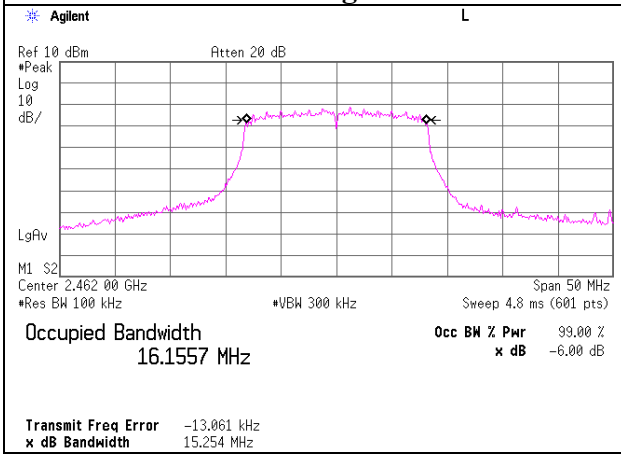
Ch:Low



Ch:Mid



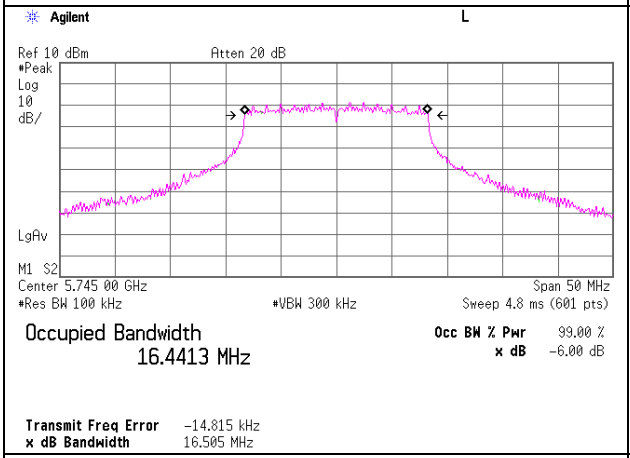
Ch:High



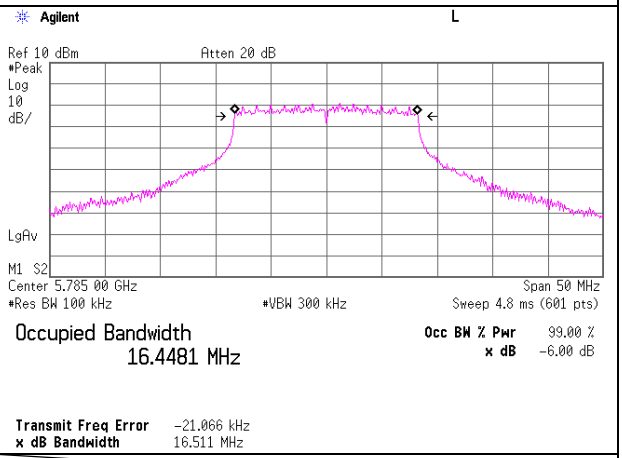
6dB Bandwidth(DSSS and other forms of modulation)

IEEE802.11a 24Mbps Antenna: Main

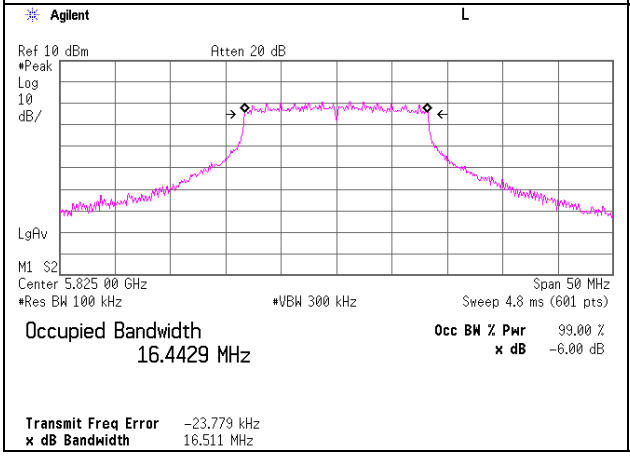
Ch:149



Ch:157



Ch:165



Maximum Peak OutPut Power (DSSS and other forms of modulation)

Antenna: Main

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

COMPANY	: Fujitsu Limited	REPORT NO	: 25LE0207-HO
EQUIPMENT	: Personal Computer	REGULATION	: FCC 15.247(b)(3)
MODEL	: P1510	TEST DISTANCE	: -
SAMPLE NO.	: R5100030	DATE	: 27/04/2005
POWER	: AC120V/60Hz	TEMPERATURE	: 24deg.C
MODE	: Tx IEEE 802.11b/g, 11a(High Band)	HUMIDITY	: 52%
	: Main Antenna , Continuous Transmitting	ENGINEER	: Mitsuru Fujimura

[IEEE802.11b: 11Mbps Main Antenna]

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
1	2412.0	8.69	1.04	10.00	19.73	30.00	10.27
6	2437.0	8.99	1.01	10.00	20.00	30.00	10.00
11	2462.0	9.20	0.99	10.00	20.19	30.00	9.81

[IEEE802.11g: 54Mbps Main Antenna]

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
1	2412.0	8.20	1.04	10.00	19.24	30.00	10.76
6	2437.0	9.16	1.01	10.00	20.17	30.00	9.83
11	2462.0	6.69	0.99	10.00	17.68	30.00	12.32

[IEEE802.11a: 24Mbps Main Antenna]

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
149	5745.0	8.74	1.20	10.00	19.94	30.00	10.06
157	5785.0	8.64	1.16	10.00	19.80	30.00	10.20
165	5825.0	8.87	1.19	10.00	20.06	30.00	9.94

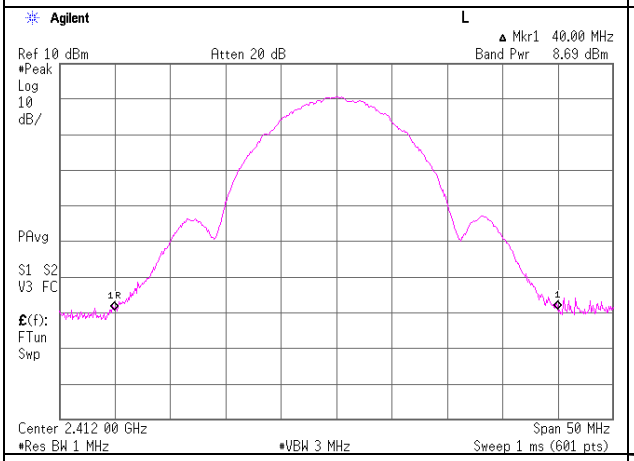
[IEEE802.11a: 54Mbps Main Antenna]

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
149	5745.0	6.51	1.20	10.00	17.71	30.00	12.29
157	5785.0	5.71	1.16	10.00	16.87	30.00	13.13
165	5825.0	5.95	1.19	10.00	17.14	30.00	12.86

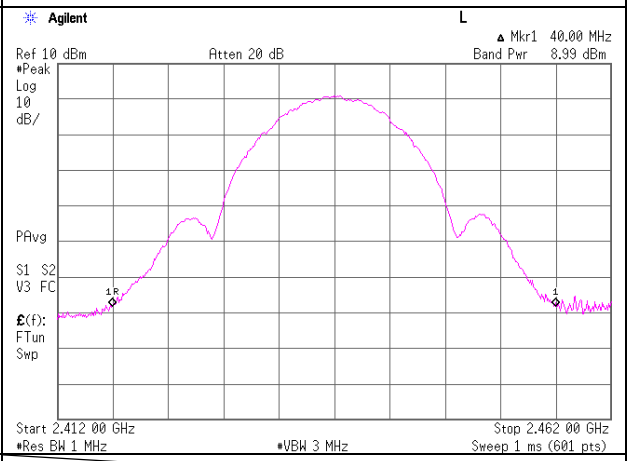
Sample Calculation:
Result = Reading + Cable Loss + Attenuator
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

Maximum Peak OutPut Power (DSSS and other forms of modulation)
IEEE802.11b 11Mbps Antenna: Main

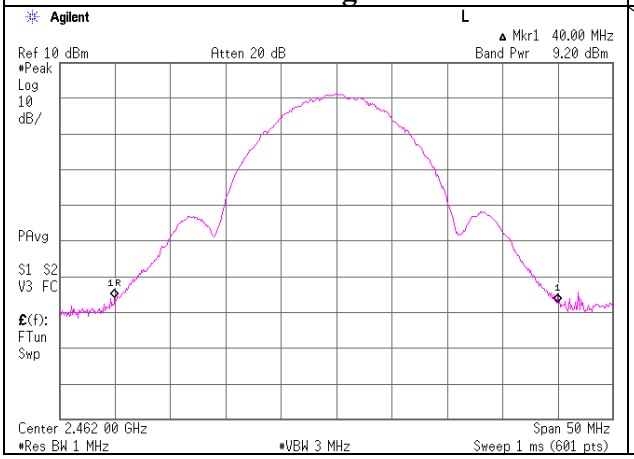
Ch:Low



Ch:Mid

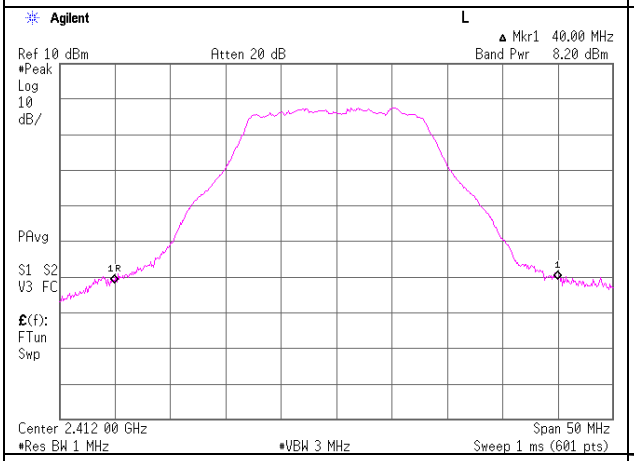


Ch:High

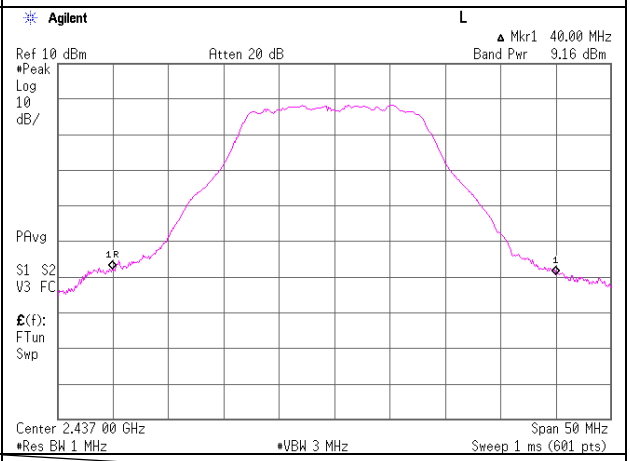


Maximum Peak OutPut Power (DSSS and other forms of modulation)
IEEE802.11g 54Mbps Antenna: Main

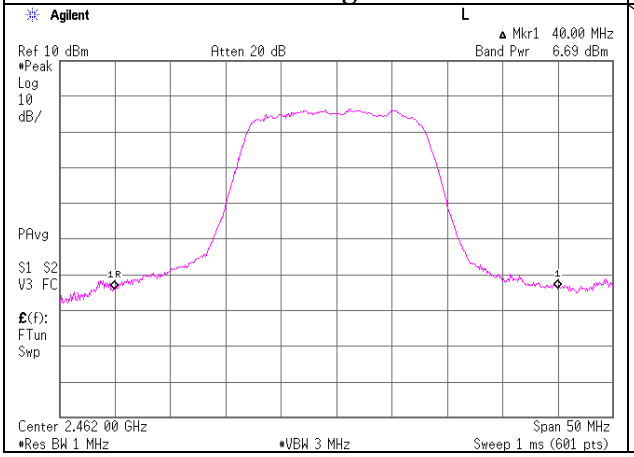
Ch:Low



Ch:Mid

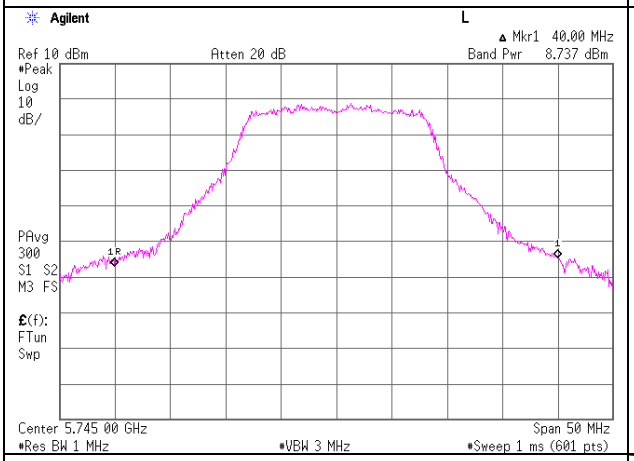


Ch:High

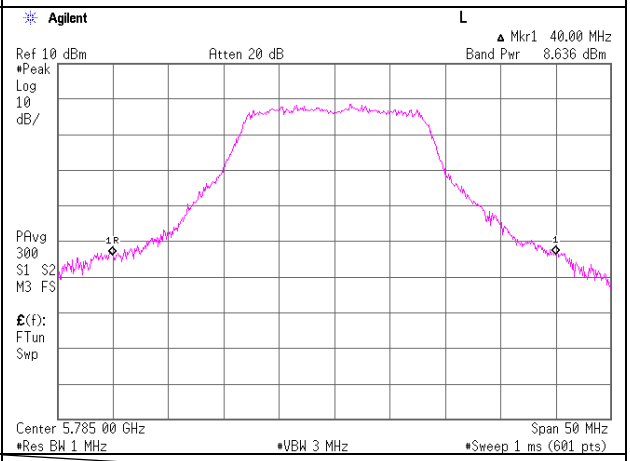


Maximum Peak OutPut Power (DSSS and other forms of modulation)
IEEE802.11a (High Band) 24Mbps Antenna :Main

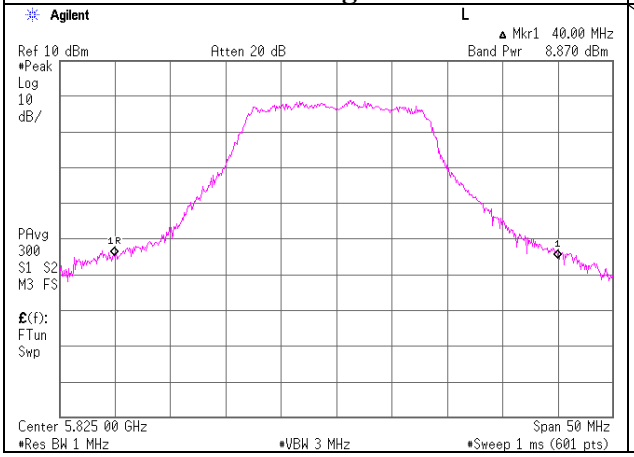
Ch:Low



Ch:Mid

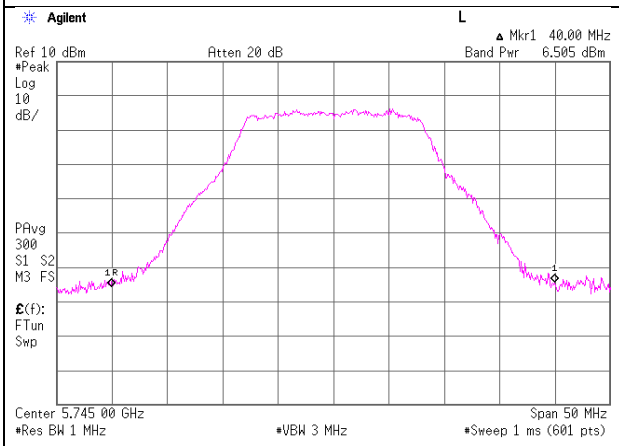


Ch:High

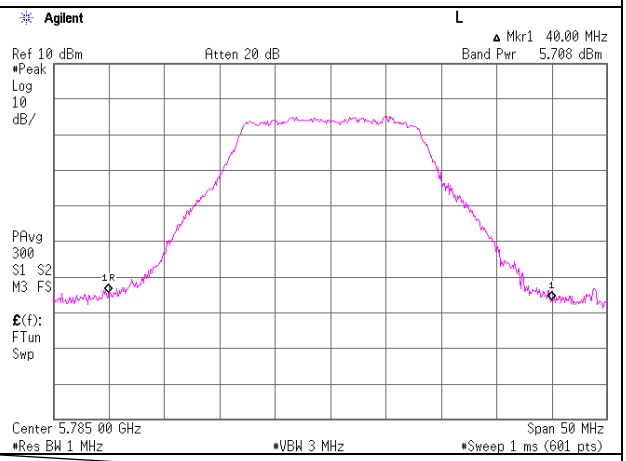


Maximum Peak OutPut Power (DSSS and other forms of modulation)
IEEE802.11a 54Mbps Antenna: Main

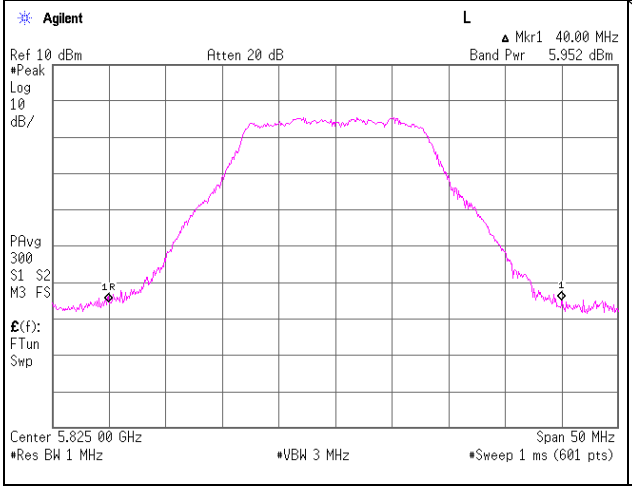
Ch:Low



Ch:Mid



Ch:High



Maximum Peak OutPut Power (DSSS and other forms of modulation)

Antenna: Aux

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

COMPANY	: Fujitsu Limited	REPORT NO	: 25LE0207-HO
EQUIPMENT	: Personal Computer	REGULATION	: FCC 15.247(b)(3)
MODEL	: P1510	TEST DISTANCE	: -
SAMPLE NO.	: R5100030	DATE	: 27/04/2005
POWER	: AC120V/60Hz	TEMPERATURE	: 24deg.C
MODE	: Tx IEEE 802.11b/g, 11a(High Band)	HUMIDITY	: 52%
	: Aux Antenna , Continuous Transmitting	ENGINEER	: Mitsuru Fujimura

[IEEE802.11b: Aux Antenna (11Mbps)]

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
1	2412.0	8.58	1.04	10.00	19.62	30.00	10.38
6	2437.0	8.69	1.01	10.00	19.70	30.00	10.30
11	2462.0	9.06	0.99	10.00	20.05	30.00	9.95

[IEEE802.11g: Aux Antenna (54Mbps)]

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
1	2412.0	8.06	1.04	10.00	19.10	30.00	10.90
6	2437.0	8.82	1.01	10.00	19.83	30.00	10.17
11	2462.0	6.62	0.99	10.00	17.61	30.00	12.39

[IEEE802.11a: Aux Antenna (24Mbps)]

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
149	5745.0	8.70	1.20	10.00	19.90	30.00	10.10
157	5785.0	8.53	1.16	10.00	19.69	30.00	10.31
165	5825.0	8.79	1.19	10.00	19.98	30.00	10.02

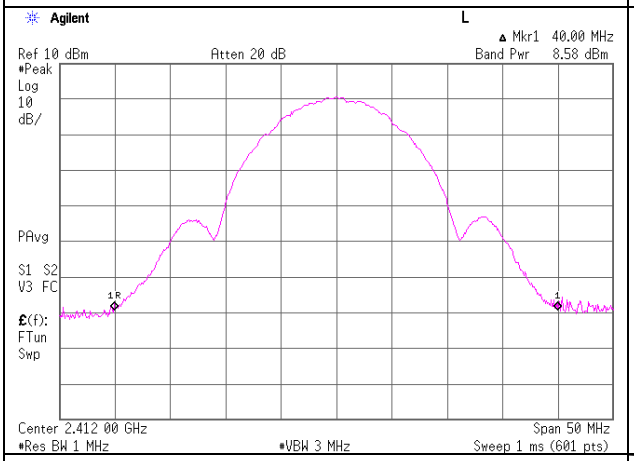
[IEEE802.11a: Aux Antenna (54Mbps)]

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
149	5745.0	6.20	1.20	10.00	17.40	30.00	12.60
157	5785.0	5.64	1.16	10.00	16.80	30.00	13.20
165	5825.0	5.86	1.19	10.00	17.05	30.00	12.95

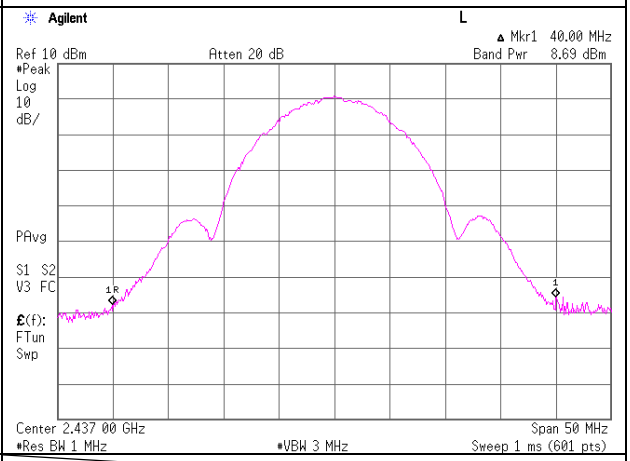
Sample Calculation:
Result = Reading + Cable Loss + Attenuator
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

Maximum Peak OutPut Power (DSSS and other forms of modulation)
IEEE802.11b 11Mbps Antenna: Aux

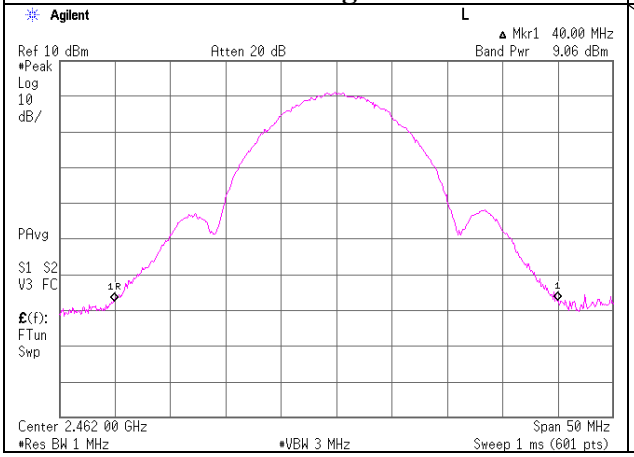
Ch:Low



Ch:Mid

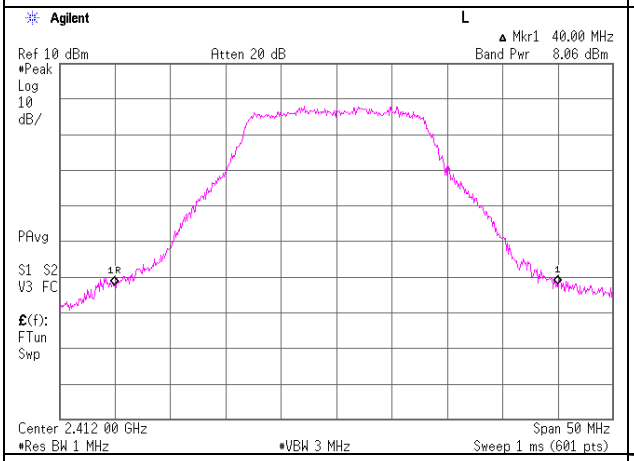


Ch:High

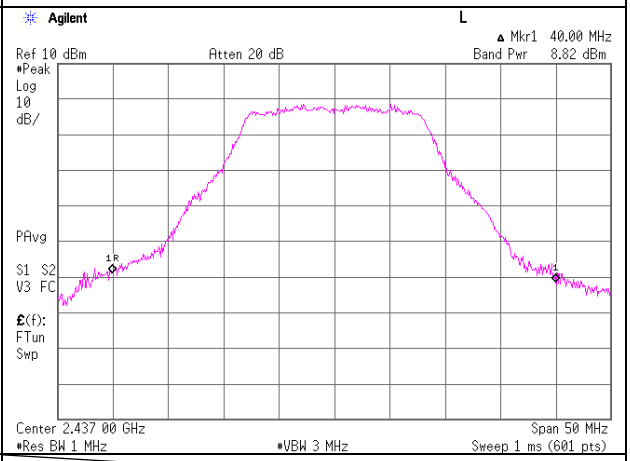


Maximum Peak OutPut Power (DSSS and other forms of modulation)
IEEE802.11g 54Mbps Antenna: Aux

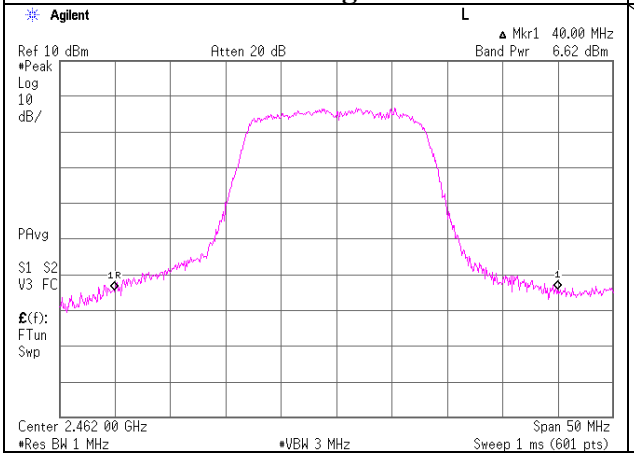
Ch:Low



Ch:Mid

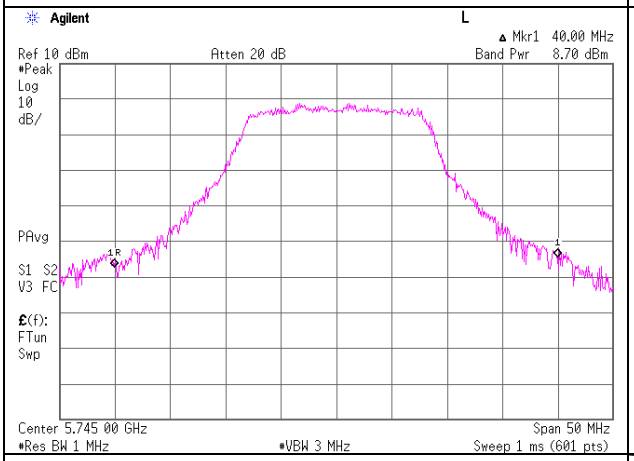


Ch:High

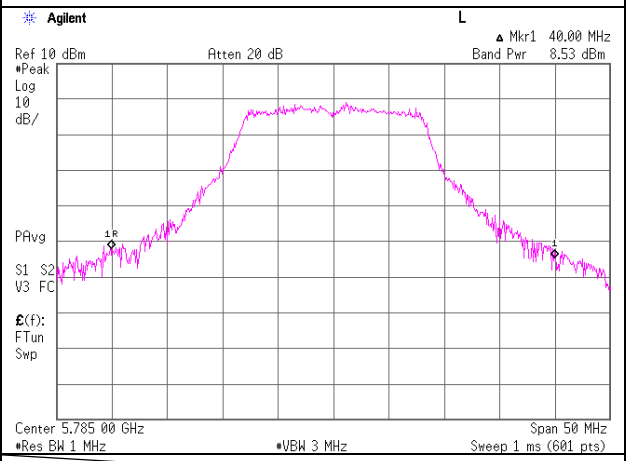


Maximum Peak OutPut Power (DSSS and other forms of modulation)
IEEE802.11a (High Band) 24Mbps Antenna :Aux

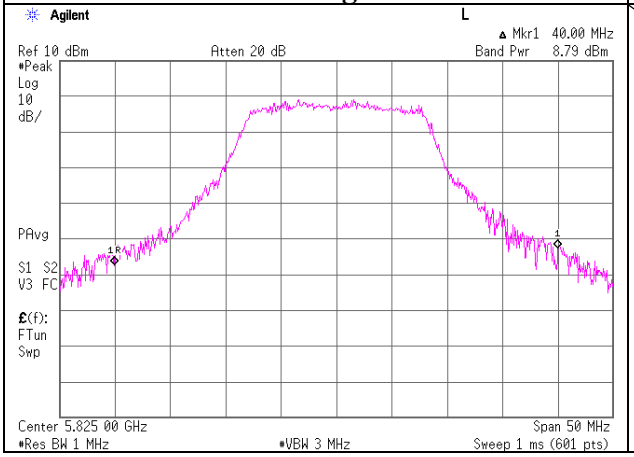
Ch:Low



Ch:Mid

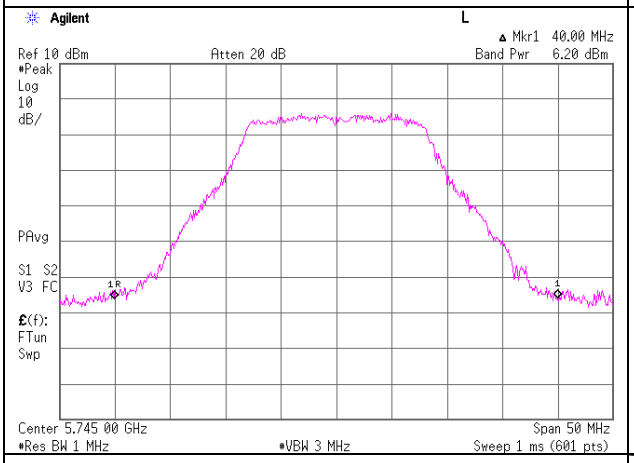


Ch:High

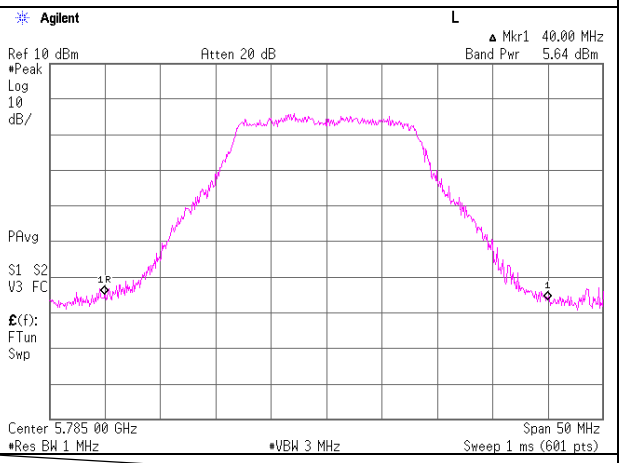


Maximum Peak OutPut Power (DSSS and other forms of modulation)
IEEE802.11a 54Mbps Antenna: Aux

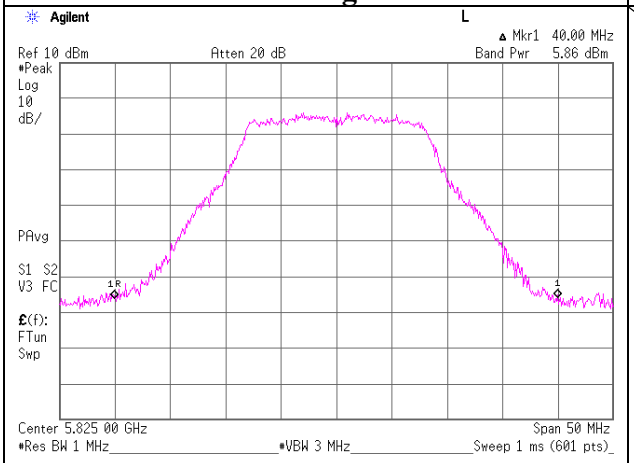
Ch:Low



Ch:Mid



Ch:High



Peak Transmit Power
(Pre-check Data)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

COMPANY	: Fujitsu Limited	REPORT NO	: 25LE0207-HO
EQUIPMENT	: Personal Computer	REGULATION	: FCC 15.247(b)(3)
MODEL	: P1510	TEST DISTANCE	: -
SAMPLE NO.	: R5100030	DATE	: 27/04/2005
POWER	: AC120V/60Hz	TEMPERATURE	: 24deg.C
MODE	: Tx IEEE 802.11b/g	HUMIDITY	: 52%
	: Continuous Transmitting	ENGINEER	: Mitsuru Fujimura

[The worst data rate in SAR result]

[IEEE802.11a: Aux Antenna (12Mbps)]

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]
149	5745.0	8.02	1.20	10.00	19.22
157	5785.0	8.02	1.16	10.00	19.18
165	5825.0	8.07	1.19	10.00	19.26

[The worst data rate in SAR result]

[IEEE802.11a: Aux Antenna (18Mbps)]

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]
149	5745.0	8.02	1.20	10.00	19.22
157	5785.0	7.71	1.16	10.00	18.87
165	5825.0	8.11	1.19	10.00	19.30

Reference DATA for SAR test

[IEEE802.11b : Main Antenna]

Ch	Data rate [bps]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]
6	DBPSK 1	5.63	1.01	10.00	16.64
6	DQPSK 2	6.41	1.01	10.00	17.42
6	CCK 5.5	7.68	1.01	10.00	18.69
6	CCK 11	8.99	1.01	10.00	20.00

Reference DATA for SAR test

[IEEE802.11b : Aux Antenna]

Ch	Data rate [bps]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]
6	DBPSK 1	5.41	1.01	10.00	16.42
6	DQPSK 2	6.07	1.01	10.00	17.08
6	CCK 5.5	7.22	1.01	10.00	18.23
6	CCK 11	8.69	1.01	10.00	19.70

[IEEE802.11g : Main Antenna]

Ch	Data rate [bps]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]
6	BPSK 6	8.52	1.01	10.00	19.53
6	BPSK 9	8.58	1.01	10.00	19.59
6	QPSK 12	8.85	1.01	10.00	19.86
6	QPSK 18	7.97	1.01	10.00	18.98
6	16QAM 24	8.47	1.01	10.00	19.48
6	16QAM 36	8.52	1.01	10.00	19.53
6	64QAM 48	8.46	1.01	10.00	19.47
6	64QAM 54	9.16	1.01	10.00	20.17

[IEEE802.11g : Aux Antenna]

Ch	Data rate [bps]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]
6	BPSK 6	8.31	1.01	10.00	19.32
6	BPSK 9	7.99	1.01	10.00	19.00
6	QPSK 12	7.80	1.01	10.00	18.81
6	QPSK 18	7.89	1.01	10.00	18.90
6	16QAM 24	8.45	1.01	10.00	19.46
6	16QAM 36	8.46	1.01	10.00	19.47
6	64QAM 48	8.45	1.01	10.00	19.46
6	64QAM 54	8.82	1.01	10.00	19.83

Peak Transmit Power
(SAR Test Data)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

COMPANY	: Fujitsu Limited	REPORT NO	: 25LE0207-HO
EQUIPMENT	: Personal Computer	REGULATION	: FCC 15.247(b)(3)
MODEL	: P1510	TEST DISTANCE	: -
SAMPLE NO.	: R5100030	DATE	: 27/04/2005
POWER	: AC120V/60Hz	TEMPERATURE	: 24deg.C
MODE	: Tx 11a(High Band)	HUMIDITY	: 52%
	: Continuous Transmitting	ENGINEER	: Mitsuru Fujimura

[IEEE802.11a : Main Antenna]

Ch	Data rate [Mbps]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]
157	BPSK 6	8.36	1.16	10.00	19.52
157	BPSK 9	8.28	1.16	10.00	19.44
157	QPSK 12	8.02	1.16	10.00	19.18
157	QPSK 18	7.99	1.16	10.00	19.15
157	16QAM 24	8.64	1.16	10.00	19.80
157	16QAM 36	7.33	1.16	10.00	18.49
157	64QAM 48	7.29	1.16	10.00	18.45
157	64QAM 54	5.71	1.16	10.00	16.87

[IEEE802.11a : Aux Antenna]

Ch	Data rate [Mbps]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]
157	BPSK 6	8.01	1.16	10.00	19.17
157	BPSK 9	7.97	1.16	10.00	19.13
157	QPSK 12	7.57	1.16	10.00	18.73
157	QPSK 18	7.71	1.16	10.00	18.87
157	16QAM 24	8.53	1.16	10.00	19.69
157	16QAM 36	7.06	1.16	10.00	18.22
157	64QAM 48	6.99	1.16	10.00	18.15
157	64QAM 54	5.64	1.16	10.00	16.80

[The worst data rate in SAR result]

[IEEE802.11g: Main Antenna (12Mbps)]

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]
1	2412.0	7.53	1.04	10.00	18.57
6	2437.0	8.85	1.01	10.00	19.86
11	2462.0	6.18	0.99	10.00	17.17

[The worst data rate in SAR result]

[IEEE802.11g: Aux Antenna(18Mbps)]

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]
1	2412.0	7.12	1.04	10.00	18.16
6	2437.0	7.89	1.01	10.00	18.90
11	2462.0	5.98	0.99	10.00	16.97

Radiated Spurious Emission(DSSS and other forms of modulation)(below 1GHz)

(11b, Tx. Ch.: Low)

DATA OF RADIATED EMISSION TEST

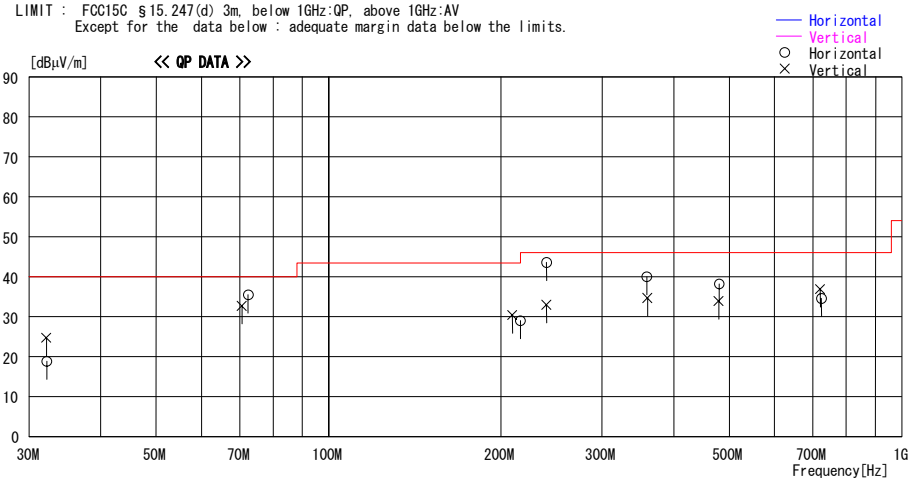
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/05/31 22:58:17

Applicant : Fujitsu Limited
Kind of EUT : Personal Computer
Model No. : P1510
Serial No. : R5100030

Report No. : 25LE0207-HO
Power : AC120V/60Hz (AC Adaptor)
Temp./Humi. : 26deg.C / 47%
Operator : Kenichi Adachi

Mode / Remarks : 11b 2412MHz 11Mbps/MAIN Antenna/Hor Y Ver X(MAX-Axis)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dBµV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBµV/m]	LIMIT [dBµV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
	----- Horizontal ------									
1	32.232	22.2	17.9	6.9	28.1	18.9	40.0	21.1	100	174
2	72.354	49.1	6.8	7.5	27.9	35.5	40.0	4.5	241	0
3	216.197	29.6	17.2	9.4	27.2	29.0	46.0	17.0	180	350
4	239.987	43.8	17.3	9.6	27.1	43.6	46.0	2.4	137	114
5	359.345	40.4	16.6	10.5	27.5	40.0	46.0	6.0	100	53
6	480.501	36.9	18.5	11.1	28.3	38.2	46.0	7.8	181	73
7	724.234	29.9	20.9	12.4	28.6	34.6	46.0	11.4	103	150
	----- Vertical ------									
8	32.164	27.9	18.0	6.9	28.1	24.7	40.0	15.3	100	75
9	70.581	46.2	6.9	7.5	27.9	32.7	40.0	7.3	110	100
10	209.098	31.2	17.2	9.3	27.3	30.4	43.5	13.1	100	164
11	239.989	33.2	17.3	9.6	27.1	33.0	46.0	13.0	145	18
12	359.991	35.1	16.6	10.5	27.5	34.7	46.0	11.3	294	359
13	479.559	32.6	18.5	11.1	28.3	33.9	46.0	12.1	209	75
14	720.845	32.2	20.9	12.4	28.6	36.9	46.0	9.1	100	18

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - AMP.GAIN Page:

Radiated Spurious Emission(DSSS and other forms of modulation)(below 1GHz)

(11b, Tx. Ch.: Mid)

DATA OF RADIATED EMISSION TEST

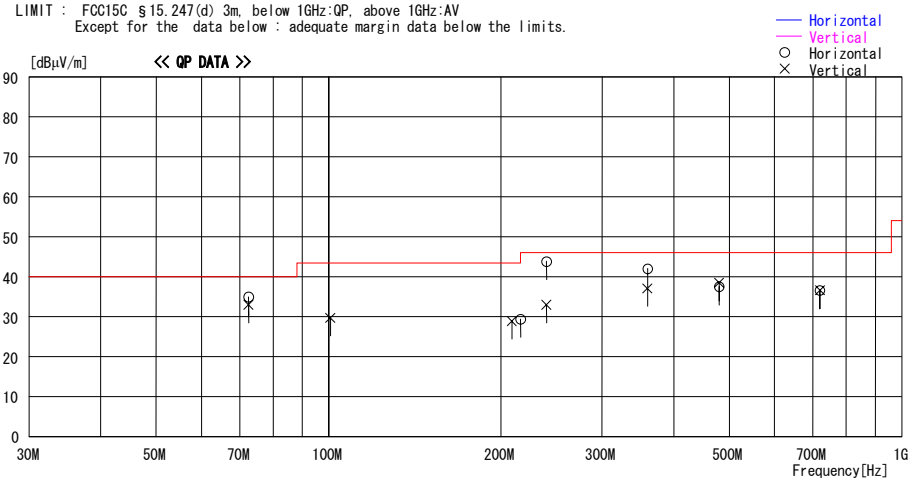
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/06/01 00:22:08

Applicant : Fujitsu Limited
Kind of EUT : Personal Computer
Model No. : P1510
Serial No. : R5100030

Report No. : 25LE0207-HO
Power : AC120V/60Hz (AC Adaptor)
Temp./Humi. : 26deg.C / 47%
Operator : Kenichi Adachi

Mode / Remarks : 11b 2437MHz 11Mbps/MAIN Antenna/Hor Y Ver X (MAX Axis)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dBµV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBµV/m]	LIMIT [dBµV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
	----- Horizontal ------									
1	72.432	48.5	6.8	7.5	27.9	34.9	40.0	5.1	250	18
2	216.272	30.0	17.2	9.4	27.2	29.4	46.0	16.6	151	8
3	239.990	44.0	17.3	9.6	27.1	43.8	46.0	2.2	137	117
4	359.989	42.4	16.6	10.5	27.5	42.0	46.0	4.0	100	62
5	479.969	36.2	18.5	11.1	28.3	37.5	46.0	8.5	195	84
6	719.989	31.9	20.9	12.4	28.6	36.6	46.0	9.4	111	253
	----- Vertical ------									
7	72.432	46.6	6.8	7.5	27.9	33.0	40.0	7.0	163	246
8	100.791	39.1	10.3	8.1	27.8	29.7	43.5	13.8	133	354
9	208.899	29.7	17.2	9.3	27.3	28.9	43.5	14.6	228	174
10	239.989	33.2	17.3	9.6	27.1	33.0	46.0	13.0	145	17
11	359.981	37.5	16.6	10.5	27.5	37.1	46.0	8.9	138	218
12	479.983	37.2	18.5	11.1	28.3	38.5	46.0	7.5	100	149
13	719.991	31.9	20.9	12.4	28.6	36.6	46.0	9.4	100	18

CHART:WITHOUT FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - AMP.GAIN Page:

Radiated Spurious Emission(DSSS and other forms of modulation)

(11b, Tx. Ch.: High)

DATA OF RADIATED EMISSION TEST

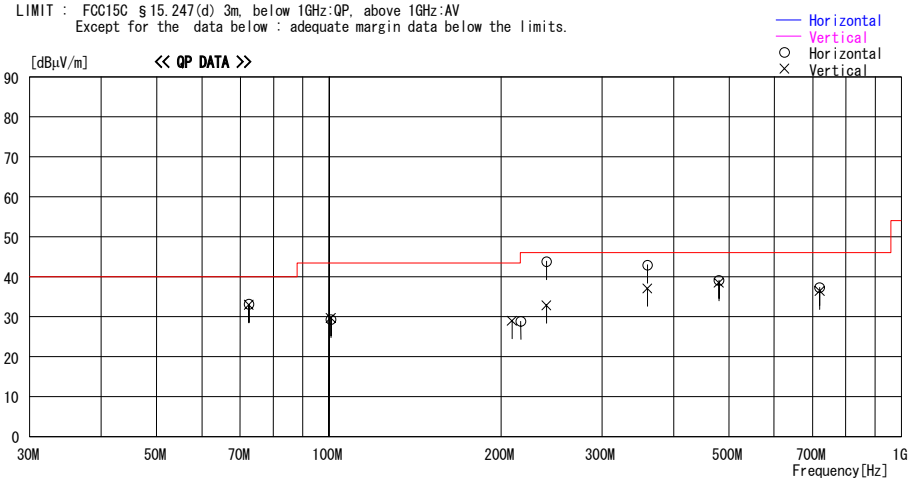
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/06/01 01:08:02

Applicant : Fujitsu Limited
Kind of EUT : Personal Computer
Model No. : P1510
Serial No. : R5100030

Report No. : 25LE0207-HO
Power : AC120V/60Hz (AC Adaptor)
Temp./Humi. : 26deg.C / 47%
Operator : Kenichi Adachi

Mode / Remarks : 11b 2462MHz 11Mbps/MAIN Antenna/Hor Y Ver X (MAX Axis)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dBμV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBμV/m]	LIMIT [dBμV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal ------										
1	72.432	46.7	6.8	7.5	27.9	33.1	40.0	6.9	258	0
2	100.792	38.7	10.3	8.1	27.8	29.3	43.5	14.2	302	225
3	216.301	29.4	17.2	9.4	27.2	28.8	46.0	17.2	157	8
4	239.979	44.0	17.3	9.6	27.1	43.8	46.0	2.2	136	113
5	359.992	43.3	16.6	10.5	27.5	42.9	46.0	3.1	100	62
6	479.989	37.8	18.5	11.1	28.3	39.1	46.0	6.9	190	71
7	719.990	32.6	20.9	12.4	28.6	37.3	46.0	8.7	112	243
----- Vertical ------										
8	72.434	46.6	6.8	7.5	27.9	33.0	40.0	7.0	164	246
9	100.792	39.1	10.3	8.1	27.8	29.7	43.5	13.8	133	353
10	208.890	29.8	17.2	9.3	27.3	29.0	43.5	14.5	228	174
11	239.989	33.1	17.3	9.6	27.1	32.9	46.0	13.1	144	18
12	359.991	37.5	16.6	10.5	27.5	37.1	46.0	8.9	138	219
13	479.984	37.2	18.5	11.1	28.3	38.5	46.0	7.5	100	150
14	719.988	31.7	20.9	12.4	28.6	36.4	46.0	9.6	100	18

CHART:WITH FACTOR ANT TYPE:-30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - AMP.GAIN Page:

Radiated Spurious Emission(DSSS and other forms of modulation)

(11g, Tx. Ch.: Low)

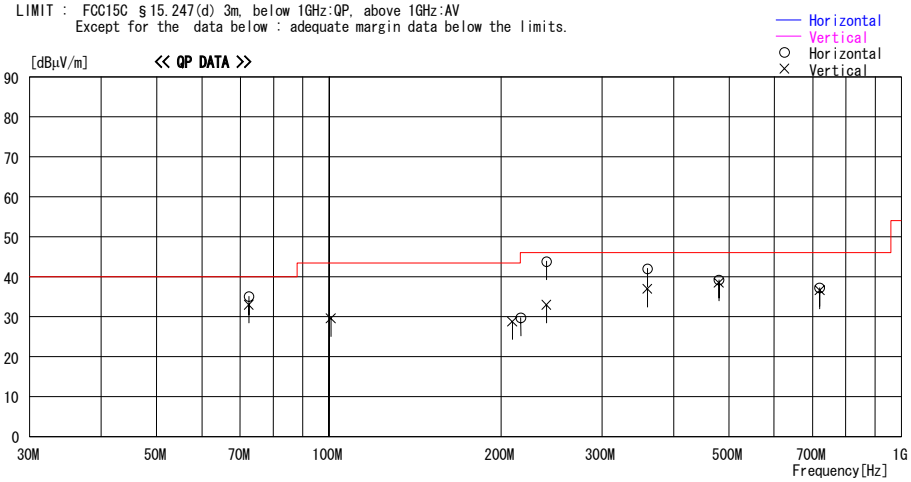
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/06/01 01:40:07

Applicant	: Fujitsu Limited	Report No.	: 25LE0207-HO
Kind of EUT	: Personal Computer	Power	: AC120V/60Hz (AC Adaptor)
Model No.	: P1510	Temp./Humi.	: 26deg.C / 47%
Serial No.	: R5100030	Operator	: Kenichi Adachi

Mode / Remarks : 11g 2412MHz 54Mbps/MAIN Antenna/Hor Y Ver X(MAX-Axis)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dBμV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBμV/m]	LIMIT [dBμV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	72.432	48.6	6.8	7.5	27.9	35.0	40.0	5.0	256	8
2	216.253	30.3	17.2	9.4	27.2	29.7	46.0	16.3	150	10
3	239.991	44.0	17.3	9.6	27.1	43.8	46.0	2.2	137	110
4	359.990	42.4	16.6	10.5	27.5	42.0	46.0	4.0	100	64
5	479.985	37.9	18.5	11.1	28.3	39.2	46.0	6.8	191	73
6	719.990	32.5	20.9	12.4	28.6	37.2	46.0	8.8	131	248
----- Vertical -----										
7	72.432	46.6	6.8	7.5	27.9	33.0	40.0	7.0	164	247
8	100.792	39.0	10.3	8.1	27.8	29.6	43.5	13.9	132	353
9	209.098	29.6	17.2	9.3	27.3	28.8	43.5	14.7	228	170
10	239.990	33.2	17.3	9.6	27.1	33.0	46.0	13.0	145	18
11	359.991	37.4	16.6	10.5	27.5	37.0	46.0	9.0	138	220
12	479.984	37.2	18.5	11.1	28.3	38.5	46.0	7.5	100	150
13	719.988	31.9	20.9	12.4	28.6	36.6	46.0	9.4	100	18

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - AMP.GAIN Page:

Radiated Spurious Emission(DSSS and other forms of modulation)

(11g, Tx. Ch.: Mid)

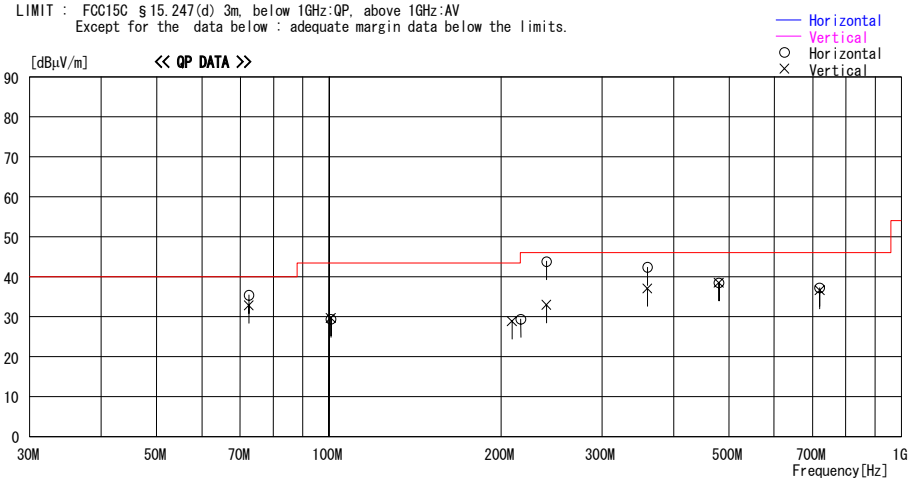
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/06/01 02:01:11

Applicant	: Fujitsu Limited	Report No.	: 25LE0207-HO
Kind of EUT	: Personal Computer	Power	: AC120V/60Hz (AC Adaptor)
Model No.	: P1510	Temp./Humi.	: 26deg.C / 47%
Serial No.	: R5100030	Operator	: Kenichi Adachi

Mode / Remarks : 11g 2437MHz 54Mbps/MAIN Antenna/Hor Y Ver X(MAX-Axis)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dBμV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBμV/m]	LIMIT [dBμV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal ------										
1	72.432	49.0	6.8	7.5	27.9	35.4	40.0	4.6	259	8
2	100.792	38.8	10.3	8.1	27.8	29.4	43.5	14.1	304	224
3	216.270	30.0	17.2	9.4	27.2	29.4	46.0	16.6	150	7
4	239.986	44.0	17.3	9.6	27.1	43.8	46.0	2.2	136	114
5	359.988	42.8	16.6	10.5	27.5	42.4	46.0	3.6	100	62
6	479.969	37.2	18.5	11.1	28.3	38.5	46.0	7.5	190	72
7	719.989	32.5	20.9	12.4	28.6	37.2	46.0	8.8	116	245
----- Vertical ------										
8	72.436	46.5	6.8	7.5	27.9	32.9	40.0	7.1	100	109
9	100.792	39.1	10.3	8.1	27.8	29.7	43.5	13.8	100	13
10	208.890	29.7	17.2	9.3	27.3	28.9	43.5	14.6	228	170
11	239.988	33.2	17.3	9.6	27.1	33.0	46.0	13.0	145	18
12	359.981	37.5	16.6	10.5	27.5	37.1	46.0	8.9	138	220
13	479.984	37.2	18.5	11.1	28.3	38.5	46.0	7.5	100	149
14	719.988	31.9	20.9	12.4	28.6	36.6	46.0	9.4	100	18

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - AMP.GAIN Page:

Radiated Spurious Emission(DSSS and other forms of modulation)

(11g, Tx. Ch.: High)

DATA OF RADIATED EMISSION TEST

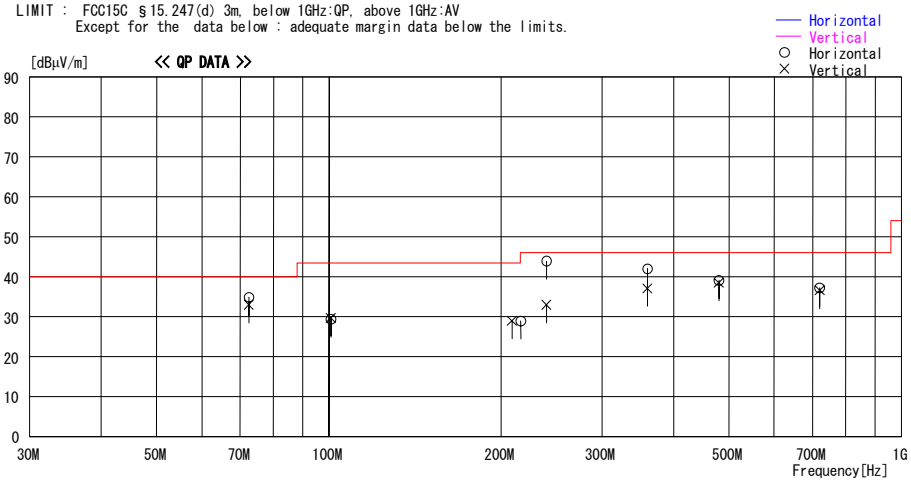
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/06/01 02:36:44

Applicant : Fujitsu Limited
Kind of EUT : Personal Computer
Model No. : P1510
Serial No. : R5100030

Report No. : 25LE0207-HO
Power : AC120V/60Hz (AC Adaptor)
Temp./Humi. : 26deg.C / 47%
Operator : Kenichi Adachi

Mode / Remarks : 11g 2462MHz 54Mbps/MAIN Antenna/Hor Y Ver X(MAX-Axis)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dBµV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBµV/m]	LIMIT [dBµV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal ------										
1	72.432	48.4	6.8	7.5	27.9	34.8	40.0	5.2	256	0
2	100.792	38.8	10.3	8.1	27.8	29.4	43.5	14.1	304	225
3	216.298	29.5	17.2	9.4	27.2	28.9	46.0	17.1	156	8
4	239.979	44.1	17.3	9.6	27.1	43.9	46.0	2.1	136	118
5	359.991	42.4	16.6	10.5	27.5	42.0	46.0	4.0	100	62
6	479.989	37.8	18.5	11.1	28.3	39.1	46.0	6.9	191	72
7	719.990	32.5	20.9	12.4	28.6	37.2	46.0	8.8	112	246
----- Vertical ------										
8	72.436	46.6	6.8	7.5	27.9	33.0	40.0	7.0	164	247
9	100.792	39.1	10.3	8.1	27.8	29.7	43.5	13.8	133	353
10	208.889	29.8	17.2	9.3	27.3	29.0	43.5	14.5	228	172
11	239.988	33.2	17.3	9.6	27.1	33.0	46.0	13.0	145	18
12	359.981	37.5	16.6	10.5	27.5	37.1	46.0	8.9	138	220
13	479.984	37.2	18.5	11.1	28.3	38.5	46.0	7.5	100	149
14	719.988	31.9	20.9	12.4	28.6	36.6	46.0	9.4	100	18

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - AMP.GAIN Page:

Radiated Spurious Emission(DSSS and other forms of modulation)

(11a, Tx. High Band Ch.: Low)

DATA OF RADIATED EMISSION TEST

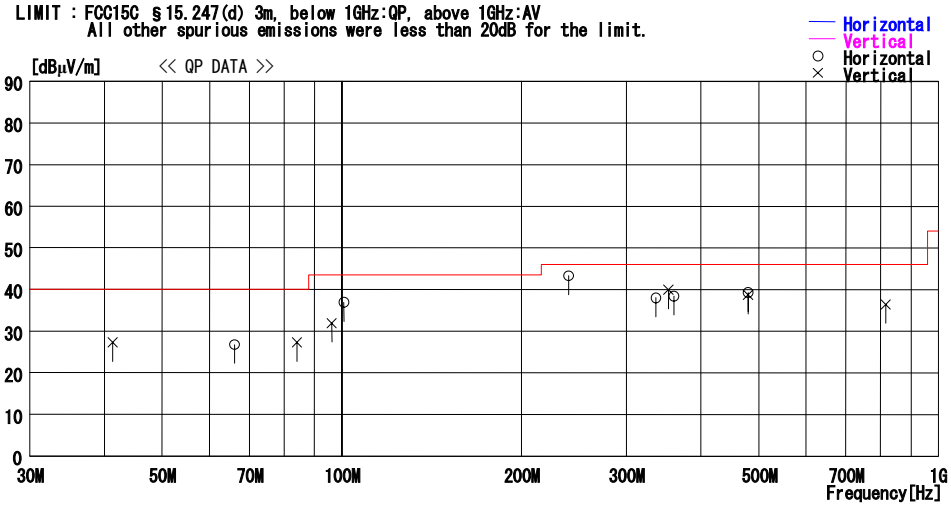
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2005/06/03 22:29:08

Applicant : Fujitsu Limited
Kind of EUT : Personal Computer
Model No. : P1510
Serial No. : R5100030

Report No. : 25LE0207-HO
Power : AC120V/60Hz (AC Adaptor)
Temp./Humi. : 25.6deg.C / 63%
Operator : Mitsuru Fujimura

Mode / Remarks : 11a 5745MHz 24Mbps/Main Antenna/Hor Y Ver X(MAXAxis)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



No.	FREQ [MHz]	READING QP [dBμV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBμV/m]	LIMIT [dBμV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
——— Horizontal ———										
1	66.074	40.9	7.4	6.3	27.8	26.8	40.0	13.2	364	-1
2	100.807	47.3	10.5	6.7	27.6	36.9	43.5	6.6	296	269
3	240.008	45.5	17.1	7.6	26.9	43.3	46.0	2.7	144	289
4	336.008	40.8	16.2	8.0	27.0	38.0	46.0	8.0	100	228
5	360.010	40.4	17.1	8.1	27.2	38.4	46.0	7.6	100	223
6	480.010	40.0	18.8	8.5	28.0	39.3	46.0	6.7	191	133
——— Vertical ———										
7	41.330	35.8	13.2	6.1	27.8	27.3	40.0	12.7	100	185
8	84.104	41.1	7.4	6.5	27.7	27.3	40.0	12.7	100	320
9	96.119	43.2	9.7	6.6	27.6	31.9	43.5	11.6	110	334
10	352.809	42.1	16.8	8.1	27.1	39.9	46.0	6.1	135	192
11	480.012	39.4	18.8	8.5	28.0	38.7	46.0	7.3	100	219
12	816.015	32.4	22.0	9.9	27.9	36.4	46.0	9.6	100	191

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - AMP.GAIN Page:

Radiated Spurious Emission(DSSS and other forms of modulation)

(11a, Tx. High Band Ch.: Mid)

DATA OF RADIATED EMISSION TEST

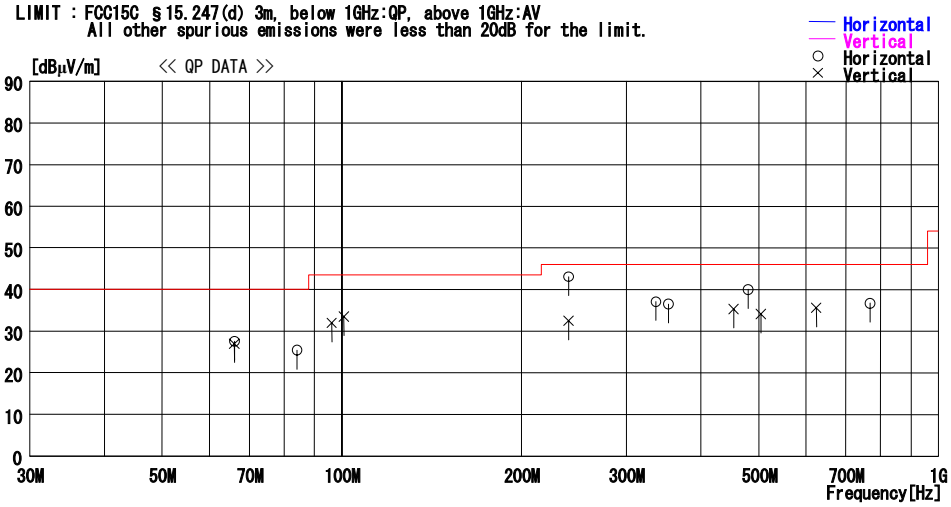
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2005/06/04 00:03:29

Applicant : Fujitsu Limited
Kind of EUT : Personal Computer
Model No. : P1510
Serial No. : R5100030

Report No. : 25LE0207-HO
Power : AC120V/60Hz (AC Adaptor)
Temp./Humi. : 25.6deg.C / 63%
Operator : Mitsuru Fujimura

Mode / Remarks : 11a 5785MHz 24Mbps/Main Antenna/Hor Y Ver X(MAXAxis)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



No.	FREQ [MHz]	READING QP [dBμV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBμV/m]	LIMIT [dBμV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
——— Horizontal ———										
1	66.068	41.7	7.4	6.3	27.8	27.6	40.0	12.4	380	360
2	84.104	39.2	7.4	6.5	27.7	25.4	40.0	14.6	200	46
3	240.012	45.3	17.1	7.6	26.9	43.1	46.0	2.9	141	279
4	336.013	39.9	16.2	8.0	27.0	37.1	46.0	8.9	100	222
5	352.812	38.7	16.8	8.1	27.1	36.5	46.0	9.5	100	131
6	480.013	40.7	18.8	8.5	28.0	40.0	46.0	6.0	180	138
7	768.015	33.6	21.5	9.7	28.1	36.7	46.0	9.3	100	113
——— Vertical ———										
8	66.036	41.1	7.4	6.3	27.8	27.0	40.0	13.0	100	161
9	96.110	43.3	9.7	6.6	27.6	32.0	43.5	11.5	100	360
10	100.806	43.9	10.5	6.7	27.6	33.5	43.5	10.0	100	1
11	240.010	34.7	17.1	7.6	26.9	32.5	46.0	13.5	158	274
12	453.603	35.8	18.8	8.6	27.9	35.3	46.0	10.7	100	288
13	504.012	34.6	18.9	8.8	28.2	34.1	46.0	11.9	100	158
14	624.013	34.5	19.9	9.4	28.2	35.6	46.0	10.4	100	179

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - AMP.GAIN Page:

Radiated Spurious Emission(DSSS and other forms of modulation)

(11a, Tx. High Band Ch.: High)

DATA OF RADIATED EMISSION TEST

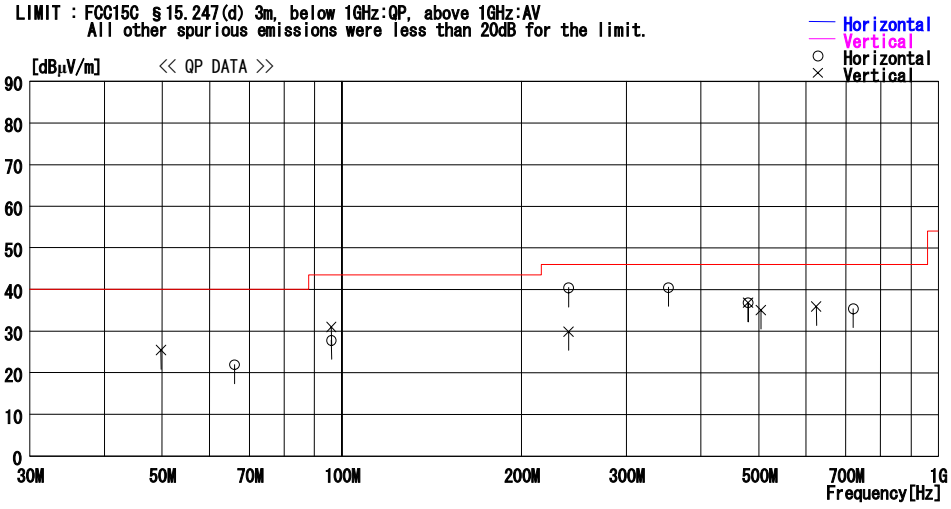
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2005/06/04 01:45:50

Applicant : Fujitsu Limited
Kind of EUT : Personal Computer
Model No. : P1510
Serial No. : R5100030

Report No. : 25LE0207-HO
Power : AC120V/60Hz (AC Adaptor)
Temp./Humi. : 25.6deg.C / 63%
Operator : Mitsuru Fujimura

Mode / Remarks : 11a 5825MHz 24Mbps/Main Antenna/Hor Y Ver X(MAXAxis)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



No.	FREQ [MHz]	READING QP [dBμV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBμV/m]	LIMIT [dBμV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
——— Horizontal ———										
1	66.071	36.0	7.4	6.3	27.8	21.9	40.0	18.1	258	223
2	96.050	39.1	9.7	6.6	27.6	27.8	43.5	15.7	334	267
3	240.010	42.6	17.1	7.6	26.9	40.4	46.0	5.6	134	315
4	352.812	42.7	16.8	8.1	27.1	40.5	46.0	5.5	105	261
5	480.012	37.5	18.8	8.5	28.0	36.8	46.0	9.2	222	126
6	720.012	33.1	20.8	9.7	28.2	35.4	46.0	10.6	113	246
——— Vertical ———										
7	49.764	36.7	10.2	6.2	27.7	25.4	40.0	14.6	152	270
8	96.107	42.3	9.7	6.6	27.6	31.0	43.5	12.5	141	1
9	240.006	32.1	17.1	7.6	26.9	29.9	46.0	16.1	152	270
10	480.013	37.5	18.8	8.5	28.0	36.8	46.0	9.2	100	360
11	504.009	35.6	18.9	8.8	28.2	35.1	46.0	10.9	100	166
12	624.010	34.8	19.9	9.4	28.2	35.9	46.0	10.1	100	183

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - AMP.GAIN Page:

Radiated Spurious Emission(DSSS and other forms of modulation)

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Fujitsu Limited	REPORT NO	: 25LE0207-HO	
Equipment	: Personal Computer	REGULATION	: Fcc Part15 Subpart C 15.247(d)	
Model	: P1510	TEST DISTANCE	: 3m (below 10GHz) / 1m (above 10GHz)	
Sample No.	: R5100030	DATE	: 04/14/2005	04/23/2005
Power	: AC120V/60Hz	TEMPERATURE	: 21deg.C	21deg.C
Mode	: W-LAN IEEE802.11b, Tx 2412MHz, 11M	HUMIDITY	: 37%	34%
Remarks	: EUT-Max axis Hor : Y-axis, Ver : X axis	ENGINEER	: Mitsuru Fujimura	Kenichi Adachi
	: Main Antenna			

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1663.7	56.1	53.8	26.3	39.5	4.7	0.0	47.6	45.3	74.0	26.4	28.7
2	2312.0	50.7	49.9	30.4	39.8	5.5	0.0	46.8	46.0	74.0	27.2	28.0
3*	2400.0	75.0	66.9	30.5	39.9	5.7	0.0	71.3	63.2	74.0	2.7	10.8
4	4824.0	46.5	46.9	35.2	41.2	8.3	1.0	49.8	50.2	74.0	24.2	23.8
5*	6432.0	52.6	50.9	36.6	41.2	9.4	0.9	58.3	56.6	74.0	15.7	17.4
6	7235.9	44.4	44.7	37.7	40.4	10.1	0.4	52.2	52.5	74.0	21.8	21.5
7	9648.0	42.5	42.5	37.0	39.5	12.3	0.2	52.5	52.5	74.0	21.5	21.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	12060.0	42.5	42.7	41.6	36.1	14.3	0.0	52.8	53.0	74.0	21.2	21.0
9	14472.0	41.9	42.0	41.8	34.6	15.2	0.0	54.8	54.9	74.0	19.2	19.1
10	16884.0	44.7	43.4	45.2	35.0	16.6	0.0	62.0	60.7	74.0	12.0	13.3
11	19296.0	43.4	43.9	41.6	34.1	18.6	0.0	60.0	60.5	74.0	14.0	13.5
12	21708.0	43.9	44.0	40.4	34.7	19.4	0.0	59.5	59.6	74.0	14.5	14.5
13	24120.0	44.7	44.5	41.0	35.6	21.6	0.0	62.2	62.0	74.0	11.8	12.0

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1663.7	44.1	41.4	26.3	39.5	4.7	0.0	35.6	32.9	54.0	18.4	21.1
2	2312.0	39.9	39.2	30.4	39.8	5.5	0.0	36.0	35.3	54.0	18.1	18.8
3*	2400.0	69.4	67.7	30.5	39.9	5.7	0.0	65.7	64.0	54.0	-	-
4	4824.0	33.9	33.7	35.2	41.2	8.3	1.0	37.2	37.0	54.0	16.8	17.0
5*	6432.0	49.9	44.6	36.6	41.2	9.4	0.9	55.6	50.3	54.0	-	-
6	7235.9	31.9	31.9	37.7	40.4	10.1	0.4	39.7	39.7	54.0	14.3	14.3
7	9648.0	30.5	30.9	37.0	39.5	12.3	0.2	40.5	40.9	54.0	13.5	13.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	12060.0	31.1	31.1	41.6	36.1	14.3	0.0	41.4	41.4	54.0	12.6	12.6
9	14472.0	29.9	30.1	41.8	34.6	15.2	0.0	42.8	43.0	54.0	11.2	11.0
10	16884.0	32.3	32.3	45.2	35.0	16.6	0.0	49.6	49.6	54.0	4.4	4.4
11	19296.0	31.2	31.2	41.6	34.1	18.6	0.0	47.8	47.8	54.0	6.2	6.2
12	21708.0	31.7	31.7	40.4	34.7	19.4	0.0	47.3	47.3	54.0	6.7	6.7
13	24120.0	32.6	32.6	41.0	35.6	21.6	0.0	50.1	50.1	54.0	3.9	3.9

* Reference data

20dBc(Fundamental 2402MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	20dBc	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2412.0	102.9	102.6	30.5	39.9	5.7	0.0	99.2	98.9	-	-	-
3	2400.0	68.7	66.9	30.5	39.9	5.7	0.0	65.0	63.2	Funda-20dB	14.2	15.7
5	6432.0	51.5	49.8	36.6	41.2	9.4	0.0	56.3	54.6	Funda-20dB	22.9	24.3

Test Distance(above 10GHz) 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.
*Band-Pass Fiter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission(DSSS and other forms of modulation)

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Fujitsu Limited	REPORT NO	: 25LE02075-HO	
Equipment	: Personal Computer	REGULATION	: Fcc Part15 Subpart C 15.247(d)	
Model	: P1510	TEST DISTANCE	: 3(below 10GHz) /1m (above 10GHz)	
Sample No.	: R5100030	DATE	: 04/14/2005	04/23/2005
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 21deg.C	21deg.C
Mode	: W-LAN IEEE802.11b, Tx 2437MHz, 11M	HUMIDITY	: 37%	34%
Remarks	: EUT-Max axis Hor : Y-axis, Ver : X axis	ENGINEER	: Mitsuru Fujimura	Kenichi Adachi
	: Main Antenna			

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1663.7	58.9	53.4	26.3	39.5	4.7	0.0	50.4	44.9	74.0	23.6	29.1
2	2335.9	51.9	52.1	30.4	39.8	5.7	0.0	48.2	48.4	74.0	25.8	25.6
3	4874.0	46.5	46.2	35.5	41.2	8.4	1.0	50.2	49.9	74.0	23.8	24.1
4*	6498.7	54.2	50.1	36.5	41.2	9.5	1.0	60.0	55.9	74.0	14.0	18.1
5	7311.0	44.3	45.1	37.9	40.4	10.2	0.5	52.5	53.3	74.0	21.5	20.7
6	9748.0	42.9	42.5	36.9	39.5	12.4	0.2	52.9	52.5	74.0	21.1	21.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12185.0	43.1	42.7	41.6	36.0	14.4	0.0	53.6	53.2	74.0	20.4	20.8
8	14622.0	42.1	43.0	42.1	35.1	15.3	0.0	54.9	55.8	74.0	19.1	18.2
9	17059.0	44.4	44.4	45.3	34.9	16.6	0.0	61.9	61.9	74.0	12.1	12.1
10	19496.0	44.4	43.6	41.4	34.3	18.9	0.0	60.9	60.1	74.0	13.1	13.9
11	21933.0	44.9	44.2	40.5	34.2	19.3	0.0	61.0	60.3	74.0	13.0	13.7
12	24370.0	44.0	44.1	41.1	35.7	21.6	0.0	61.5	61.6	74.0	12.5	12.4

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1663.7	44.6	41.6	26.3	39.5	4.7	0.0	36.1	33.1	54.0	17.9	20.9
2	2335.9	44.2	46.4	30.4	39.8	5.7	0.0	40.5	42.7	54.0	13.5	11.3
3	4874.0	32.8	31.7	35.5	41.2	8.4	1.0	36.5	35.4	54.0	17.5	18.6
4*	6498.7	51.2	44.2	36.5	41.2	9.5	1.0	57.0	50.0	54.0	-	-
5	7311.0	31.7	32.0	37.9	40.4	10.2	0.5	39.9	40.2	54.0	14.1	13.8
6	9748.0	30.7	30.7	36.9	39.5	12.4	0.2	40.7	40.7	54.0	13.4	13.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12185.0	31.3	30.9	41.6	36.0	14.4	0.0	41.8	41.4	54.0	12.2	12.7
8	14622.0	30.3	30.1	42.1	35.1	15.3	0.0	43.1	42.9	54.0	10.9	11.1
9	17059.0	32.5	32.5	45.3	34.9	16.6	0.0	50.0	50.0	54.0	4.0	4.0
10	19496.0	31.4	31.4	41.4	34.3	18.9	0.0	47.9	47.9	54.0	6.1	6.1
11	21933.0	32.2	32.2	40.5	34.2	19.3	0.0	48.3	48.3	54.0	5.7	5.7
12	24370.0	31.7	31.7	41.1	35.7	21.6	0.0	49.2	49.2	54.0	4.8	4.8

* Reference data

20dBc(Fundamental 2402MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	20dBc	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2437.0	102.4	100.7	30.5	39.9	5.7	0.0	98.7	97.0	-	-	-
4	6498.7	53.1	48.6	36.6	41.2	9.4	0.0	57.9	53.4	Funda-20dB	20.8	23.6

Test Distance(above 10GHz) 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.
*Band-Pass Fiter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission(DSSS and other forms of modulation)

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Fujitsu Limited	REPORT NO	: 25LE0207-HO	
Equipment	: Personal Computer	REGULATION	: Fcc Part15 Subpart C 15.247(d)	
Model	: P1510	TEST DISTANCE	: 3m (below 10GHz) /1m (above 10GHz)	
Sample No.	: R5100030	DATE	: 04/14/2005	04/23/2005
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 21deg.C	21deg.C
Mode	: W-LAN IEEE802.11b, Tx 2462MHz, 11M	HUMIDITY	: 37%	34%
Remarks	: EUT-Max axis Hor : Y-axis, Ver : X axis	ENGINEER	: Mitsuru Fujimura	Kenichi Adachi
	: Main Antenna			

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1663.3	59.6	52.5	26.3	39.5	4.7	0.0	51.1	44.0	74.0	22.9	30.0
2	2484.3	52.7	51.6	30.5	40.1	5.8	0.0	48.9	47.8	74.0	25.1	26.2
3	4924.1	46.7	46.2	35.8	41.3	8.4	1.0	50.6	50.1	74.0	23.4	23.9
4*	6565.3	54.3	49.9	36.6	41.1	9.4	1.0	60.2	55.8	74.0	13.8	18.2
5	7386.0	44.4	44.4	38.0	40.3	10.7	0.1	52.9	52.9	74.0	21.1	21.1
6	9848.0	42.6	43.2	36.8	39.6	12.6	0.1	52.5	53.1	74.0	21.5	20.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12310.0	42.7	41.9	41.7	35.9	14.4	0.0	53.4	52.6	74.0	20.6	21.4
8	14772.0	42.6	42.0	42.4	35.6	15.5	0.0	55.4	54.8	74.0	18.6	19.2
9	17234.0	45.2	45.0	44.9	35.0	16.7	0.0	62.3	62.1	74.0	11.7	11.9
10	19696.0	43.8	44.2	41.2	34.6	19.1	0.0	60.0	60.4	74.0	14.0	13.7
11	22158.0	44.3	44.5	40.5	34.1	19.5	0.0	60.7	60.9	74.0	13.3	13.1
12	24620.0	44.0	44.0	41.1	35.5	21.6	0.0	61.7	61.7	74.0	12.3	12.3

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1663.3	41.0	44.5	26.3	39.5	4.7	0.0	32.5	36.0	54.0	21.5	18.0
2	2484.3	38.2	37.2	30.5	40.1	5.8	0.0	34.4	33.4	54.0	19.6	20.6
3	4924.1	33.8	33.8	35.8	41.3	8.4	1.0	37.7	37.7	54.0	16.3	16.3
4*	6565.3	51.3	44.5	36.6	41.1	9.4	1.0	57.2	50.4	54.0	-	-
5	7386.0	31.8	31.7	38.0	40.3	10.7	0.1	40.3	40.2	54.0	13.7	13.8
6	9848.0	30.6	30.5	36.8	39.6	12.6	0.1	40.5	40.4	54.0	13.5	13.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12310.0	32.1	30.9	41.7	35.9	14.4	0.0	42.8	41.6	54.0	11.2	12.4
8	14772.0	30.3	30.4	42.4	35.6	15.5	0.0	43.1	43.2	54.0	10.9	10.8
9	17234.0	32.5	32.5	44.9	35.0	16.7	0.0	49.6	49.6	54.0	4.4	4.4
10	19696.0	31.4	31.4	41.2	34.6	19.1	0.0	47.6	47.6	54.0	6.4	6.4
11	22158.0	32.2	32.2	40.5	34.1	19.5	0.0	48.6	48.6	54.0	5.4	5.4
12	24620.0	31.4	31.4	41.1	35.5	21.6	0.0	49.1	49.1	54.0	4.9	4.9

* Reference data

20dBc(Fundamental 2462MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	20dBc	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2462.1	101.0	100.1	30.5	40.0	5.6	0.0	97.1	96.2	-	-	-
4	6565.3	53.2	48.6	30.5	36.4	5.8	0.0	53.1	48.5	Funda-20dB	24.0	27.7

Test Distance (above10GHz) 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission(DSSS and other forms of modulation)

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Fujitsu Limited	REPORT NO	: 25LE0207-HO	
Equipment	: Personal Computer	REGULATION	: Fcc Part15 Subpart C 15.247(d)	
Model	: P1510	TEST DISTANCE	: 3m (below 10GHz) /1m (above 10GHz)	
Sample No.	: R5100030	DATE	: 04/14/2005	04/23/2005
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 21deg.C	21deg.C
Mode	: W-LAN IEEE802.11g, Tx 2412MHz, 54M	HUMIDITY	: 37%	34%
Remarks	: EUT-Max axis Hor : Y-axis, Ver : X axis	ENGINEER	: Mitsuru Fujimura	Kenichi Adachi
	: Main Antenna			

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1663.4	52.9	51.6	26.3	39.5	4.7	0.0	44.4	43.1	74.0	29.6	30.9
2	2312.0	54.3	53.3	30.4	39.8	5.5	0.0	50.4	49.4	74.0	23.6	24.6
3*	2400.0	80.6	79.5	30.5	39.9	5.7	0.0	76.9	75.8	74.0	-	-
4	4824.0	46.7	47.3	35.2	41.2	8.3	1.0	50.0	50.6	74.0	24.0	23.4
5*	6432.1	52.0	50.1	36.6	41.2	9.4	0.9	57.7	55.8	74.0	16.3	18.2
6	7235.9	44.5	44.6	37.7	40.4	10.1	0.4	52.3	52.4	74.0	21.7	21.6
7	9648.0	42.4	42.5	37.0	39.5	12.3	0.2	52.4	52.5	74.0	21.6	21.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	12060.0	42.9	43.1	41.6	36.1	14.3	0.0	53.2	53.4	74.0	20.8	20.6
9	14472.0	41.7	42.4	41.8	34.6	15.2	0.0	54.6	55.3	74.0	19.4	18.7
10	16884.0	43.7	44.1	45.2	35.0	16.6	0.0	61.0	61.4	74.0	13.0	12.6
11	19296.0	43.6	44.3	41.6	34.1	18.6	0.0	60.2	60.9	74.0	13.8	13.1
12	21708.0	44.1	44.5	40.4	34.7	19.4	0.0	59.7	60.1	74.0	14.3	13.9
13	24120.0	45.1	44.8	41.0	35.6	21.6	0.0	62.6	62.3	74.0	11.4	11.7

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1663.4	44.5	39.0	26.3	39.5	4.7	0.0	36.0	30.5	54.0	18.0	23.5
2	2312.0	48.6	46.8	30.4	39.8	5.5	0.0	44.7	42.9	54.0	9.3	11.1
3*	2400.0	71.4	70.3	30.5	39.9	5.7	0.0	67.7	66.6	54.0	-	-
4	4824.0	33.8	34.1	35.2	41.2	8.3	1.0	37.1	37.4	54.0	16.9	16.6
5*	6432.1	49.0	43.4	36.6	41.2	9.4	0.9	54.7	49.1	54.0	-	-
6	7235.9	31.9	31.7	37.7	40.4	10.1	0.4	39.7	39.5	54.0	14.3	14.5
7	9648.0	30.6	30.7	37.0	39.5	12.3	0.2	40.6	40.7	54.0	13.4	13.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	12060.0	31.2	31.1	41.6	36.1	14.3	0.0	41.5	41.4	54.0	12.5	12.6
9	14472.0	30.1	30.0	41.8	34.6	15.2	0.0	43.0	42.9	54.0	11.0	11.1
10	16884.0	32.2	32.3	45.2	35.0	16.6	0.0	49.5	49.6	54.0	4.5	4.4
11	19296.0	31.2	31.2	41.6	34.1	18.6	0.0	47.8	47.8	54.0	6.2	6.2
12	21708.0	31.7	31.7	40.4	34.7	19.4	0.0	47.3	47.3	54.0	6.7	6.7
13	24120.0	32.6	32.6	41.0	35.6	21.6	0.0	50.1	50.1	54.0	3.9	3.9

* Reference data

20dBc(Fundamental 2402MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	20dBc	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2409.0	97.6	97.4	30.5	39.9	5.7	0.0	93.9	93.7	-	-	-
3	2400.0	66.3	65.3	30.5	39.9	5.7	0.0	62.6	61.6	Funda-20dB	11.3	12.1
5	6432.1	50.4	48.5	36.6	41.2	9.4	0.0	55.2	53.3	Funda-20dB	18.7	20.4

Test Distance(above 10GHz) 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.
*Band-Pass Fiter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission(DSSS and other forms of modulation)

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Fujitsu Limited	REPORT NO	: 25LE0207-HO	
Equipment	: Personal Computer	REGULATION	: Fcc Part15 Subpart C 15.247(d)	
Model	: P1510	TEST DISTANCE	: 3/1m	
Sample No.	: R5100030	DATE	: 04/14/2005	04/23/2005
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 21deg.C	21deg.C
Mode	: W-LAN IEEE802.11g, Tx 2437MHz, 54M	HUMIDITY	: 37%	34%
Remarks	: EUT-Max axis Hor : Y-axis, Ver : X axis	ENGINEER	: Mitsuru Fujimura	Kenichi Adachi
	: Main Antenna			

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1662.9	59.0	51.6	26.3	39.5	4.7	0.0	50.5	43.1	74.0	23.5	30.9
2	2335.9	55.1	52.9	30.4	39.8	5.7	0.0	51.4	49.2	74.0	22.6	24.8
3	4874.0	46.8	46.5	35.5	41.2	8.4	1.0	50.5	50.2	74.0	23.5	23.8
4*	6498.7	54.0	50.1	36.5	41.2	9.5	1.0	59.8	55.9	74.0	14.2	18.1
5	7311.0	44.2	45.0	37.9	40.4	10.2	0.5	52.4	53.2	74.0	21.6	20.8
6	9747.9	43.5	42.4	36.9	39.5	12.4	0.2	53.5	52.4	74.0	20.5	21.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12185.0	42.7	43.2	41.6	36.0	14.4	0.0	53.2	53.7	74.0	20.8	20.3
8	14622.0	41.7	43.0	42.1	35.1	15.3	0.0	54.5	55.8	74.0	19.5	18.2
9	17059.0	44.4	44.9	45.3	34.9	16.6	0.0	61.9	62.4	74.0	12.1	11.6
10	19496.0	44.1	44.1	41.4	34.3	18.9	0.0	60.6	60.6	74.0	13.4	13.4
11	21933.0	44.5	45.5	40.5	34.2	19.3	0.0	60.6	61.6	74.0	13.4	12.4
12	24370.0	44.0	44.5	41.1	35.7	21.6	0.0	61.5	62.0	74.0	12.5	12.0

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1662.9	44.6	37.7	26.3	39.5	4.7	0.0	36.1	29.2	54.0	17.9	24.9
2	2335.9	50.2	47.5	30.4	39.8	5.7	0.0	46.5	43.8	54.0	7.5	10.2
3	4874.0	33.8	33.7	35.5	41.2	8.4	1.0	37.5	37.4	54.0	16.6	16.6
4*	6498.7	51.0	43.9	36.5	41.2	9.5	1.0	56.8	49.7	54.0	-	-
5	7311.0	31.8	31.7	37.9	40.4	10.2	0.5	40.0	39.9	54.0	14.0	14.1
6	9747.9	30.6	30.7	36.9	39.5	12.4	0.2	40.6	40.7	54.0	13.4	13.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12185.0	30.9	30.9	41.6	36.0	14.4	0.0	41.4	41.4	54.0	12.6	12.6
8	14622.0	30.1	30.3	42.1	35.1	15.3	0.0	42.9	43.1	54.0	11.1	10.9
9	17059.0	32.5	32.4	45.3	34.9	16.6	0.0	50.0	49.9	54.0	4.0	4.1
10	19496.0	31.4	31.4	41.4	34.3	18.9	0.0	47.9	47.9	54.0	6.1	6.1
11	21933.0	32.2	32.2	40.5	34.2	19.3	0.0	48.3	48.3	54.0	5.7	5.7
12	24370.0	31.7	31.7	41.1	35.7	21.6	0.0	49.2	49.2	54.0	4.8	4.8

* Reference data

20dBc(Fundamental 2402MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	20dBc	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2434.2	98.3	96.9	30.5	39.9	5.7	0.0	94.6	93.2	-	-	-
4	6498.7	52.6	48.5	36.6	41.2	9.4	0.0	57.4	53.3	Funda-20dB	17.2	19.9

Test Distance(above 10GHz) 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.
*Band-Pass Fiter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission(DSSS and other forms of modulation)

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Fujitsu Limited	REPORT NO	: 25LE0207-HO	
Equipment	: Personal Computer	REGULATION	: Fcc Part15 Subpart C 15.247(d)	
Model	: P1510	TEST DISTANCE	: 3m (below 10GHz) /1m (above 10GHz)	
Sample No.	: R5100030	DATE	: 04/14/2005	04/23/2005
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 21deg.C	21deg.C
Mode	: W-LAN IEEE802.11g, Tx 2462MHz, 54M	HUMIDITY	: 37%	34%
Remarks	: EUT-Max axis Hor : Y-axis, Ver : X axis	ENGINEER	: Mitsuru Fujimura	Kenichi Adachi
	: Main Antenna			

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1662.9	59.2	48.3	26.3	39.5	4.7	0.0	50.7	39.8	74.0	23.3	34.2
2	2483.5	59.5	55.0	30.5	40.1	5.8	0.0	55.7	51.2	74.0	18.3	22.8
3	4924.1	46.6	47.4	35.8	41.3	8.4	1.0	50.5	51.3	74.0	23.5	22.7
4*	6565.3	53.9	49.5	36.6	41.1	9.4	1.0	59.8	55.4	74.0	14.2	18.6
5	7385.5	44.4	44.5	38.0	40.3	10.7	0.1	52.9	53.0	74.0	21.1	21.0
6	9848.0	43.6	42.7	36.8	39.6	12.6	0.1	53.5	52.6	74.0	20.5	21.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12310.0	44.0	42.3	41.7	35.9	14.4	0.0	54.7	53.0	74.0	19.3	21.0
8	14772.0	42.4	42.3	42.4	35.6	15.5	0.0	55.2	55.1	74.0	18.8	18.9
9	17234.0	44.6	44.7	44.9	35.0	16.7	0.0	61.7	61.8	74.0	12.3	12.2
10	19696.0	44.0	44.5	41.2	34.6	19.1	0.0	60.2	60.7	74.0	13.9	13.3
11	22158.0	44.5	44.7	40.5	34.1	19.5	0.0	60.9	61.1	74.0	13.1	12.9
12	24620.0	43.5	43.8	41.1	35.5	21.6	0.0	61.2	61.5	74.0	12.8	12.5

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1662.9	44.6	37.4	26.3	39.5	4.7	0.0	36.1	28.9	54.0	17.9	25.1
2	2483.5	42.8	43.3	30.5	40.1	5.8	0.0	39.0	39.5	54.0	15.0	14.5
3	4924.1	33.8	34.0	35.8	41.3	8.4	1.0	37.7	37.9	54.0	16.3	16.1
4*	6565.3	51.0	42.1	36.6	41.1	9.4	1.0	56.9	48.0	54.0	-	-
5	7385.5	31.7	31.8	38.0	40.3	10.7	0.1	40.2	40.3	54.0	13.8	13.7
6	9848.0	30.5	30.6	36.8	39.6	12.6	0.1	40.4	40.5	54.0	13.6	13.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12310.0	30.9	30.9	41.7	35.9	14.4	0.0	41.6	41.6	54.0	12.5	12.4
8	14772.0	30.4	30.3	42.4	35.6	15.5	0.0	43.2	43.1	54.0	10.9	10.9
9	17234.0	32.5	32.5	44.9	35.0	16.7	0.0	49.6	49.6	54.0	4.4	4.4
10	19696.0	31.4	31.8	41.2	34.6	19.1	0.0	47.6	48.0	54.0	6.4	6.0
11	22158.0	32.2	32.2	40.5	34.1	19.5	0.0	48.6	48.6	54.0	5.4	5.4
12	24620.0	31.4	31.4	41.1	35.5	21.6	0.0	49.1	49.1	54.0	4.9	4.9

* Reference data

20dBc(Fundamental 2462MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Band-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	20dBc	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2460.2	96.9	95.8	30.5	40.0	5.6	0.0	93.0	91.9	-	-	-
4	6565.3	52.5	48.7	30.5	36.4	5.8	0.0	52.4	48.6	Funda-20dB	20.6	23.3

Test Distance(above 10GHz) 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.
*Band-Pass Fiter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission(DSSS and other forms of modulation)

UL Apex Co., Ltd.
Head Office EMC Lab. No.1/2 Semi Anechoic Chamber

Company	: Fujitsu Limited	REPORT NO	: 25LE0207-HO
Equipment	: Personal Computer	REGULATION	: Fcc Part15 Subpart C 15.247(d)
Model	: P1510	TEST DISTANCE	: 3/1m
Sample No.	: R5100030	DATE	: 04/22/2005 : 05/29/2005 : 05/13/2005 : 05/27/2005
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 25deg.C : 24deg.C : 25deg.C : 23deg.C
Mode	: W-LAN IEEE802.11a, Tx 5745MHz	HUMIDITY	: 31% : 49% : 37% : 53%
Remarks	: Hor Y-axis, Ver X-axis	ENGINEER	: Keiichi Aoki : Mitsuru Fujimura
	:Antenna Main, 24Mbps		

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5425.0	50.7	52.8	35.9	35.8	5.6	0.0	56.4	58.5	74.0	17.6	15.5
2	5725.0	58.2	58.8	36.3	41.6	8.9	0.0	61.8	62.4	74.0	12.2	11.6
Test distance 1/0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
3	11492.3	45.1	44.3	38.9	39.6	13.8	0.0	48.7	47.9	74.0	25.3	26.1
4	17235.0	46.9	47.3	44.9	41.7	16.7	0.0	57.3	57.7	74.0	16.7	16.3
5	22980.0	44.8	44.6	40.2	33.8	8.2	0.0	49.9	49.7	74.0	24.1	24.3
6	28725.0	42.2	42.8	41.3	24.3	0.6	0.0	50.3	50.9	74.0	23.7	23.1
7	34470.0	47.1	48.0	42.2	24.6	-1.3	0.0	53.9	54.8	74.0	20.1	19.2

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5425.0	40.9	42.6	35.9	35.8	5.6	0.0	46.6	48.3	54.0	7.4	5.7
2	5725.0	39.2	41.5	36.3	41.6	8.9	0.0	42.8	45.1	54.0	11.2	8.9
Test distance 1/0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
3	11492.3	32.7	32.7	38.9	39.6	13.8	0.0	36.3	36.3	54.0	17.7	17.7
4	17235.0	32.9	33.0	44.9	41.7	16.7	0.0	43.3	43.4	54.0	10.7	10.6
5	22980.0	31.6	31.6	40.2	33.8	8.2	0.0	36.7	36.7	54.0	17.3	17.3
6	28725.0	30.0	30.1	41.3	24.3	0.6	0.0	38.1	38.2	54.0	15.9	15.8
7	34470.0	37.0	37.3	42.2	24.6	-1.3	0.0	43.8	44.1	54.0	10.2	9.9

*Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Test Distance 0.5m(above 26.5GHz) : Distance Factor(Dfac) = 20log(3/0.5) = 15.6dB
(This factor(Dfac) is subtracted from the cable loss.)
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission(DSSS and other forms of modulation)

UL Apex Co., Ltd.
Head Office EMC Lab. No.1/2 Semi Anechoic Chamber

Company	: Fujitsu Limited	REPORT NO	: 25LE0207-HO		
Equipment	: Personal Computer	REGULATION	: Fcc Part15 Subpart C 15.247(d)		
Model	: P1510	TEST DISTANCE	: 3/1m		
Sample No.	: R5100030	DATE	: 04/22/2005	: 05/29/2005	: 05/27/2005
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 25deg.C	: 24deg.C	: 23deg.C
Mode	: W-LAN IEEE802.11a, Tx 5785MHz	HUMIDITY	: 31%	: 49%	: 53%
Remarks	: Hor Y-axis, Ver X-axis :Antenna Main, 24Mbps	ENGINEER	: Keiichi Aoki		: Mitsuru Fujimura

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5465.0	57.8	61.5	35.8	41.5	8.7	0.0	60.8	64.5	74.0	13.2	9.5
Test distance 1/0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
2	11569.7	45.7	45.5	39.3	39.6	13.9	0.0	49.8	49.6	74.0	24.2	24.4
3	17355.0	45.8	45.9	44.7	41.6	16.9	0.0	56.3	56.4	74.0	17.7	17.6
4	23140.0	45.4	45.4	40.3	33.7	8.1	0.0	50.6	50.6	74.0	23.4	23.4
5	28925.0	41.6	41.9	41.3	24.4	0.7	0.0	49.7	50.0	74.0	24.3	24.0
6	34710.0	48.0	47.2	42.2	24.5	-1.2	0.0	55.0	54.2	74.0	19.0	19.8

*

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5465.0	45.2	48.7	35.8	41.5	8.7	0.0	48.2	51.7	54.0	5.8	2.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
2	11569.7	33.1	33.1	39.3	39.6	13.9	0.0	37.2	37.2	54.0	16.8	16.8
3	17355.0	33.3	33.3	44.7	41.6	16.9	0.0	43.8	43.8	54.0	10.2	10.2
4	23140.0	32.0	32.0	40.3	33.7	8.1	0.0	37.2	37.2	54.0	16.8	16.8
5	28925.0	31.0	30.2	41.3	24.4	0.7	0.0	39.1	38.3	54.0	14.9	15.7
6	34710.0	34.5	35.0	42.2	24.5	-1.2	0.0	41.5	42.0	54.0	12.5	12.0

*Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Test Distance 0.5m(above 26.5GHz) : Distance Factor(Dfac) = 20log(3/0.5) = 15.6dB
(This factor(Dfac) is subtracted from the cable loss.)
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission(DSSS and other forms of modulation)

UL Apex Co., Ltd.
Head Office EMC Lab. No.1/2 Semi Anechoic Chamber

Company	: Fujitsu Limited	REPORT NO	: 25LE0207-HO		
Equipment	: Personal Computer	REGULATION	: Fcc Part15 Subpart C 15.247(d)		
Model	: P1510	TEST DISTANCE	: 3/1m		
Sample No.	: R5100030	DATE	: 04/22/2005	: 05/29/2005	: 05/27/2005
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 25deg.C	: 24deg.C	: 23deg.C
Mode	: W-LAN IEEE802.11a, Tx 5825MHz	HUMIDITY	: 31%	: 49%	: 53%
Remarks	: Hor Y-axis, Ver X-axis :Antenna Main, 24Mbps	ENGINEER	: Keiichi Aoki		: Mitsuru Fujimura

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5350.3	54.9	57.5	35.9	41.4	8.7	0.0	58.1	60.7	74.0	15.9	13.3
2	5850.0	49.8	51.4	36.6	41.6	8.9	0.0	53.7	55.3	74.0	20.3	18.7
Test distance 1/0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
3	11639.5	45.1	44.8	39.7	39.6	14.1	0.0	49.8	49.5	74.0	24.2	24.5
4	17475.0	45.4	45.4	44.5	41.5	16.9	0.0	55.8	55.8	74.0	18.2	18.2
5	23300.0	44.8	44.6	40.4	33.5	8.1	0.0	50.3	50.1	74.0	23.7	23.9
6	29125.0	42.0	41.9	41.3	24.4	0.7	0.0	50.1	50.0	74.0	23.9	24.0
7	34950.0	47.3	47.4	42.1	24.4	-1.2	0.0	54.3	54.4	74.0	19.7	19.6

*

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5350.3	43.9	44.8	35.9	41.4	8.7	0.0	47.1	48.0	54.0	6.9	6.0
2	5850.0	36.6	38.1	36.6	41.6	8.9	0.0	40.5	42.0	54.0	13.5	12.0
Test distance 1/0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
3	11639.5	32.9	32.8	39.7	39.6	14.1	0.0	37.6	37.5	54.0	16.4	16.5
4	17475.0	33.2	33.0	44.5	41.5	16.9	0.0	43.6	43.4	54.0	10.4	10.6
5	23300.0	31.7	31.7	40.4	33.5	8.1	0.0	37.2	37.2	54.0	16.9	16.8
6	29125.0	31.2	31.3	41.3	24.4	0.7	0.0	39.3	39.4	54.0	14.7	14.6
7	34950.0	34.8	34.7	42.1	24.4	-1.2	0.0	41.8	41.7	54.0	12.2	12.3

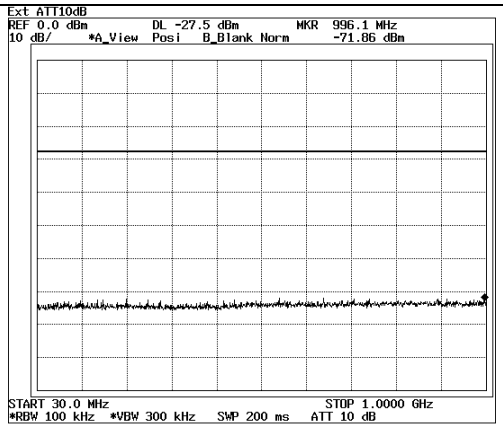
*

*Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Test Distance 0.5m(above 26.5GHz) : Distance Factor(Dfac) = 20log(3/0.5) = 15.6dB
(This factor(Dfac) is subtracted from the cable loss.)
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

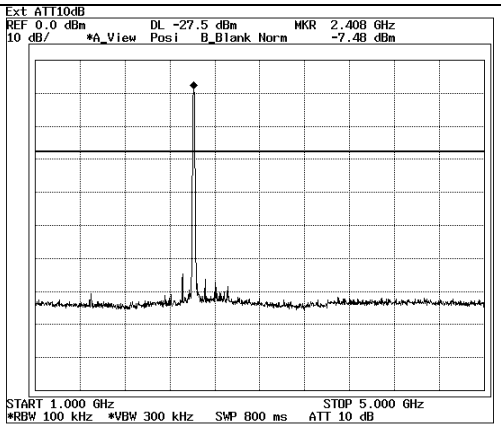
Conducted Spurious Emission(DSSS and other forms of modulation)

IEEE802.11b 11Mbps Antenna: Main Ch : Low

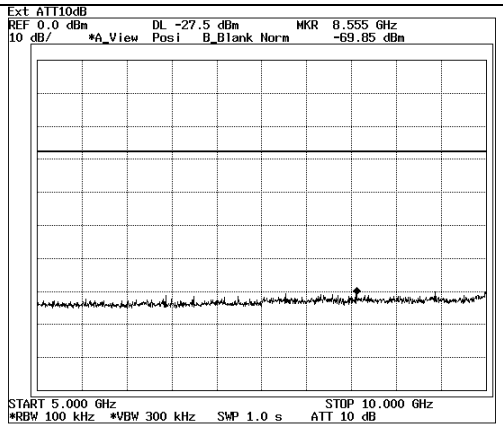
30MHz-1GHz



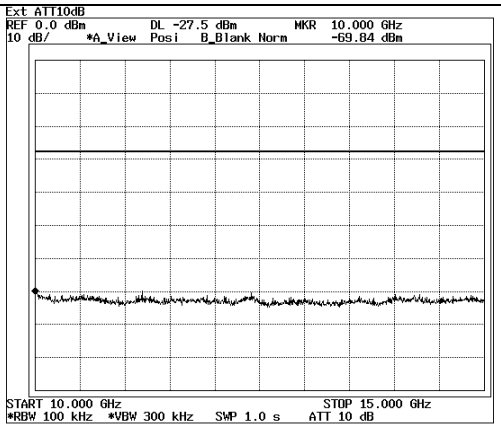
1GHz-5GHz



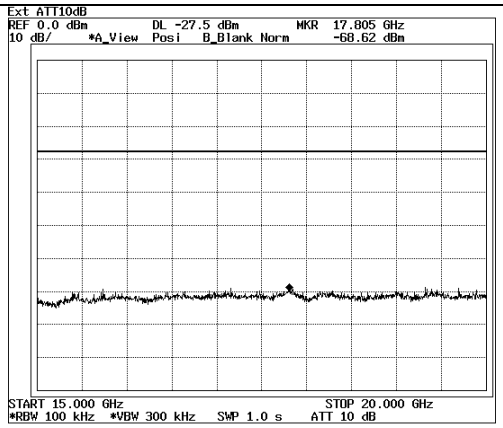
5GHz-10GHz



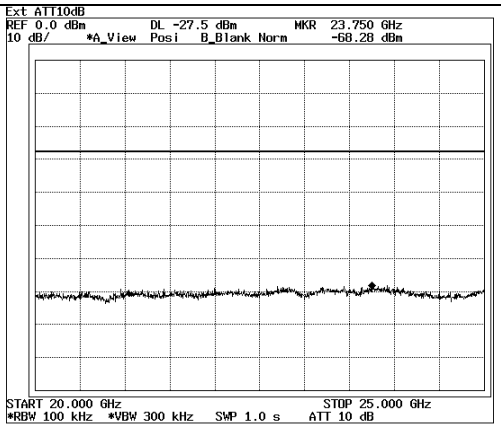
10GHz-15GHz



15GHz-20GHz

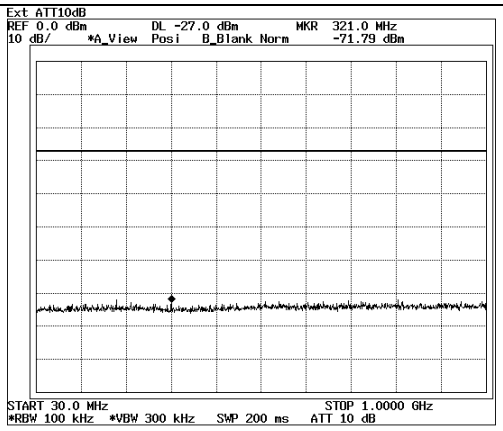


20GHz-25GHz

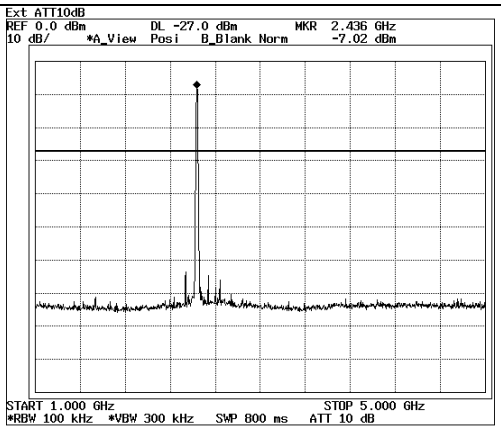


Conducted Spurious Emission(DSSS and other forms of modulation)
IEEE802.11b 11Mbps Antenna: Main Ch : Mid

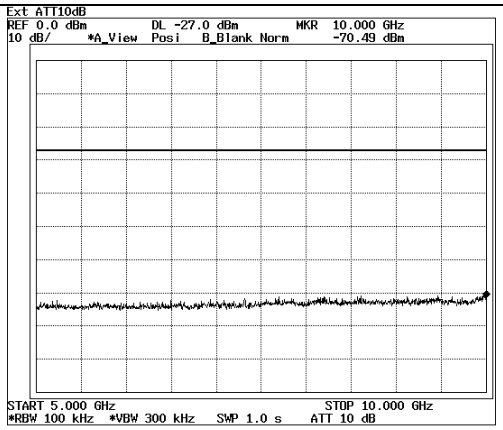
30MHz-1GHz



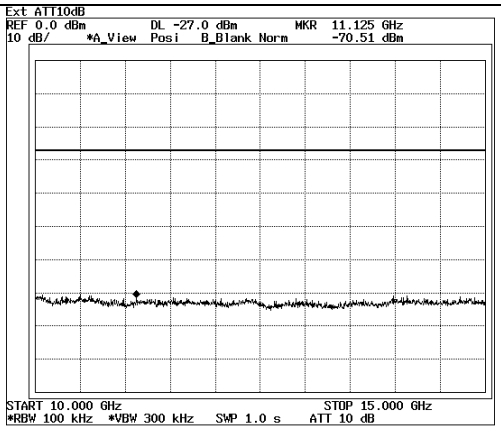
1GHz-5GHz



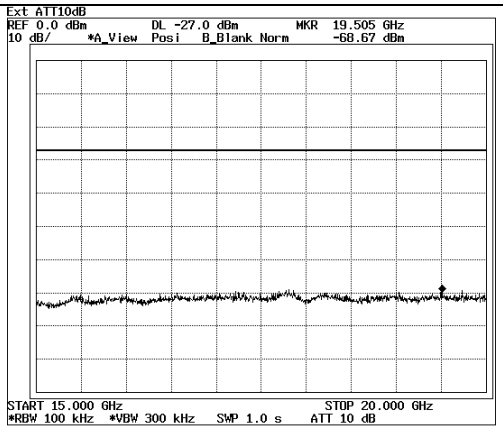
5GHz-10GHz



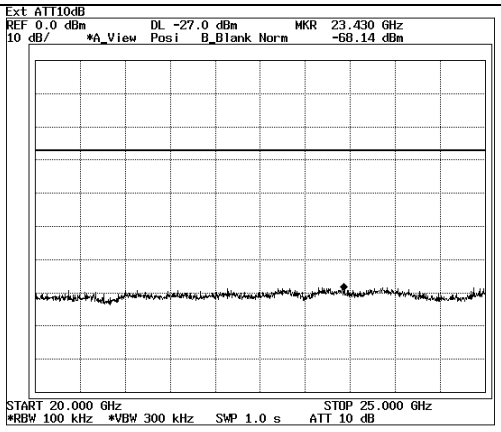
10GHz-15GHz



15GHz-20GHz

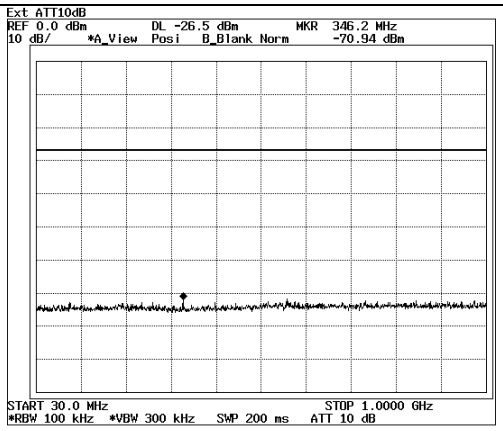


20GHz-25GHz

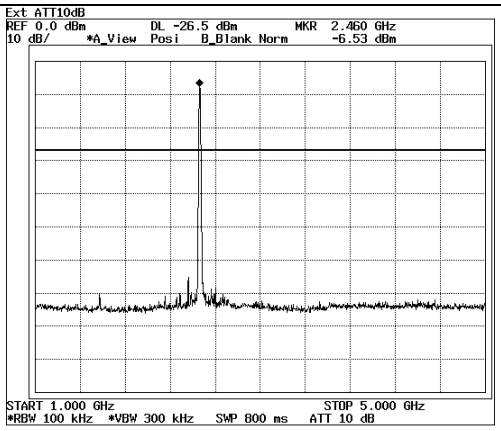


Conducted Spurious Emission(DSSS and other forms of modulation)
IEEE802.11b 11Mbps Antenna: Main Ch : High

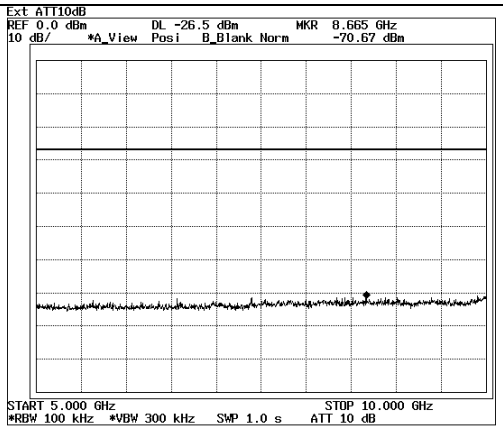
30MHz-1GHz



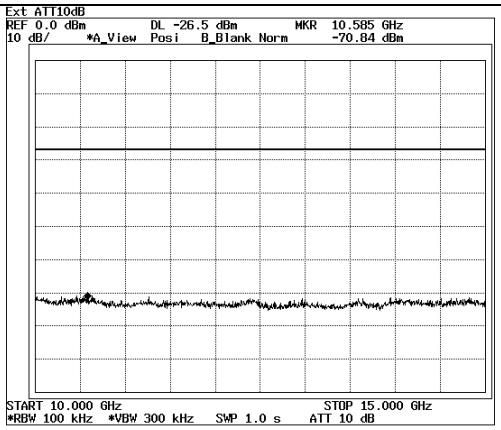
1GHz-5GHz



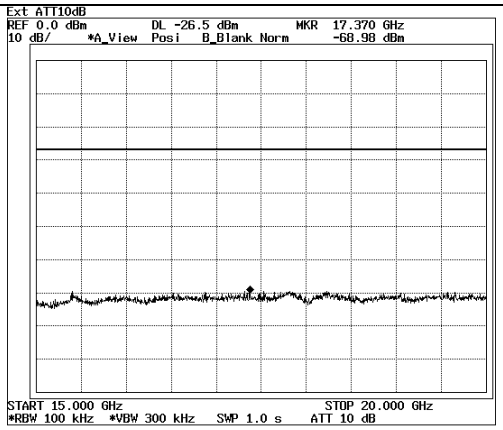
5GHz-10GHz



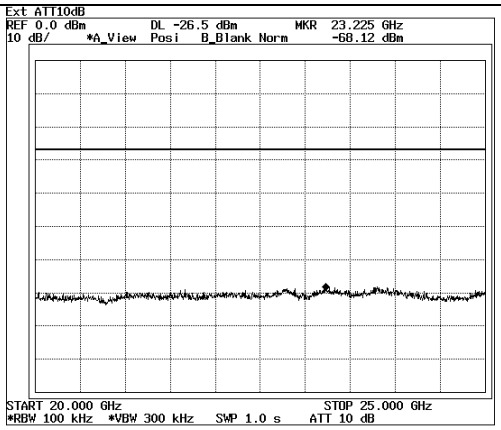
10GHz-15GHz



15GHz-20GHz

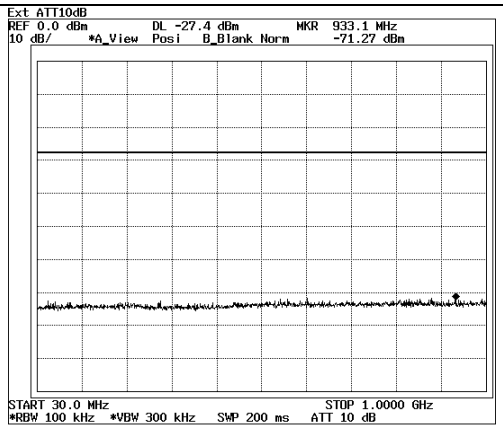


20GHz-25GHz

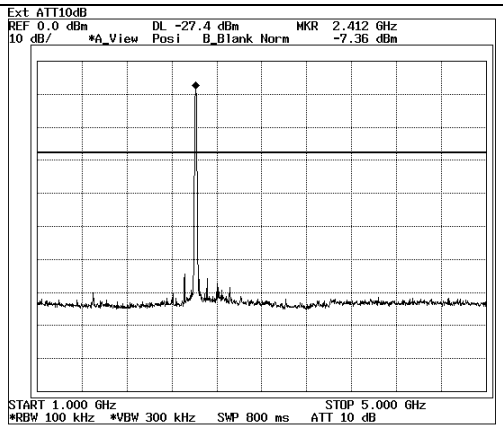


Conducted Spurious Emission(DSSS and other forms of modulation)
IEEE802.11b 11Mbps Antenna: Aux Ch : Low

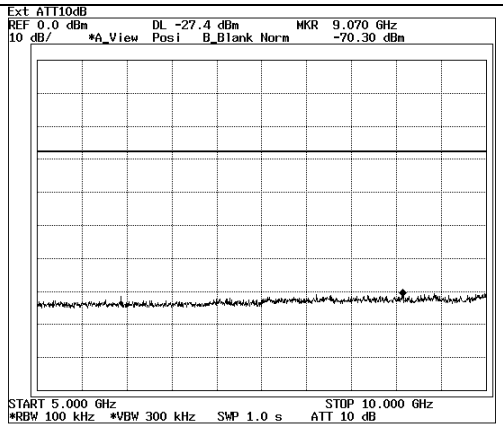
30MHz-1GHz



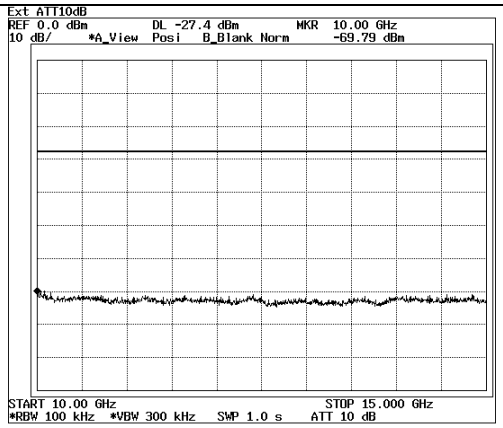
1GHz-5GHz



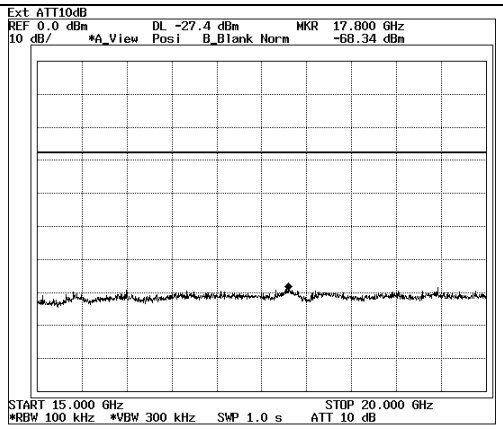
5GHz-10GHz



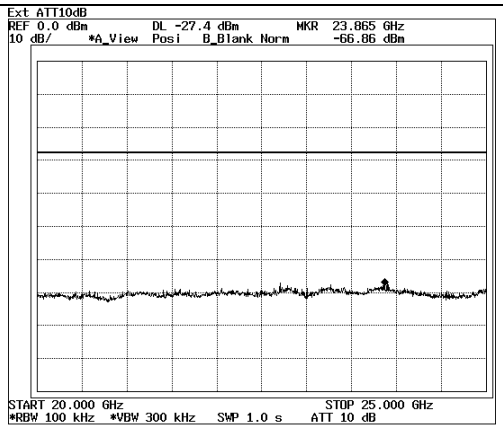
10GHz-15GHz



15GHz-20GHz

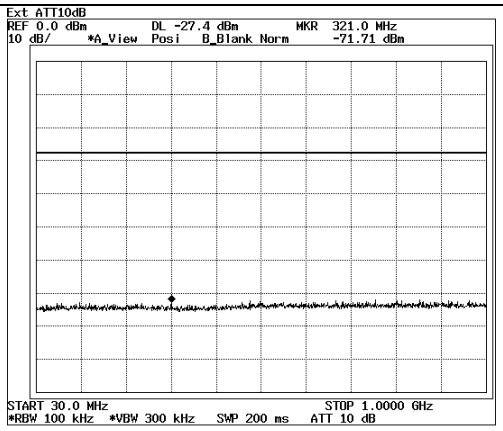


20GHz-25GHz

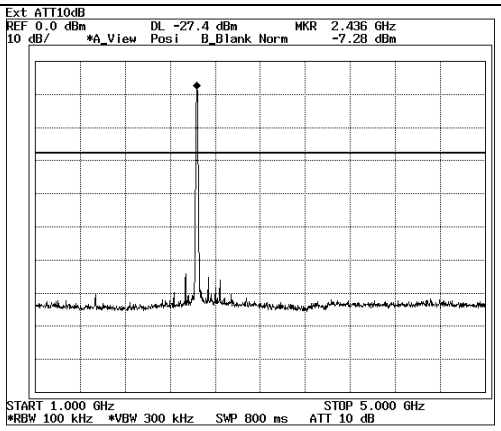


Conducted Spurious Emission(DSSS and other forms of modulation)
IEEE802.11b 11Mbps Antenna: Aux Ch : Mid

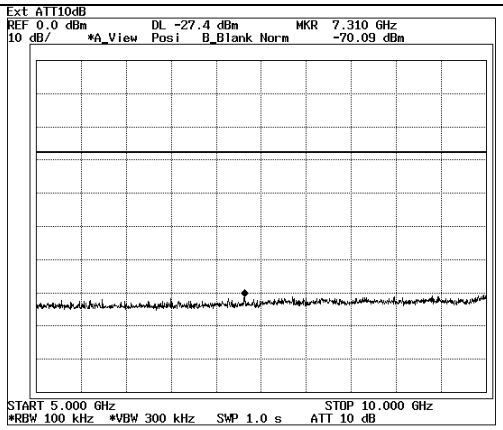
30MHz-1GHz



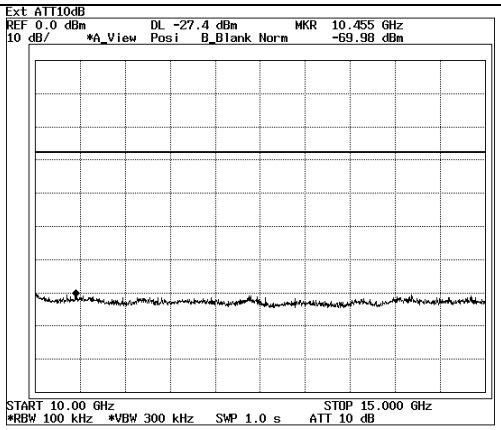
1GHz-5GHz



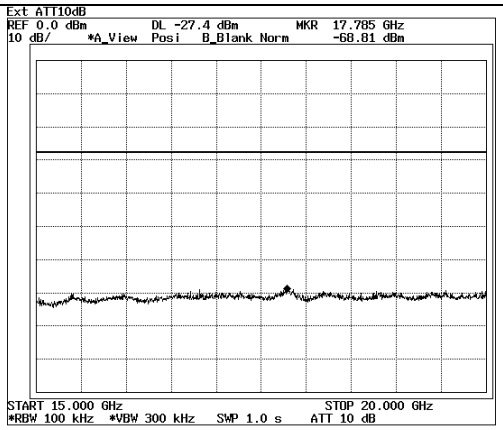
5GHz-10GHz



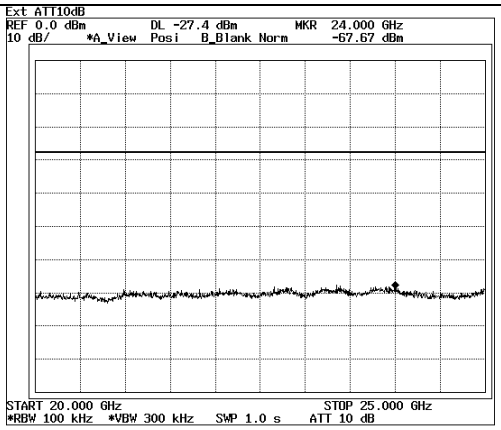
10GHz-15GHz



15GHz-20GHz

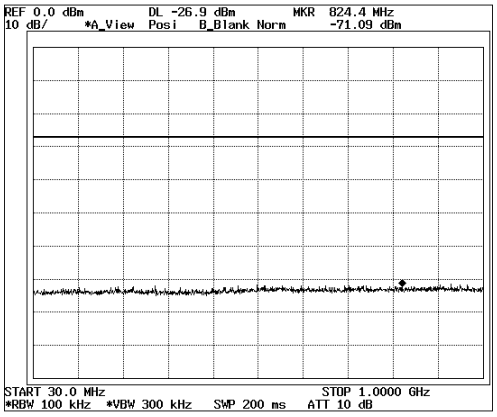


20GHz-25GHz

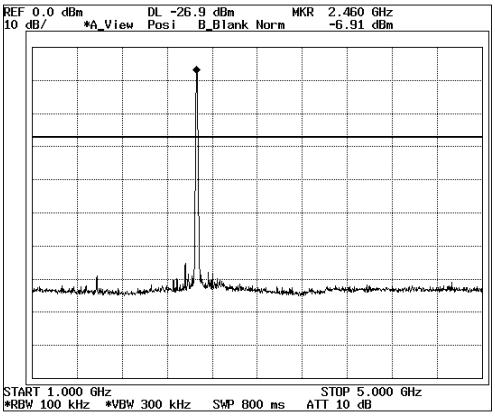


Conducted Spurious Emission(DSSS and other forms of modulation)
IEEE802.11b 11Mbps Antenna: Aux Ch : High

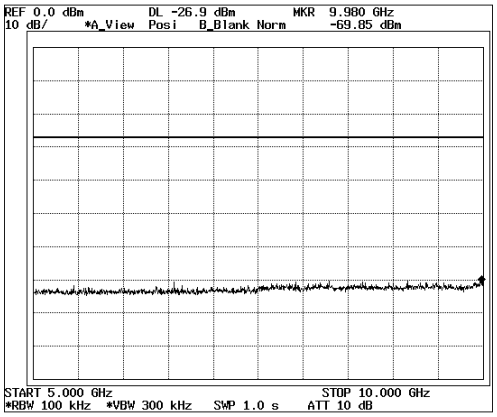
30MHz-1GHz



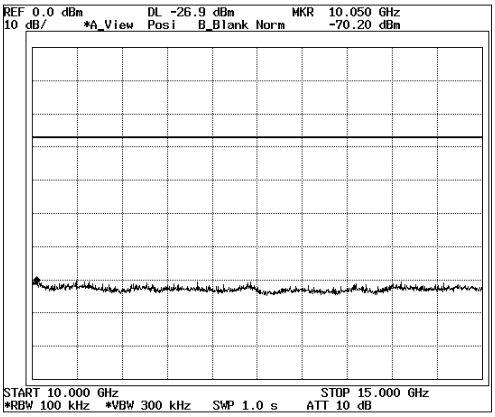
1GHz-5GHz



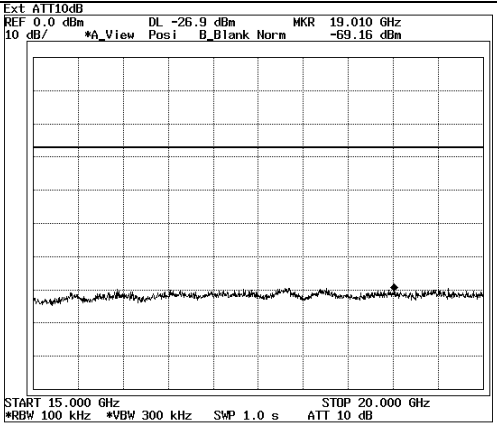
5GHz-10GHz



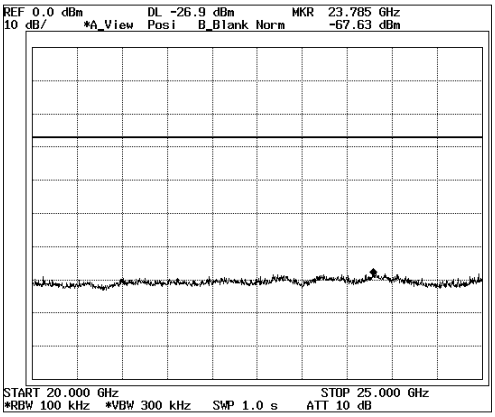
10GHz-15GHz



15GHz-20GHz

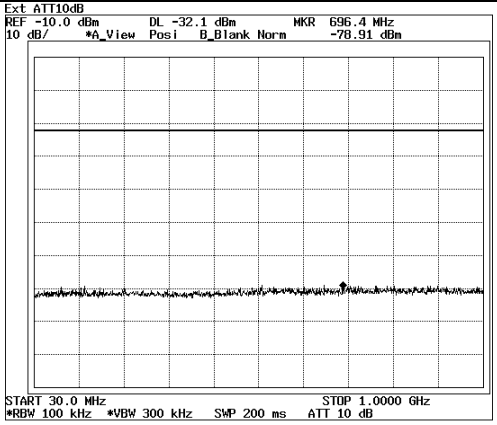


20GHz-25GHz

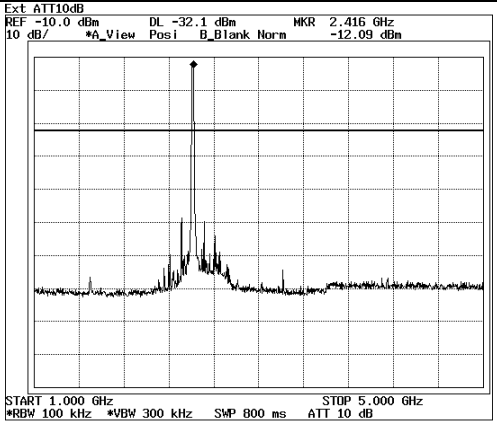


Conducted Spurious Emission(DSSS and other forms of modulation)
IEEE802.11g 54Mbp Antenna: Main Ch : Low

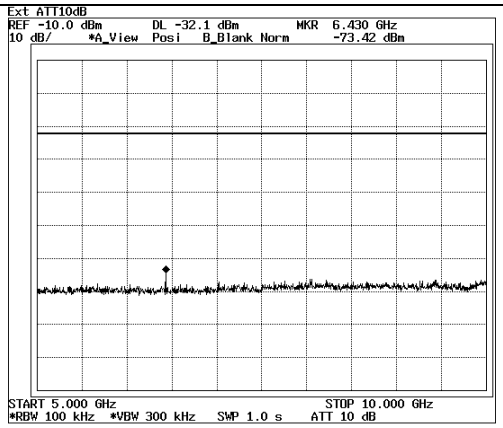
30MHz-1GHz



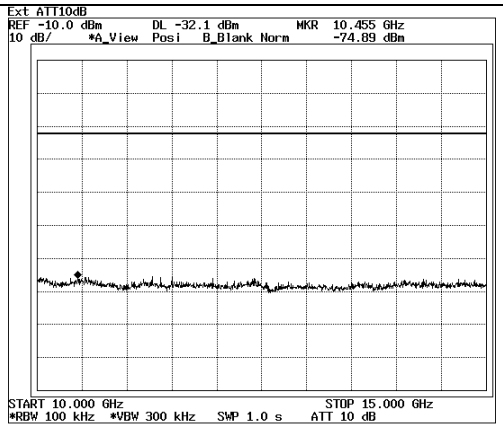
1GHz-5GHz



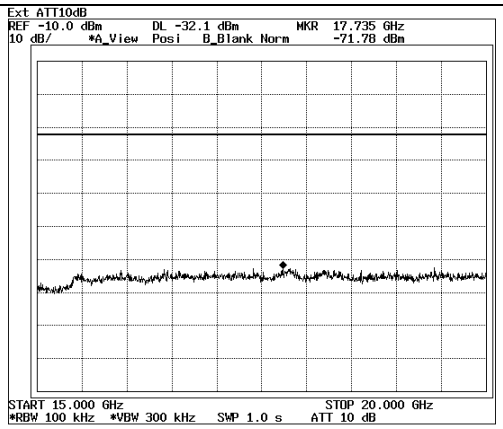
5GHz-10GHz



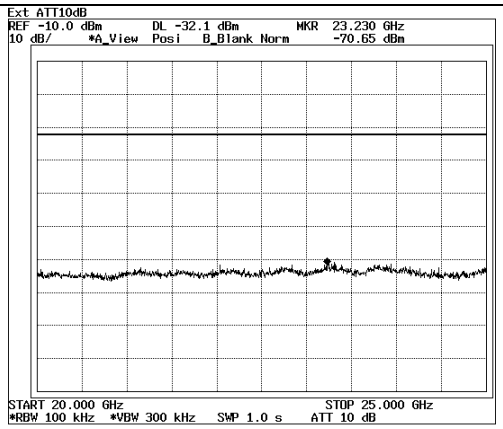
10GHz-15GHz



15GHz-20GHz

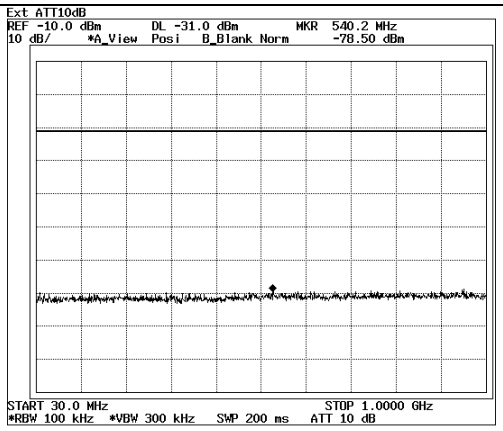


20GHz-25GHz

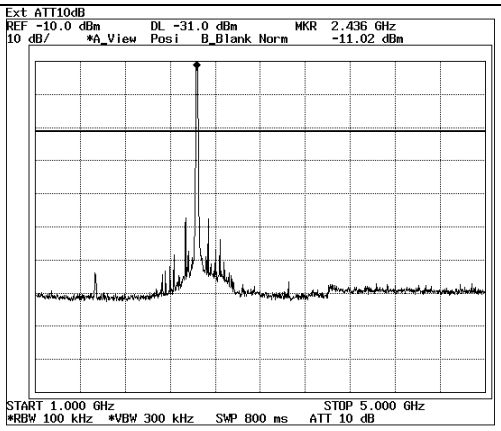


Conducted Spurious Emission(DSSS and other forms of modulation)
IEEE802.11g 54Mbps Antenna: Main Ch : Mid

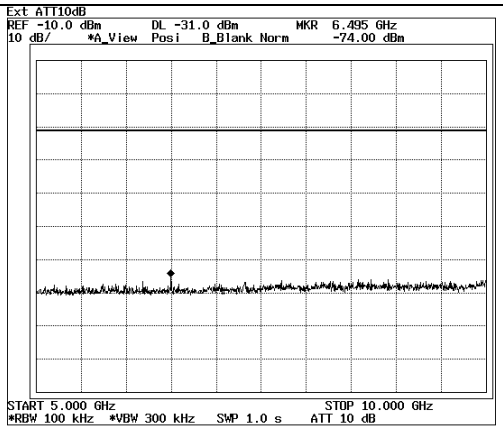
30MHz-1GHz



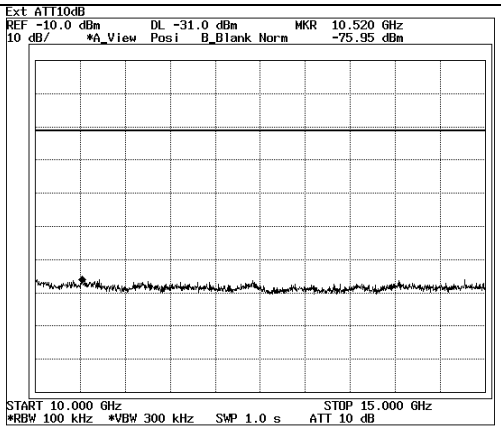
1GHz-5GHz



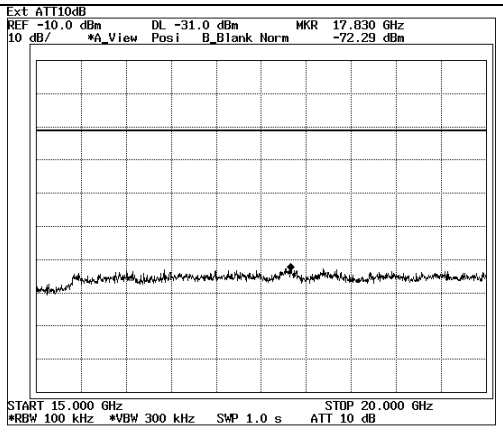
5GHz-10GHz



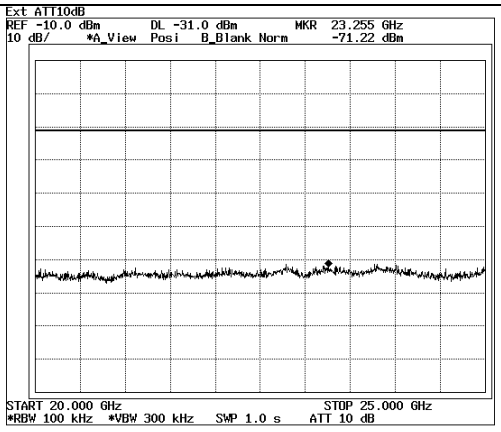
10GHz-15GHz



15GHz-20GHz

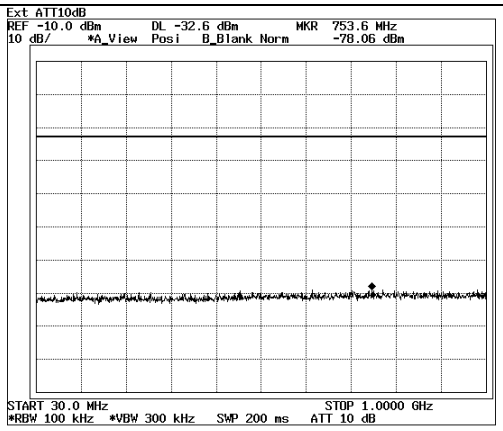


20GHz-25GHz

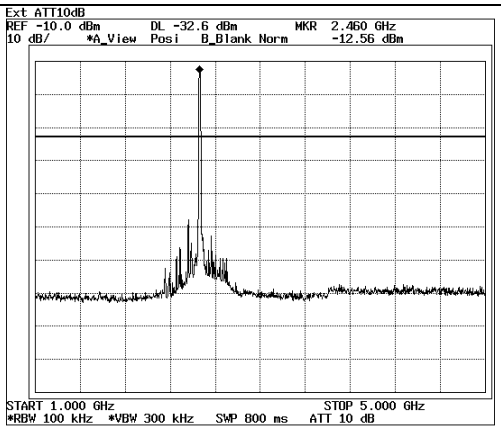


Conducted Spurious Emission(DSSS and other forms of modulation)
IEEE802.11g 54Mbps Antenna: Main Ch : High

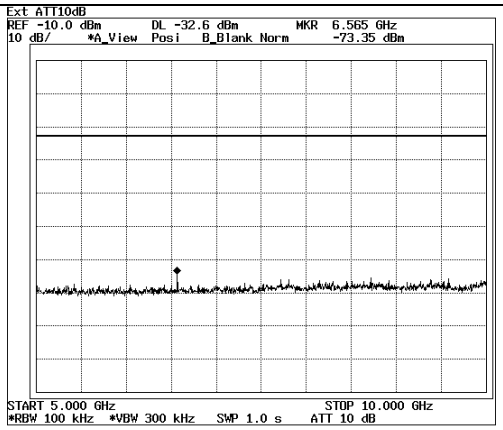
30MHz-1GHz



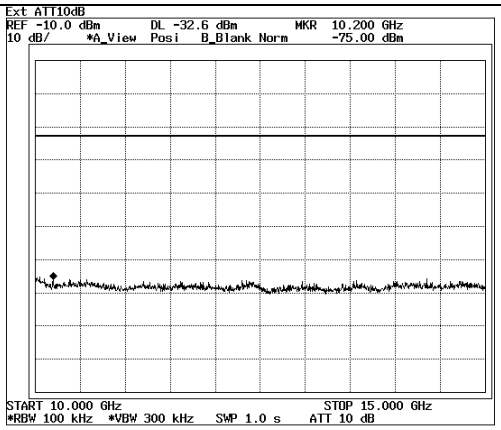
1GHz-5GHz



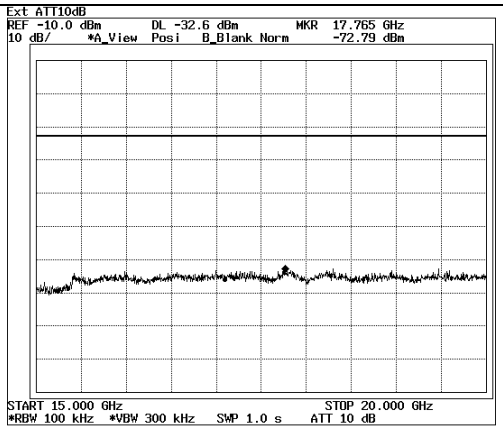
5GHz-10GHz



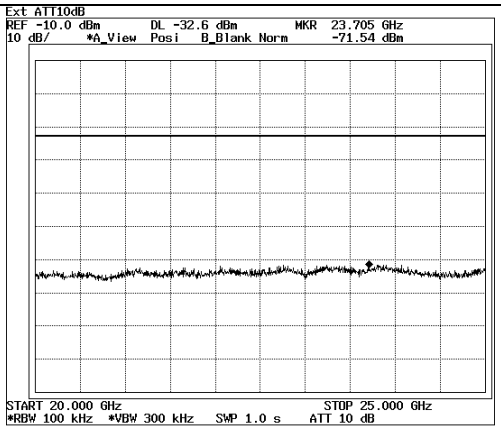
10GHz-15GHz



15GHz-20GHz

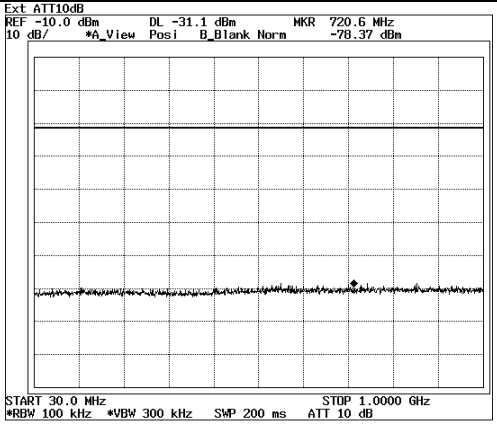


20GHz-25GHz

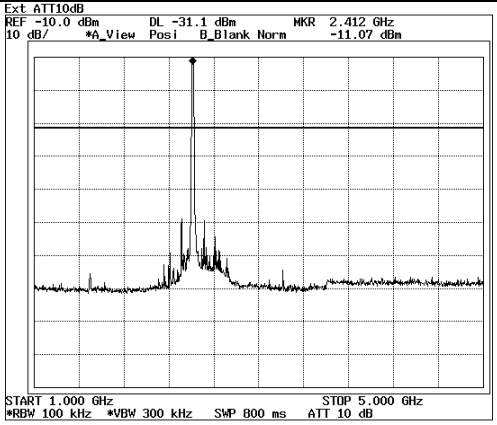


Conducted Spurious Emission(DSSS and other forms of modulation)
IEEE802.11g 54Mbp Antenna: Aux Ch : Low

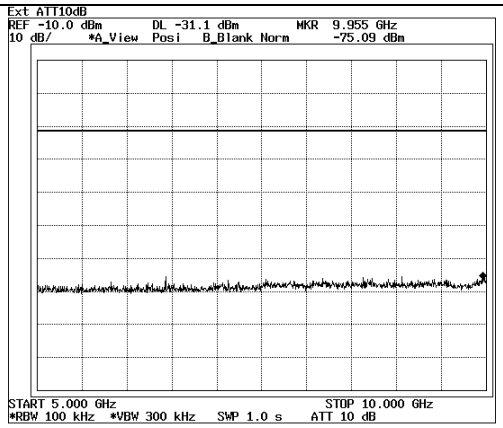
30MHz-1GHz



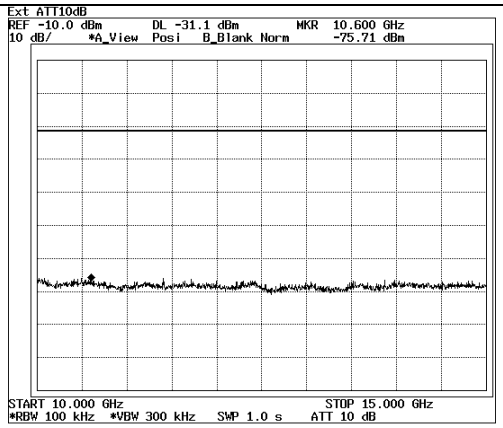
1GHz-5GHz



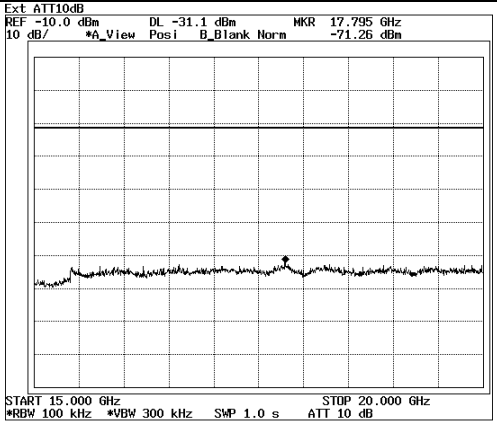
5GHz-10GHz



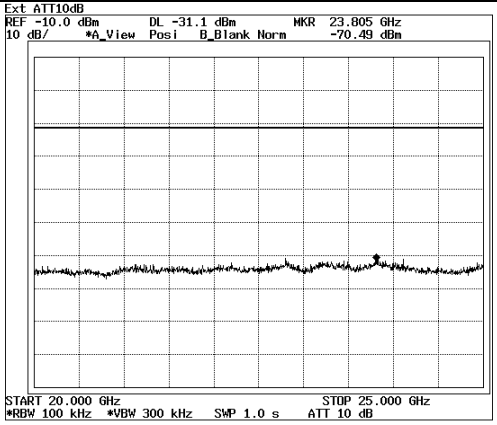
10GHz-15GHz



15GHz-20GHz

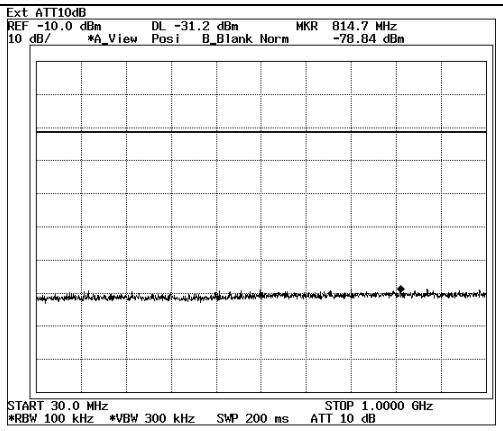


20GHz-25GHz

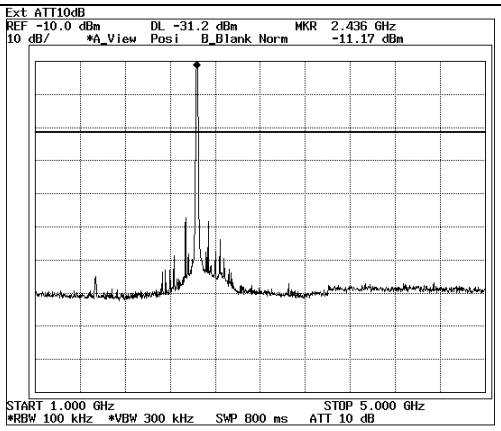


Conducted Spurious Emission(DSSS and other forms of modulation)
IEEE802.11g 54Mbps Antenna: Aux Ch : Mid

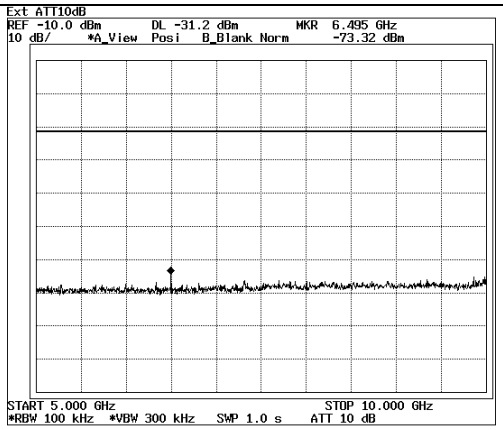
30MHz-1GHz



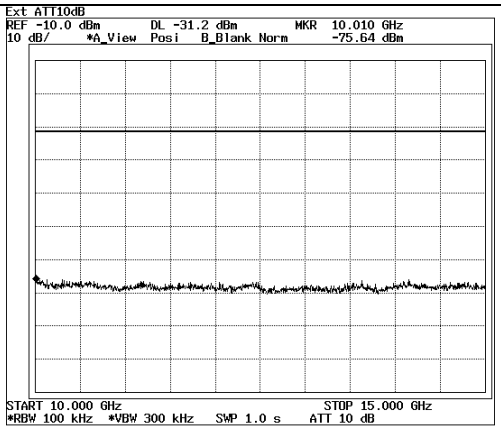
1GHz-5GHz



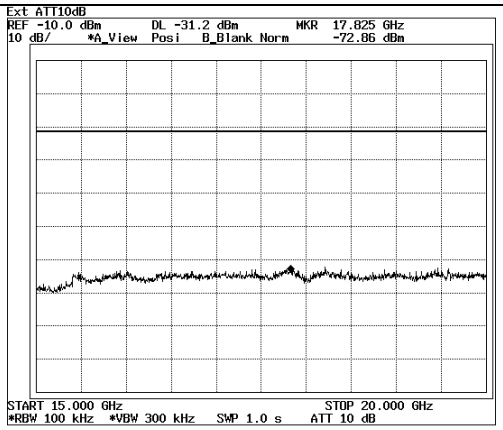
5GHz-10GHz



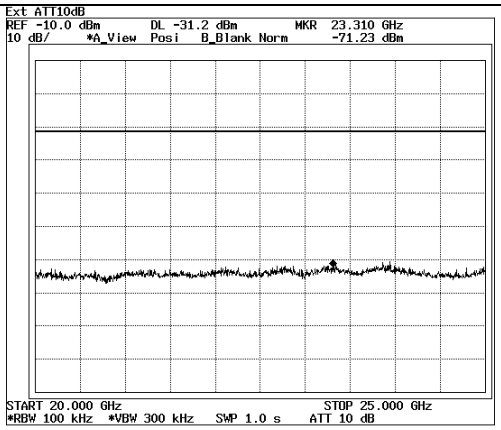
10GHz-15GHz



15GHz-20GHz

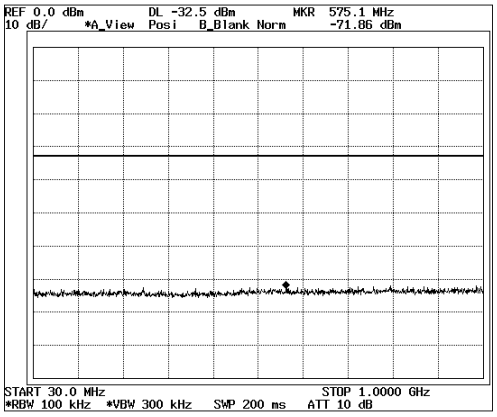


20GHz-25GHz

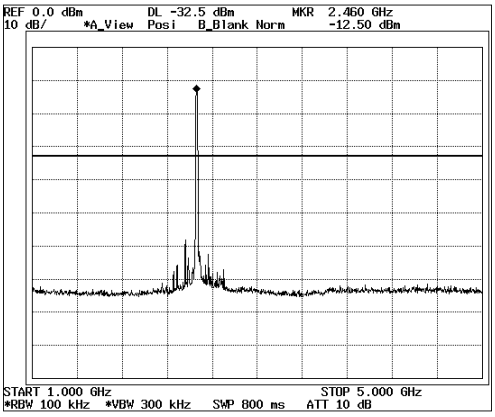


Conducted Spurious Emission(DSSS and other forms of modulation)
IEEE802.11g 54Mbps Antenna: Aux Ch : High

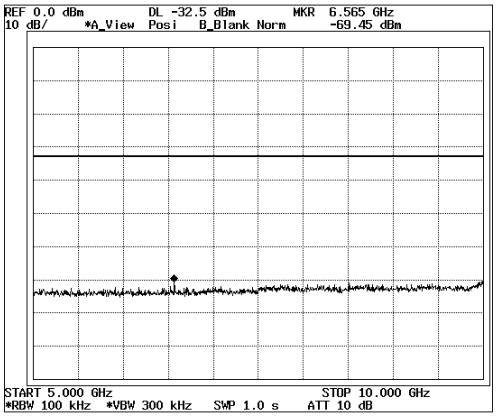
30MHz-1GHz



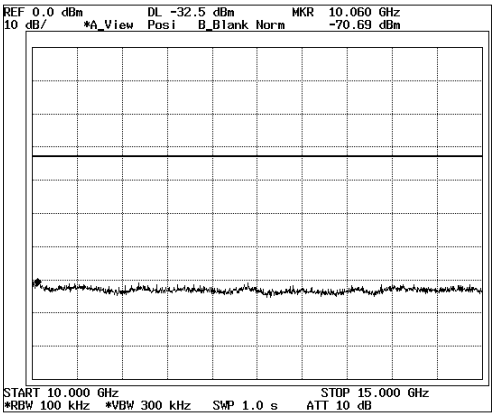
1GHz-5GHz



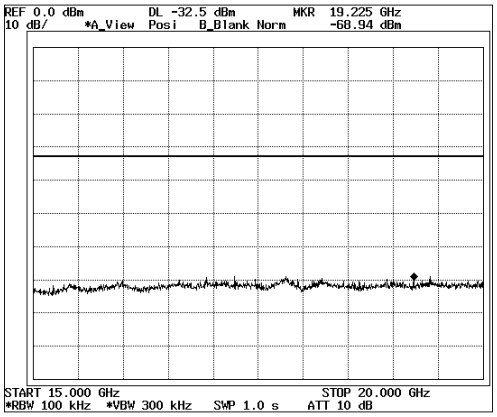
5GHz-10GHz



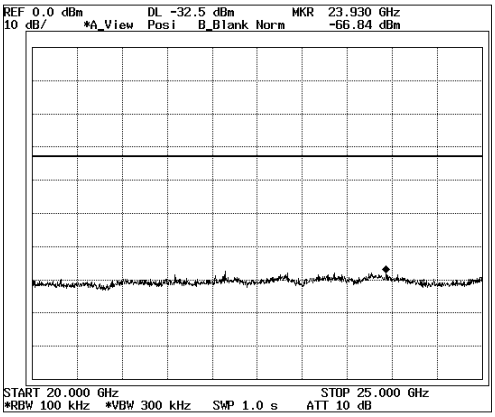
10GHz-15GHz



15GHz-20GHz

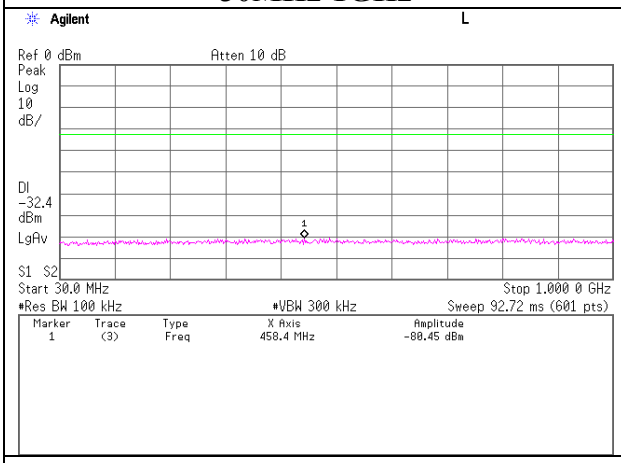


20GHz-25GHz

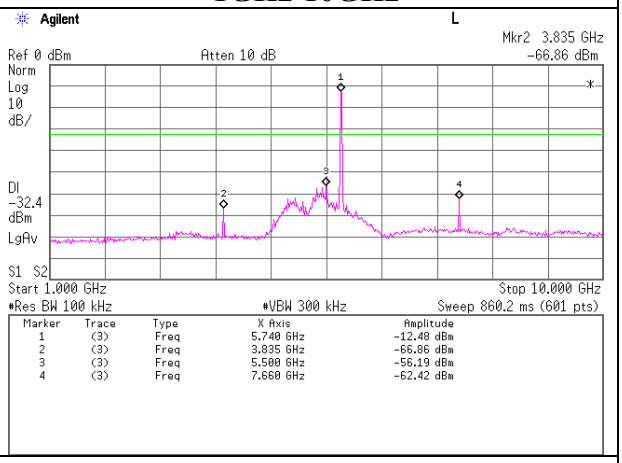


Conducted Spurious Emission(DSSS and other forms of modulation)
IEEE802.11a 24Mbps Antenna: Main Ch : Low

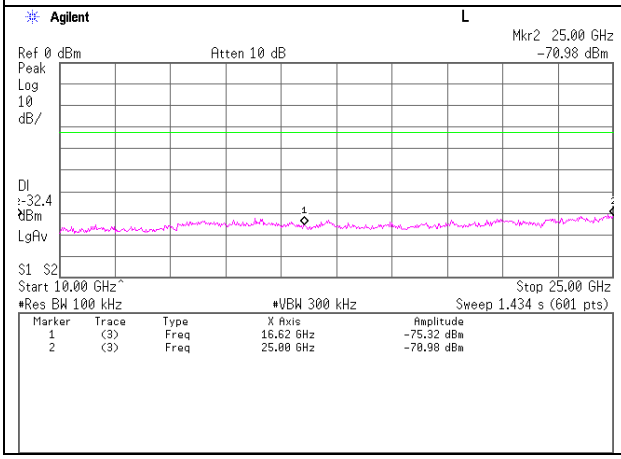
30MHz-1GHz



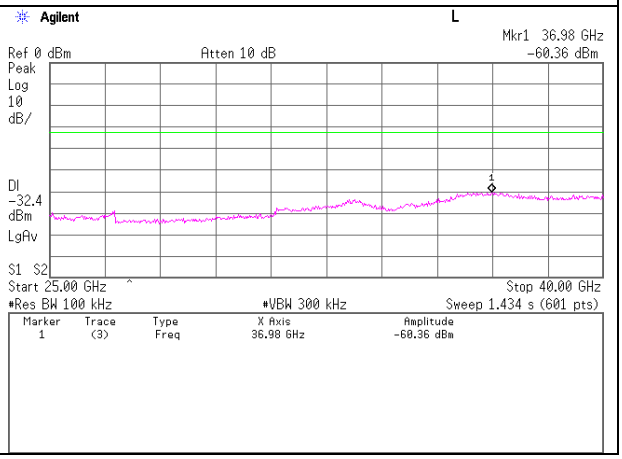
1GHz-10GHz



10GHz-25GHz

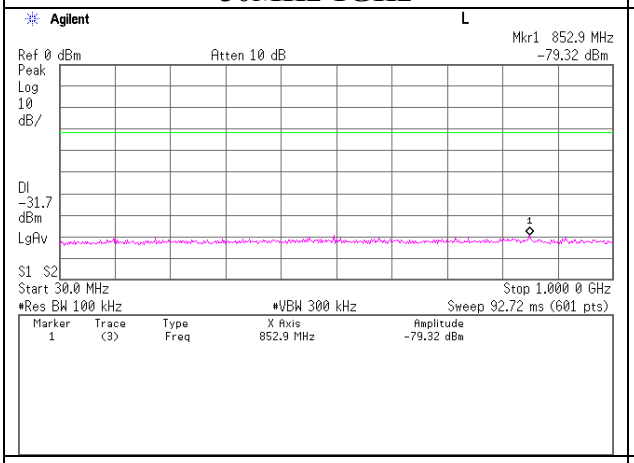


25GHz-40GHz

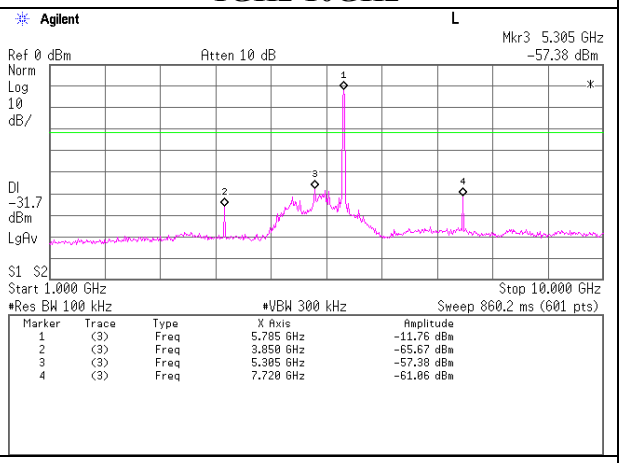


Conducted Spurious Emission(DSSS and other forms of modulation)
IEEE802.11a 24Mbps Antenna: Main Ch : Mid

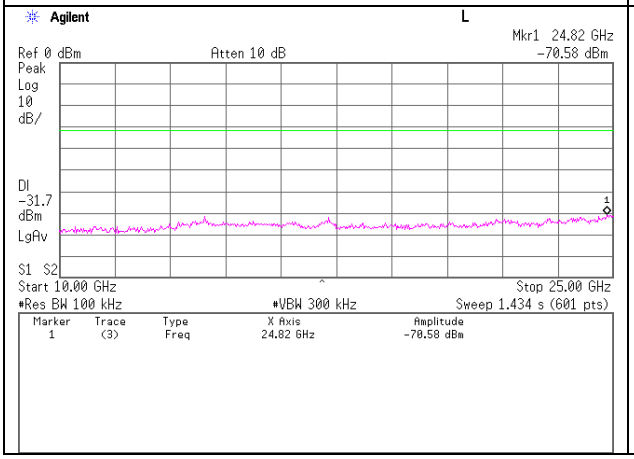
30MHz-1GHz



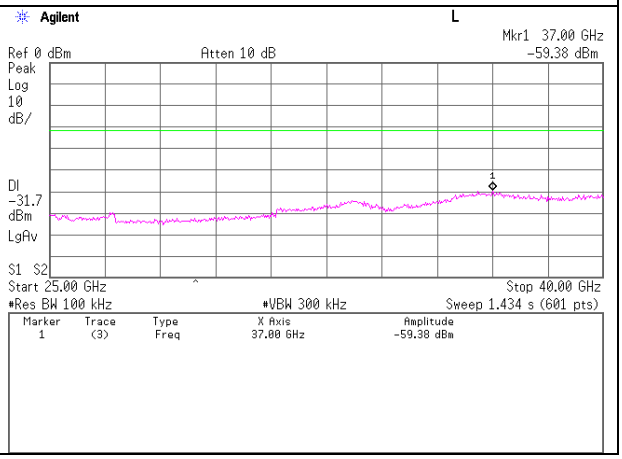
1GHz-10GHz



10GHz-25GHz

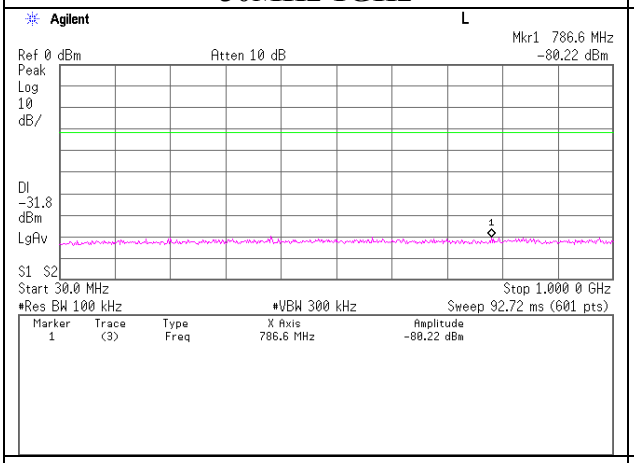


25GHz-40GHz

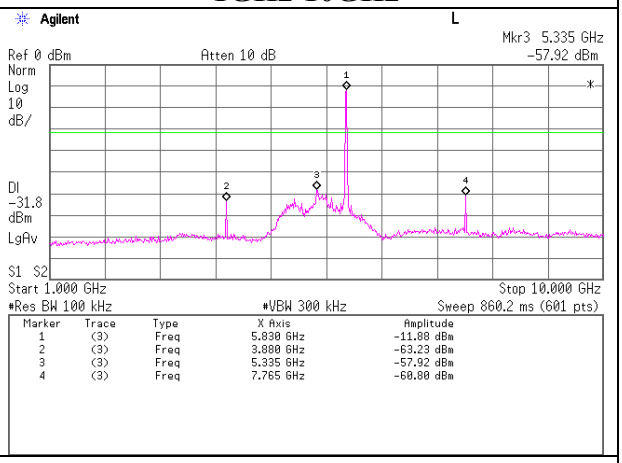


Conducted Spurious Emission(DSSS and other forms of modulation)
IEEE802.11a 24Mbps Antenna: Main Ch : High

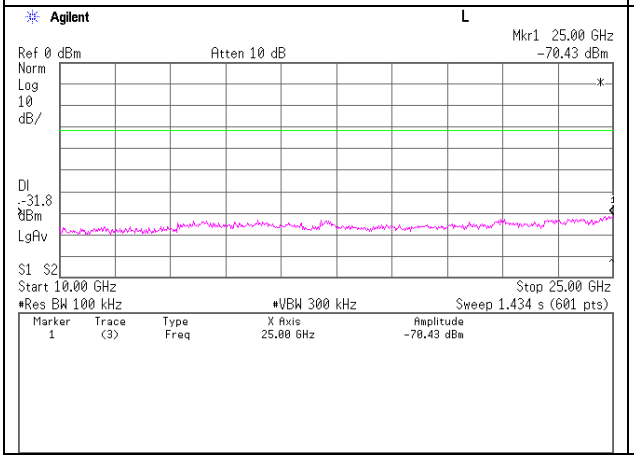
30MHz-1GHz



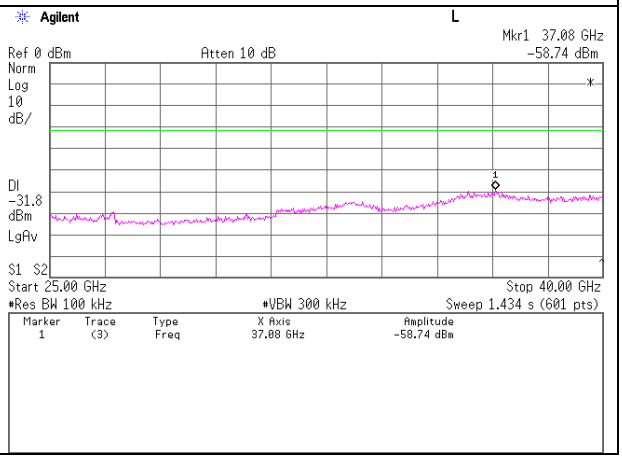
1GHz-10GHz



10GHz-25GHz

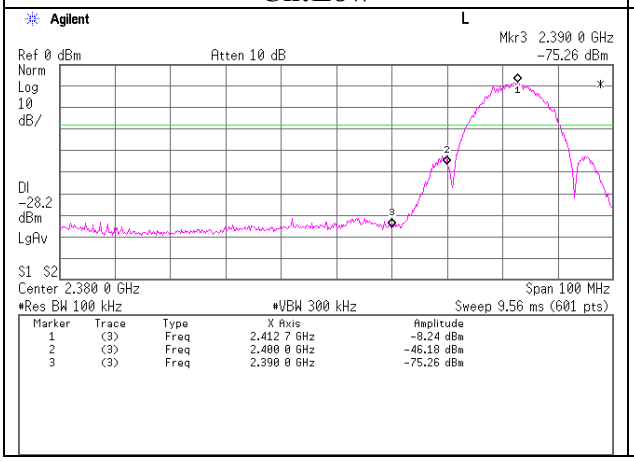


25GHz-40GHz

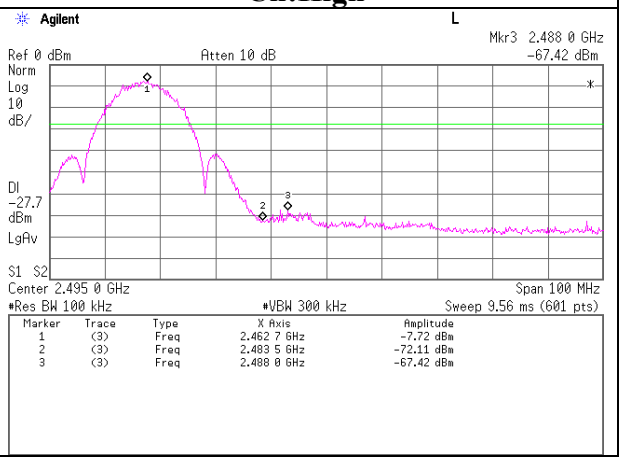


Conducted emission Band Edge compliance (DSSS and other forms of modulation)
IEEE802.11b 11Mbps Antenna: Main

Ch:Low

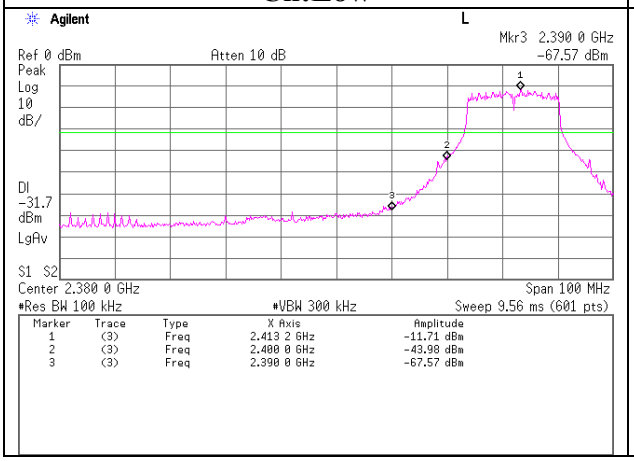


Ch:High

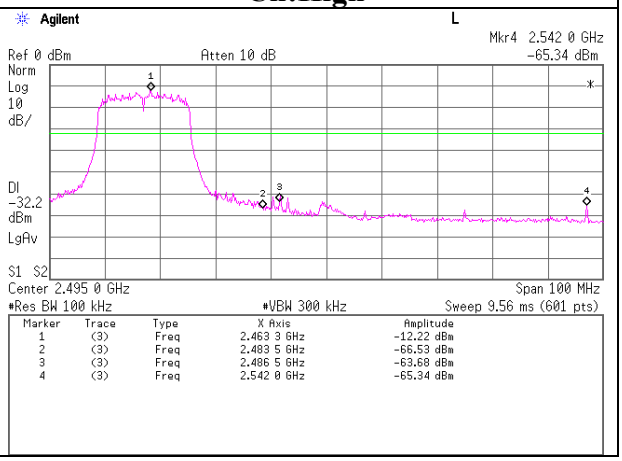


Conducted emission Band Edge compliance (DSSS and other forms of modulation)
IEEE802.11g 54Mbps Antenna: Main

Ch:Low



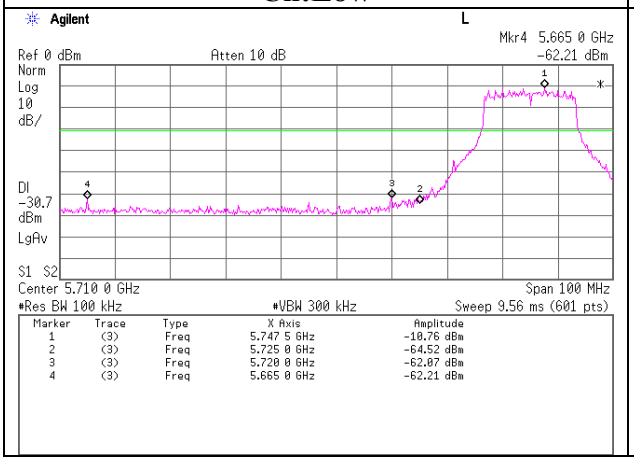
Ch:High



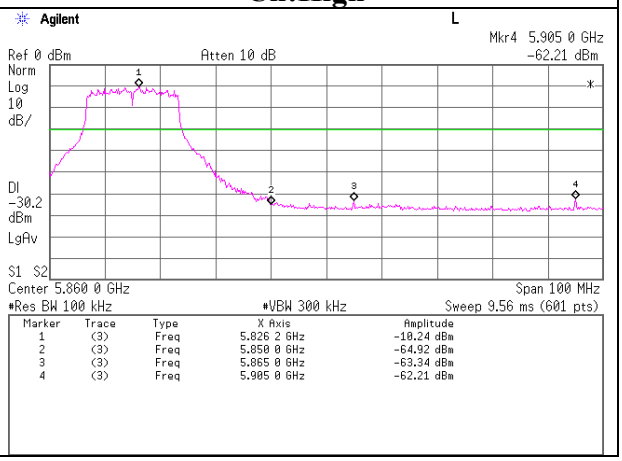
Conducted emission Band Edge compliance (DSSS and other forms of modulation)

IEEE802.11a 24Mbps Antenna: Main

Ch:Low

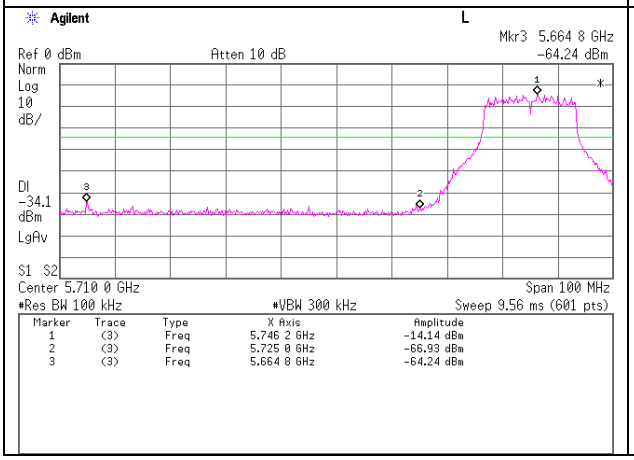


Ch:High

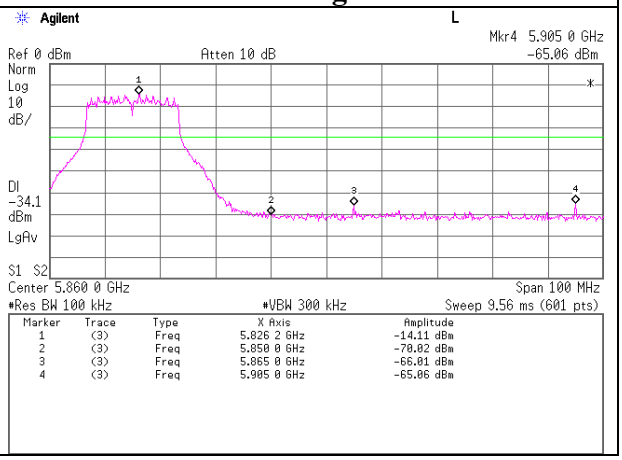


IEEE802.11a 54Mbps Antenna: Main

Ch:Low



Ch:High



Power Density (DSSS and other forms of modulation)

UL Apex Co., Ltd.
Head Office EMC Lab. No.4 Measurement Room

COMPANY	: Fujitsu Limited	REPORT NO	: 25HE0105-HO
EQUIPMENT	: Personal Computer	REGULATION	: FCC 15.247(b)
MODEL	: P1510	TEST DISTANCE	: -
SAMPLE NO.	: R5100030	DATE	: 05/11/2005
POWER	: AC120V/60Hz	TEMPERATURE	: 26deg.C
MODE	: Tx IEEE 802.11a/b/g	HUMIDITY	: 36%
	: Main Antenna , Continuous Transmitting	ENGINEER	: Mitsuru Fujimura

[IEEE802.11b : 11Mbps] Antenna: Main (A)

Ch	Freq. [MHz]	Reading [dBm]	Cable [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2412.0	-20.07	1.04	10.0	-9.0	8.0	17.0
Mid	2437.0	-19.93	1.01	10.0	-8.9	8.0	16.9
High	2462.0	-19.65	0.99	10.0	-8.7	8.0	16.7

[IEEE802.11g : 54Mbps] Antenna: Main (A)

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2412.0	-25.22	1.04	10.0	-14.2	8.0	22.2
Mid	2437.0	-24.46	1.01	10.0	-13.5	8.0	21.5
High	2462.0	-25.68	0.99	10.0	-14.7	8.0	22.7

[IEEE802.11a : 24Mbps] Antenna: Main (A)

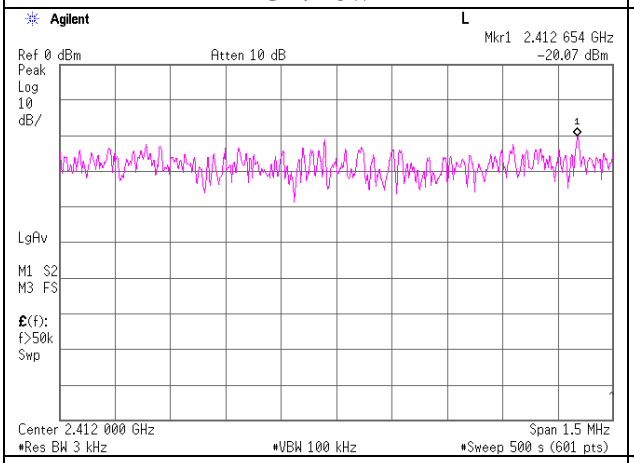
Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	5745.0	-23.58	1.20	10.0	-12.4	8.0	20.4
Mid	5785.0	-23.66	1.16	10.0	-12.5	8.0	20.5
High	5825.0	-23.38	1.19	10.0	-12.2	8.0	20.2

Sample Calculation:
Result = Reading + Cable Loss + Attenuator
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

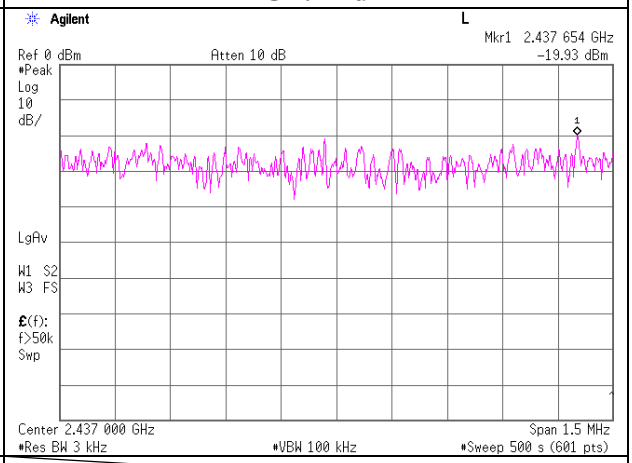
Power Density(DSSS and other forms of modulation)

IEEE802.11b 11Mbps Antenna: Main (A)

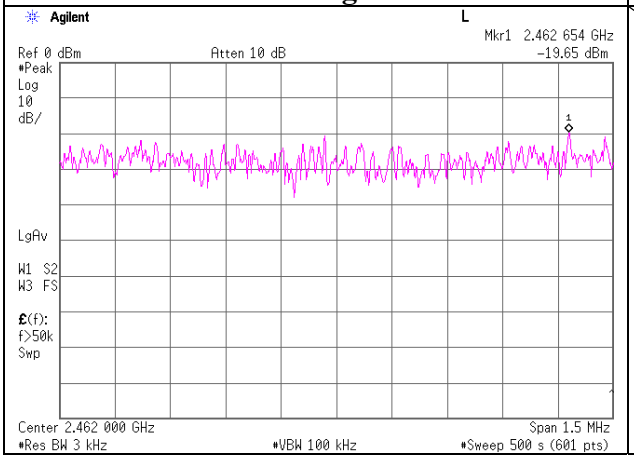
Ch:Low



Ch:Mid



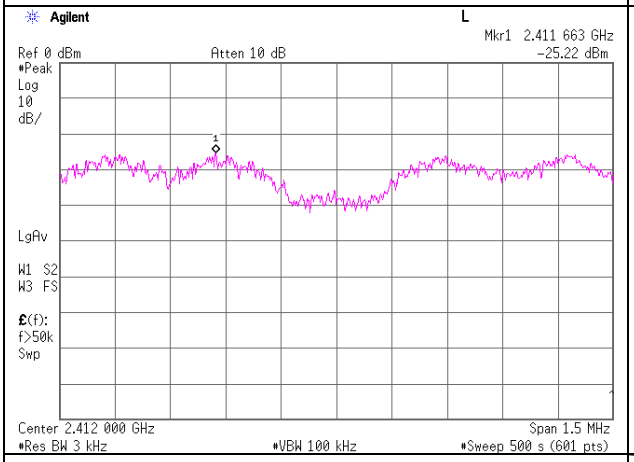
Ch:High



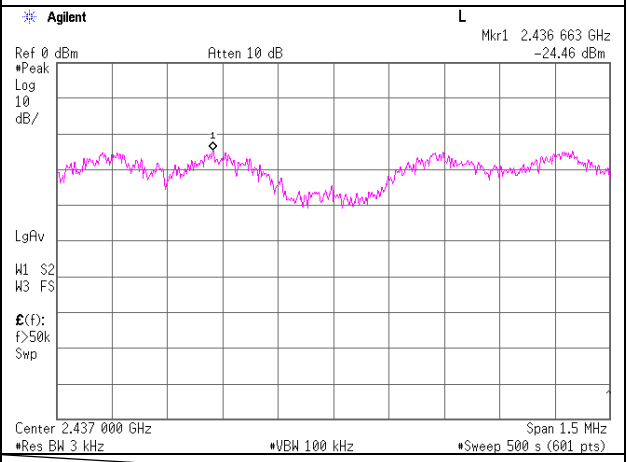
Power Density(DSSS and other forms of modulation)

IEEE802.11g 54Mbps Antenna: Main (A)

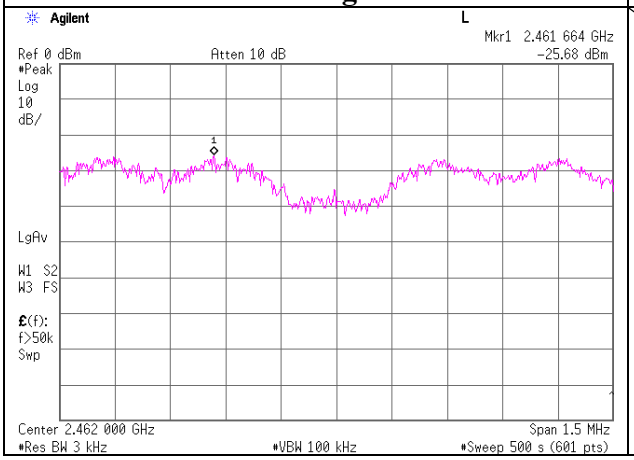
Ch:Low



Ch:Mid



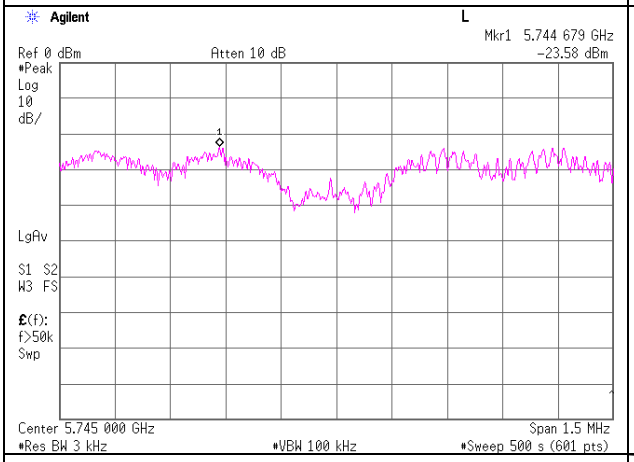
Ch:High



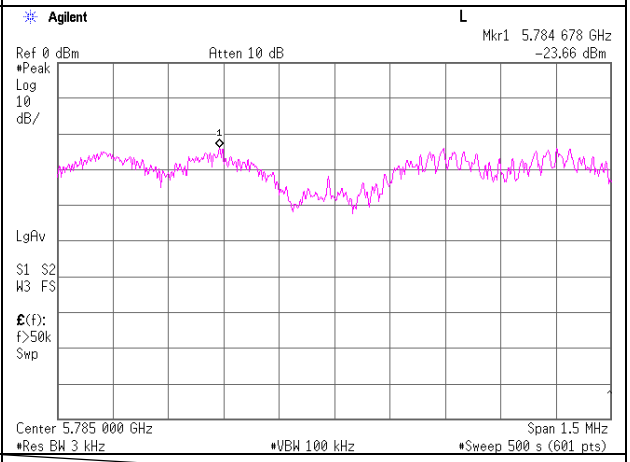
Power Density(DSSS and other forms of modulation)

IEEE802.11a 24Mbps Antenna: Main (A)

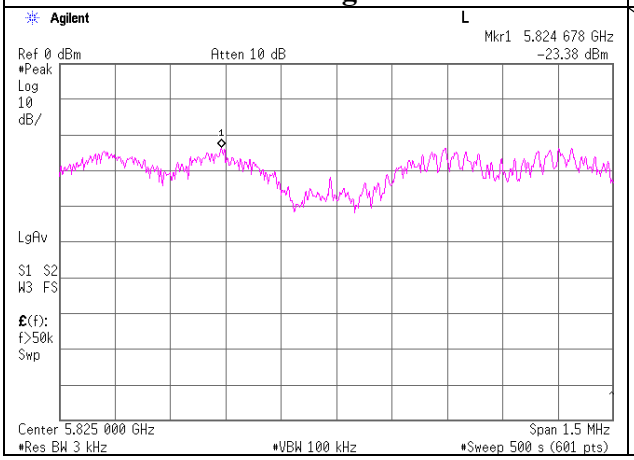
Ch:Low



Ch:Mid



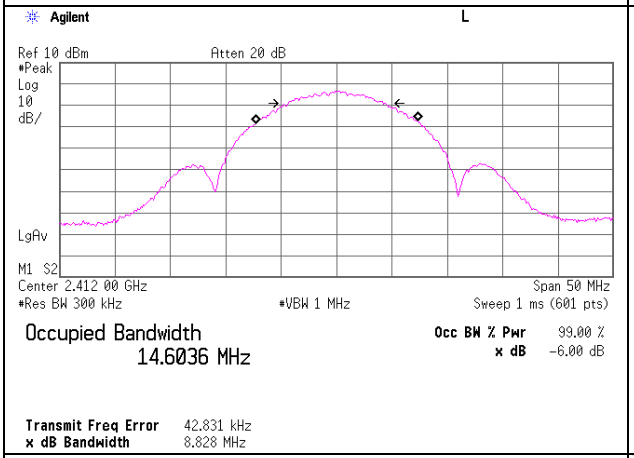
Ch:High



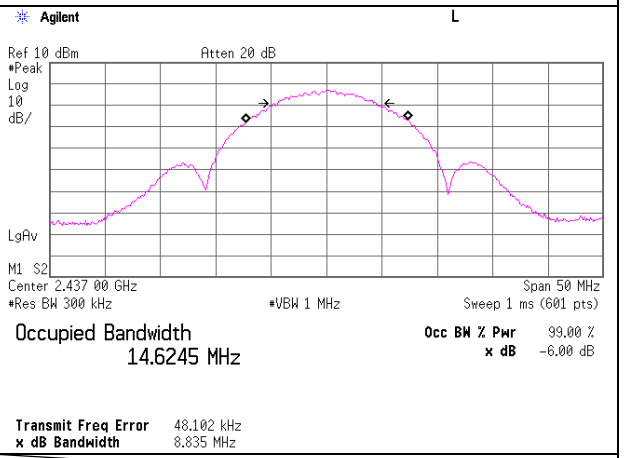
99%Occupied Bandwidth(DSSS and other forms of modulation)

IEEE802.11b 11Mbps Antenna: Main (A)

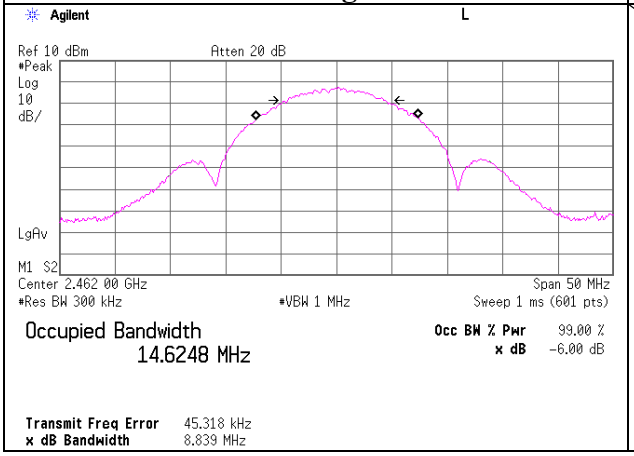
Ch:Low



Ch:Mid



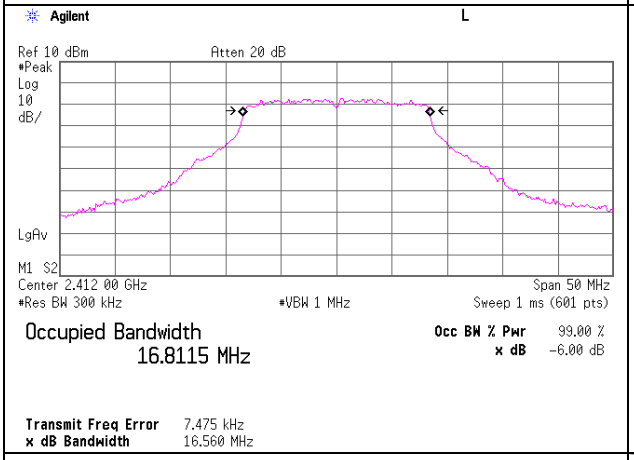
Ch:High



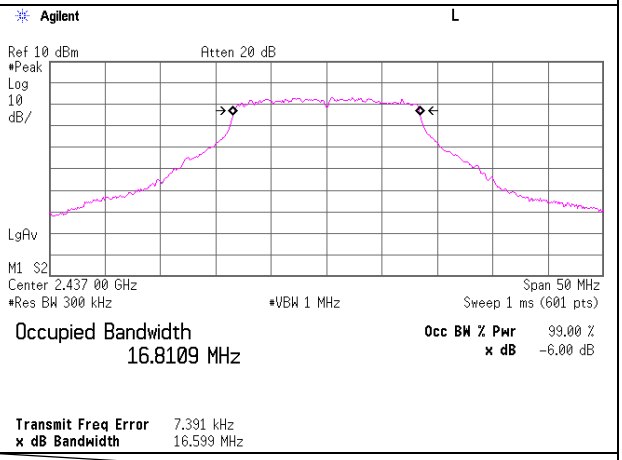
99%Occupied Bandwidth(DSSS and other forms of modulation)

IEEE802.11g 54Mbps Antenna: Main (A)

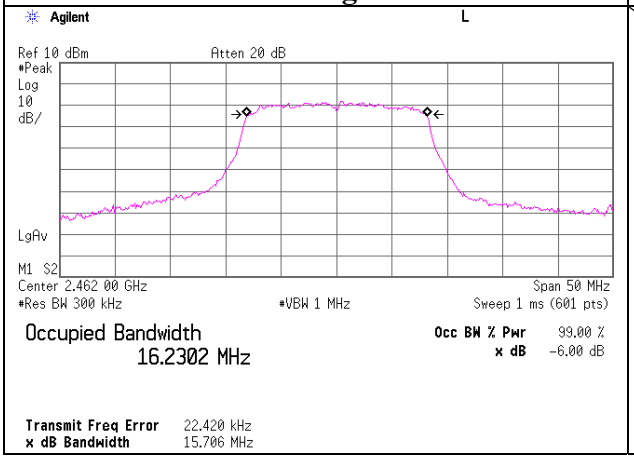
Ch:Low



Ch:Mid



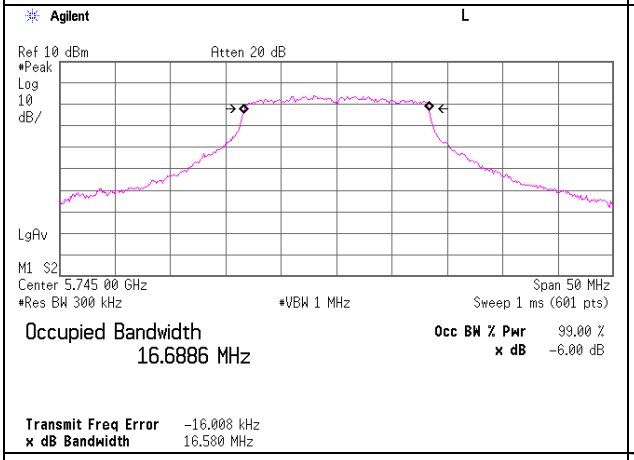
Ch:High



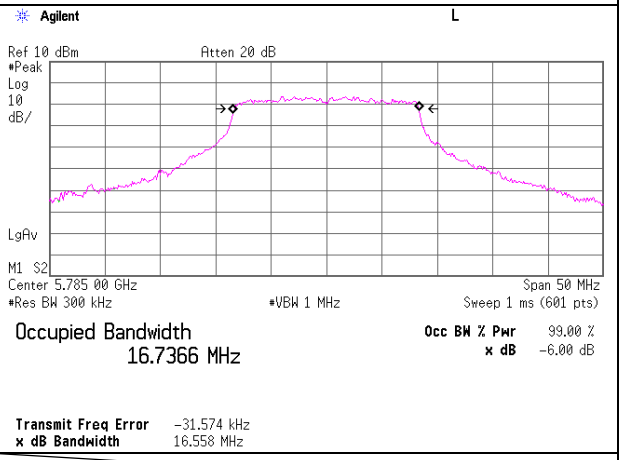
99%Occupied Bandwidth(DSSS and other forms of modulation)

IEEE802.11a 24Mbps Antenna: Main (A)

Ch:Low



Ch:Mid



Ch:High