

APPENDIX 2:Test instruments

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MRENT-23	Spectrum Analyzer	Advantest	R3273	RE	2006/01/10 * 12
MPA-01	Pre Amplifier	Agilent	8449B	RE	2006/02/09 * 12
MBF-03	SHF Bandpass Filter	M-City	13GHz BPF	RE	2006/05/20 * 12
MCC-56	Microwave Cable	Suhner	SUCOFLEX104	RE	2006/04/15 * 12
MAT-21	Attenuator(20dB)(above 1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-120	RE	2006/01/10 * 12
MLA-04	Logperiodic Antenna	Rohde & Schwarz	ESLP9145	RE	2006/03/29 * 12
MAEC-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2006/03/03 * 12
MOS-13	Thermo-Hygrometer	Custom	CTH-180	RE	2006/01/19 * 24
MLA-04C	Microwave Cable	Suhner	SUCOFLEX104	RE	2006/04/15 * 12
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE	2005/11/14 * 12
MOS-01	Digital Humidity Indicator	N.T	NT-1800	RE	2004/11/25 * 24
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE	2005/11/10 * 12
MCC-01	Coaxial Cable 0.1-3000MHz	Suhner/storm/Agilent/T SJ	-	RE	2006/02/20 * 12
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	RE	2005/10/10 * 12
MLA-01	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2005/10/14 * 12
MAT-06	Attenuator(6dB)	Weinschel Corp	2	RE	2005/12/16 * 12
MPA-04	Pre Amplifier	Agilent	8447D	RE	2006/05/27 * 12
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	CE	2006/04/10 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	CE	2004/11/25 * 24
MCC-13	Coaxial Cable	Fujikura/Agilent	-	CE	2006/02/23 * 12
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	CE (EUT)	2006/02/06 * 12
MAEC-04	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2006/03/06 * 12
MRENT-31	Spectrum Analyzer	Advantest	R3273	RE/CE	2006/04/24 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	RE	2006/01/19 * 24
MHA-05	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2006/01/09 * 12
MHA-01	Horn Antenna	EMCO	3160-09	RE	2006/01/09 * 12
MCC-57	Microwave Cable	Suhner	SUCOFLEX104	RE	2006/04/15 * 12
MPA-01	Pre Amplifier	Agilent	8449B	RE	2006/02/09 * 12
MHF-05	High Pass Filter	Tokimec	TF323DCA	RE	2006/01/24 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	RE	2005/09/16 * 12
MCC-05	Microwave Cable 1G-40GHz	Storm	421-011 (90-1394-079)	RE	2006/01/04 * 12
MCC-27	Microwave Cable 1G-40GHz	Suhner	SUCOFLEX101	RE	2005/08/30 * 12
MHA-03	Horn Antenna	EMCO	3160-10	RE	2006/01/09 * 12
MPA-03	Microwave System Power Amplifier	Agilent	83050A	RE	2006/05/16 * 12

UL Apex Co., Ltd.

Head Office EMC Lab.

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MF060b(14.06.06)

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MTR-02	Test Receiver	Rohde & Schwarz	ESCS30	CE	2006/02/02 * 12
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE/CE	-
MCC-18	Microwave Cable 1G- 26.5GHz	Suhner	SUCOFLEX 104	RE	2006/02/02 * 12
MCC-15	Microwave Cable 1G- 26.5GHz	Suhner	SUCOFLEX 104	RE	2006/02/02 * 12
MCC-03	Coaxial Cable	Fujikura/Suhner/Agilent /TSJ	-	CE	2005/12/18 * 12
MCC-26	Microwave Cable 1G- 26.5GHz	Suhner	SUCOFLEX104	RE	2005/08/30 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	AT	2005/09/16 * 12
MCC-34	Microwave Cable	Hirose Electric	U.FL-2LP-066-A-(200)	AT	2006/01/27 * 12
MCC-22	Microwave Cable 1G- 40GHz	Storm	421-011 (90-011-080)	AT	2006/05/12 * 12
MPM-01	Power Meter	Agilent	E4417A	AT	2005/11/09 * 12
MPSE-03	Power sensor	Agilent	E9327A	AT	2005/11/23 * 12
MAT-20	Attenuator(10dB)(above 1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-110	AT	2006/01/10 * 12
MSA-07	Spectrum Analyzer	Agilent	E4408B	AT	2006/03/24 * 12
MOS-04	Digital Humidity Indicator	N.T	NT-1800	AT	2004/11/25 * 24
MBTR10	Spectrum Analyzer	Rohde & Schwarz	FSP30	AT	2005/11/01 * 12
MAT-22	Attenuator(10dB)(above 1GHz)	Orient Microwave	BX10-0476-00	AT	2006/03/18 * 12
MOS-05	Thermo-Hygrometer	Custom	CTH-190	AT	2006/04/25 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	AT	2006/02/11 * 12

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

Test Item:

CE: Conducted emission
RE: Radiated emission
AT: Antenna Terminal

UL Apex Co., Ltd.

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MF060b(14.06.06)

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
Date : 2006/05/12 01:03:49

Applicant

Kind of EUT

Model No.

Serial No.

: silex technology, Inc

: MiniPCI Wireless LAN Board

: SX-10WAG

: ES0002

Report No.

Power

Temp°C/Humi%

Operator

: 26GE0350-HO

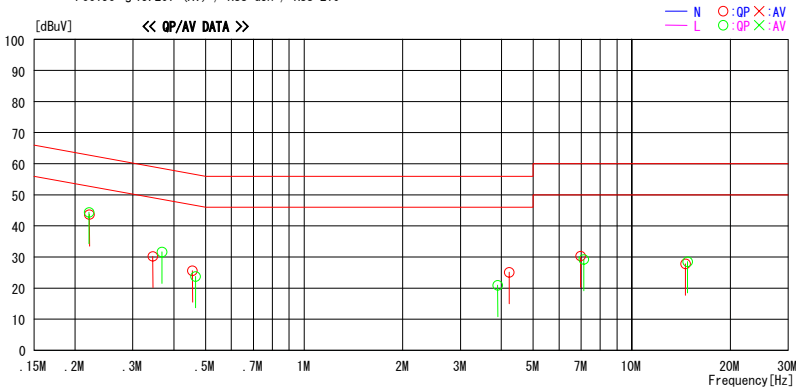
: AC120V / 60Hz

: 24.6deg. C / 38%

: Norihisa Hashimoto

Mode / Remarks : 11a Tx 5180MHz

LIMIT : FCC15C §15.207 (QP) / RSS-Gen / RSS-210
FCC15C §15.207 (AV) / RSS-Gen / RSS-210



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase
	QP	AV		QP	AV	QP	AV	QP	AV	
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]	
0.22127	43.2	---	0.4	43.6	---	62.8	---	19.2	---	N
0.34495	29.8	---	0.4	30.2	---	59.1	---	28.9	---	N
0.45595	25.2	---	0.4	25.6	---	56.8	---	31.2	---	N
4.22410	24.2	---	0.9	25.1	---	56.0	---	30.9	---	N
6.98200	29.2	---	1.1	30.3	---	60.0	---	29.7	---	N
14.58560	26.1	---	1.7	27.8	---	60.0	---	32.2	---	N
0.22078	44.0	---	0.4	44.4	---	62.8	---	18.4	---	L
0.36789	31.2	---	0.4	31.6	---	58.5	---	26.9	---	L
0.46578	23.4	---	0.4	23.8	---	56.6	---	32.8	---	L
3.89670	20.1	---	0.8	20.9	---	56.0	---	35.1	---	L
7.12920	28.1	---	1.1	29.2	---	60.0	---	30.8	---	L
14.80006	26.8	---	1.7	28.5	---	60.0	---	31.5	---	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.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/05/12 01:03:49

Applicant

Kind of EUT

Model No.

Serial No.

: silex technology, Inc

: MiniPCI Wireless LAN Board

: SX-10WAG

: ES0002

Report No.

Power

Temp°C/Humi%

Operator

: 26GE0350-H0

: AC120V / 60Hz

: 24.6deg. C / 38%

: Norihisa Hashimoto

Mode / Remarks : 11a Tx 5180MHz

LIMIT : FCC15C §15.207 (QP) / RSS-Gen / RSS-210
FCC15C §15.207 (AV) / RSS-Gen / RSS-210

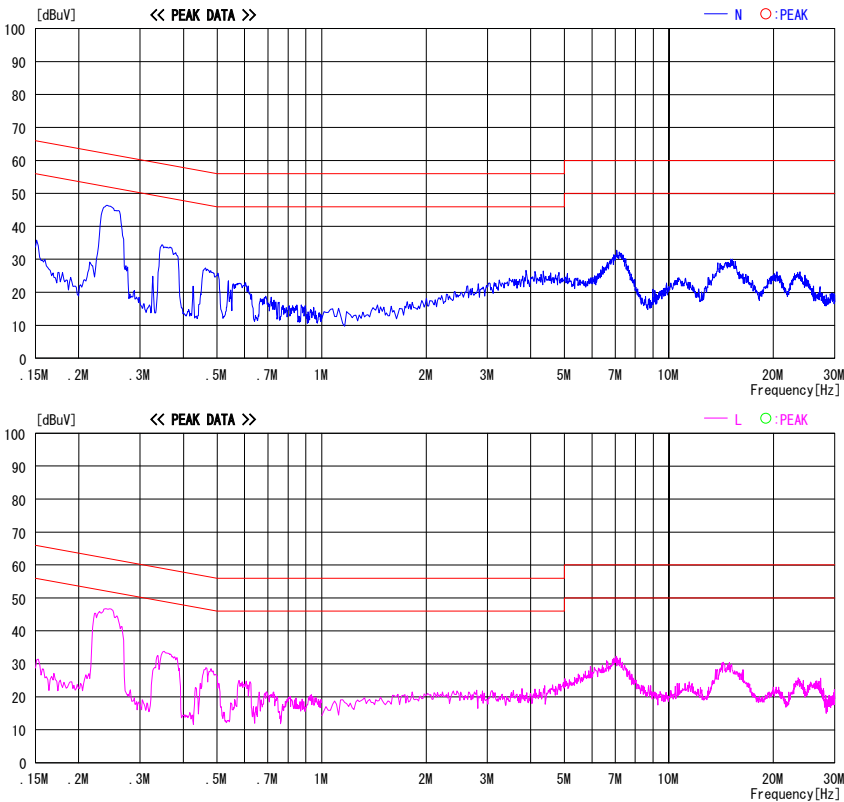


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/05/12 01:08:55

Applicant

Kind of EUT

Model No.

Serial No.

: silex technology, Inc

: MiniPCI Wireless LAN Board

: SX-10WAG

: ES0002

Report No.

Power

Temp°C/Humi%

Operator

: 26GE0350-H0

: AC120V / 60Hz

: 24.6deg. C / 38%

: Norihisa Hashimoto

Mode / Remarks : 11a Tx 5240MHz

LIMIT : FCC15C §15.207 (QP) / RSS-Gen / RSS-210
FCC15C §15.207 (AV) / RSS-Gen / RSS-210

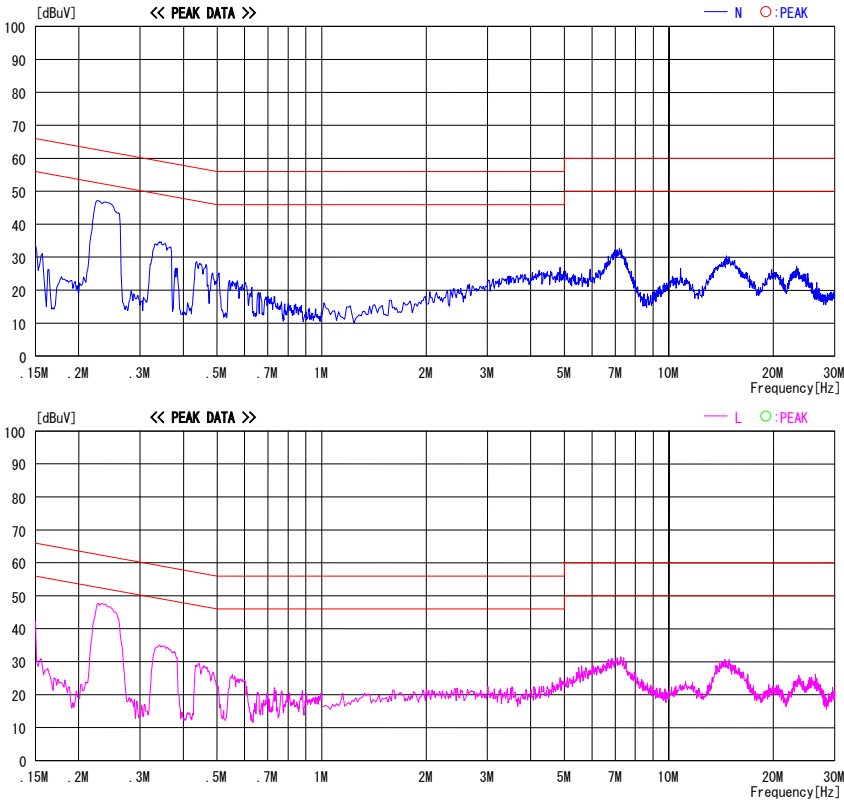


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/05/12 01:13:04

Applicant : silex technology, Inc
Kind of EUT : MiniPCI Wireless LAN Board
Model No. : SX-10WAG
Serial No. : ES0002

Report No. : 26GE0350-HO
Power : AC120V / 60Hz
Temp°C/Humi% : 24.6deg. C / 38%
Operator : Norihisa Hashimoto

Mode / Remarks : 11a Tx 5320MHz

LIMIT : FCC15C §15.207 (QP) / RSS-Gen / RSS-210
FCC15C §15.207 (AV) / RSS-Gen / RSS-210

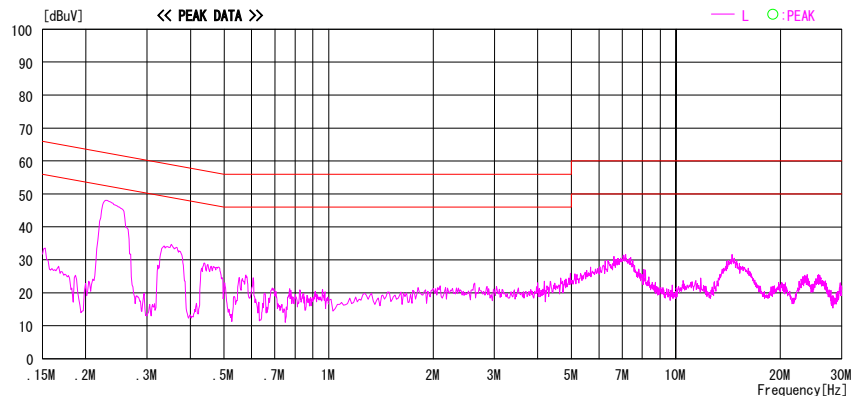
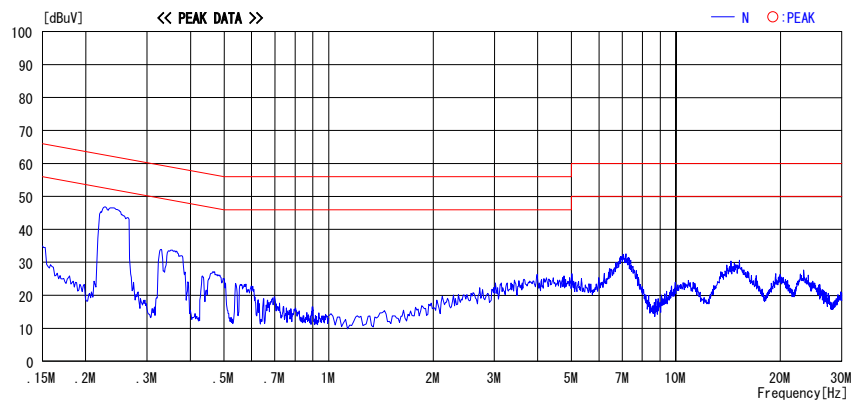


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCULATION: RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/05/12 01:17:04

Applicant : sillex technology, Inc

Kind of EUT : MiniPCI Wireless LAN Board

Model No. : SX-10WAG

Serial No. : ES0002

Report No. : 26GE0350-H0

Power : AC120V / 60Hz

Temp°C/Humi% : 24.6deg. C / 38%

Operator : Norihisa Hashimoto

Mode / Remarks : 11a Tx 5240MHz Turbo

LIMIT : FCC15C §15.207 (QP) / RSS-Gen / RSS-210

FCC15C §15.207 (AV) / RSS-Gen / RSS-210

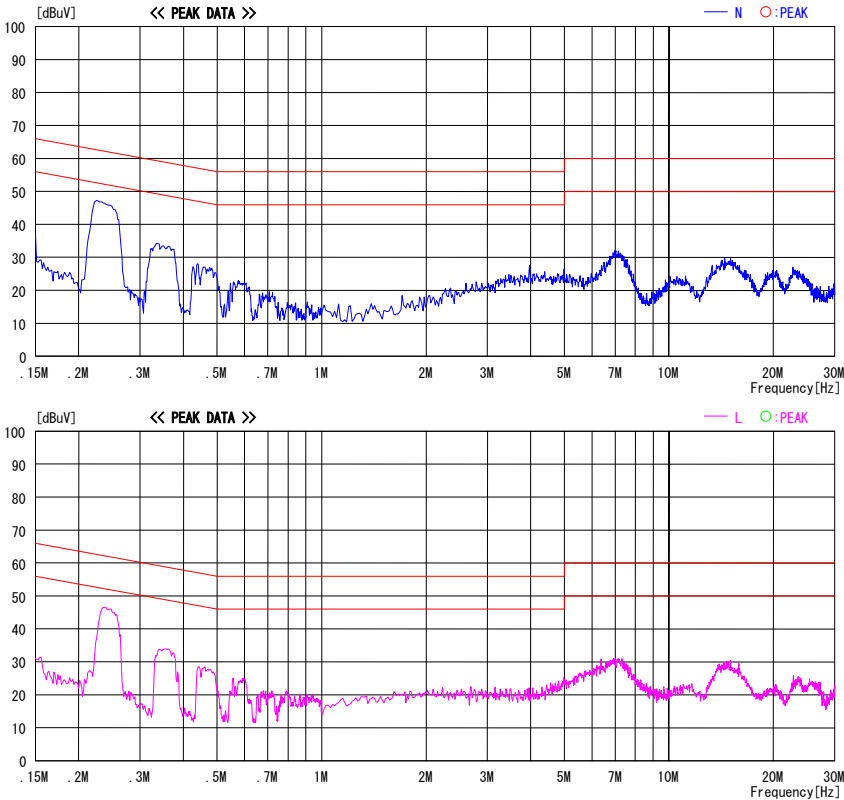


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/05/12 01:21:10

Applicant

Kind of EUT

Model No.

Serial No.

: silex technology, Inc

: MiniPCI Wireless LAN Board

: SX-10WAG

: ES0002

Report No.

Power

Temp°C/Humi%

Operator

: 26GE0350-H0

: AC120V / 60Hz

: 24.6deg. C / 38%

: Norihisa Hashimoto

Mode / Remarks : 11a Rx 5240MHz Turbo

LIMIT : FCC15C §15.207 (QP) / RSS-Gen / RSS-210
FCC15C §15.207 (AV) / RSS-Gen / RSS-210

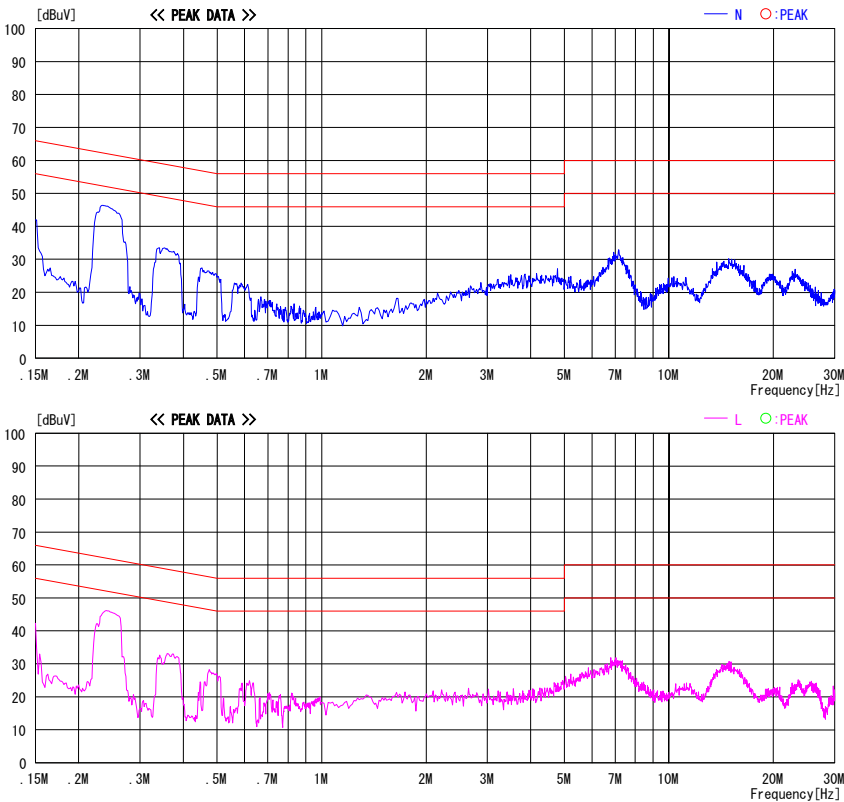


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

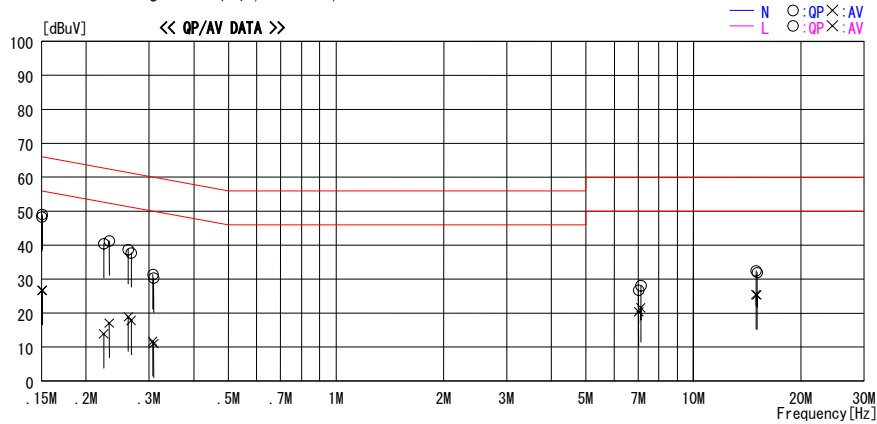
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2006/06/20 00:58:23

Applicant : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN Board
Model No. : SX-10WAG
Serial No. : 0080923A9A00

Report No. : 26GE0350-HO
Power : AC120V / 60Hz
Temp/C/Humi% : 25deg. C / 55%
Operator : Hiroka Umeyama

Mode / Remarks : 11a Tx 5745MHz

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
FCC15C § 15.207 (AV) / RSS-Gen / RSS-210



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.15078	48.8	26.5	0.2	49.0	26.7	66.0	56.0	17.0	29.3	N
0.23196	41.0	16.8	0.2	41.2	17.0	62.4	52.4	21.2	35.4	N
0.26713	37.5	17.6	0.2	37.7	17.8	61.2	51.2	23.5	33.4	N
0.30860	30.1	10.8	0.2	30.3	11.0	60.0	50.0	29.7	39.0	N
7.12625	27.0	20.5	1.1	28.1	21.6	60.0	50.0	31.9	28.4	N
14.95691	30.6	23.6	1.8	32.4	25.4	60.0	50.0	27.6	24.6	N
0.15045	48.1	26.6	0.2	48.3	26.8	66.0	56.0	17.7	29.2	L
0.22394	40.2	13.7	0.2	40.4	13.9	62.7	52.7	22.3	38.8	L
0.26222	38.5	18.6	0.2	38.7	18.8	61.4	51.4	22.7	32.6	L
0.30691	31.1	11.4	0.2	31.3	11.6	60.1	50.1	28.8	38.5	L
7.02305	25.7	19.3	1.1	26.8	20.4	60.0	50.0	33.2	29.6	L
15.05010	30.1	23.5	1.8	31.9	25.3	60.0	50.0	28.1	24.7	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.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2006/06/20 00:58:23

Applicant

Kind of EUT

Model No.

Serial No.

: silex technology, Inc

: MiniPCI Wireless LAN Board

: SX-10WAG

: 0080923A9A00

Report No.

Power

Temp°C/Humi%

Operator

: 26GE0350-H0

: AC120V / 60Hz

: 25deg. C / 55%

: Hiroka Umeyama

Mode / Remarks : 11a Tx 5745MHz

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

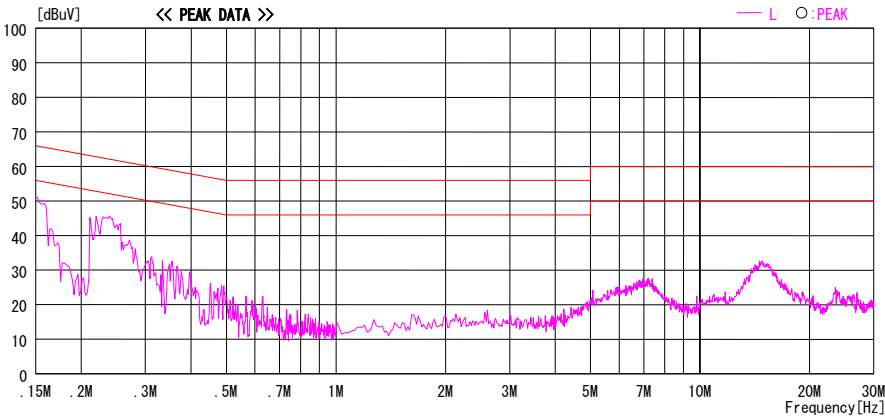
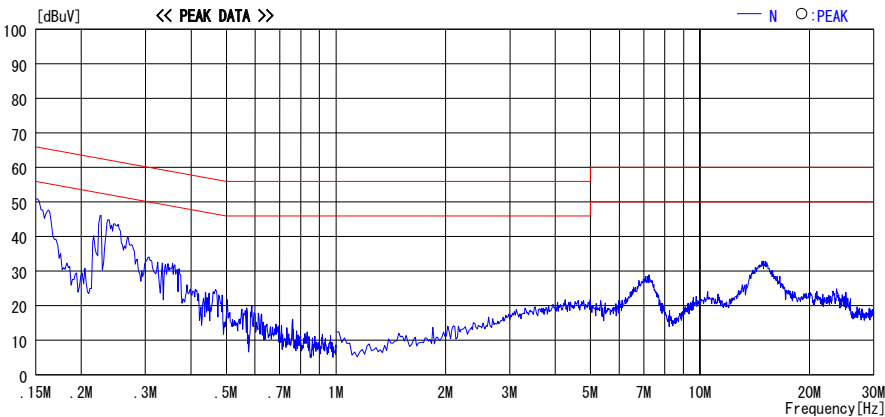


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2006/06/20 01:03:06

Applicant : silex technology, Inc

Kind of EUT : MiniPCI Wireless LAN Board

Model No. : SX-10WAG

Serial No. : 0080923A9A00

Report No. : 26GE0350-HO

Power : AC120V / 60Hz

Temp°C/Humi% : 25deg. C / 55%

Operator : Hiroka Umeyama

Mode / Remarks : 11a Tx 5765MHz

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210

FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

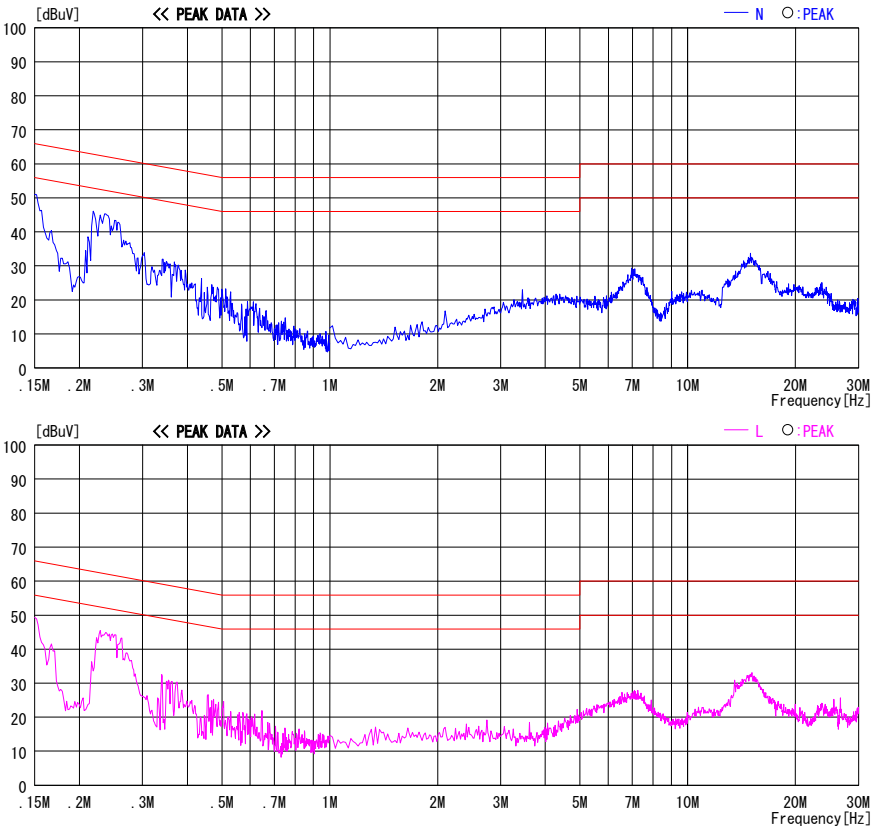


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C. F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2006/06/20 01:08:35

Applicant : silex technology, Inc

Kind of EUT : MiniPCI Wireless LAN Board

Model No. : SX-10WAG

Serial No. : 0080923A9A00

Report No. : 26GE0350-H0

Power : AC120V / 60Hz

Temp°C/Humi% : 25deg. C / 55%

Operator : Hiroka Umeyama

Mode / Remarks : 11a Tx 5805MHz

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210

FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

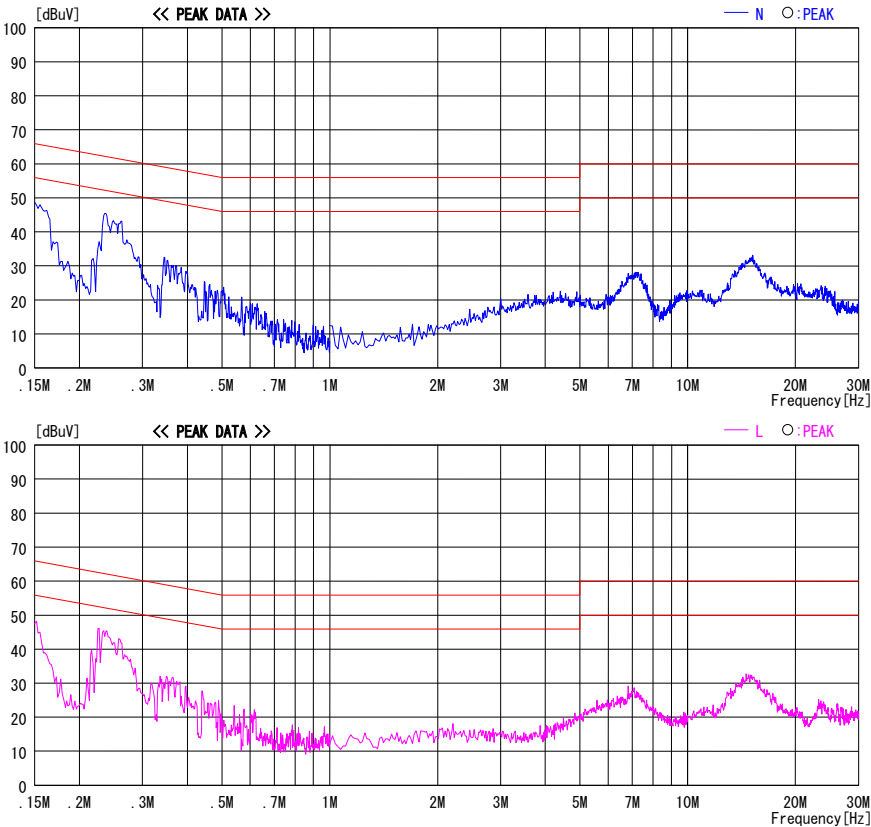


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C. F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2006/06/20 01:22:49

Applicant : silex technology, Inc

Kind of EUT : MiniPCI Wireless LAN Board

Model No. : SX-10WAG

Serial No. : 0080923A9A00

Report No. : 26GE0350-H0

Power : AC120V / 60Hz

Temp°C/Humi% : 25deg. C / 55%

Operator : Hiroka Umeyama

Mode / Remarks : 11a Rx 5765MHz

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210

FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

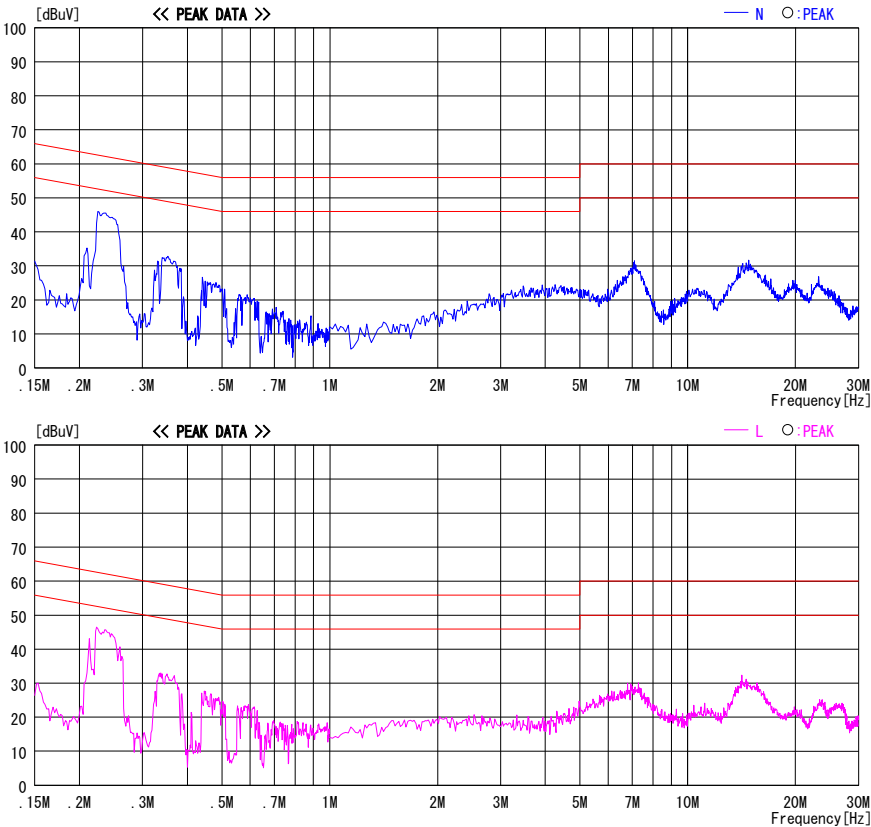


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C. F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

26dB Emission Bandwidth

UL Apex Co., Ltd.

Head Office EMC Lab. No.7 Measurement Room

Company : silex technology, Inc.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAG
Sample No. : ES0002 and 0080923A9A00
Power : DC3.3V
Mode : Tx IEEE 802.11a
Antenna : A
Rate : 54M/108M(Turbo mode)bps

REPORT NO : 26GE0351-HO
REGULATION : FCC15.407(a)(1)(2)
TEST DISTANCE : -
DATE : 05/17/2006 and 06/14/2006
TEMPERATURE : 23deg.C and 25deg.C
HUMIDITY : 62% and 54%
ENGINEER : Hiroka Umeyama

Ch	Freq. [MHz]	26dB Bandwidth [MHz]	Limit [MHz]
36	5180.0	23.500	-
48	5240.0	23.800	-
64	5320.0	24.800	-
149	5745.0	25.755	-
153	5765.0	27.893	-
161	5805.0	28.786	-
40 (Turbo mode)	5200.0	44.300	-
50 (Turbo mode)	5250.0	43.900	-
58 (Turbo mode)	5290.0	44.500	-

UL Apex Co., Ltd.

Head Office EMC Lab.

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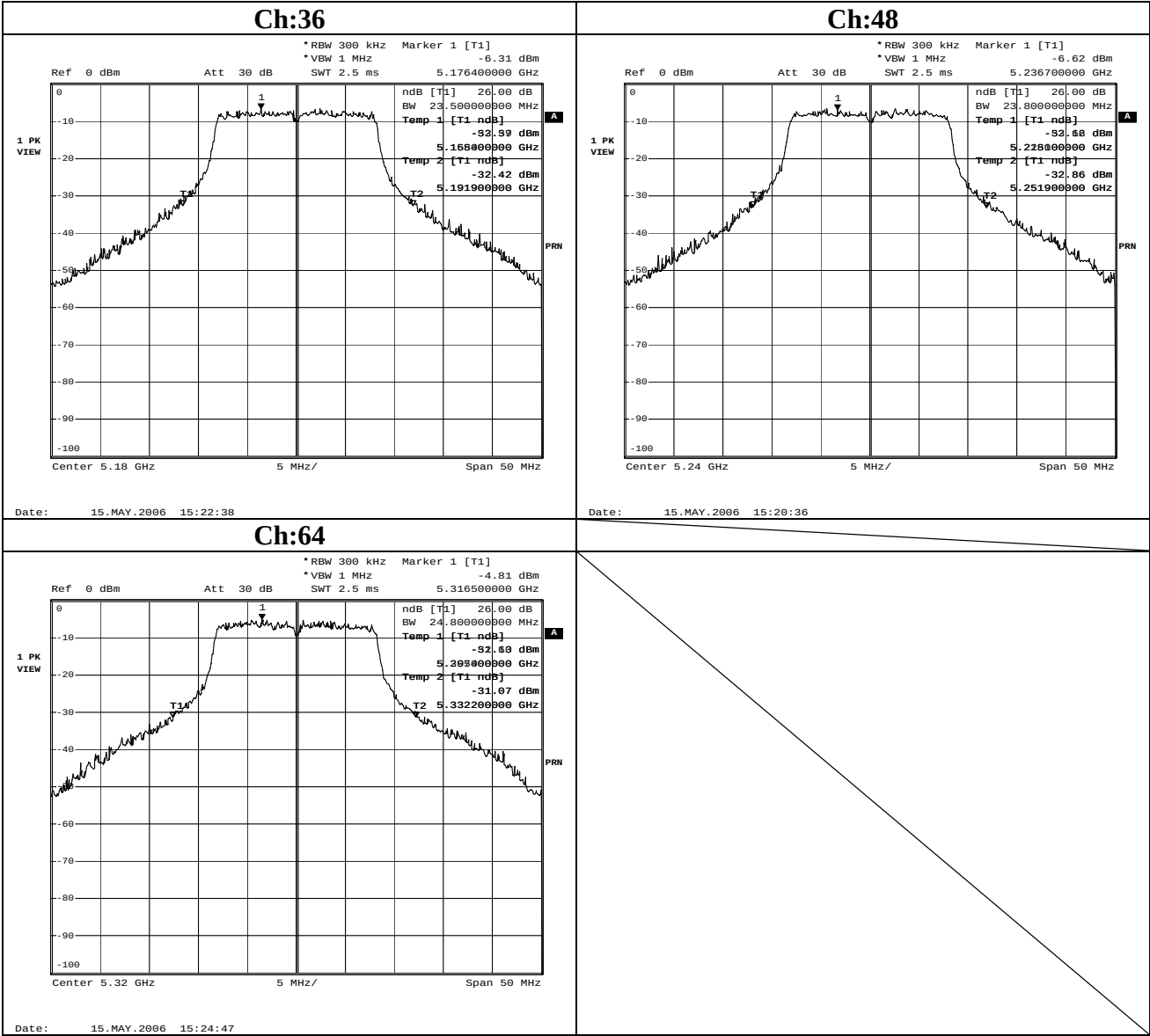
Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(14.06.06)

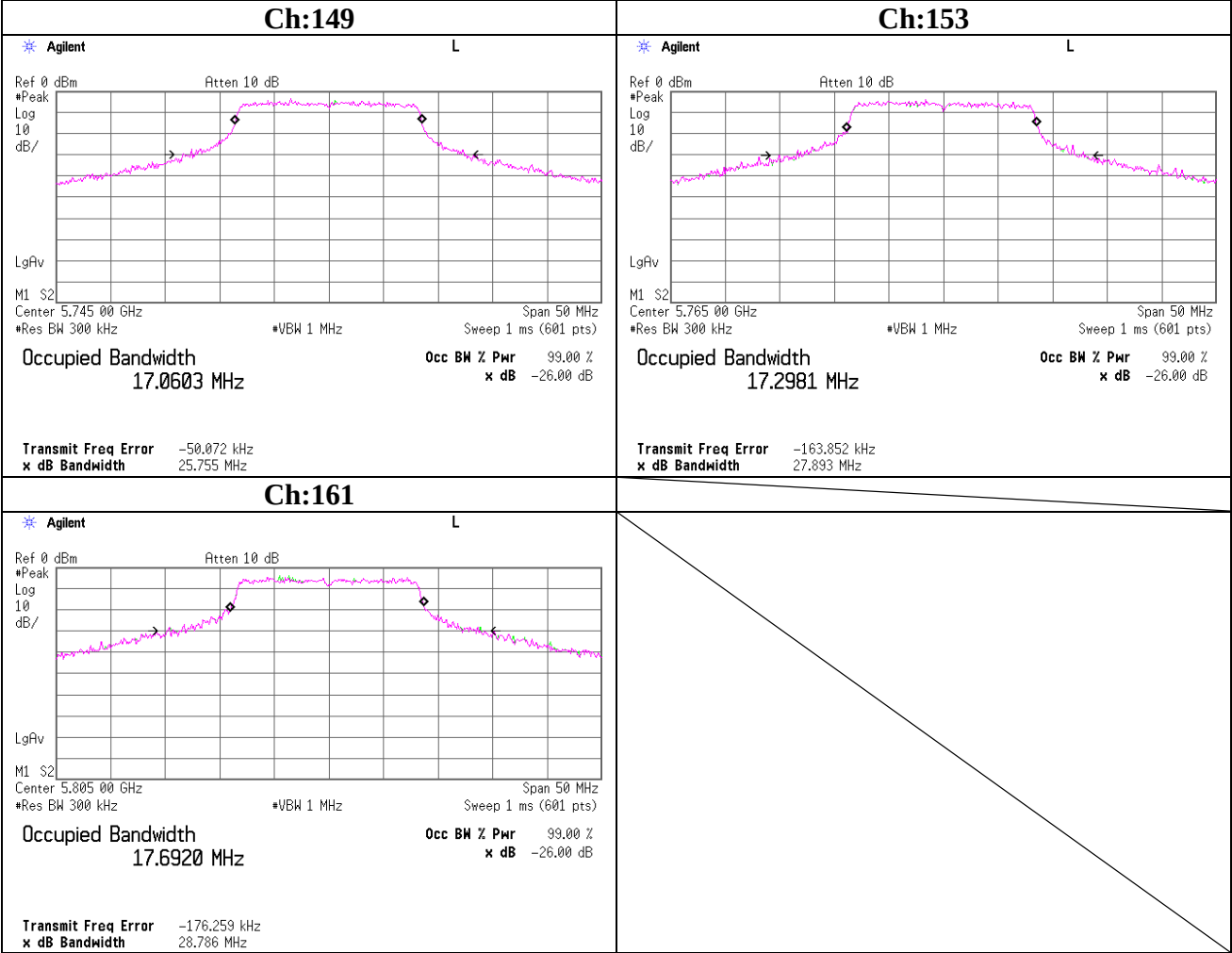
26dB Emission Bandwidth

54Mbps Antenna:A



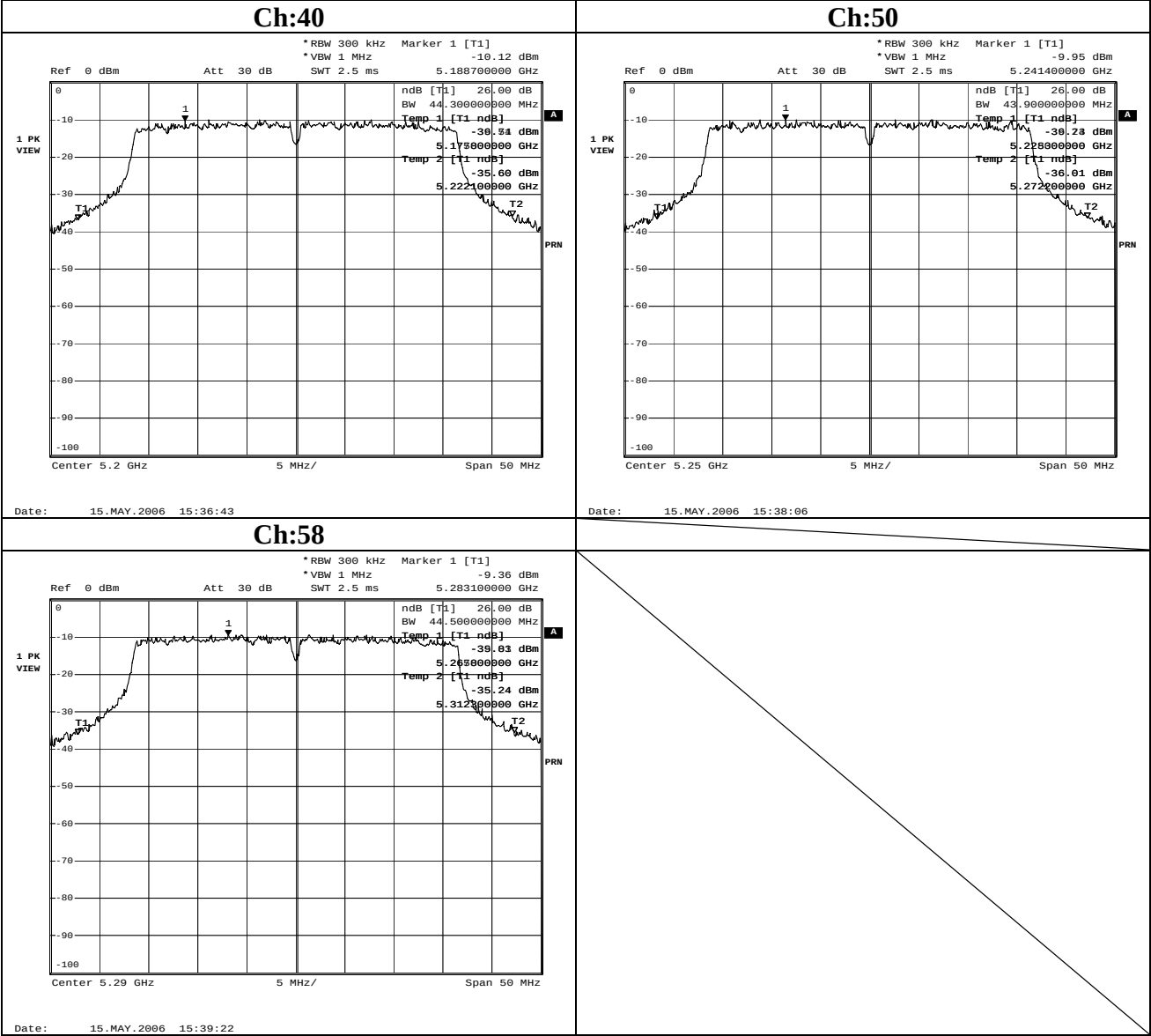
26dB Emission Bandwidth

54Mbps Antenna:A



26dB Emission Bandwidth

108Mbps(Turbo mode) Antenna:A



Peak Transmit Power

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

Company : silex technology, Inc.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAG
Sample No. : ES0002 and 0080923A9A00
Power : DC3.3V
Mode : Tx IEEE 802.11a
Antenna : A

REPORT NO : 26GE0351-HO
REGULATION : FCC15.407(a)(1)(2)(3)
TEST DISTANCE : -
DATE : 05/17/2006 and 06/14/2006
TEMPERATURE : 23deg.C and 25deg.C
HUMIDITY : 62% and 54%
ENGINEER : Hiroka Umeyama

ANT:A 54Mbps

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
36	5180.0	-1.46	4.10	10.00	12.64	17.00	4.36
48	5240.0	-1.81	4.10	10.00	12.29	17.00	4.71
64	5320.0	-1.65	4.10	10.00	12.45	24.00	11.55
149	5745.0	-0.50	4.10	10.00	13.60	30.00	16.40
153	5765.0	-0.67	4.10	10.00	13.43	30.00	16.57
161	5805.0	-0.72	4.10	10.00	13.38	30.00	16.62

ANT:A Turbo Mode 108Mbps

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
40	5200.0	-4.51	4.10	10.00	9.59	17.00	7.41
50	5250.0	-3.90	4.10	10.00	10.20	17.00	6.80
58	5290.0	-2.30	4.10	10.00	11.80	24.00	12.20

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

*Result is calculated to two places of decimals. Therefore, there may be 0.1 difference for the result.

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

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MF060b(14.06.06)

Peak Transmit Power

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

Company	: silex technology, Inc.	REPORT NO	: 26GE0351-HO
Equipment	: MiniPCI Wireless LAN Board	REGULATION	: FCC15.407(a)(1)(2)(3)
Model	: SX-10WAG	TEST DISTANCE	: -
Sample No.	: ES0002 and 0080923A9A00	DATE	: 05/17/2006 and 06/14/2006
Power	: DC3.3V	TEMPERATURE	: 23deg.C and 25deg.C
Mode	: Tx IEEE 802.11a	HUMIDITY	: 62% and 54%
Antenna	: B	ENGINEER	: Hiroka Umeyama

ANT:B 54Mbps

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
36	5180.0	-1.66	4.10	10.00	12.44	17.00	4.56
48	5240.0	-1.84	4.10	10.00	12.26	17.00	4.74
64	5320.0	-2.51	4.10	10.00	11.59	24.00	12.41
149	5745.0	-0.67	4.10	10.00	13.43	30.00	16.57
153	5765.0	-0.76	4.10	10.00	13.34	30.00	16.66
161	5805.0	-0.74	4.10	10.00	13.36	30.00	16.64

ANT:B Turbo Mode 108Mbps

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
40	5200.0	-3.27	4.10	10.00	10.83	17.00	6.17
50	5250.0	-3.23	4.10	10.00	10.87	17.00	6.13
58	5290.0	-2.75	4.10	10.00	11.35	24.00	12.65

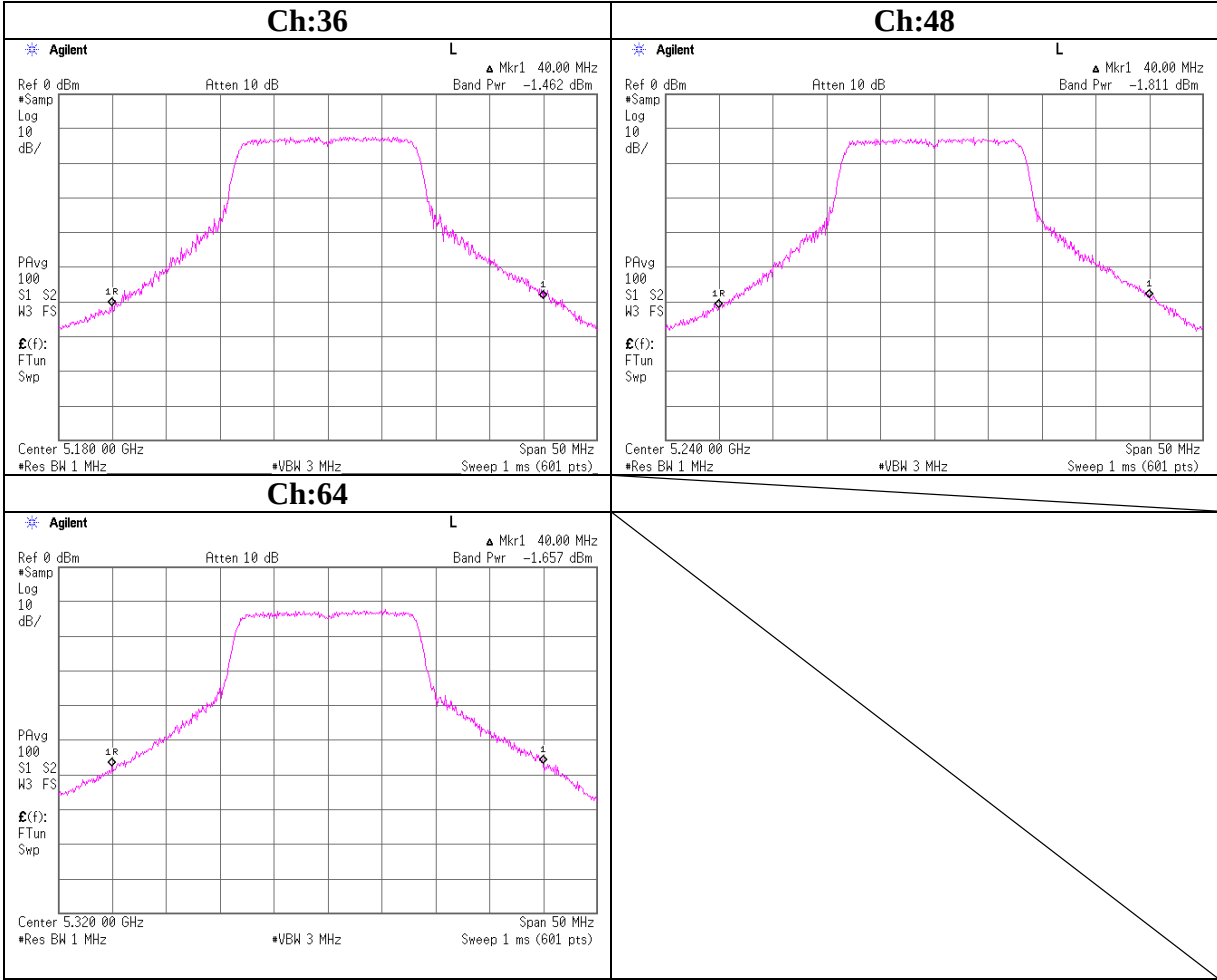
Sample Calculation:

Result = Reading + Cable Loss + Attenuator

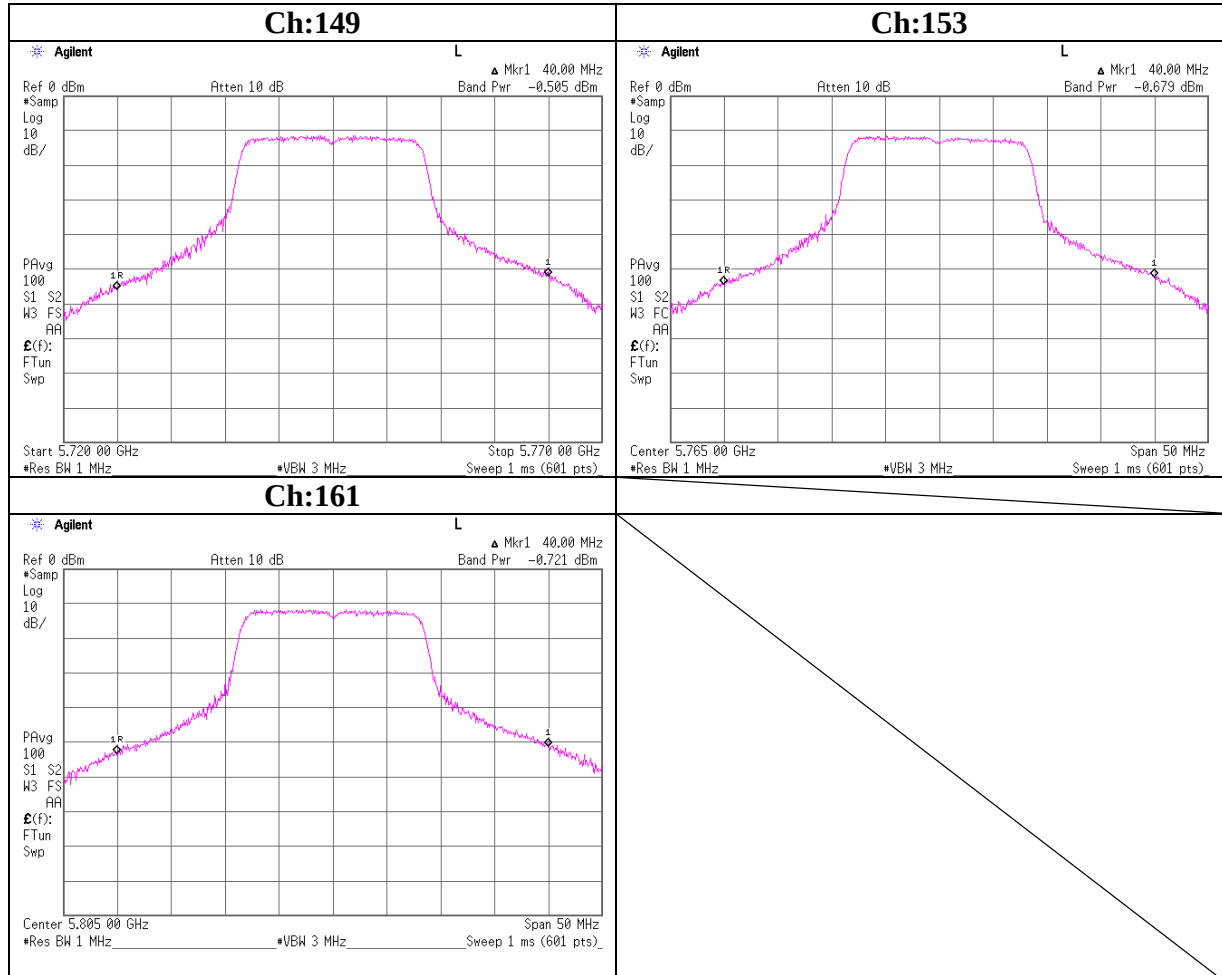
*Result is calculated to two places of decimals. Therefore, there may be 0.1 difference for the result.

Peak Transmit Power

ANT:A, 54Mbps

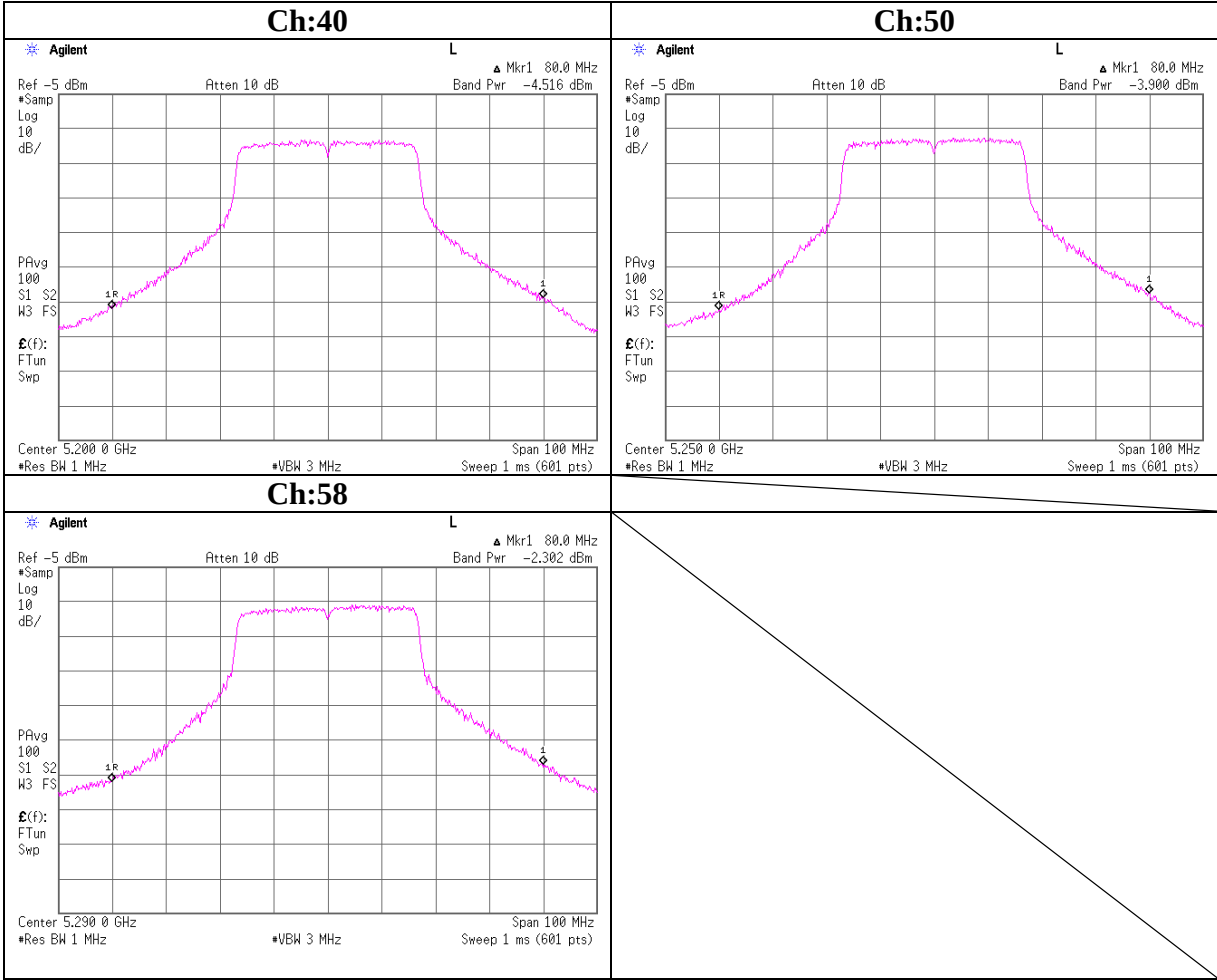


Peak Transmit Power
ANT:A, 54Mbps

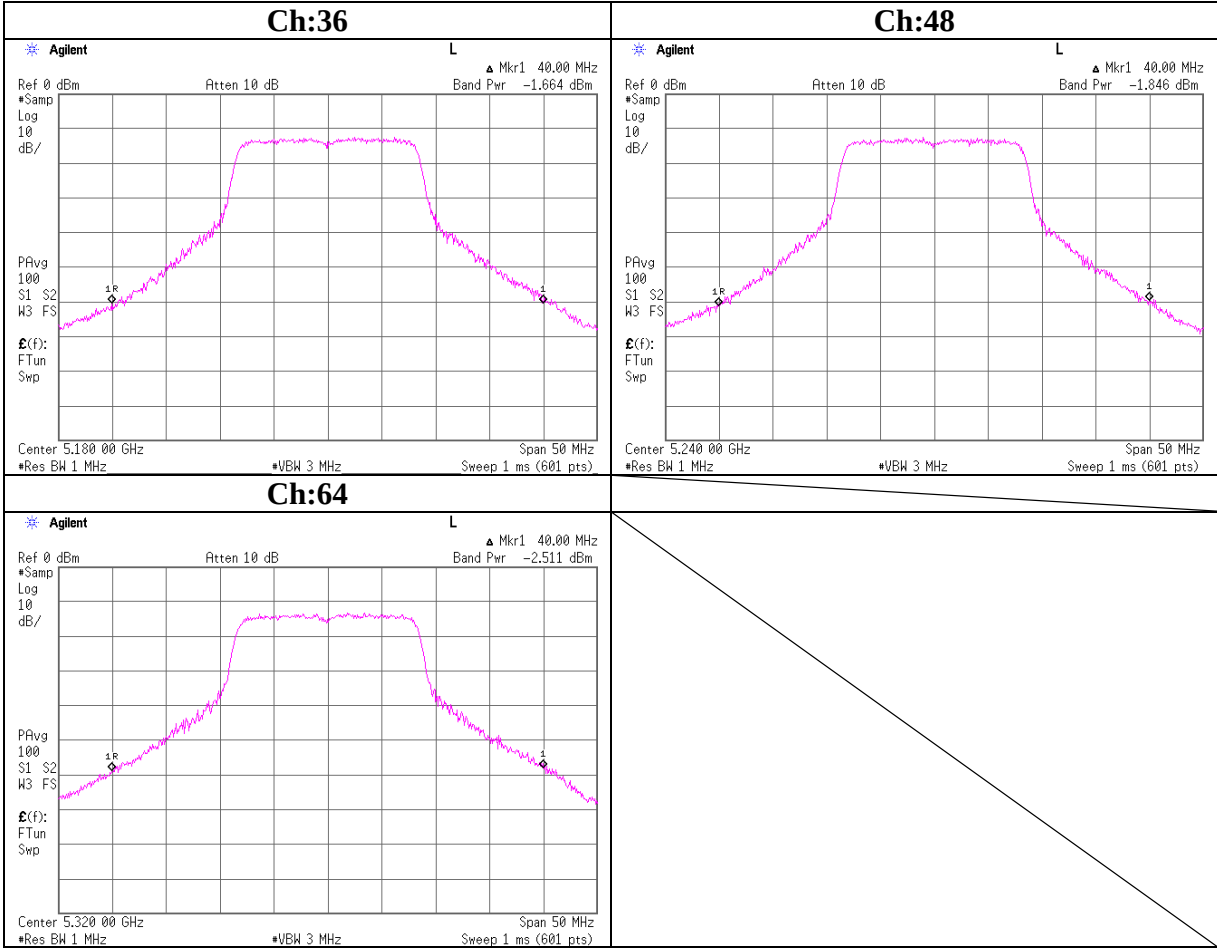


Peak Transmit Power

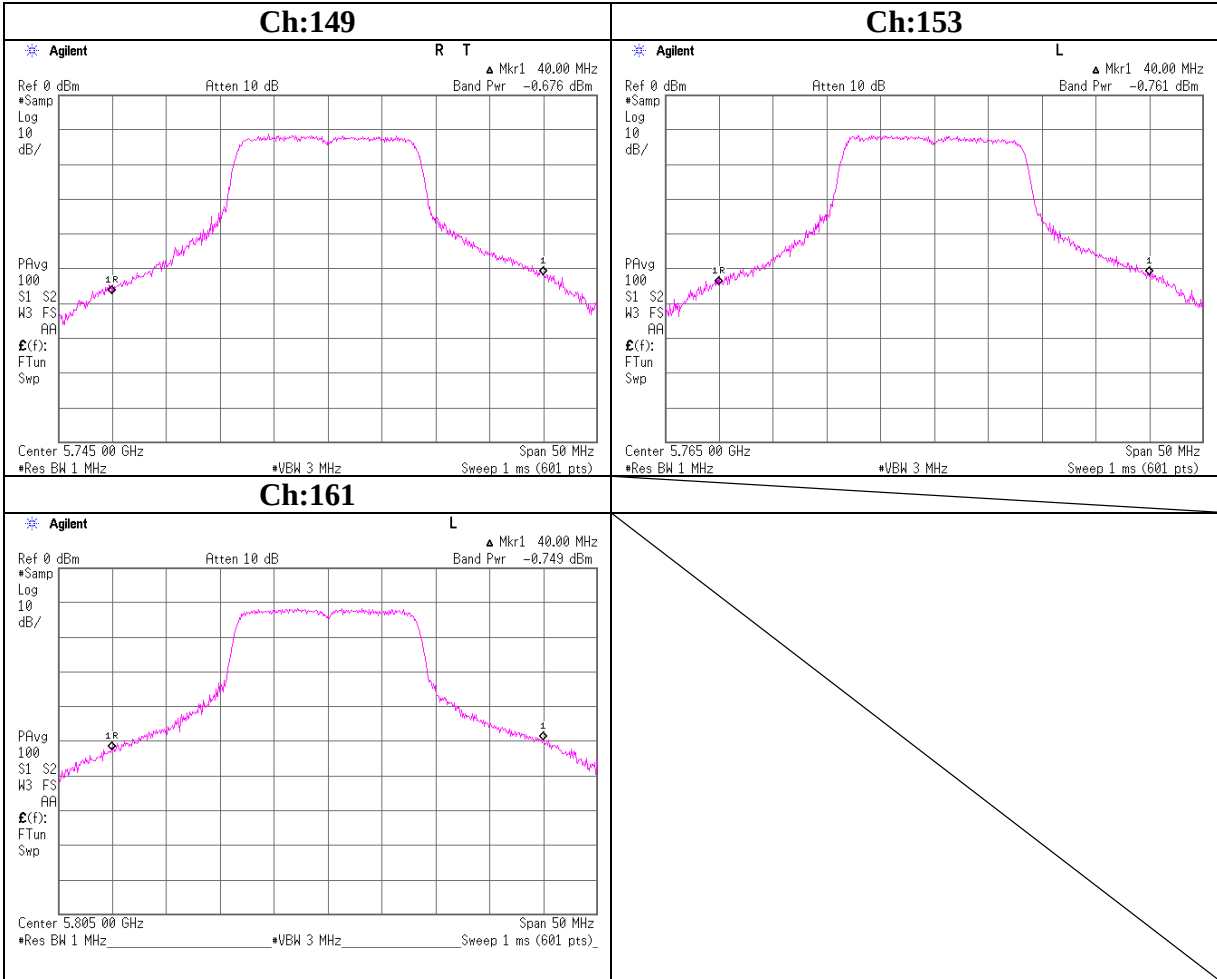
ANT:A, Turbo Mode 108Mbps



Peak Transmit Power
ANT:B, 54Mbps

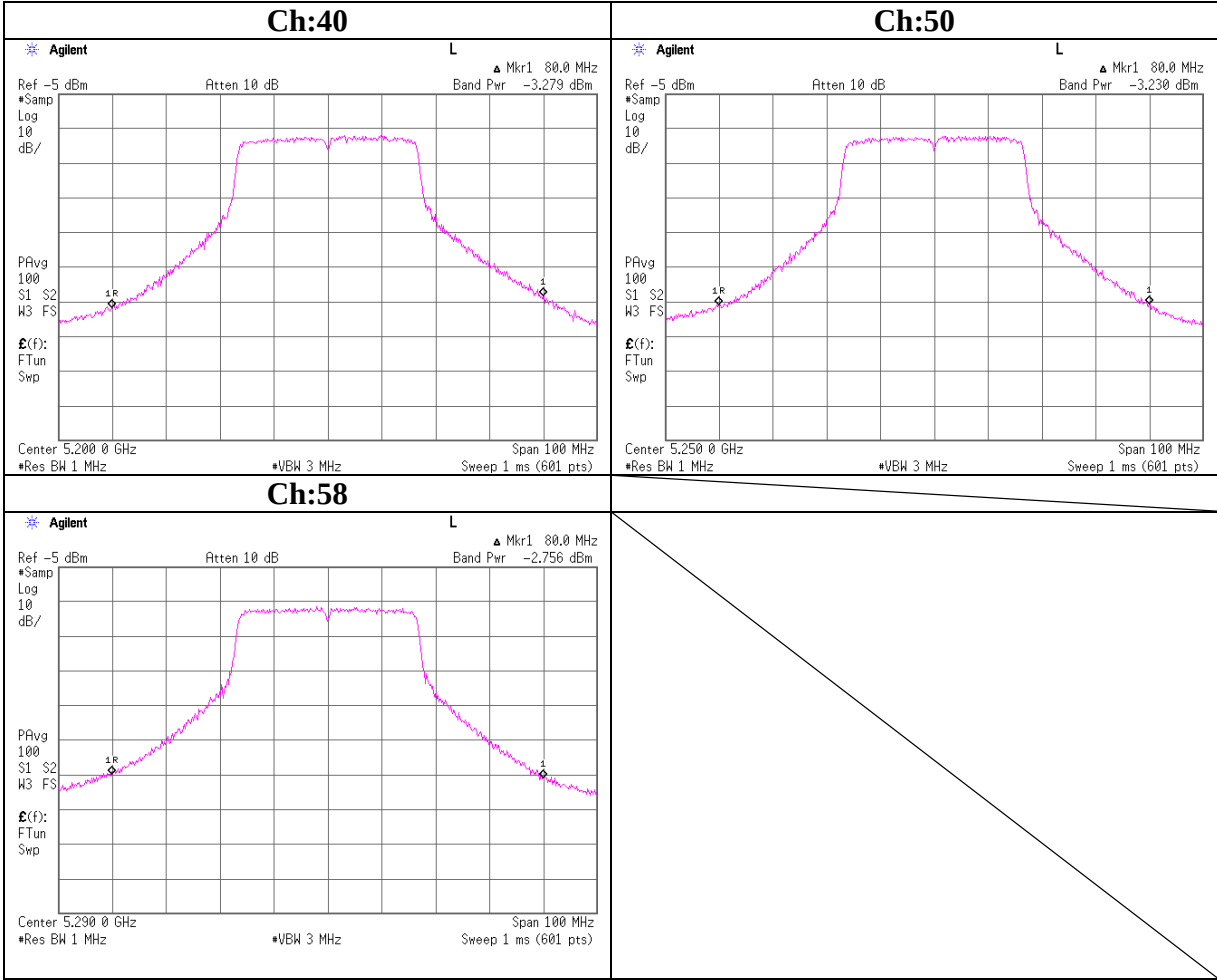


Peak Transmit Power
ANT:B, 54Mbps



Peak Transmit Power

ANT:B, Turbo Mode 108Mbps



Radiated Spurious Emission (below 1GHz)

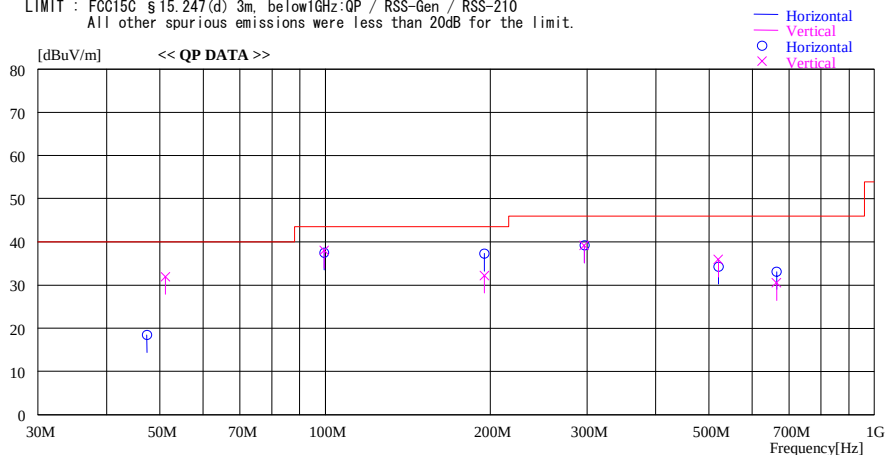
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2006/05/11 10:53:45

Company : silex technology, Inc. Report No. : 26GE0351-HO
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V
Model No. : SX-10WAG Temp./Humi. : 23deg.C. / 70%
Serial No. : ES0002 Operator : Hiroka, Umeyama

Mode / Remarks : Transmitting 11a/54Mbps/5180MHz/Tx99/PN9/MAX-Axis:X (HOR), Y (VER)

LIMIT : FCC15C §15.247(d) 3m, below1GHz:QP / RSS-Gen / RSS-210
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Gain [dB]						
47.400	27.3	QP	11.4	-20.3	18.4	250	280	Hori.	40.0	21.6
51.220	41.8	QP	10.3	-20.2	31.9	23	100	Vert.	40.0	8.1
99.670	46.3	QP	10.4	-19.2	37.5	0	400	Hori.	43.5	6.0
99.670	46.8	QP	10.4	-19.2	38.0	0	100	Vert.	43.5	5.5
195.090	32.9	QP	17.0	-17.7	32.2	0	100	Vert.	43.5	11.3
195.090	38.0	QP	17.0	-17.7	37.3	0	185	Hori.	43.5	6.2
296.450	35.5	QP	20.3	-16.6	39.2	145	300	Hori.	46.0	6.8
296.450	35.5	QP	20.3	-16.6	39.2	140	230	Vert.	46.0	6.8
520.230	34.2	QP	18.1	-16.4	35.9	354	100	Vert.	46.0	10.1
520.230	32.6	QP	18.1	-16.4	34.3	100	170	Hori.	46.0	11.7
664.080	28.6	QP	20.0	-15.5	33.1	120	263	Hori.	46.0	12.9
664.080	26.0	QP	20.0	-15.5	30.5	37	100	Vert.	46.0	15.5

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

Radiated Spurious Emission (below 1GHz)

DATA OF RADIATED EMISSION TEST

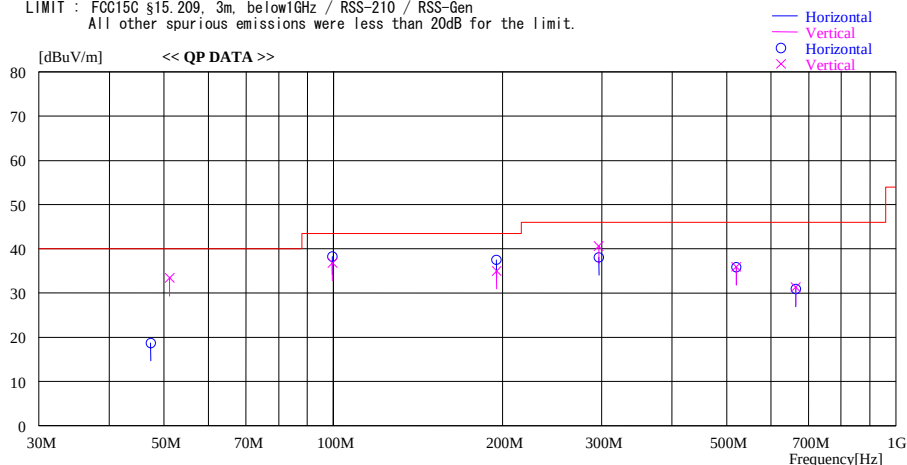
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2006/05/11 10:53:45

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN Board
Model No. : SX-10WAG
Serial No. : ES0002

Report No. : 26GE0351-HO
Power : DC3.3V
Temp./Humi. : 23deg. C. / 70%
Operator : Hiroka. Umeyama

Mode / Remarks : Transmitting 11a/54Mbps/5240MHz/Tx99/PN9/MAX-Axis:X (HOR), Y (VER)

LIMIT : FCC15C §15.209, 3m, below1GHz / RSS-210 / RSS-Gen
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin
			Factor	Gain						
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
47.400	27.6	QP	11.4	-20.3	18.7	250	280	Hori.	40.0	21.3
51.220	43.3	QP	10.3	-20.2	33.4	23	100	Vert.	40.0	6.6
99.670	47.0	QP	10.4	-19.2	38.2	0	400	Hori.	43.5	5.3
99.670	45.6	QP	10.4	-19.2	36.8	0	100	Vert.	43.5	6.7
195.090	35.7	QP	17.0	-17.7	35.0	0	100	Vert.	43.5	8.5
195.090	38.2	QP	17.0	-17.7	37.5	0	185	Hori.	43.5	6.0
296.450	34.4	QP	20.3	-16.6	38.1	145	300	Hori.	46.0	7.9
296.450	36.9	QP	20.3	-16.6	40.6	140	230	Vert.	46.0	5.4
520.230	34.2	QP	18.1	-16.4	35.9	354	100	Vert.	46.0	10.1
520.230	34.2	QP	18.1	-16.4	35.9	100	170	Hori.	46.0	10.1
664.080	26.5	QP	20.0	-15.5	31.0	120	263	Hori.	46.0	15.0
664.080	26.8	QP	20.0	-15.5	31.3	37	100	Vert.	46.0	14.7

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

Radiated Spurious Emission (below 1GHz)

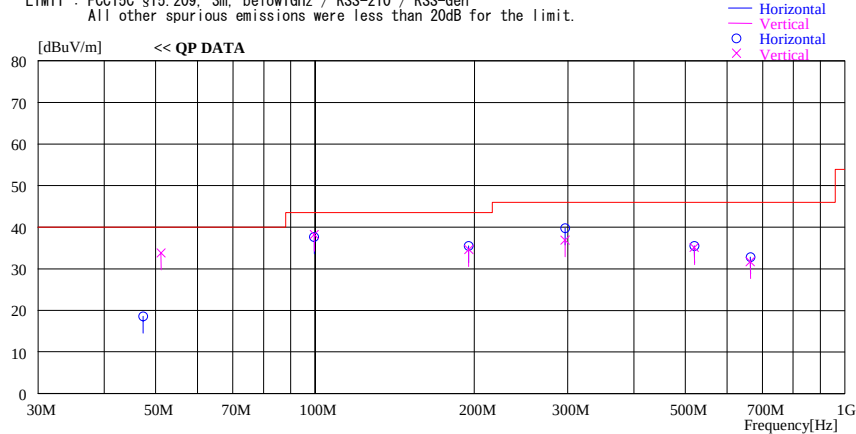
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2006/05/11 10:53:45

Company : silex technology, Inc. Report No. : 26GE0351-H0
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V
Model No. : SX-10WAG Temp./Humi. : 23deg.C. / 70%
Serial No. : ES0002 Operator : Hiroka.Umeyama

Mode / Remarks : Transmitting 11a/54Mbps/5320MHz/Tx99/PN9/MAX-Axis:X(HOR),Y(VER)

LIMIT : FCC15C §15.209, 3m, below1GHz / RSS-210 / RSS-Gen
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna		Level	Angle	Height	Polar.	Limit	Margin
			Factor	Loss& Gain						
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
47.400	27.5	QP	11.4	-20.3	18.6	250	280	Hori.	40.0	21.4
51.220	43.7	QP	10.3	-20.2	33.8	23	100	Vert.	40.0	6.2
99.670	46.5	QP	10.4	-19.2	37.7	0	400	Hori.	43.5	5.8
99.670	47.0	QP	10.4	-19.2	38.2	0	100	Vert.	43.5	5.3
195.090	35.3	QP	17.0	-17.7	34.6	0	100	Vert.	43.5	8.9
195.090	36.2	QP	17.0	-17.7	35.5	0	185	Hori.	43.5	8.0
296.450	36.1	QP	20.3	-16.6	39.8	145	300	Hori.	46.0	6.2
296.450	33.2	QP	20.3	-16.6	36.9	140	230	Vert.	46.0	9.1
520.230	33.4	QP	18.1	-16.4	35.1	354	100	Vert.	46.0	10.9
520.230	33.8	QP	18.1	-16.4	35.5	100	170	Hori.	46.0	10.5
664.080	28.3	QP	20.0	-15.5	32.8	120	263	Hori.	46.0	13.2
664.080	27.2	QP	20.0	-15.5	31.7	37	100	Vert.	46.0	14.3

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

Radiated Spurious Emission (below 1GHz)

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2006/05/11 10:53:45

Company : silex technology, Inc.

Kind of EUT : MiniPCI Wireless LAN Board

Model No. : SX-10WAG

Serial No. : ES0002

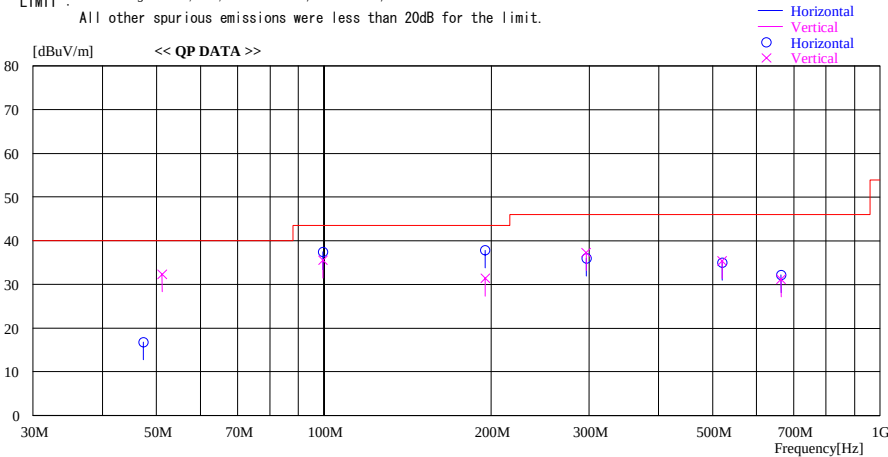
Report No. : 26GE0351-HO

Power : DC3.3V

Temp./Humi. : 23deg. C. / 70%

Operator : Hiroka, Umeyama

Mode / Remarks : Receiving 11a/54Mbps/5240MHz/MAX-Axis:X (HOR),Y (VER)
LIMIT : FCC15C §15.209, 3m, below1GHz / RSS-Gen / RSS-210
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin
			Factor	Gain						
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
47.400	25.7	QP	11.4	-20.3	16.8	250	280	Hori.	40.0	23.2
51.220	42.2	QP	10.3	-20.2	32.3	23	100	Vert.	40.0	7.7
99.670	46.2	QP	10.4	-19.2	37.4	0	400	Hori.	43.5	6.1
99.670	44.3	QP	10.4	-19.2	35.5	0	100	Vert.	43.5	8.0
195.090	32.1	QP	17.0	-17.7	31.4	0	100	Vert.	43.5	12.1
195.090	38.5	QP	17.0	-17.7	37.8	0	185	Hori.	43.5	5.7
296.450	32.3	QP	20.3	-16.6	36.0	145	300	Hori.	46.0	10.0
296.450	33.6	QP	20.3	-16.6	37.3	140	230	Vert.	46.0	8.7
520.230	33.7	QP	18.1	-16.4	35.4	354	100	Vert.	46.0	10.6
520.230	33.3	QP	18.1	-16.4	35.0	100	170	Hori.	46.0	11.0
664.080	27.7	QP	20.0	-15.5	32.2	120	263	Hori.	46.0	13.8
664.080	26.7	QP	20.0	-15.5	31.2	37	100	Vert.	46.0	14.8

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

Radiated Spurious Emission (below 1GHz)

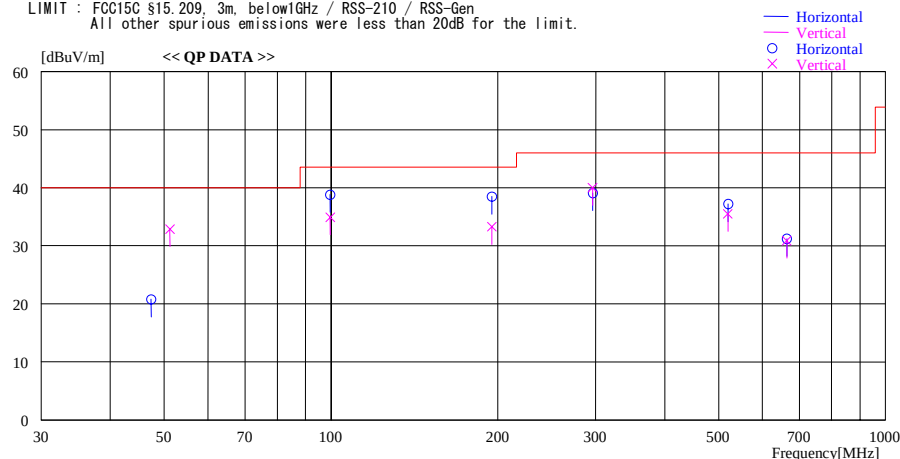
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2006/05/11 10:53:45

Company : silex technology, Inc. Report No. : 26GE0351-HO
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V
Model No. : SX-10WAG Temp./Humi. : 25deg.C. / 60%
Serial No. : 0080923A9A00 Operator : Hiroka. Umeyama

Mode / Remarks : Transmitting 11a/54Mbps/5745MHz/Tx99/PN9/MAX-Axis:X (HOR), Y (VER)

LIMIT : FCC15C §15.209, 3m, below1GHz / RSS-210 / RSS-Gen
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna		Level	Angle	Height	Polar.	Limit	Margin
			Factor	Loss& Gain					[dBuV/m]	[dB]
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]			
47.400	29.5	QP	11.4	-20.1	20.8	250	280	Hori.	40.0	19.2
51.220	42.6	QP	10.3	-20.0	32.9	23	100	Vert.	40.0	7.1
99.670	47.5	QP	10.4	-19.1	38.8	0	400	Hori.	43.5	4.7
99.670	43.6	QP	10.4	-19.1	34.9	0	100	Vert.	43.5	8.6
195.090	34.0	QP	17.0	-17.7	33.3	0	100	Vert.	43.5	10.2
195.090	39.2	QP	17.0	-17.7	38.5	0	185	Hori.	43.5	5.0
296.450	35.6	QP	20.3	-16.8	39.1	145	300	Hori.	46.0	6.9
296.450	36.5	QP	20.3	-16.8	40.0	140	230	Vert.	46.0	6.0
520.230	33.9	QP	18.1	-16.5	35.5	354	100	Vert.	46.0	10.5
520.230	35.6	QP	18.1	-16.5	37.2	100	170	Hori.	46.0	8.8
664.080	26.9	QP	20.0	-15.7	31.2	120	263	Hori.	46.0	14.8
664.080	26.6	QP	20.0	-15.7	30.9	37	100	Vert.	46.0	15.1

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

Radiated Spurious Emission (below 1GHz)

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2006/05/11 10:53:45

Company : silex technology, Inc. Report No. : 26GE0351-H0
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3. 3V
Model No. : SX-10WAG Temp./Humi. : 25deg. C. / 60%
Serial No. : 0080923A9A00 Operator : Hiroka. Uneyama

Mode / Remarks : Transmitting 11a/54Mbps/5765MHz/Tx99/PN9/MAX-Axis:X(HOR).Y(VER)

LIMIT : FCC15C §15. 209, 3m, below1GHz / RSS-210 / RSS-Gen
All other spurious emissions were less than 20dB for the limit.

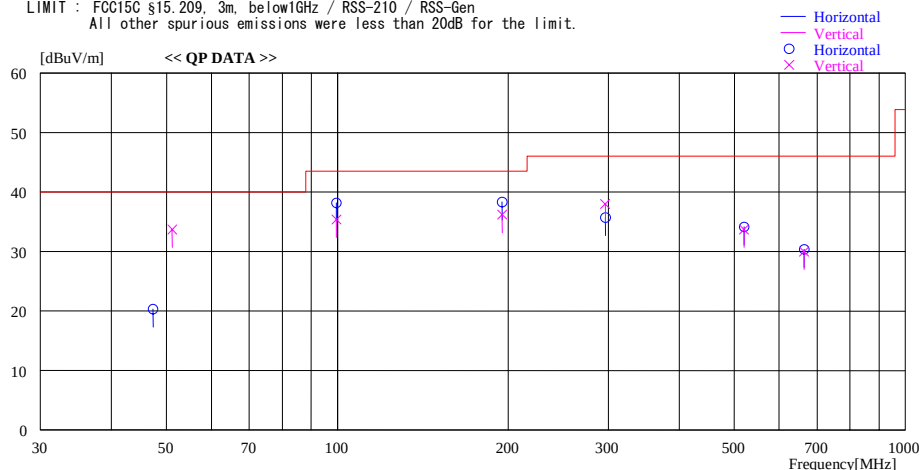


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

Radiated Spurious Emission (below 1GHz)

DATA OF RADIATED EMISSION TEST

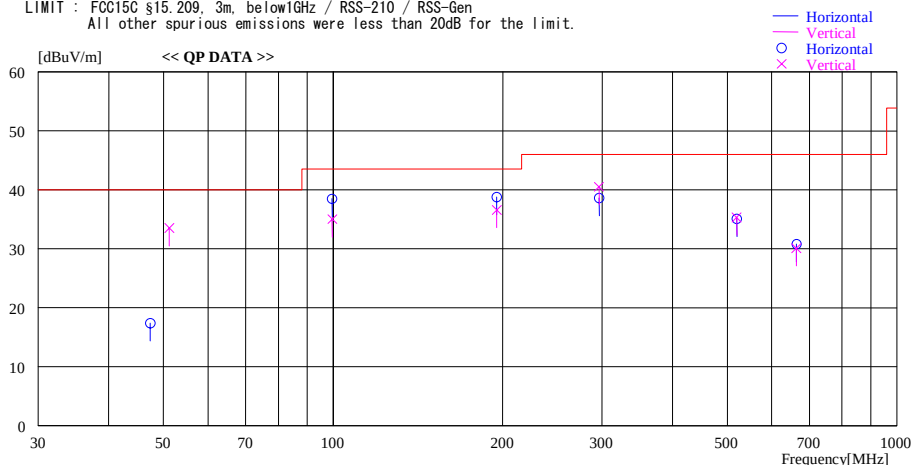
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2006/05/11 10:53:45

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN Board
Model No. : SX-10WAG
Serial No. : 0080923A9A00

Report No. : 26GE0351-H0
Power : DC3.3V
Temp./Humi. : 25deg. C. / 60%
Operator : Hiroka. Uneyama

Mode / Remarks : Transmitting 11a/54Mbps/5805MHz/Tx99/PN9/MAX-Axis:X (HOR), Y (VER)

LIMIT : FCC15C §15.209, 3m, below 1GHz / RSS-210 / RSS-Gen
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss & Gain	Level	Angle	Height	Polar.	Limit	Margin
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
47.400	26.1	QP	11.4	-20.1	17.4	250	280	Hori.	40.0	22.6
51.220	43.2	QP	10.3	-20.0	33.5	23	100	Vert.	40.0	6.5
99.670	47.2	QP	10.4	-19.1	38.5	0	400	Hori.	43.5	5.0
99.670	43.7	QP	10.4	-19.1	35.0	0	100	Vert.	43.5	8.5
195.090	37.3	QP	17.0	-17.7	36.6	0	100	Vert.	43.5	6.9
195.090	39.5	QP	17.0	-17.7	38.8	0	185	Hori.	43.5	4.7
296.450	35.1	QP	20.3	-16.8	38.6	145	300	Hori.	46.0	7.4
296.450	37.0	QP	20.3	-16.8	40.5	140	230	Vert.	46.0	5.5
520.230	33.7	QP	18.1	-16.5	35.3	354	100	Vert.	46.0	10.7
520.230	33.5	QP	18.1	-16.5	35.1	100	170	Hori.	46.0	10.9
664.080	26.5	QP	20.0	-15.7	30.8	120	263	Hori.	46.0	15.2
664.080	25.8	QP	20.0	-15.7	30.1	37	100	Vert.	46.0	15.9

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

Radiated Spurious Emission (below 1GHz)

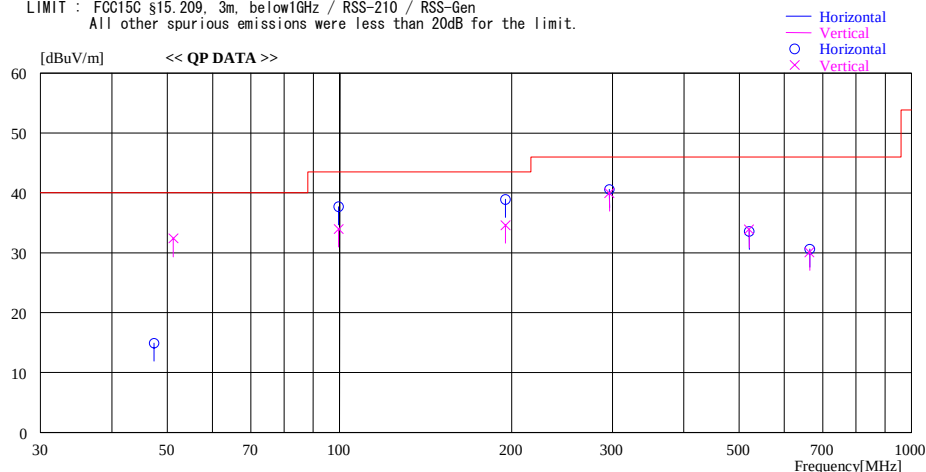
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2006/05/11 10:53:45

Company : silex technology, Inc. Report No. : 26GE0351-H0
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V
Model No. : SX-10WAG Temp./Humi. : 25deg. C. / 60%
Serial No. : 0080923A9A00 Operator : Hiroka. Umeyama

Mode / Remarks : Receiving 11a/54Mbps/5765MHz//MAX-Axis:X (HOR), Y (VER)

LIMIT : FCC15C §15.209, 3m, below 1GHz / RSS-210 / RSS-Gen
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin
			Factor	Gain						
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
47.400	23.6	QP	11.4	-20.1	14.9	250	280	Hori.	40.0	25.1
51.220	42.1	QP	10.3	-20.0	32.4	23	100	Vert.	40.0	7.6
99.670	46.4	QP	10.4	-19.1	37.7	0	400	Hori.	43.5	5.8
99.670	42.7	QP	10.4	-19.1	34.0	0	100	Vert.	43.5	9.5
195.090	35.3	QP	17.0	-17.7	34.6	0	100	Vert.	43.5	8.9
195.090	39.6	QP	17.0	-17.7	38.9	0	185	Hori.	43.5	4.6
296.450	37.1	QP	20.3	-16.8	40.6	145	300	Hori.	46.0	5.4
296.450	36.5	QP	20.3	-16.8	40.0	140	230	Vert.	46.0	6.0
520.230	32.3	QP	18.1	-16.5	33.9	354	100	Vert.	46.0	12.1
520.230	32.0	QP	18.1	-16.5	33.6	100	170	Hori.	46.0	12.4
664.080	26.3	QP	20.0	-15.7	30.6	120	263	Hori.	46.0	15.4
664.080	25.8	QP	20.0	-15.7	30.1	37	100	Vert.	46.0	15.9

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

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 and 4 Semi Anechoic Chamber

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL : SX-10WAG
SAMPLE NO. : ES0002
POWER : DC3.3V
MODE : Transmitting (11a / 54Mbps / CH34: 5180MHz)

REGULATION : Fcc Part15 Subpart C 15.209
TEST DISTANCE : 3m / 1m
DATE : 04/27/2006 : 05/17/2006
TEMPERATURE : 21deg.C : 22deg.C
HUMIDITY : 39% : 42%
ENGINEER : Hiroka Umeyama : Hiroka Umeyama

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

No.	Freq. [MHz]	Reading [dBuV]		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result [dBuV/m]		Limit PK [dBuV/m]	Margin [dB]	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	3454.0	52.2	53.3	33.4	36.4	2.8	0.0	52.0	53.1	74.0	22.0	20.9
2	6909.6	42.7	47.2	41.9	35.9	4.2	0.0	52.9	57.4	74.0	21.1	16.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
3	15540.0	55.2	60.0	49.1	35.3	6.5	0.7	66.7	71.5	74.0	7.3	2.5
4	20720.0	59.3	58.2	39.4	30.8	7.1	0.0	65.5	64.4	74.0	8.5	9.6

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

No.	Freq. [MHz]	Reading [dBuV]		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result [dBuV/m]		Limit AV [dBuV/m]	Margin [dB]	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	3454.0	48.9	50.6	33.4	36.4	2.8	0.0	48.7	50.4	54.0	5.3	3.6
2	6909.6	29.8	40.4	41.9	35.9	4.2	0.0	40.0	50.6	54.0	14.0	3.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
3	15540.0	40.8	42.0	49.1	35.3	6.5	0.7	52.3	53.5	54.0	1.7	0.5
4	20720.0	41.1	41.8	39.4	30.8	7.1	0.0	47.3	48.0	54.0	6.7	6.0

- *1) Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3/1.0) = 9.54$ dB
- *2) Except for the above table : All other spurious emissions were less than 20dB for the limit.
- *3) In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
- *4) The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL : SX-10WAG
SAMPLE NO. : ES0002
POWER : DC3.3V
MODE : Transmitting (11a / 54Mbps / CH48: 5240MHz)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 and 4 Semi Anechoic Chamber
REGULATION : Fcc Part15 Subpart C 15.209
TEST DISTANCE : 3/1/0.5m
DATE : 04/27/2006 : 05/17/2006
TEMPERATURE : 21deg.C : 22deg.C
HUMIDITY : 39% : 42%
ENGINEER : Hiroka Umeyama : Hiroka Umeyama

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

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit PK [dBuV/m]	Margin	
		HOR	VER					HOR	VER		HOR	VER
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	15720.0	51.9	59.9	49.0	35.7	6.5	0.5	62.7	70.7	74.0	11.3	3.3
2	20960.0	59.0	57.2	39.4	30.8	7.1	0.0	65.2	63.4	74.0	8.8	10.6
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
3	31440.0	39.8	39.9	45.1	25.1	12.7	0.0	56.9	57.0	74.0	17.1	17.0

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

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit AV [dBuV/m]	Margin	
		HOR	VER					HOR	VER		HOR	VER
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	15720.0	31.4	42.5	49.0	35.7	6.5	0.5	42.2	53.3	54.0	11.8	0.7
2	20960.0	45.4	44.7	39.4	30.8	7.1	0.0	51.6	50.9	54.0	2.4	3.1
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
3	31440.0	26.5	26.5	45.1	25.1	12.7	0.0	43.6	43.6	54.0	10.4	10.4

- *1) Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3/1.0) = 9.54 \text{ dB}$
*2) Test Distance 0.5m : Distance Factor(Dfac) = $20\log(3/0.5) = 15.56 \text{ dB}$
*3) Except for the above table : All other spurious emissions were less than 20dB for the limit.
*4) In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*5) The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 and 4 Semi Anechoic Chamber

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL : SX-10WAG
SAMPLE NO. : ES0002
POWER : DC3.3V
MODE : Transmitting (11a / 54Mbps / CH64: 5320MHz)
PK DETECT (RBW: 1MHz, VBW:1MHz)

REGULATION : Fcc Part15 Subpart C 15.209
TEST DISTANCE : 3m / 1m
DATE : 04/27/2006 : 05/17/2006
TEMPERATURE : 21deg.C : 22deg.C
HUMIDITY : 39% : 42%
ENGINEER : Hiroka Umeyama : Hiroka Umeyama

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit PK [dBuV/m]	Margin	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	[dB]
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
2	10640.0	57.4	60.3	36.6	31.9	7.3	0.9	60.8	63.7	74.0	13.2	10.3
3	15960.0	53.6	56.8	48.8	36.2	6.5	0.3	63.5	66.7	74.0	10.5	7.3
4	21280.0	57.6	56.1	39.2	30.5	6.7	0.0	63.5	62.0	74.0	10.5	12.0

AV DETECT (RBW: 1MHz, VBW:10Hz)												
No.	Freq. [MHz]	Reading		Ant. Factor [dBr/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit AV [dBrV/m]	Margin	
		HOR	VER					HOR	VER		HOR	VER
		[dBrV]	[dBrV]					[dBrV/m]	[dBrV/m]		[dB]	[dB]
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
2	10640.0	44.2	45.3	46.1	36.1	5.3	0.9	50.9	52.0	54.0	3.1	2.0
3	15960.0	39.1	42.9	48.8	36.2	6.5	0.3	49.0	52.8	54.0	5.0	1.2
4	21280.0	44.2	42.9	39.5	30.5	7.3	0.0	51.0	49.7	54.0	3.0	4.3

- *1) Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3/1.0)$ = 9.54 dB
- *2) Except for the above table : All other spurious emissions were less than 20dB for the limit.
- *3) In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
- *4) The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 and 4 Semi Anechoic Chamber

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL : SX-10WAG
SAMPLE NO. : ES0002
POWER : DC3.3V
MODE : Receiving (11a / 54Mbps / CH48: 5240MHz)

REGULATION : Fcc Part15 Subpart B / RSS-210 / RSS-Gen
TEST DISTANCE : 3/1/0.5m
DATE : 04/27/2006 : 05/17/2006
TEMPERATURE : 21deg.C : 22deg.C
HUMIDITY : 39% : 42%
ENGINEER : Hiroka Umeyama : Hiroka Umeyama

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

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit PK [dBuV/m]	Margin	
		HOR	VER					HOR	VER		HOR	VER
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	31440.0	39.6	39.7	45.1	25.1	12.7		56.7	56.8	74.0	17.3	17.2

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

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit AV [dBuV/m]	Margin	
		HOR	VER					HOR	VER		HOR	VER
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	31440.0	26.2	26.4	45.1	25.1	12.7	0.0	43.3	43.5	54.0	10.7	10.5

- *1) Test Distance 0.5m : Distance Factor(Dfac) = $20\log(3/0.5)$ = 15.56 dB
*2) Except for the above table : All other spurious emissions were less than 20dB for the limit.
*3) In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*4) The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

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

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL : SX-10WAG
SAMPLE NO. : 0080923A9A00
POWER : DC3.3V
MODE : Transmitting (11a / 54Mbps / CH149: 5745MHz)

REGULATION : Fcc Part15 Subpart C 15.209
TEST DISTANCE : 3m / 1m
DATE : 06/19/2006
TEMPERATURE : 24deg.C
HUMIDITY : 60%
ENGINEER : Hiroka Uneyama

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

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit PK [dBuV/m]	Margin	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	3830.0	55.7	55.4	34.8	36.0	3.2	0.0	57.7	57.4	74.0	16.3	16.6
2	5033.0	55.2	50.5	36.2	35.8	3.5	0.0	59.1	54.4	74.0	14.9	19.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
3	11490.0	61.4	61.9	46.4	36.1	5.3	0.2	67.7	68.2	74.0	6.3	5.8
4	22980.0	48.8	47.9	40.3	34.6	8.0	0.0	53.0	52.1	74.0	21.0	21.9

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

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit AV [dBuV/m]	Margin	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	3830.0	51.5	51.5	34.8	36.0	3.2	0.0	53.5	53.5	54.0	0.5	0.5
2	5033.0	41.9	35.7	36.2	35.8	3.5	0.0	45.8	39.6	54.0	8.2	14.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
3	11490.0	47.3	47.4	46.4	36.1	5.3	0.2	53.6	53.7	54.0	0.4	0.3
4	22980.0	35.8	39.5	40.3	34.6	8.0	0.0	40.0	43.7	54.0	14.0	10.3

- *1) Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3/1.0) = 9.54$ dB
- *2) Except for the above table : All other spurious emissions were less than 20dB for the limit.
- *3) In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
- *4) The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.
- *5) In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

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

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL : SX-10WAG
SAMPLE NO. : 0080923A9A00
POWER : DC3.3V
MODE : Transmitting (11a / 54Mbps / CH153: 5765MHz)

REGULATION : Fcc Part15 Subpart C 15.209
TEST DISTANCE : 3m / 1m
DATE : 06/19/2006
TEMPERATURE : 24deg.C
HUMIDITY : 60%
ENGINEER : Hiroka Umeyama

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

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit PK [dBuV/m]	Margin	
		HOR [dBuV]	VER [dBuV]					HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	3843.0	57.1	54.8	34.8	36.0	3.2	0.0	59.1	56.8	74.0	14.9	17.2
2	5440.0	57.3	55.6	37.8	35.6	3.6	0.0	63.1	61.4	74.0	10.9	12.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
3	11530.0	63.5	62.7	46.4	36.2	5.2	0.2	69.6	68.8	74.0	4.4	5.2
4	23060.0	47.2	49.0	40.3	34.5	8.0	0.0	51.5	53.3	74.0	22.5	20.7

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

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit AV [dBuV/m]	Margin	
		HOR [dBuV]	VER [dBuV]					HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	3843.0	51.4	51.1	34.8	36.0	3.2	0.0	53.4	53.1	54.0	0.6	0.9
2	5440.0	47.5	45.8	37.8	35.6	3.6	0.0	53.3	51.6	54.0	0.7	2.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
3	11530.0	47.2	47.7	46.4	36.2	5.2	0.2	53.3	53.8	54.0	0.7	0.2
4	23060.0	35.3	38.3	40.3	34.5	8.0	0.0	39.6	42.6	54.0	14.4	11.4

- *1) Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3/1.0) = 9.54$ dB
- *2) Except for the above table : All other spurious emissions were less than 20dB for the limit.
- *3) In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
- *4) The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.
- *5) In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

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

COMPANY : silex technology, Inc.	REGULATION : Fcc Part15 Subpart C 15.209
EQUIPMENT : MiniPCI Wireless LAN Board	TEST DISTANCE : 3m / 1m
MODEL : SX-10WAG	DATE : 06/19/2006
SAMPLE NO. : 0080923A9A00	TEMPERATURE : 24deg.C
POWER : DC3.3V	HUMIDITY : 60%
MODE : Transmitting (11a / 54Mbps / CH161: 5805MHz)	ENGINEER : Hiroka Umeyama

PK DETECT (RBW: 1MHz, VBW:1MHz)												
No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit PK [dBuV/m]	Margin	
		HOR [dBuV]	VER					HOR [dBuV/m]	VER		HOR [dB]	VER [dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	3870.0	54.2	53.0	35.0	35.9	3.2	0.0	56.5	55.3	74.0	17.5	18.7
2	5444.0	53.7	53.1	37.8	35.6	3.6	0.0	59.5	58.9	74.0	14.5	15.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
3	11610.0	61.3	60.3	46.5	36.2	5.4	0.2	67.7	66.7	74.0	6.3	7.3

AV DETECT (RBW: 1MHz , VBW:10Hz)												
No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit AV [dBuV/m]	Margin	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	3870.0	51.1	51.0	35.0	35.9	3.2	0.0	53.4	53.3	54.0	0.6	0.7
2	5444.0	38.9	37.5	37.8	35.6	3.6	0.0	44.7	43.3	54.0	9.3	10.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
3	11610.0	47.1	47.0	46.5	36.2	5.4	0.2	53.5	53.4	54.0	0.5	0.6

- *1) Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB
- *2) Except for the above table : All other spurious emissions were less than 20dB for the limit.
- *3) In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
- *4) The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.
- *5) In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

COMPANY : silex technology, Inc. EQUIPMENT : MiniPCI Wireless LAN Board MODEL : SX-10WAG SAMPLE NO. : 0080923A9A00 POWER : DC3.3V MODE : Receiving (11a / 54Mbps / CH153: 5765MHz)	UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber REGULATION : Fcc Part15 Subpart B / RSS-210 / RSS-Gen TEST DISTANCE : 3/1/0.5m DATE : 06/19/2006 TEMPERATURE : 24deg.C HUMIDITY : 60% ENGINEER : Hiroka Umeyama
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PK DETECT (RBW:1MHz, VBW:1MHz)												
No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit PK [dBuV/m]	Margin	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	[dB]
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	34470.0	54.3	54.8	45.1	25.1	5.9	0.0	64.6	65.1	74.0	9.4	8.9

AV DETECT (RBW: 1MHz , VBW:10Hz)												
No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit AV [dBuV/m]	Margin	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	[dB]
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	34470.0	41.2	41.2	45.1	25.1	5.9	0.0	51.5	51.5	54.0	2.5	2.5

- *1) Test Distance 0.5m : Distance Factor(Dfac) = $20\log(3/0.5) = 15.56$ dB
*2) Except for the above table : All other spurious emissions were less than 20dB for the limit.
*3) In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*4) The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)

***Conversion formula was used.**

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 and 4 Semi Anechoic Chamber

COMPANY	: silex technology, Inc.	REGULATION	: Fcc Part15 Subpart E 15.407
EQUIPMENT	: MiniPCI Wireless LAN Board	TEST DISTANCE	: 3m / 1m
MODEL	: SX-10WAG	DATE	: 04/27/2006 : 05/17/2006
SAMPLE NO.	: ES0002	TEMPERATURE	: 21deg.C : 22deg.C
POWER	: DC3.3V	HUMIDITY	: 39% : 42%
MODE	: Transmitting (11a / 54Mbps / CH36: 5180MHz)	ENGINEER	: Hiroka Umeyama : Hiroka Umeyama

No.	Freq. [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER	HOR	VER		HOR	VER
1	10360.00	64.8	67.4	-30.4	-27.8	-27.0	3.4	0.8
2	25900.00	56.7	56.0	-38.5	-39.2	-27.0	11.5	12.2
3	31080.00	55.0	55.2	-40.2	-40.0	-27.0	13.2	13.0
4	36260.00	65.4	65.9	-29.8	-29.3	-27.0	2.8	2.3

Result(EIRP[dBm])=10*LOG({ (Electric Field Strength [V/m] * Distance:3[m]) ^ 2 } / 30)

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

*Result is calculated to two places of decimals. Therefore, there may be 0.1 difference for the result.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
***Conversion formula was used.**

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 and 4 Semi Anechoic Chamber

COMPANY	: silix technology, Inc.	REGULATION	: Fcc Part15 Subpart E 15.407
EQUIPMENT	: MiniPCI Wireless LAN Board	TEST DISTANCE	: 3m / 1m
MODEL	: SX-10WAG	DATE	: 04/27/2006 : 05/17/2006
SAMPLE NO.	: ES0002	TEMPERATURE	: 21deg.C : 22deg.C
POWER	: DC3.3V	HUMIDITY	: 39% : 42%
MODE	: Transmitting (11a / 54Mbps / CH48: 5240MHz)	ENGINEER	: Hiroka Umeyama : Hiroka Umeyama

No.	Freq. [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER	HOR	VER		HOR	VER
1	10480.00	59.8	64.1	-35.4	-31.1	-27.0	8.4	4.1
2	26200.00	55.7	54.5	-39.5	-40.7	-27.0	12.5	13.7
3	36680.00	65.8	65.8	-29.4	-29.4	-27.0	2.4	2.4

Result(EIRP[dBm])=10*LOG({ (Electric Field Strength [V/m] * Distance:3[m]) ^ 2 } / 30)

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

*Result is calculated to two places of decimals. Therefore, there may be 0.1 difference for the result.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
***Conversion formula was used.**

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 and 4 Semi Anechoic Chamber

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL : SX-10WAG
SAMPLE NO. : ES0002
POWER : DC3.3V
MODE : Transmitting (11a / 54Mbps / CH64: 5320MHz)

REGULATION : Fcc Part15 Subpart E 15.407
TEST DISTANCE : 3m / 1m
DATE : 04/27/2006 : 05/17/2006
TEMPERATURE : 21deg.C : 22deg.C
HUMIDITY : 39% : 42%
ENGINEER : Hiroka Umeyama : Hiroka Umeyama

No.	Freq. [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		Result (EIRP) [dBm]		Limit [dBm]	Margin [dB]	
		HOR	VER	HOR	VER		HOR	VER
1	26600.00	52.9	52.6	-42.3	-42.6	-27.0	15.3	15.6
2	31920.00	56.9	57.4	-38.3	-37.8	-27.0	11.3	10.8
3	37240.00	64.8	65.5	-30.4	-29.7	-27.0	3.4	2.7

Result(EIRP[dBm])=10*LOG({ (Electric Field Strength [V/m] * Distance:3[m]) ^ 2 } / 30)

*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Result is calculated to two places of decimals. Therefore, there may be 0.1 difference for the result.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)

***Conversion formula was used.**

		UL Apex Co., Ltd.	
		Head Office EMC Lab. No.1 Semi Anechoic Chamber	
COMPANY	: silex technology, Inc.	REGULATION	: Fcc Part15 Subpart C 15.209
EQUIPMENT	: MiniPCI Wireless LAN Board	TEST DISTANCE	: 3m / 1m
MODEL	: SX-10WAG	DATE	: 06/19/2006
SAMPLE NO.	: 0080923A9A00	TEMPERATURE	: 24deg.C
POWER	: DC3.3V	HUMIDITY	: 60%
MODE	: Transmitting (11a / 54Mbps / CH149: 5745MHz)	ENGINEER	: Hiroka Umeyama

No.	Freq. [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER	HOR	VER		HOR	VER
1	17235.00	67.7	67.0	-27.5	-28.2	-27.0	0.5	1.2
2	28725.00	65.3	65.5	-29.9	-29.7	-27.0	2.9	2.7
3	34470.00	66.4	66.3	-28.8	-28.9	-27.0	1.8	1.9

Result(EIRP[dBm])=10*LOG((Electric Field Strength [V/m] * Distance:3[m]) ^ 2) / 30)

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

*Result is calculated to two places of decimals. Therefore, there may be 0.1 difference for the result.

UL Apex Co., Ltd.

Head Office EMC Lab.

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Facsimile : +81 596 24 8124

MF060b(14.06.06)

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
***Conversion formula was used.**

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

COMPANY	: silex technology, Inc.	REGULATION	: Fcc Part15 Subpart C 15.209
EQUIPMENT	: MiniPCI Wireless LAN Board	TEST DISTANCE	: 3m / 1m
MODEL	: SX-10WAG	DATE	: 06/19/2006
SAMPLE NO.	: 0080923A9A00	TEMPERATURE	: 24deg.C
POWER	: DC3.3V	HUMIDITY	: 60%
MODE	: Transmitting (11a / 54Mbps / CH153: 5765MHz)	ENGINEER	: Hiroka Umeyama

No.	Freq. [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER	HOR	VER		HOR	VER
1	17295.00	65.4	66.9	-29.8	-28.3	-27.0	2.8	1.3
2	28825.00	65.2	64.9	-30.0	-30.3	-27.0	3.0	3.3
3	34590.00	65.8	65.1	-29.4	-30.1	-27.0	2.4	3.1

Result(EIRP[dBm])=10*LOG({ (Electric Field Strength [V/m] * Distance:3[m]) ^ 2 } / 30)

*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Result is calculated to two places of decimals. Therefore, there may be 0.1 difference for the result.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)

***Conversion formula was used.**

		UL Apex Co., Ltd.	
		Head Office EMC Lab. No.1 Semi Anechoic Chamber	
COMPANY	: silex technology, Inc.	REGULATION	: Fcc Part15 Subpart C 15.209
EQUIPMENT	: MiniPCI Wireless LAN Board	TEST DISTANCE	: 3m / 1m
MODEL	: SX-10WAG	DATE	: 06/19/2006
SAMPLE NO.	: 0080923A9A00	TEMPERATURE	: 24deg.C
POWER	: DC3.3V	HUMIDITY	: 60%
MODE	: Transmitting (11a / 54Mbps / CH161: 5805MHz)	ENGINEER	: Hiroka Umeyama

No.	Freq. [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		Result (EIRP) [dBm]		Limit [dBm]	Margin [dB]	
		HOR	VER	HOR	VER		HOR	VER
1	17415.00	67.9	65.9	-27.3	-29.3	-27.0	0.3	2.3
2	23220.00	52.4	42.9	-42.8	-52.3	-27.0	15.8	25.3
3	29025.00	64.4	65.0	-30.8	-30.2	-27.0	3.8	3.2
4	34830.00	66.4	66.3	-28.8	-28.9	-27.0	1.8	1.9

Result(EIRP[dBm])=10*LOG({ (Electric Field Strength [V/m] * Distance:3[m]) ^ 2 } / 30)

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

*Result is calculated to two places of decimals. Therefore, there may be 0.1 difference for the result.

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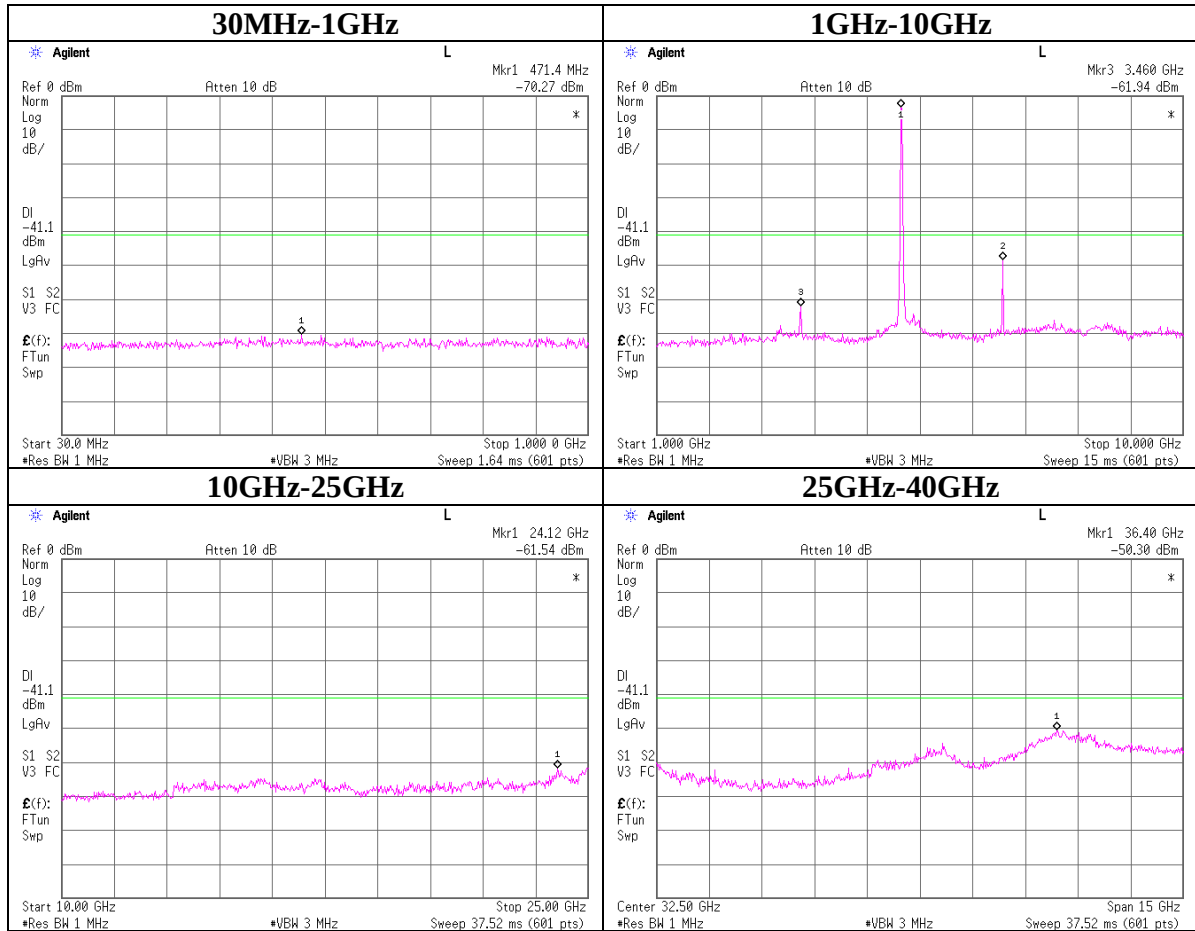
Facsimile : +81 596 24 8124

MF060b(14.06.06)

Conducted Spurious Emission

54Mbps Antenna:A

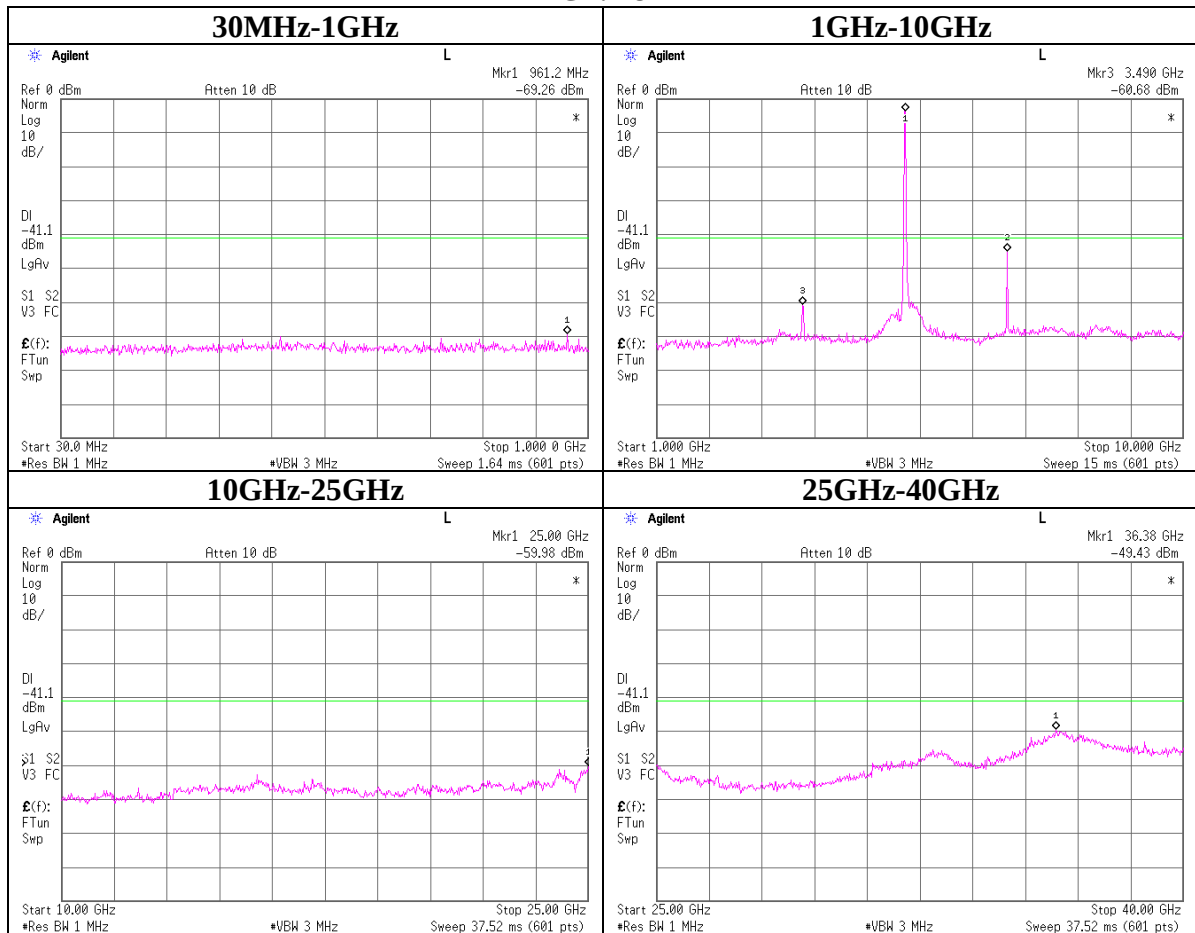
Ch: 36



Conducted Spurious Emission

54Mbps Antenna:A

Ch: 48



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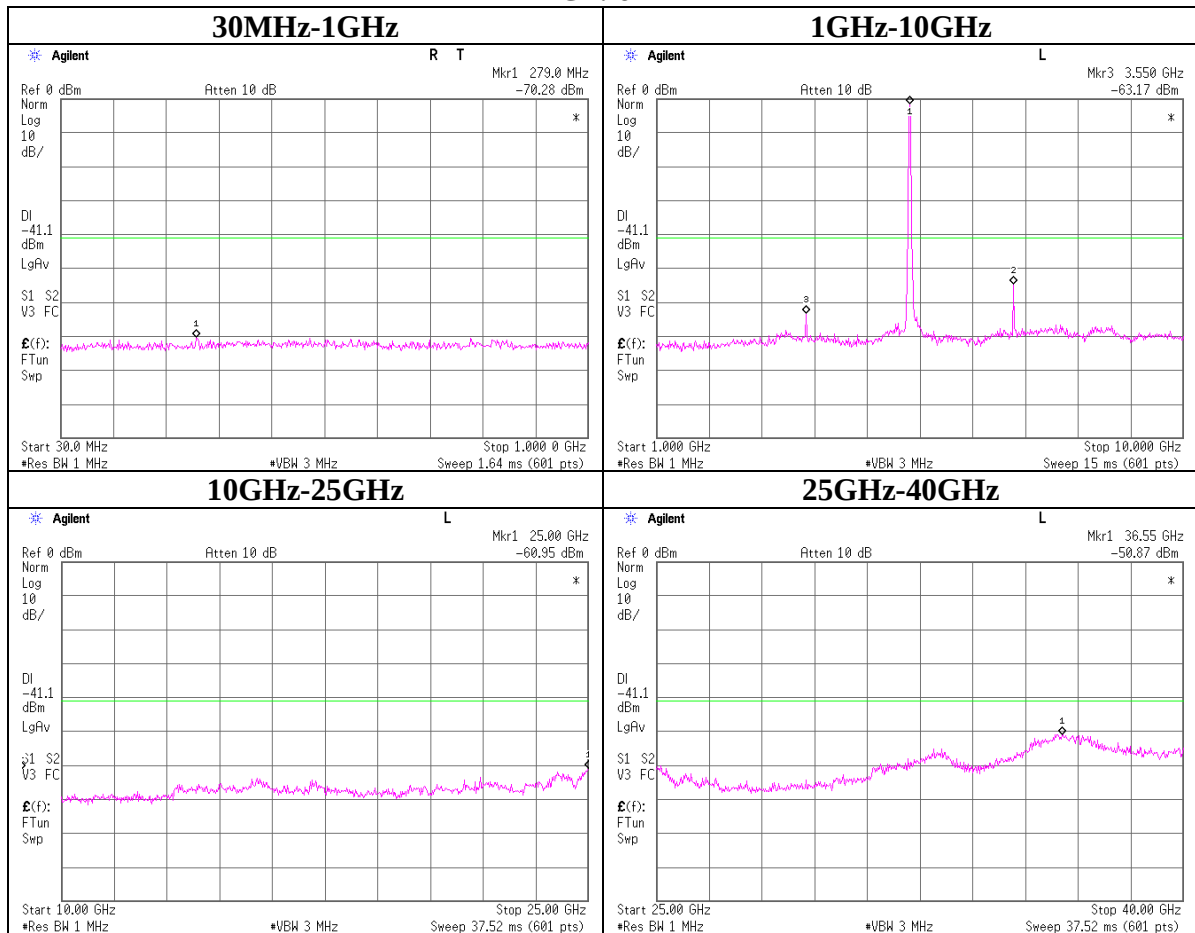
Facsimile : +81 596 24 8124

MF060b(14.06.06)

Conducted Spurious Emission

54Mbps Antenna:A

Ch: 64



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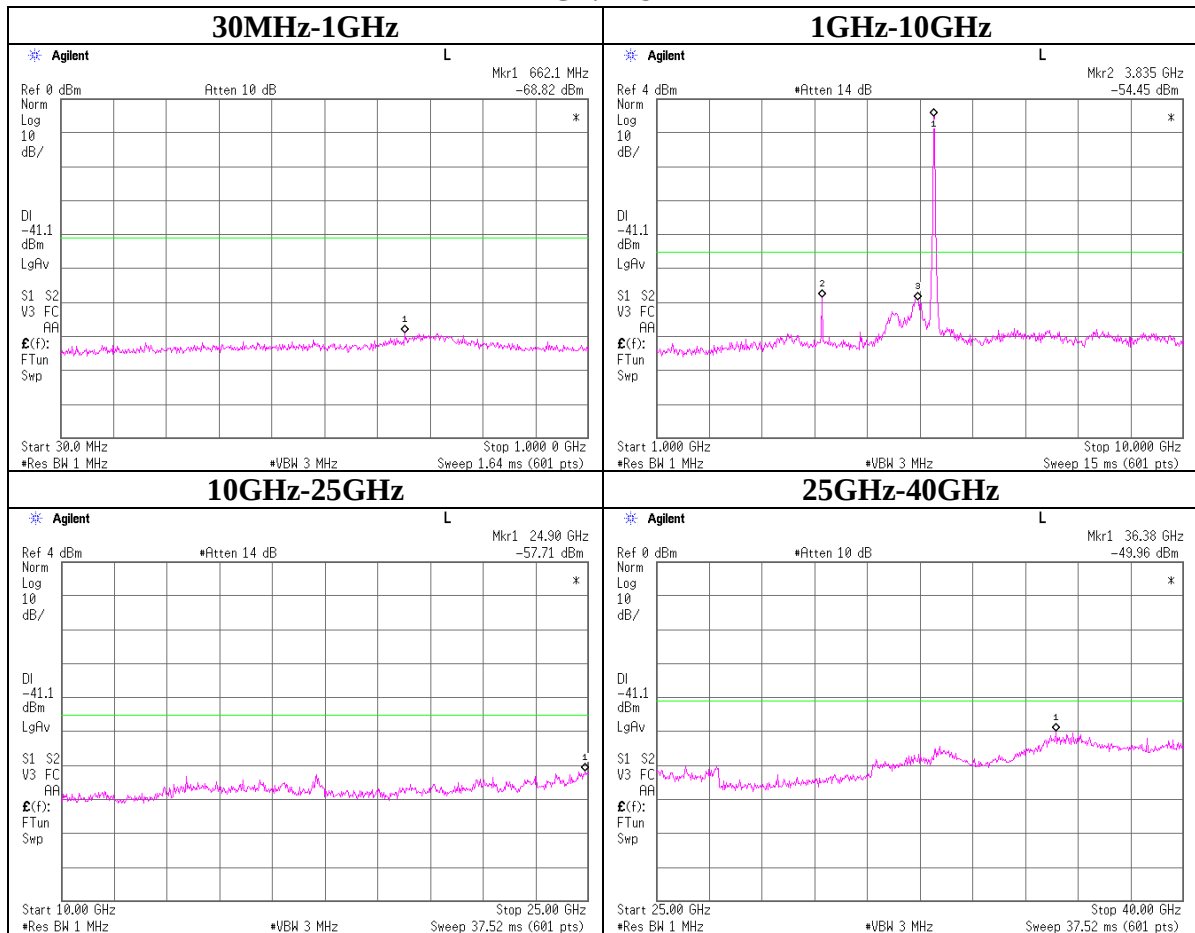
Facsimile : +81 596 24 8124

MF060b(14.06.06)

Conducted Spurious Emission

54Mbps Antenna:A

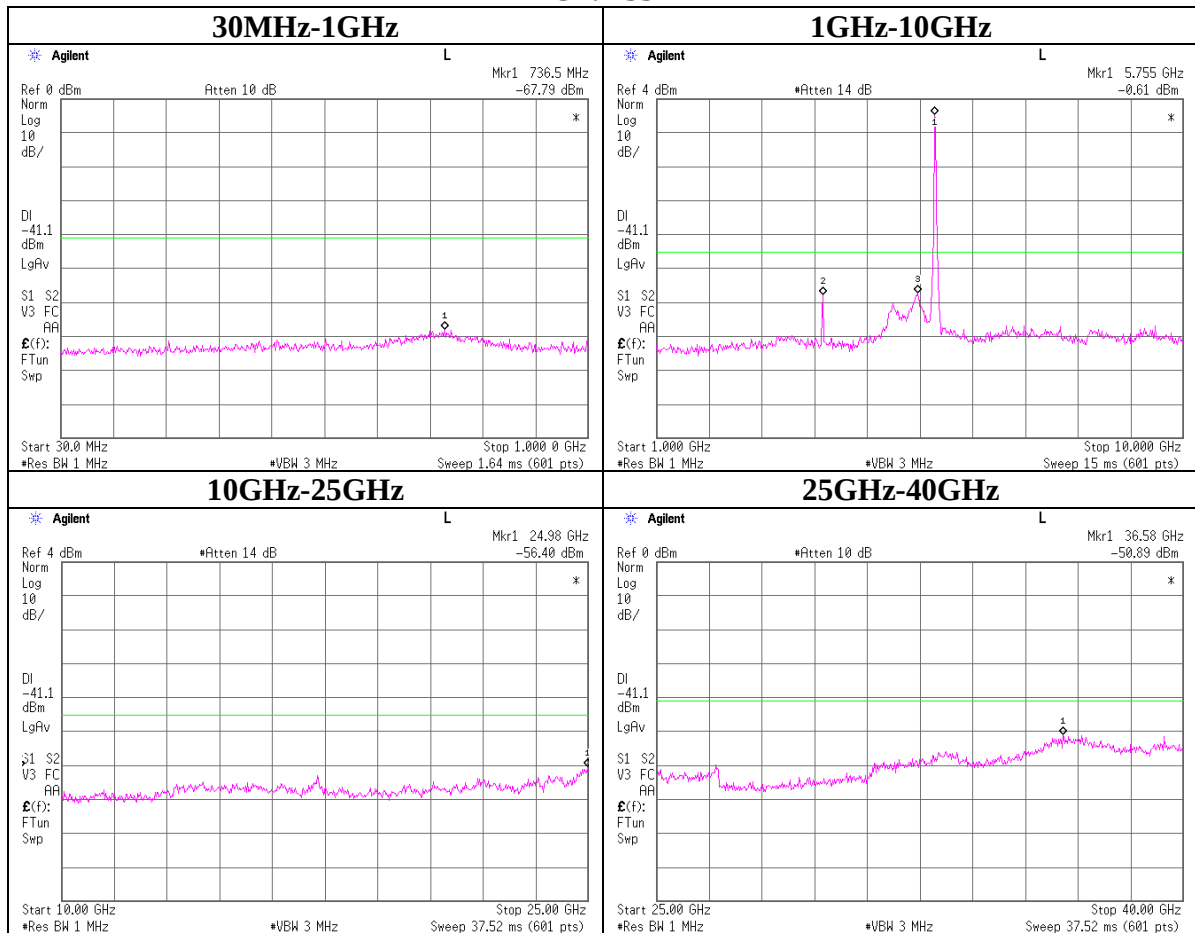
Ch: 149



Conducted Spurious Emission

54Mbps Antenna:A

Ch: 153



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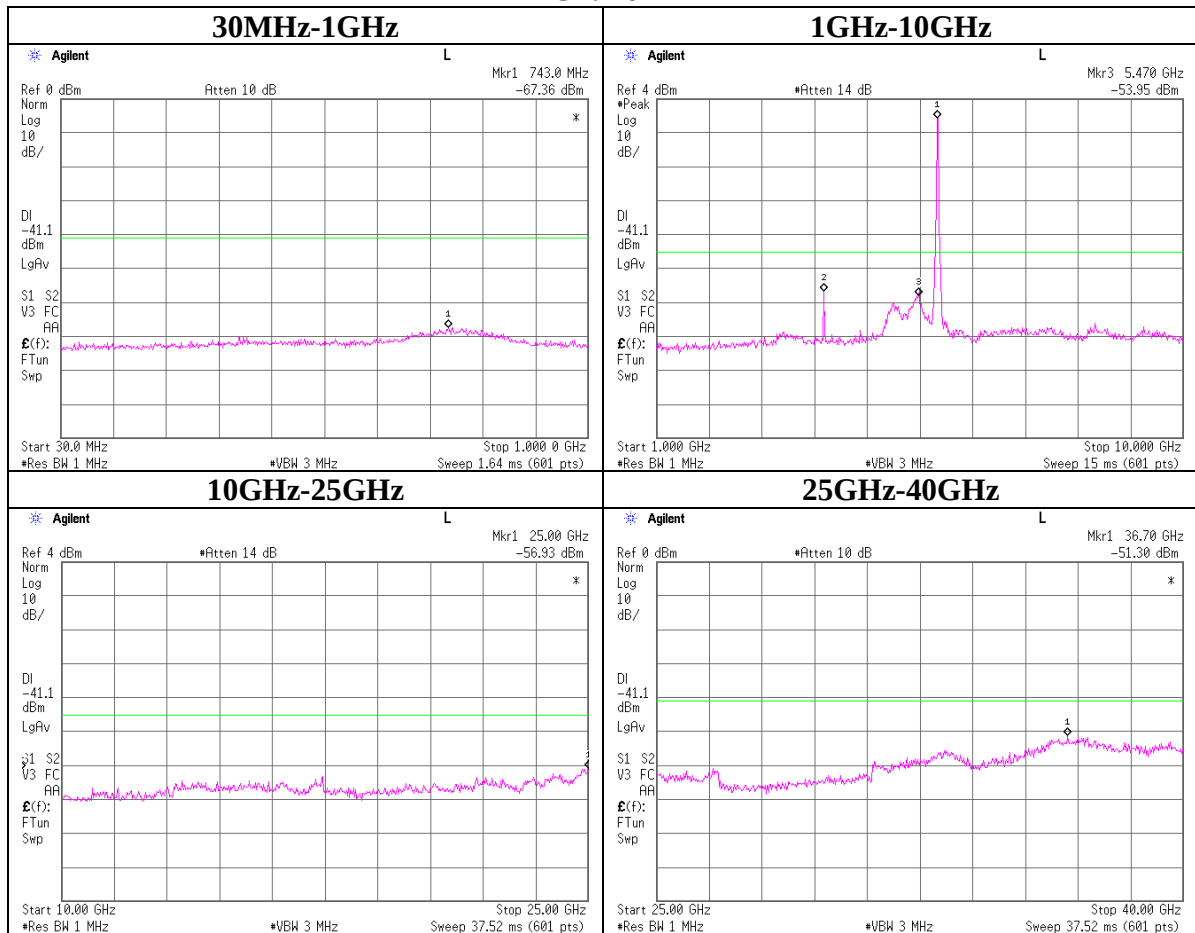
Facsimile : +81 596 24 8124

MF060b(14.06.06)

Conducted Spurious Emission

54Mbps Antenna:A

Ch: 161



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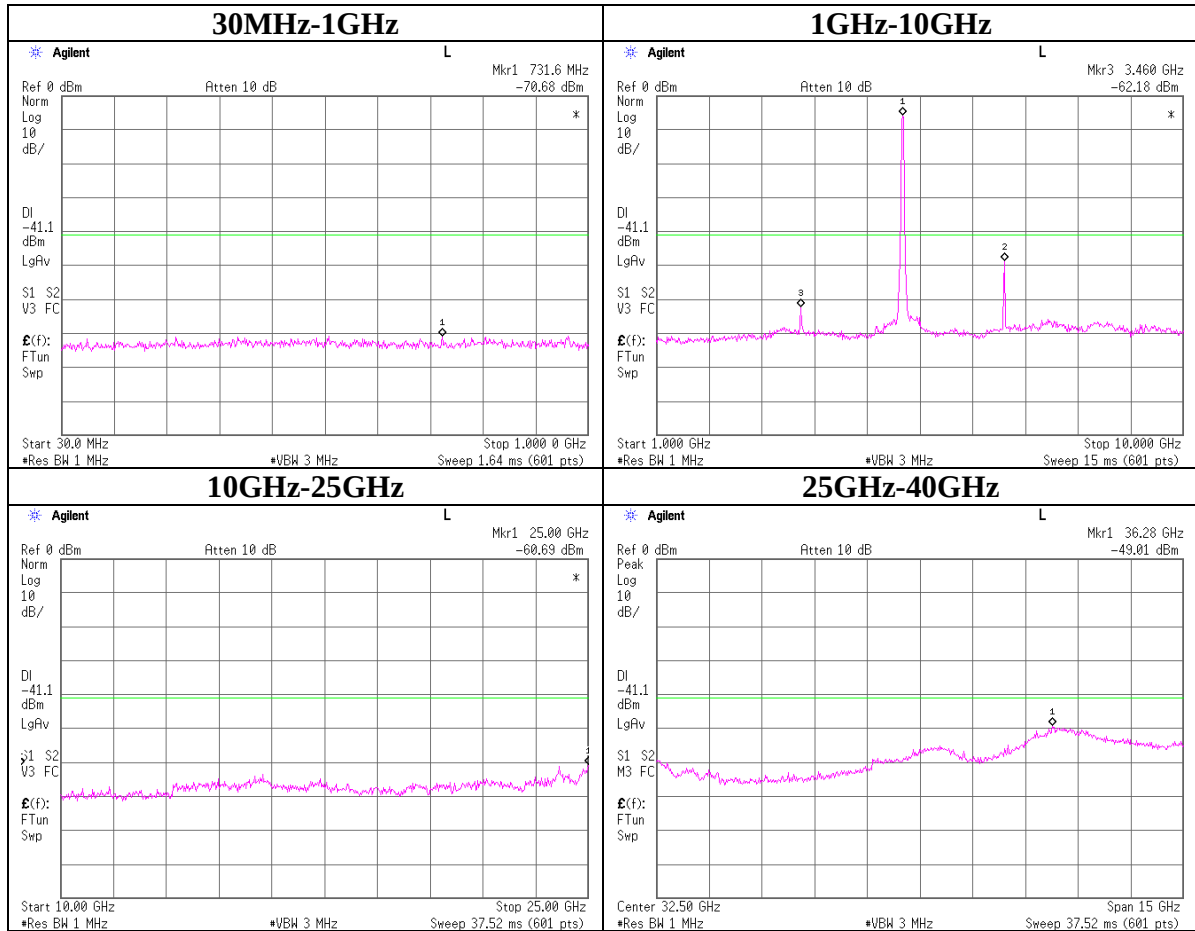
Facsimile : +81 596 24 8124

MF060b(14.06.06)

Conducted Spurious Emission

Turbo Mode 108Mbps Antenna:A

Ch: 40



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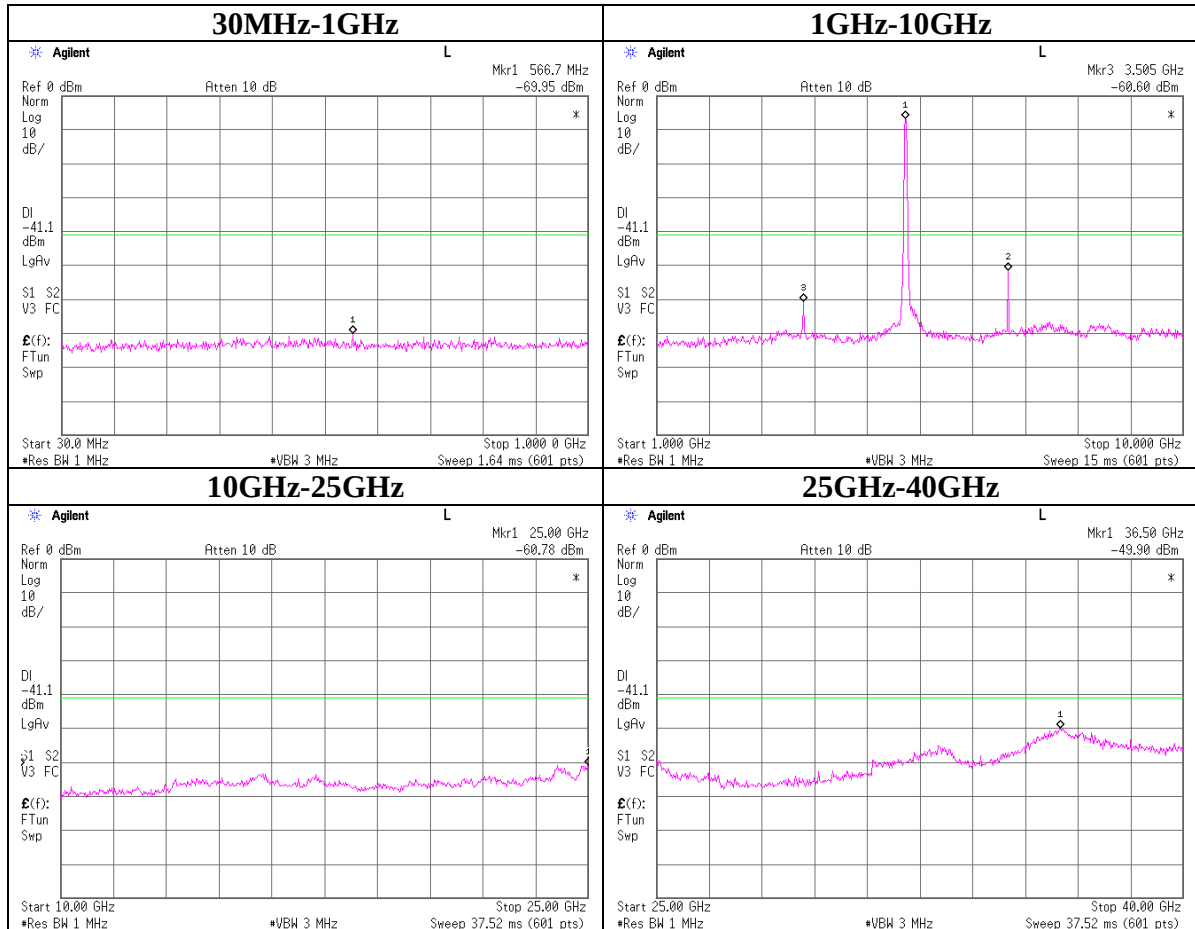
Facsimile : +81 596 24 8124

MF060b(14.06.06)

Conducted Spurious Emission

Turbo Mode 108Mbps Antenna:A

Ch: 50



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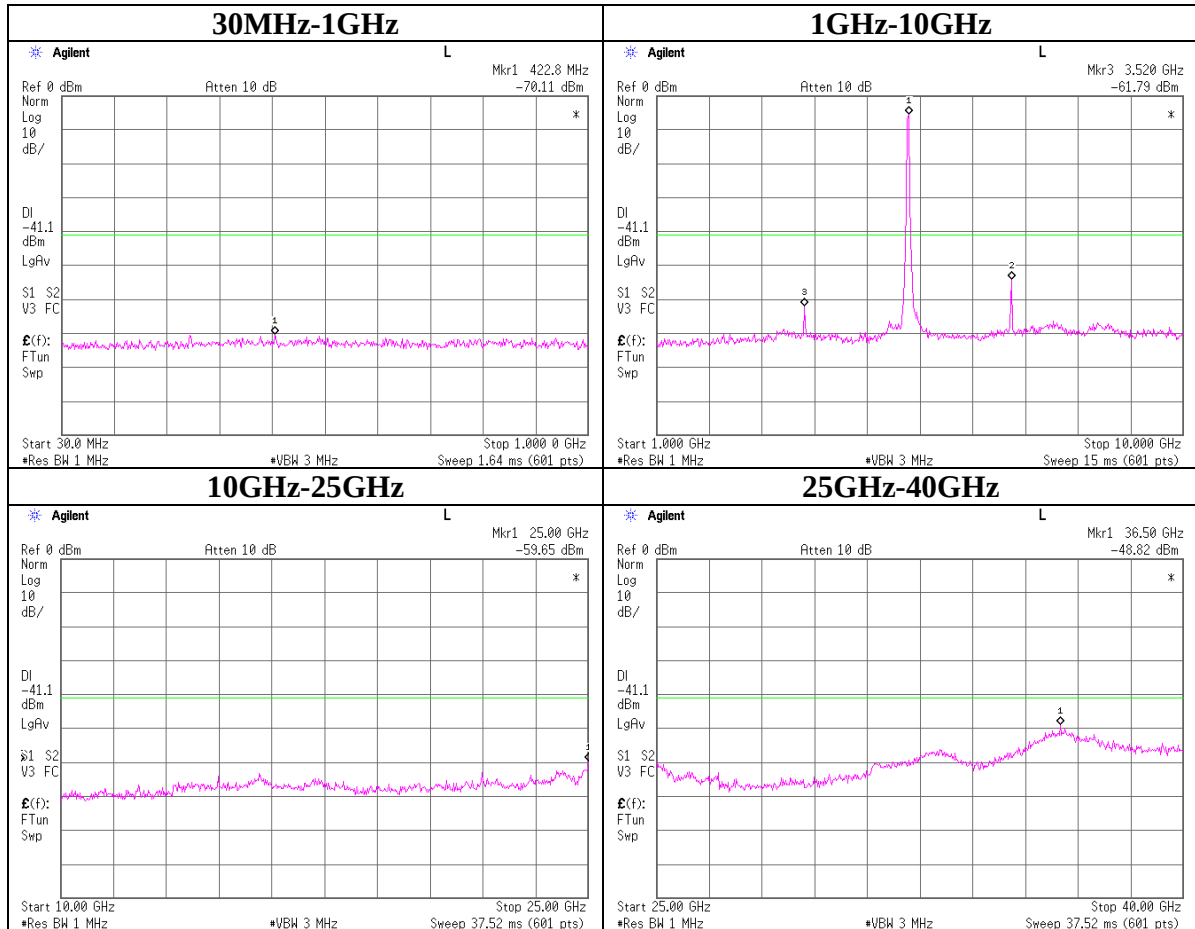
Facsimile : +81 596 24 8124

MF060b(14.06.06)

Conducted Spurious Emission

Turbo Mode 108Mbps Antenna:A

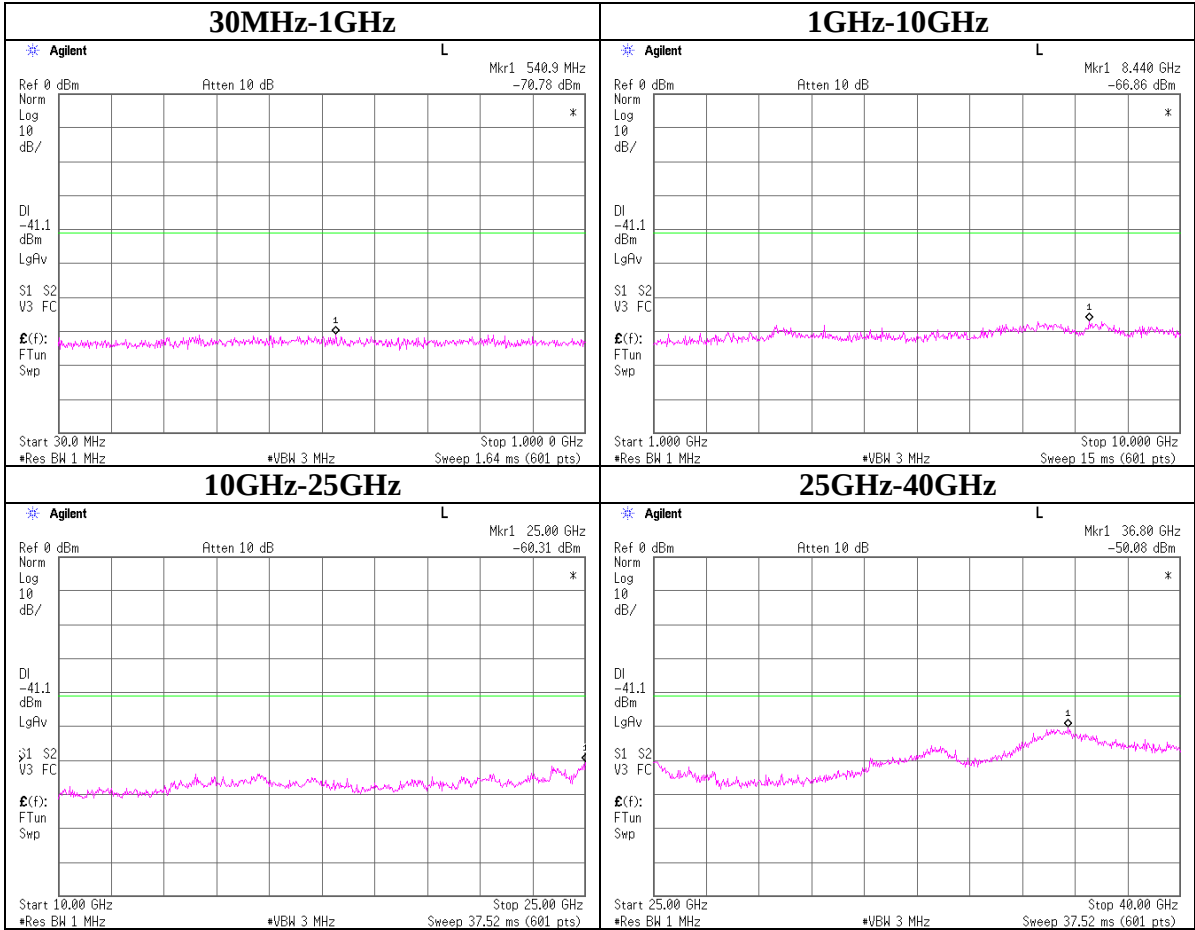
Ch: 58



Conducted Spurious Emission

Antenna:A

Rx



Radiated emission Band Edge compliance

54Mbps Antenna:A

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 and 4 Semi Anechoic Chamber

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL : SX-10WAG
SAMPLE NO. : ES0002
POWER : DC3.3V
MODE : Transmitting (11a / 54Mbps / CH34: 5180MHz)

REGULATION : Fcc Part15 Subpart E 15.407
TEST DISTANCE : 3m / 1m
DATE : 04/27/2006
TEMPERATURE : 21deg.C
HUMIDITY : 39%
ENGINEER : Hiroka Umeyama

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

No.	Freq. [MHz]	Reading [dBuV]		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result [dBuV/m]		Limit PK [dBuV/m]	Margin [dB]	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	5150.0	48.7	48.5	37.3	35.8	3.6	0.0	53.8	53.6	74.0	20.2	20.4
2	5350.0	62.0	54.4	38.2	35.7	3.3	0.0	67.8	60.2	74.0	6.2	13.8

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

No.	Freq. [MHz]	Reading [dBuV]		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result [dBuV/m]		Limit AV [dBuV/m]	Margin [dB]	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	5150.0	35.9	34.6	37.3	35.8	3.6	0.0	41.0	39.7	54.0	13.0	14.3
2	5350.0	42.8	39.3	38.2	35.7	3.3	0.0	48.6	45.1	54.0	5.4	8.9

*1) In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*2) The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

UL Apex Co., Ltd.
Head Office EMC Lab. Semi Anechoic Chamber : No1

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL : SX-10WAG
S/N : 0080923A9A00
POWER : DC3.3V
MODE : Tx 5745/5805 MHz
POSITION : H: X-axis / V: Y-axis
TX ANTENNA HIGH : 0.8m
11a, 54Mbps

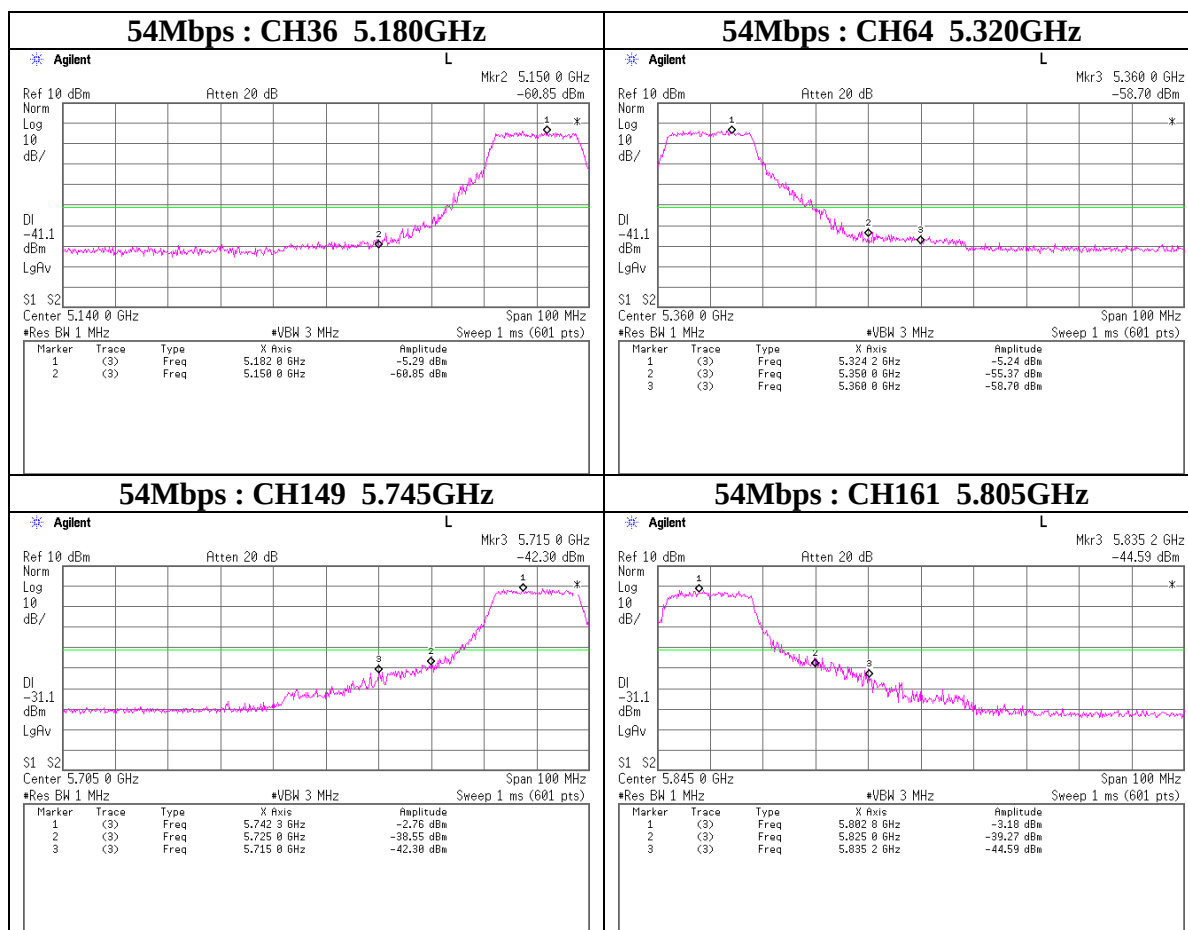
REPORT NO : 26GE0351-HO
REGULATION : FCC15.407
TEST DISTANCE : 3m
DATE : 06/19/2006
TEMPERATURE : 24 deg.C.
HUMIDITY : 60%
ENGINEER : Hiroka Umeyama

No.	FREQUENCY [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		RESULT (ERP) [dBm]		LIMIT [dBm] (ERP)	MARGIN [dB]		Mode
		HOR	VER	HOR	VER		HOR	VER	
1	5715.00	67.7	63.0	-38.5	-43.2	-27.0	11.5	16.2	Operating
2	5725.00	72.9	70.0	-33.3	-36.2	-17.0	16.3	19.2	Operating
3	5825.00	76.7	76.0	-29.5	-30.2	-17.0	12.5	13.2	Operating
4	5835.00	73.5	72.6	-32.7	-33.6	-27.0	5.7	6.6	Operating

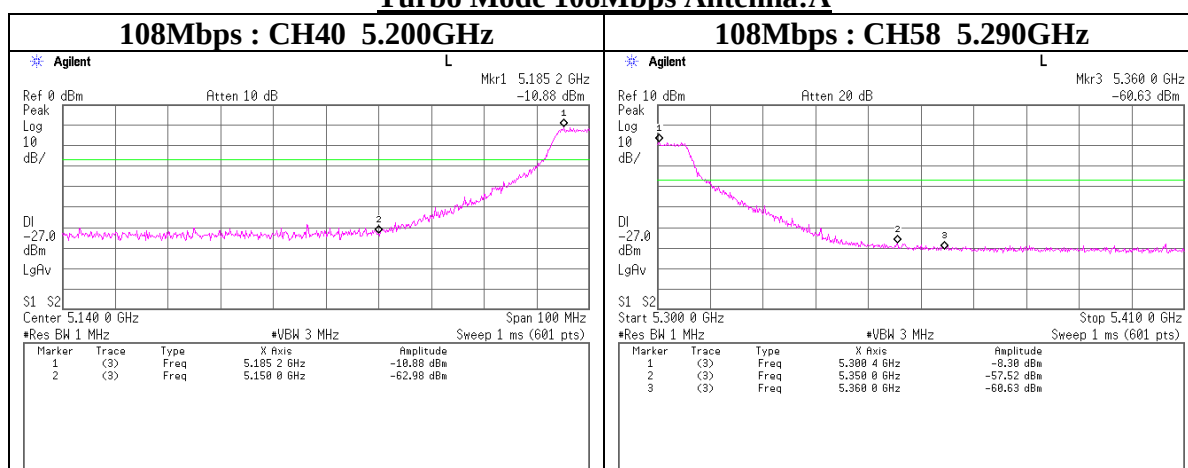
Rx-ANTENNA : Biconical Antenna(30-300MHz), Logperiodic Antenna(300-1000MHz), Horn Antenna(1-12.75GHz)
Tx-ANTENNA : Dipole Antenna(30-1000MHz), Horn Antenna(1-12.75GHz)

Conducted emission Band Edge compliance

54Mbps Antenna:A



Turbo Mode 108Mbps Antenna:A



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MF060b(14.06.06)

Peak Power Spectral Density

UL Apex Co., Ltd.
Head Office EMC Lab. No.6 Measurement Room

Company	: silex technology, Inc.	REPORT NO	: 26GE0351-HO
Equipment	: MiniPCI Wireless LAN Board	REGULATION	: FCC 15.407(a)(1)(2)(3)
Model	: SX-10WAG	TEST DISTANCE	: -
Sample No.	: ES0002 and 0080923A9A00	DATE	: 05/17/2006 and 06/14/2006
Power	: DC3.3V	TEMPERATURE	: 23deg.C and 25deg.C
Mode	: Tx IEEE 802.11a	HUMIDITY	: 62% and 54%
Antenna	: A	ENGINEER	: Hiroka Umeyama
Rate	: 54Mbps		

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
36	5180.0	-14.31	4.1	10.0	-0.2	4.0	4.2
48	5240.0	-13.71	4.1	10.0	0.4	4.0	3.6
64	5320.0	-14.73	4.1	10.0	-0.6	11.0	11.6
149	5745.0	-12.94	4.1	10.0	1.2	17.0	15.8
153	5765.0	-13.60	4.1	10.0	0.5	17.0	16.5
161	5805.0	-13.49	4.1	10.0	0.6	17.0	16.4

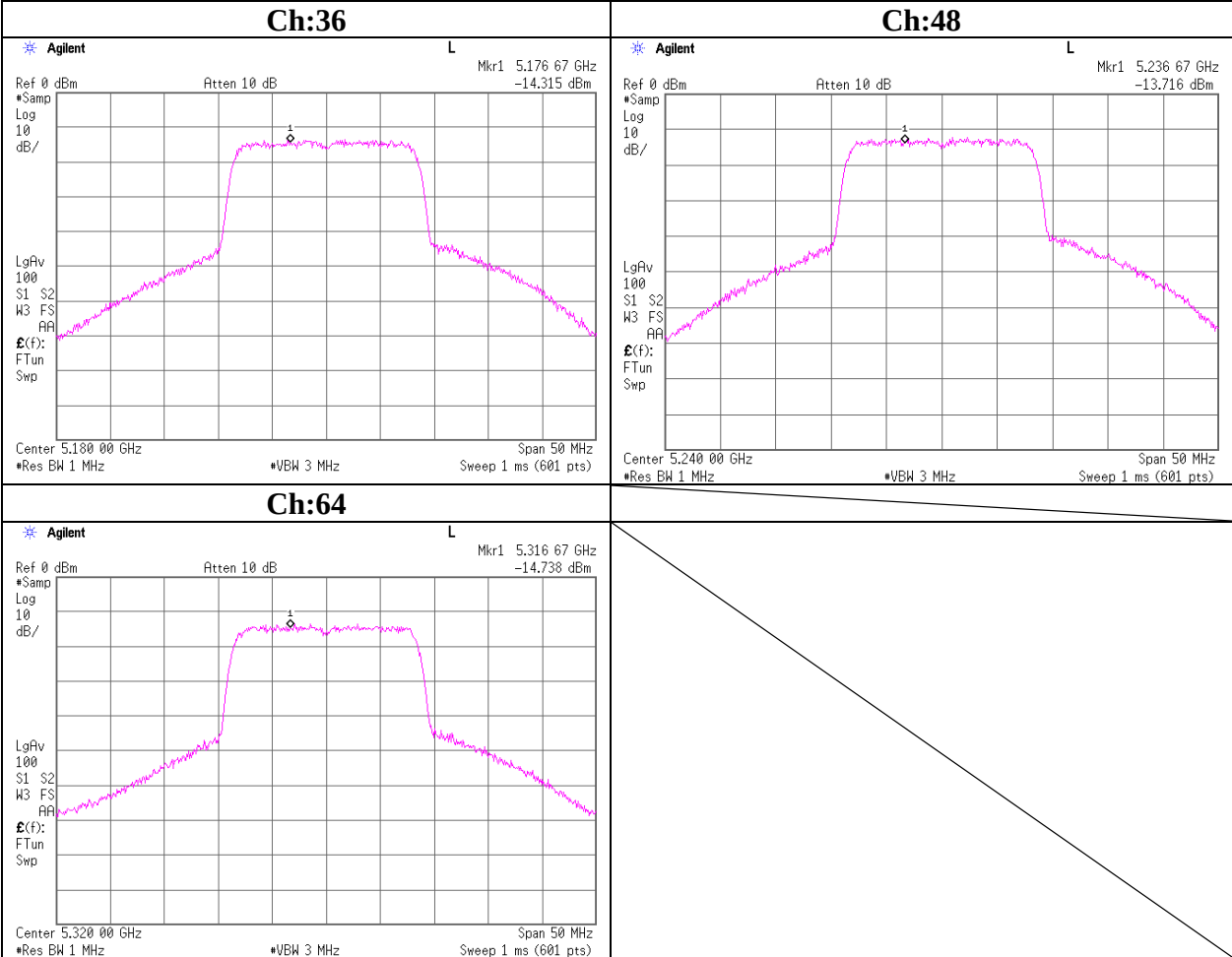
Sample Calculation:

Result = Reading + Cable Loss + Attenuator

* Atten. was not used for factor 0.0dB of the above table.

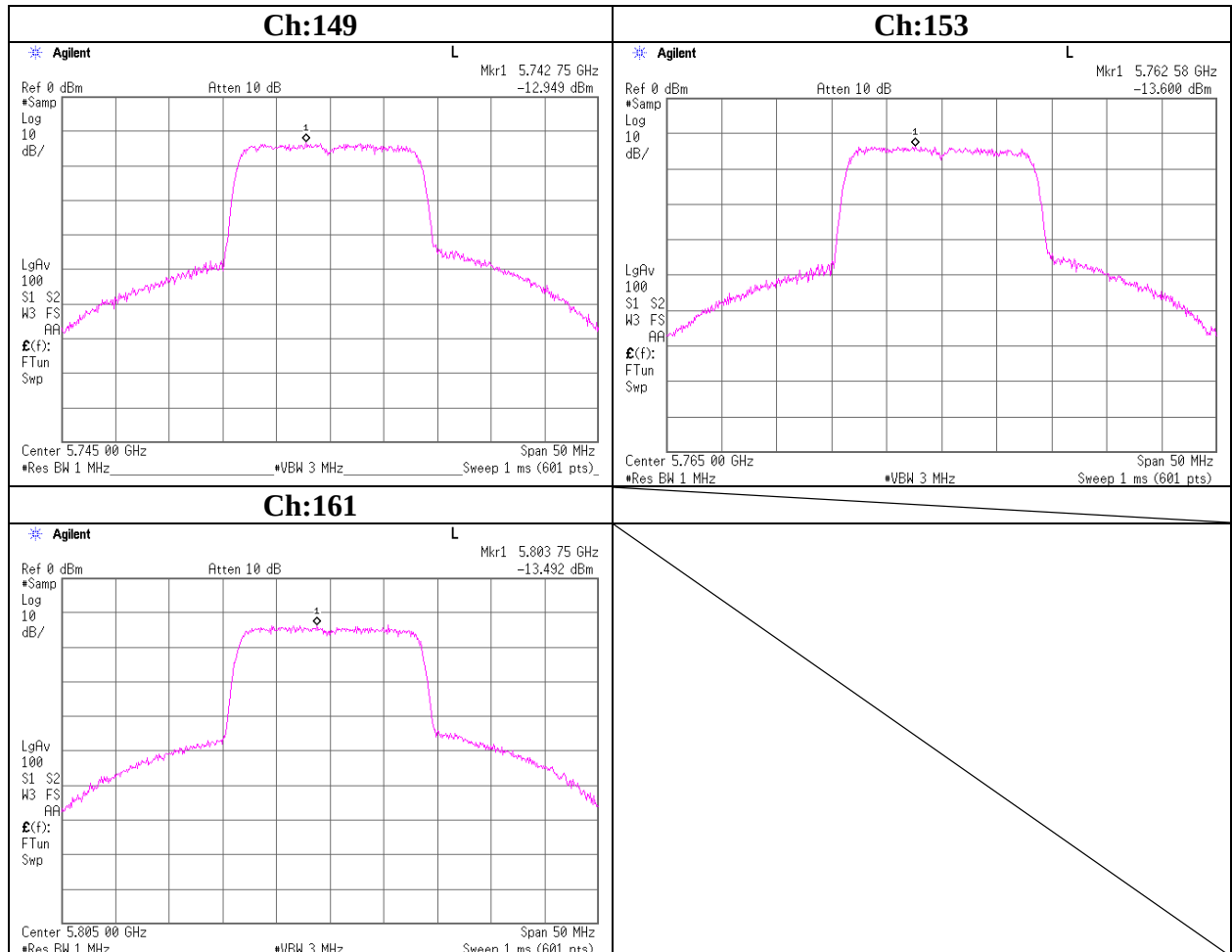
Peak Power Spectral Density

54Mbps Antenna:A



Peak Power Spectral Density

54Mbps Antenna:A



UL Apex Co., Ltd.

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MF060b(14.06.06)

Peak Excursion Ratio

UL Apex Co., Ltd.
Head Office EMC Lab. No.6 Measurement Room

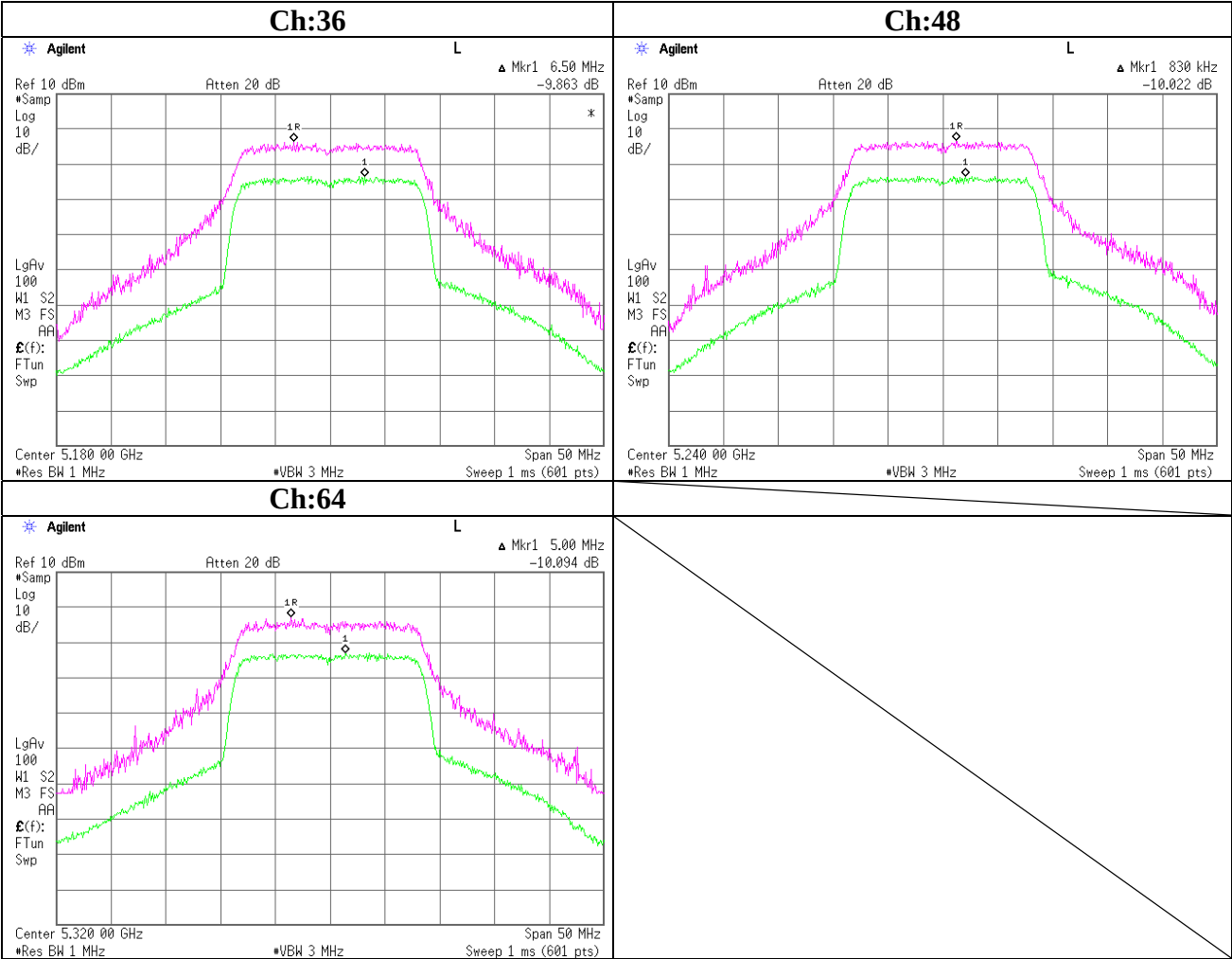
Company : silex technology, Inc.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAG
Sample No. : ES0002 and 0080923A9A00
Power : DC3.3V
Mode : Tx IEEE 802.11a
Antenna : A
Rate : 54Mbps

REPORT NO : 26GE0351-HO
REGULATION : FCC 15.407(a)(6)
TEST DISTANCE : -
DATE : 05/17/2006 and 06/14/2006
TEMPERATURE : 23deg.C and 25deg.C
HUMIDITY : 62% and 54%
ENGINEER : Hiroka Umeyama

Ch	Freq. [MHz]	Peak Power Excursion [dB]	Limit [dB]
36	5180.0	9.863	13.0
48	5240.0	10.022	13.0
64	5320.0	10.094	13.0
149	5745.0	9.790	13.0
153	5765.0	9.978	13.0
161	5805.0	10.568	13.0

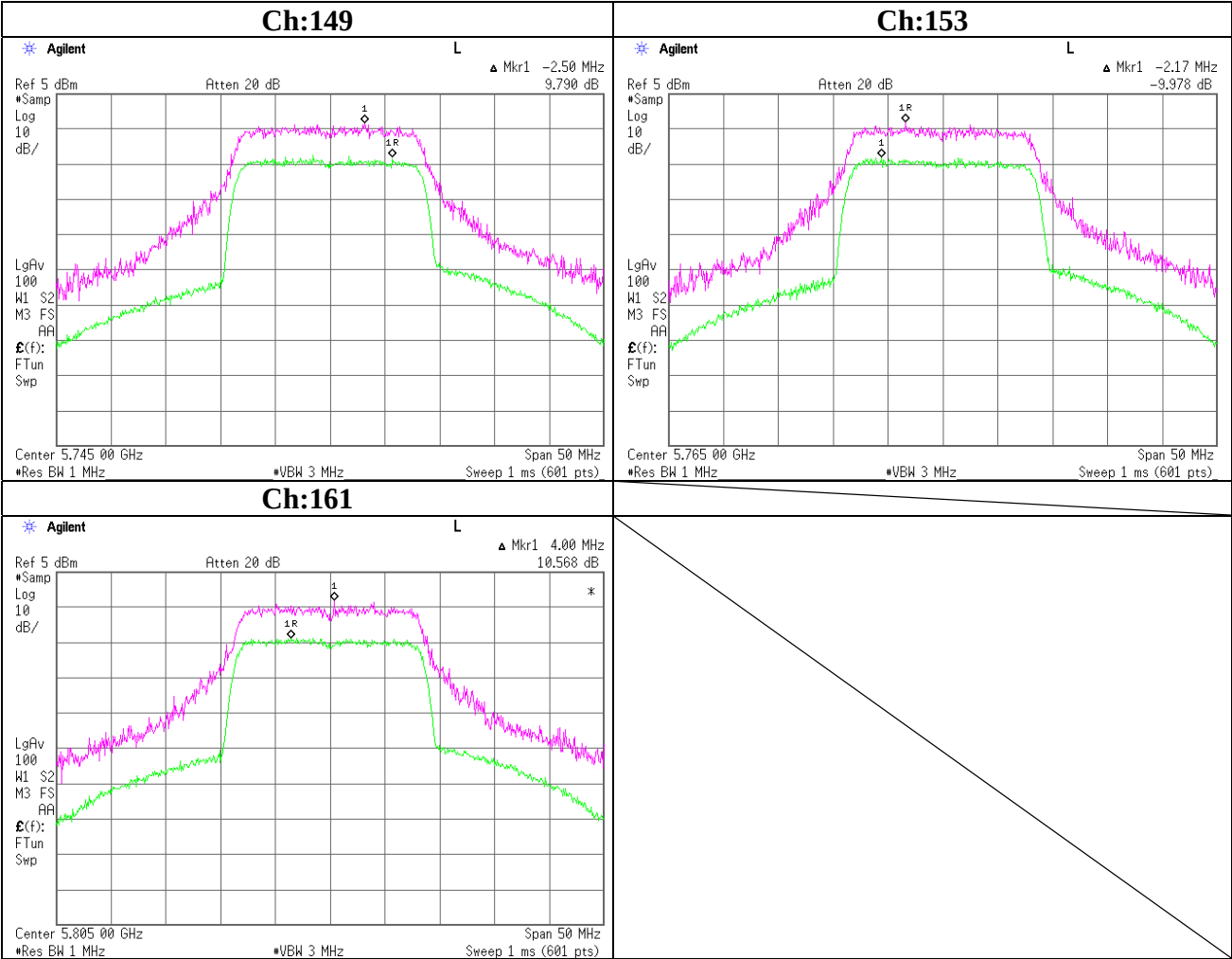
Peak Excursion Ratio

54Mbps Antenna:A



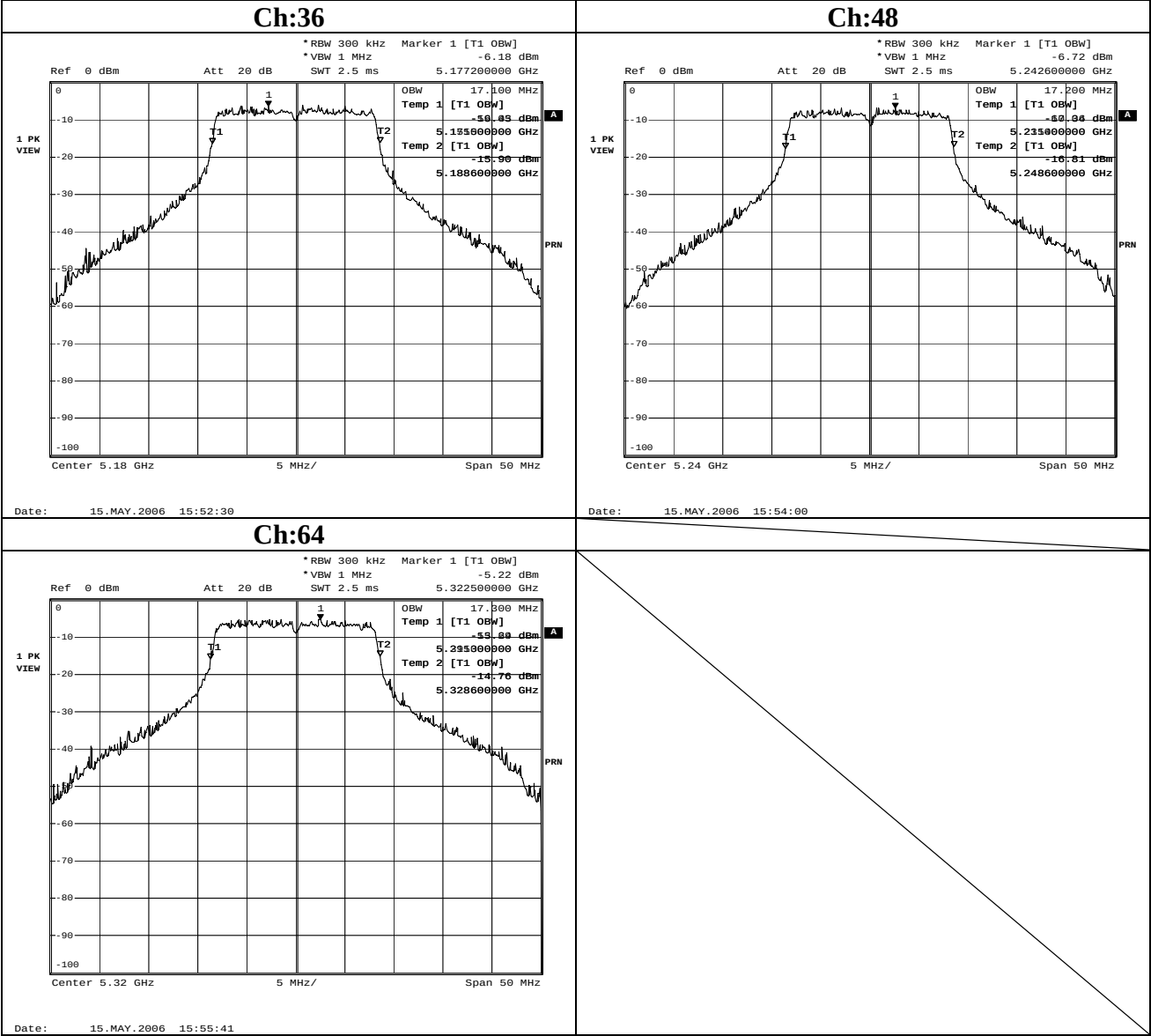
Peak Excursion Ratio

54Mbps Antenna:A



99%Occupied Bandwidth

54Mbps Antenna:A



54Mbps Antenna:A

