

Reference No.: A04060903 Report No.:FCBA04060903

Page: 1 of 23

Date: June 16, 2004

Product Name: Wireless K + M Model No.: KB-3008/R

Applicant: KYE SYSTEMS CORP.

No. 492, Sec. 5, Chung Hsin Rd., San Chung,

Taipei Hsien, 241, Taiwan, R.O.C.

Date of Receipt: June 09, 2004 Finished date of Test: June 16, 2004

Applicable Standards: 47 CFR Part 15, Subpart B

ANSI C63.4:2003

We, Spectrum Research & Testing Laboratory Inc., hereby certify that one sample of the above was tested in our laboratory with positive results according to the above-mentioned standards. The records in the report are an accurate account of the results. Details of the results are given in the subsequent pages of this report.

Kan Su for , Date: June 16, x004 (Sunyou Chen) Checked By:

(Johnson Ho, Director)

Date: 6/16/2004 Approved By:

Lab Code: 200099-0



Reference No.:A04060903 Report No.:FCBA04060903 Page:2 of 23 Date:June 16, 2004

Table of Contents

1.	DOCUMENT POLICY AND TEST STATEMENT	3
1.1	DOCUMENT POLICY	3
1.2	TEST STATEMENT	3
2.	DESCRIPTION OF EUT AND TEST MODE	4
2.1	GENERAL DESCRIPTION OF EUT	
2.2	DESCRIPTION OF EUT INTERNAL DEVICE	
2.3	DESCRIPTION OF TEST MODE	
2.4	DESCRIPTION OF SUPPORT UNIT	5
3.	DESCRIPTION OF APPLIED STANDARDS	5
4.	CONDUCTED EMISSION TEST	6
4.1	CONDUCTED EMISSION LIMIT	6
4.2	TEST EQUIPMENT	
4.3	TEST SETUP	
4.4	TEST PROCEDURE	
4.5	EUT OPERATING CONDITION	
4.6	TEST RESULT	
5.	RADIATED EMISSION TEST	
5.1	RADIATED EMISSION LIMIT	
5.2	TEST EQUIPMENT	
5.3	TEST SET-UP	
5.4	TEST PROCEDURE	
5.5	EUT OPERATING CONDITION	
5.6	RADIATED EMISSION TEST RESULT	
6.	PHOTOS OF TESTING	
7.	TERMS OF ABRIVATION	23



Reference No.:A04060903 Report No.:FCBA04060903

Page:3 of 23

Date:June 16, 2004

1. DOCUMENT POLICY AND TEST STATEMENT

1.1 DOCUMENT POLICY

- The report shall not be reproduced except in full, without the written approval of SRT Lab, Inc.
- The report must not be used by the applicant to claim that the product is endorsed by NVLAP, TÜV, NEMKO and SRT.
- The NVLAP logo applies only to the applicable standards specified in this report.

1.2 TEST STATEMENT

- The test results in the report apply only to the unit tested by SRT Lab.
- There was no deviation from the requirements of test standards during the test.
- AC power source, 120 Vac/60 Hz, was used during the test.



Reference No.:A04060903 Report No.:FCBA04060903

Page:4 of 23

Date:June 16, 2004

2. DESCRIPTION OF EUT AND TEST MODE

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless K + M
MODEL NO.	KB-3008/R
POWER SUPPLY	5Vdc from USB Port of PC system
CABLE	1.5m shielded USB cable

NOTE:

The product is a wireless mouse which includes transmitter part (TX) and receiver part (RX).

EUT	Model No.
Transmitter part (TX)	KB-3008/T, KB-3008/KB
Receiver part (RX)	KB-3008/R

For more detailed features, please refer to the manufacturer's specification or User's Manual.

2.2 DESCRIPTION OF EUT INTERNAL DEVICE

DEVICE	BRAND / MAKER	MODEL#	FCC ID/DOC	REMARK
N/A				

2.3 DESCRIPTION OF TEST MODE

The EUT was tested for emission measurement under the following situations:

	Mode	Remark
1	Rx-Link	Without charger box
2	Rx-Link+Charger	There are two batteries in charger box
3	Rx-Link+Charger Only	There is no battery in charger box



Reference No.:A04060903 Report No.:FCBA04060903

Page:5 of 23

Date:June 16, 2004

2.4 DESCRIPTION OF SUPPORT UNIT

The EUT was configured by the requirement of ANSI C63.4:2003 and CISRP22:2003. All interface ports were connected to the appropriate support units via specific cables. The support units and cables are listed below.

NO	DEVICE	BRAND	MODEL #	FCC ID/DOC	CABLE
1	NOTEBOOK	DELL	PP01L	DOC	1.8m unshielded power cord
2	MODEM	ACEEX	DM-1414	DOC	1.5m unshielded power cord 1.5m shielded data cable
3	PRINTER	EPSON	STYLUS C20SX	DOC	1.8m unshielded power cord 1.5m shielded data cable

NOTE: For the actual test configuration, please refer to the photos of testing.

3. DESCRIPTION OF APPLIED STANDARDS

The EUT is a kind of wireless product and to be connected with a PC system for normal use. According to the specifications provided by the applicant, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart B, Class B ANSI C63.4:2003

All tests have been performed and recorded as per the above standards.



Reference No.:A04060903 Report No.:FCBA04060903

Page:6 of 23

Date:June 16, 2004

4. CONDUCTED EMISSION TEST

4.1 CONDUCTED EMISSION LIMIT

FREQUENCY (MHz)	Class A	(dB _µ V)	Class B (dBμV)		
FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	
0.15 - 0.5	79	66	66 - 56	56 - 46	
0.5 - 5.0	73	60	56	46	
5.0 - 30.0	73	60	60	50	

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.2 TEST EQUIPMENT

The following test equipment was used for the test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER	
EMI TEST	9 kHz TO	ROHDE &	ESCS30/	AUG. 2004	
RECEIVER	2750 MHz	SCHWARZ	830245/012	ETC	
LISN (for EUT)	50 μH, 50 ohm	SOLAR ELECTRONICS	FCC-LISN-50-25-2 / 01018	NOV. 2004 ETC	
LISN	FOULL FO char	SOLAR	9252-50-R-24-BNC	JUN. 2005	
(for Peripheral)	50μH, 50 ohm	ELECTRONICS	/ 951318	ETC	
50 ohm	50 ob m	IID.	11593A/	MAR. 2005	
TERMINATOR	50 ohm	HP	2	ETC	
COAXIAL	2	SUNCITY	J400/	JUL. 2005	
CABLE	3m	SUNCITY	3M	SRT	
ISOLATION	N/A	٠. کار	AFC-11015/	NI/A	
TRANSFORMER	IN/A	APC	F102040016	N/A	
FILTED	OLINE 20A	LII COII	FC-943/	NI/A	
FILTER	2 LINE, 30A	FIL.COIL	771	N/A	
GROUND PLANE	2.3M (H) x	SRT	NI/A	NI/A	
GROUND PLANE	2.4M (W)	SKI	N/A	N/A	
GROUND PLANE	2.4M (H) x	SRT	N/A	NI/A	
GROUND PLANE	2.4M (W)	JN I	IN/A	N/A	

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

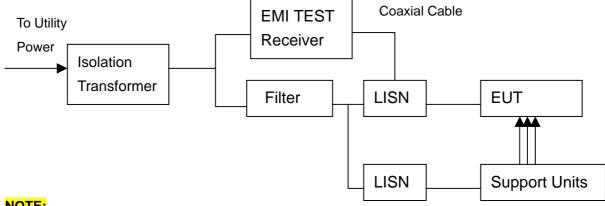


Reference No.:A04060903 Report No.:FCBA04060903

Page:7 of 23

Date:June 16, 2004

4.3 TEST SETUP



NOTE:

- 1. The EUT was put on a wooden table with 0.8m heights above ground plane, and 0.4m away from reference ground plane (> 2mx2m).
- 2. For the actual test configuration, please refer to the photos of testing.
- 3. The serial no. of the LISN connected to EUT is 951318.
- 4. The serial no. of the LISN connected to support units is 924839.

4.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003 and CISRP22:2003. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50µH as specified. All readings were quasi-peak and average values with 10 kHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. Both lines of the power mains of EUT were measured and the cables connected to EUT and support units were moved to find the maximum emission levels for each frequency. First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

4.5 EUT OPERATING CONDITION

- 1. Under Windows XP run "EMI TEST" and "WORD" program and PC sent "H" pattern or accessed the following peripherals directly or via EUT:
 - Color Monitor
 - **RS232**
 - Keyboard
 - EUT (RX)
 - Printer
 - FDD
 - HDD



Reference No.:A04060903 Report No.:FCBA04060903

Page:8 of 23

Date:June 16, 2004

4.6 TEST RESULT

Temperature: 25°C Humidity: 53 %RH

Ferquency Range: 0.15 – 30 MHz Tested Mode: 1(Rx-Link)

Receiver Detector: Q.P. and AV. Tested By: Kevin Liao

Tested Date: June 11, 2004

Power Line Measured: Line

Freq. (MHz)	Correct. Factor		g Value µV)		n Level μV)		nit μV)		gin B)
	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.177	0.20	48.8	39.5	49.0	39.7	64.6	54.6	-15.6	-14.9
0.183	0.20	46.9	37.4	47.1	37.6	64.3	54.3	-17.2	-16.7
1.153	0.20	35.7	23.8	35.9	24.0	56.0	46.0	-20.1	-22.0
1.240	0.20	33.1	24.5	33.3	24.7	56.0	46.0	-22.7	-21.3
5.558	0.20	31.8	26.5	32.0	26.7	60.0	50.0	-28.0	-23.3
27.782	0.25	24.3	11.5	24.6	11.8	60.0	50.0	-35.4	-38.2

Power Line Measured: Neutral

Freq.	Correct. Factor		g Value μV)		n Level μV)		nit μV)	Mar (d	gin B)
()	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.180	0.20	47.0	38.8	47.2	39.0	64.5	54.5	-17.2	-15.5
0.538	0.20	30.4	27.1	30.6	27.3	56.0	46.0	-25.4	-18.7
3.358	0.20	28.7	25.0	28.9	25.2	56.0	46.0	-27.1	-20.8
5.102	0.20	29.3	25.8	29.5	26.0	60.0	50.0	-30.5	-24.0
5.162	0.20	28.8	26.2	29.0	26.4	60.0	50.0	-31.0	-23.6
25.404	0.21	24.4	19.1	24.6	19.3	60.0	50.0	-35.4	-30.7

- 1. Measurement uncertainty is +/-1.32dB
- 2. Emission level = Reading value + Correction factor
- 3. Correction Factor = Cable loss + Insertion loss of LISN
- 4. Margin value = Emission level Limit
- 5. The emission of other frequencies were very low against the limit.
- 6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



Reference No.:A04060903 Report No.:FCBA04060903

Page:9 of 23

Date:June 16, 2004

Temperature: 25°C Humidity: 53 %RH

Ferquency Range: 0.15 – 30 MHz Tested Mode: 2(Rx-Link+Charger)

Receiver Detector: Q.P. and AV. Tested By: Kevin Liao

Tested Date: June 11, 2004

Power Line Measured: Line

Freq.	Correct. Factor		g Value μV)		n Level μV)		nit μV)	Mar (d	•
(1=)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.180	0.20	48.7	40.9	48.9	41.1	64.5	54.5	-15.6	-13.4
1.182	0.20	31.8	19.0	32.0	19.2	56.0	46.0	-24.0	-26.8
2.576	0.20	29.6	26.2	29.8	26.4	56.0	46.0	-26.2	-19.6
5.213	0.20	28.6	25.2	28.8	25.4	60.0	50.0	-31.2	-24.6
5.274	0.20	28.2	25.5	28.4	25.7	60.0	50.0	-31.6	-24.3
26.378	0.23	26.5	18.0	26.7	18.2	60.0	50.0	-33.3	-31.8

Power Line Measured: Neutral

Freq.	Correct. Factor		g Value μV)		n Level μV)		nit μV)	Mar (d	
((dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.177	0.20	44.6	36.6	44.8	36.8	64.6	54.6	-19.8	-17.8
0.538	0.20	28.8	24.5	29.0	24.7	56.0	46.0	-27.0	-21.3
3.665	0.20	34.6	28.1	34.8	28.3	56.0	46.0	-21.2	-17.7
5.284	0.20	27.3	22.5	27.5	22.7	60.0	50.0	-32.5	-27.3
5.345	0.20	27.7	23.6	27.9	23.8	60.0	50.0	-32.1	-26.2
27.843	0.26	19.3	18.6	19.6	18.8	60.0	50.0	-40.4	-31.2

- 1. Measurement uncertainty is +/-1.32dB
- 2. Emission level = Reading value + Correction factor
- 3. Correction Factor = Cable loss + Insertion loss of LISN
- 4. Margin value = Emission level Limit
- 5. The emission of other frequencies were very low against the limit.
- 6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



Reference No.:A04060903 Report No.:FCBA04060903

Page:10 of 23 Date:June 16, 2004

Temperature: 25°C Humidity: 53 %RH

Ferquency Range: 0.15 – 30 MHz Tested Mode: 3(Rx-Link+Charger Only)

Receiver Detector: Q.P. and AV. Tested By: Kevin Liao

Tested Date: June 11, 2004

Power Line Measured: Line

Freq.	Factor	Reading Value (dBμV)			n Level μV)	Limit (dBμV)		Margin (dB)	
(3333.2)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.177	0.20	49.6	41.0	49.8	41.2	64.6	54.6	-14.8	-13.4
0.654	0.20	27.9	25.7	28.1	25.9	56.0	46.0	-27.9	-20.1
2.794	0.20	29.1	26.3	29.3	26.5	56.0	46.0	-26.7	-19.5
3.210	0.20	28.7	25.6	28.9	25.8	56.0	46.0	-27.1	-20.3
5.650	0.20	26.6	23.1	26.8	23.3	60.0	50.0	-33.2	-26.7
26.993	0.24	27.5	19.9	27.8	20.1	60.0	50.0	-32.2	-29.9

Power Line Measured: Neutral

Freq.	Correct. Factor	Reading Value (dBμV)			n Level μV)		nit μV)	Mar (d	
	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.180	0.20	48.1	40.0	48.3	40.2	64.5	54.5	-16.1	-14.3
0.538	0.20	29.6	25.6	29.8	25.8	56.0	46.0	-26.2	-20.2
3.338	0.20	32.6	27.0	32.8	27.2	56.0	46.0	-23.2	-18.8
5.244	0.20	27.0	22.7	27.2	22.9	60.0	50.0	-32.8	-27.2
5.305	0.20	27.6	23.9	27.8	24.1	60.0	50.0	-32.2	-25.9
28.202	0.26	27.8	19.1	28.0	19.3	60.0	50.0	-32.0	-30.7

- 1. Measurement uncertainty is +/-1.32dB
- 2. Emission level = Reading value + Correction factor
- 3. Correction Factor = Cable loss + Insertion loss of LISN
- 4. Margin value = Emission level Limit
- 5. The emission of other frequencies were very low against the limit.
- 6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



Reference No.:A04060903 Report No.:FCBA04060903

Page:11 of 23

Date:June 16, 2004

5. RADIATED EMISSION TEST

5.1 RADIATED EMISSION LIMIT

FCC Part 15, Subpart B Section 15.209.

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (dBμV/m)
30 - 88	3	40.0
88 - 216	3	43.5
216 - 960	3	46.0
Above 960	3	54.0

NOTE:

- 1. In the emission tables above, the tighter limit applies at the band edges.
- 2. Distance refers to the distance between measuring instrument, antemma, and the closest point of any part of the device or system.

5.2 TEST EQUIPMENT

The following test equipment was used during the radiated emission test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST	20 MHz TO	ROHDE &	ESVS30/	AUG. 2004
RECEIVER	1000 MHz	SCHWARZ	841977/003	ETC
BI-LOG	25 MHz TO	LMCO	3142/	APR. 2005
ANTENNA	2 GHz	EIVICO	9701-1124	SRT
DIPOLE	30 MHz TO	EMCO	3121C/	MAR. 2005
ANTENNA	1 GHz	EMCO	9611-1239	ETC
OATS	3 – 10 M	CDT	CDT 4	APR. 2005
UAIS	MEASUREMENT	SKI	3K1-1	SRT
COAXIAL	25M	CLINICITY	J400/	AUG. 2004
CABLE	ZOIVI	SUNCITY	25M	SRT
CII TED	211NF 204		FC-943/	NI/A
FILTER	2 LINE, 30A	FIL.COIL	869	IN/A
FREQUENCY	FREQUENCY		AFC-2KBB/	AUG. 2004
CONVERTER	N/A	EMCO 3142/ 9701-1124 APR. 2005 SRT EMCO 3121C/ 9611-1239 MAR. 2005 ETC SRT SRT-1 APR. 2005 SRT SUNCITY J400/ 25M AUG. 2004 SRT FIL.COIL FC-943/ 869 N/A		SRT

- 1. The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.
- 2. The Open Area Test Site (SRT-1) is registered by FCC with No. 90957 and VCCI with No. R-1081.
- 3. The Open Area Test Site (SRT-2) is registered by FCC with No. 98458 and VCCI with No. R-1168.

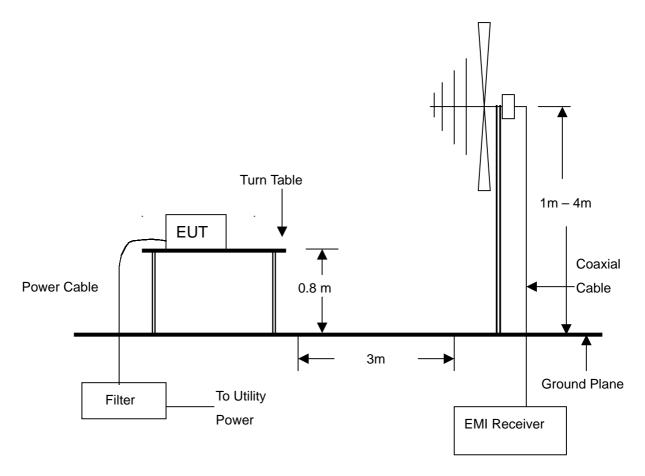


Reference No.:A04060903 Report No.:FCBA04060903

Page:12 of 23

Date:June 16, 2004

5.3 TEST SET-UP



- 1. The EUT system was put on a wooden table with 0.8m heights above a ground plane.
- 2. For the actual test configuration, please refer to the photos of testing.



Reference No.:A04060903 Report No.:FCBA04060903

Page:13 of 23 Date:June 16, 2004

5.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003. The measurements were made at an open area test site with 3 meter measurement distance under 1 GHz and with 3m distance above 1GHz. The frequency spectrum measured started from 30 MHz. Under 1 GHz, all readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak or average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

5.5 EUT OPERATING CONDITION

Same as section 4.5 of this report.



Reference No.:A04060903 Report No.:FCBA04060903

Page:14 of 23 Date:June 16, 2004

5.6 RADIATED EMISSION TEST RESULT

26°C 59 %RH Temperature: Humidity: Ferquency Range: 30 – 1000 MHz Measured Distance: 3m Receiver Detector: Q.P. Tested Mode: 1(Rx-Link) Tested Date: June 16, 2004 Tested By: Kevin Liao

Antenna Polarization:Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
51.1370	0.76	8.40	11.9	21.1	40.0	-18.9	199.4	4.00
110.6750	1.13	6.40	24.6	32.1	43.5	-11.4	93.7	3.83
134.6260	1.21	7.36	26.1	34.7	43.5	-8.8	342.4	4.00
217.0180	1.60	10.27	21.3	33.2	46.0	-12.8	181.6	3.26
533.4475	2.79	19.98	16.9	39.7	46.0	-6.3	98.3	2.67
664.2720	3.11	21.24	15.9	40.2	46.0	-5.8	245.9	2.94

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
51.1370	0.76	8.40	24.6	33.8	40.0	-6.2	81.7	1.00
110.6750	1.13	6.40	26.0	33.5	43.5	-10.0	128.9	1.29
134.6270	1.21	7.36	24.1	32.7	43.5	-10.8	254.3	1.00
217.0180	1.60	10.27	20.8	32.7	46.0	-13.3	318.4	1.46
400.3480	2.29	15.80	21.4	39.5	46.0	-6.5	193.1	1.83
533.4475	2.79	19.98	14.7	37.5	46.0	-8.5	62.3	1.94

- 1. Measurement uncertainty is +/-2dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 4. The field strength of other emission frequencies were very low against the limit.



Reference No.:A04060903 Report No.:FCBA04060903

Page:15 of 23 Date:June 16, 2004

Temperature: 26°C Humidity: 59 %RH

Ferquency Range: 30 – 1000 MHz Measured Distance: 3m

Receiver Detector: Q.P. Tested Mode: 2(Rx-Link+Charger)

Tested Date: June 16, 2004 Tested By: Kevin Liao

Antenna Polarization:Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
51.1370	0.76	8.40	12.6	21.8	40.0	-18.2	173.4	3.69
110.6750	1.13	6.40	27.9	35.4	43.5	-8.1	128.7	3.92
217.0180	1.60	10.27	24.2	36.1	46.0	-9.9	305.4	3.44
533.4475	2.79	19.98	17.4	40.2	46.0	-5.8	211.7	2.93
625.4370	3.00	20.90	15.6	39.5	46.0	-6.5	68.8	2.84
664.2720	3.11	21.24	14.3	38.6	46.0	-7.4	312.8	2.96

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
110.6750	1.13	6.40	26.0	33.5	43.5	-10.0	93.7	1.16
134.6270	1.21	7.36	25.1	33.7	43.5	-9.8	148.9	1.00
217.0180	1.60	10.27	23.7	35.6	46.0	-10.4	288.4	1.63
397.5490	2.28	15.81	19.4	37.5	46.0	-8.5	273.6	1.00
533.4475	2.79	19.98	13.5	36.3	46.0	-9.7	103.5	1.78
664.2710	3.11	21.24	10.6	34.9	46.0	-11.1	88.3	1.54

- 1. Measurement uncertainty is +/-2dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 4. The field strength of other emission frequencies were very low against the limit.



Reference No.:A04060903 Report No.:FCBA04060903

Page:16 of 23 Date:June 16, 2004

Temperature: 26°C Humidity: 59 %RH

Ferquency Range: 30 – 1000 MHz Measured Distance: 3m

Receiver Detector: Q.P. Tested Mode: 3(Rx-Link+Charger Only)

Tested Date: June 16, 2004 Tested By: Kevin Liao

Antenna Polarization:Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
51.1370	0.76	8.40	12.6	21.8	40.0	-18.2	172.9	3.61
110.6750	1.13	6.40	21.4	28.9	43.5	-14.6	137.6	4.00
217.0180	1.60	10.27	22.3	34.2	46.0	-11.8	205.4	3.42
453.7630	2.52	16.98	16.7	36.2	46.0	-9.8	311.7	3.71
533.4475	2.79	19.98	17.1	39.9	46.0	-6.1	93.4	2.94
664.2720	3.11	21.24	15.4	39.7	46.0	-6.3	342.8	2.88

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
110.6750	1.13	6.40	25.9	33.4	43.5	-10.1	69.1	1.16
134.6270	1.21	7.36	26.7	35.3	43.5	-8.2	118.7	1.42
217.0180	1.60	10.27	21.1	33.0	46.0	-13.0	328.9	1.29
400.3480	2.29	15.80	16.8	34.9	46.0	-11.1	283.6	1.57
533.4475	2.79	19.98	17.1	39.9	46.0	-6.1	88.4	1.33
664.2710	3.11	21.24	11.6	35.9	46.0	-10.1	59.7	1.72

- 1. Measurement uncertainty is +/-2dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 4. The field strength of other emission frequencies were very low against the limit.



Reference No.:A04060903 Report No.:FCBA04060903

Page:17 of 23

Date:June 16, 2004

6. PHOTOS OF TESTING

- Conducted test (Mode 1: Rx-Link)







Reference No.:A04060903 Report No.:FCBA04060903

Page:18 of 23 Date:June 16, 2004

- Conducted test (Mode 2: Rx-Link+Charger)







Reference No.:A04060903 Report No.:FCBA04060903

Page:19 of 23 Date:June 16, 2004

- Conducted test (Mode 3: Rx-Link+Charger Only)

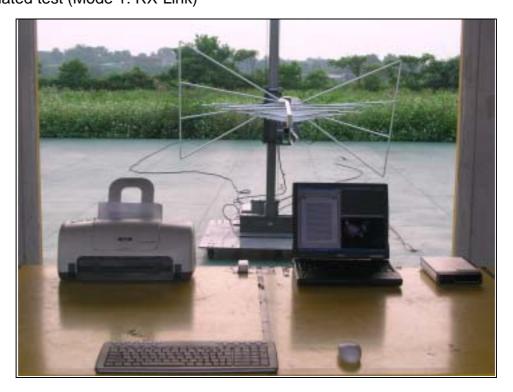






Reference No.:A04060903 Report No.:FCBA04060903 Page:20 of 23 Date:June 16, 2004

- Radiated test (Mode 1: RX-Link)







Reference No.:A04060903 Report No.:FCBA04060903 Page:21 of 23

Date:June 16, 2004

- Radiated test (Mode 2: RX-Link+Charger)



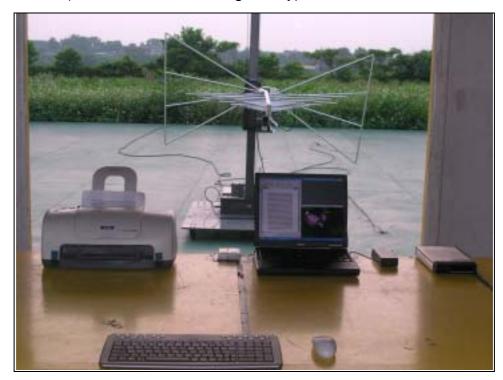




Reference No.:A04060903 Report No.:FCBA04060903 Page:22 of 23

Date:June 16, 2004

- Radiated test (Mode 3: RX-Link+Charger Only)







Reference No.:A04060903 Report No.:FCBA04060903 Page:23 of 23

Date:June 16, 2004

7. TERMS OF ABRIVATION

AV.	Average detection
AZ(°)	Turn table azimuth
Correct.	Correction
EL(m)	Antenna height (meter)
EUT	Equipment Under Test
Horiz.	Horizontal direction
LISN	Line Impedance Stabilization Network
NSA	Normalized Site Attenuation
Q.P.	Quasi-peak detection
SRT Lab	Spectrum Research & Testing Laboratory, Inc.
Vert.	Vertical direction