

*FCC PART 15, SUBPART B and C
TEST REPORT**for***MIGHTY MOUSE****MODEL: VP6800**

Prepared for

**SMK-LINK ELECTRONICS
3601-B CALLE TECATE
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DATE: APRIL 8, 2010

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GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Device Tested: Mighty Mouse
 Model: VP6800
 S/N: N/A

Product Description: See Expository Statement

Modifications: The EUT was modified in order to meet the specifications. Please see the list located in Appendix B.

Manufacturer: SMK-Link Electronics
 3601-B Calle Tecate
 Camarillo, California 93012

Test Dates: April 5, 6, and 7, 2010

Test Specifications: EMI requirements
 CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.249

Test Procedure: ANSI C63.4: 2003

Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 150 kHz – 30 MHz	Complies with the Class B limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, section 15.207 Highest reading in relation to spec limit: 41.16 dBuV @ 2.423 MHz (*U = 0.89 dB)
2	Radiated RF Emissions 10 kHz – 9300 MHz (Transmitter Portion)	Complies with the limits of CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.249 Highest reading in relation to spec limit: 93.52 dBuV @ 2441 MHz (*U = 5.34 dB)
3	Radiated RF Emissions 10 kHz – 9300 MHz (Digital and Receiver Portion)	Complies with the Class B limits of CFR Title 47, Part 15, Subpart B. Highest reading in relation to spec limit: 31.25 dBuV @ 480.14 MHz (*U = 3.25 dB)

*U = Expanded Uncertainty with a coverage factor of k=2

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Mighty Mouse, Model: VP6800. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the Class B specification limits defined by CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.207, 15.209, and 15.249.

Note: For the unintentional radiator portion of the test, the EUT was within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B.

2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California 92823.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

SMK-Link Electronics

Massoud Nakan	G.M. Engineering & Program Management
Daniel Grieder	RF/HW Engineer

Compatible Electronics Inc.

Kyle Fujimoto	Test Engineer
James Ross	Test Engineer

2.4 Date Test Sample was Received

The test sample was received prior to the date of testing.

2.5 Disposition of the Test Sample

The test sample was returned prior to the date of this report.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network
N/A	Not Applicable

3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
FCC Title 47, Part 15 Subpart C	FCC Rules - Radio frequency devices (including digital devices) – Intentional Radiators
ANSI C63.4 2003	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz
FCC Title 47, Part 15 Subpart B	FCC Rules - Radio frequency devices (including digital devices) – Unintentional Radiators

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration - EMI

Stand Alone Mode: The Mighty Mouse, Model: VP6800 (EUT) was tested as a stand alone unit and continuously transmitting or receiving.

Charging Mode: The Mighty Mouse, Model: VP6800 (EUT) was connected to a laptop via its USB port. The laptop was also connected to a printer and AC Adapter via its parallel and power ports, respectively. The EUT was continuously transmitting or receiving. The EUT's batteries were also being charged during the testing.

Note: The EUT's antenna is a PCB style antenna and is on the PCB itself.

It was determined that the emissions were at their highest level when the EUT was operating in the above configuration. The final emissions data was taken in this mode of operation and any cables were maximized. All initial investigations were performed with the measurement receiver in manual mode scanning the frequency range continuously. Photographs of the test setup are in Appendix D of this report.

4.1.1 Cable Construction and Termination

Cable 1

This is a 2-meter braid and shielded cable connecting the laptop to the printer. The cable has a D-25 pin metallic connector at the laptop end and a metallic Centronics type connector at the printer end. The cable is bundled to a length of 1-meter. The shield of the cable was grounded to the chassis via the connectors.

Cable 2

This is a 2-meter unshielded cable connecting the laptop to the AC Adapter. The cable has a 1/8 inch power connector at the laptop end and is hard wired into the AC Adapter. The cable is bundled to a length of 1-meter. The cable has a molded ferrite at the laptop end.

Cable 3

This is a 2-meter braid shielded cable connecting the laptop to the EUT. The cable has a metallic USB type 'A' connector at the laptop end and a metallic mini-USB connector at the EUT end. The shield of the cable was grounded to the chassis via the connectors.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT**5.1 EUT and Accessory List**

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
MIGHTY MOUSE (EUT)	SMK-LINK ELECTRONICS	VP6800	N/A	IE3VP68XX10
LAPTOP	IBM	2379-R8U	L3-CH837	DoC
AC ADAPTER FOR LAPTOP	IBM	P/N: 83H6339	J14HL39022W	N/A
PRINTER	CITIZEN	LSP-10	1262247	DLK66TLSP-10

5.2 EMI Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS					
Computer	Hewlett Packard	4530	US91912319	N/A	N/A
Spectrum Analyzer – Main Section	Hewlett Packard	8566B	3638A08784	May 29, 2009	May 29, 2010
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	2648A14530	May 29, 2009	May 29, 2010
Quasi-Peak Adapter	Hewlett Packard	85650A	2430A00424	May 29, 2009	May 29, 2010
EMI Receiver	Rohde & Schwarz	ESIB40	100194	September 17, 2008	Sept. 17, 2010
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A
RF RADIATED EMISSIONS TEST EQUIPMENT					
Biconical Antenna	Com Power	AB-900	15250	February 16, 2010	Feb. 16, 2011
Log Periodic Antenna	Com Power	AL-100	16060	June 15, 2009	June 15, 2010
Preamplifier	Com-Power	PA-102	1017	January 6, 2010	Jan. 6, 2011
Loop Antenna	Com-Power	AL-130	17089	September 29, 2008	Sept. 29, 2010
Horn Antenna	Com-Power	AH-118	071175	March 18, 2010	March 18, 2012
Microwave Preamplifier	Com-Power	PA-122	181921	March 10, 2010	March 10, 2011
Horn Antenna	Com-Power	AH826	71957	N.C.R.	N.C.R.
Microwave Preamplifier	Com-Power	PA-840	711013	March 11, 2010	March 11, 2011
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A
RF RADIATED EMISSIONS TEST EQUIPMENT					
Emissions Program	Compatible Electronics	2.3 (SR19)	N/A	N/A	N/A
LISN	Com Power	LI-215	12078	September 28, 2009	Sept. 28, 2010
LISN	Com Power	LI-215	12082	September 28, 2009	Sept. 28, 2010
Transient Limiter	Com Power	252A910	1	September 28, 2009	Sept. 28, 2010

6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 and 7.1 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

Stand Alone Mode: The EUT was not grounded.

Charging Mode: The EUT was grounded to the laptop via the shield of the USB cable.

7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

7.1 RF Emissions

7.1.1 Conducted Emissions Test

The spectrum analyzer was used as a measuring meter. The data was collected with the spectrum analyzer in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A transient limiter was used for the protection of the spectrum analyzer input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the spectrum analyzer. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for this test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4: 2003. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The conducted emissions from the EUT were maximized for operating mode as well as cable placement. The final data was collected under program control by the Compatible Electronics conducted emissions software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave. The final qualification data is located in Appendix E.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, section 15.207.

7.1.2 Radiated Emissions (Spurious and Harmonics) Test

The spectrum analyzer and EMI Receiver were used as a measuring meter along with the quasi-peak adapter. Amplifiers were used to increase the sensitivity of the instrument. The Com Power Preamplifier Model: PA-102 was used for frequencies from 30 MHz to 1 GHz and the Com Power Microwave Preamplifier Model: PA-122 was used for frequencies above 1 GHz. The spectrum analyzer and EMI Receiver were used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps.

The quasi-peak adapter was used only for those readings which are marked accordingly on the data sheets.

The frequencies above 1 GHz were averaged manually by narrowing the video filter down to 10 Hz and putting the sweep time on AUTO on the EMI Receiver to keep the amplitude reading calibrated.

The measurement bandwidths and transducers used for the radiated emissions test were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
10 kHz to 150 kHz	200 Hz	Active Loop Antenna
150 kHz to 30 MHz	9 kHz	Active Loop Antenna
30 MHz to 300 MHz	120 kHz	Biconical Antenna
300 MHz to 1 GHz	120 kHz	Log Periodic Antenna
1 GHz to 25 GHz	1 MHz	Horn Antenna

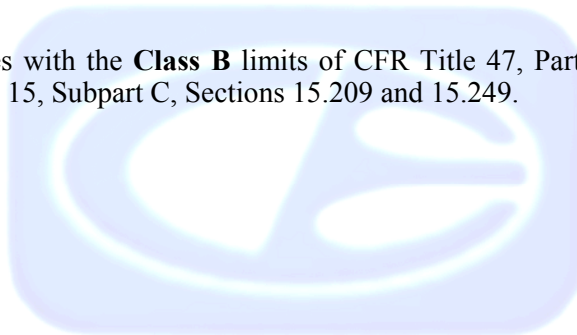
The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4: 2003. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT by the Radiated Emission Manual Test software. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results. The loop antenna was also rotated in the horizontal and vertical axis in order to ensure accurate results.

Radiated Emissions (Spurious and Harmonics) Test (con't)

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3-meter test distance to obtain the final test data.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, Sections 15.209 and 15.249.



8. CONCLUSIONS

The Mighty Mouse Model: VP6800, as tested, meets all of the specification limits defined in FCC Title 47, Part 15, Subpart C, sections 15.205, 15.207, 15.209, and 15.249.

Note: For the unintentional radiator and receiver portion of the test, the EUT was within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B.



APPENDIX A

LABORATORY RECOGNITIONS

LABORATORY RECOGNITIONS

Compatible Electronics has the following agency accreditations:

National Voluntary Laboratory Accreditation Program - Lab Code: 200528-0

Voluntary Control Council for Interference - Registration Numbers: R-983, C-1026, R-984 and C-1027

Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

Compatible Electronics is recognized or on file with the following agencies:

Federal Communications Commission

Industry Canada



APPENDIX B

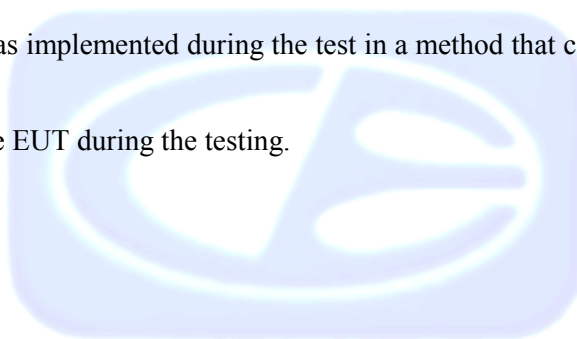
MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC Subpart B and FCC 15.249 specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

No modifications were made to the EUT during the testing.



APPENDIX C

***ADDITIONAL MODELS COVERED
UNDER THIS REPORT***

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Mighty Mouse
Model: VP6800
S/N: N/A

There were no additional models covered under this report.



APPENDIX D***DIAGRAMS, CHARTS, AND PHOTOS***

FIGURE 1: CONDUCTED EMISSIONS TEST SETUP

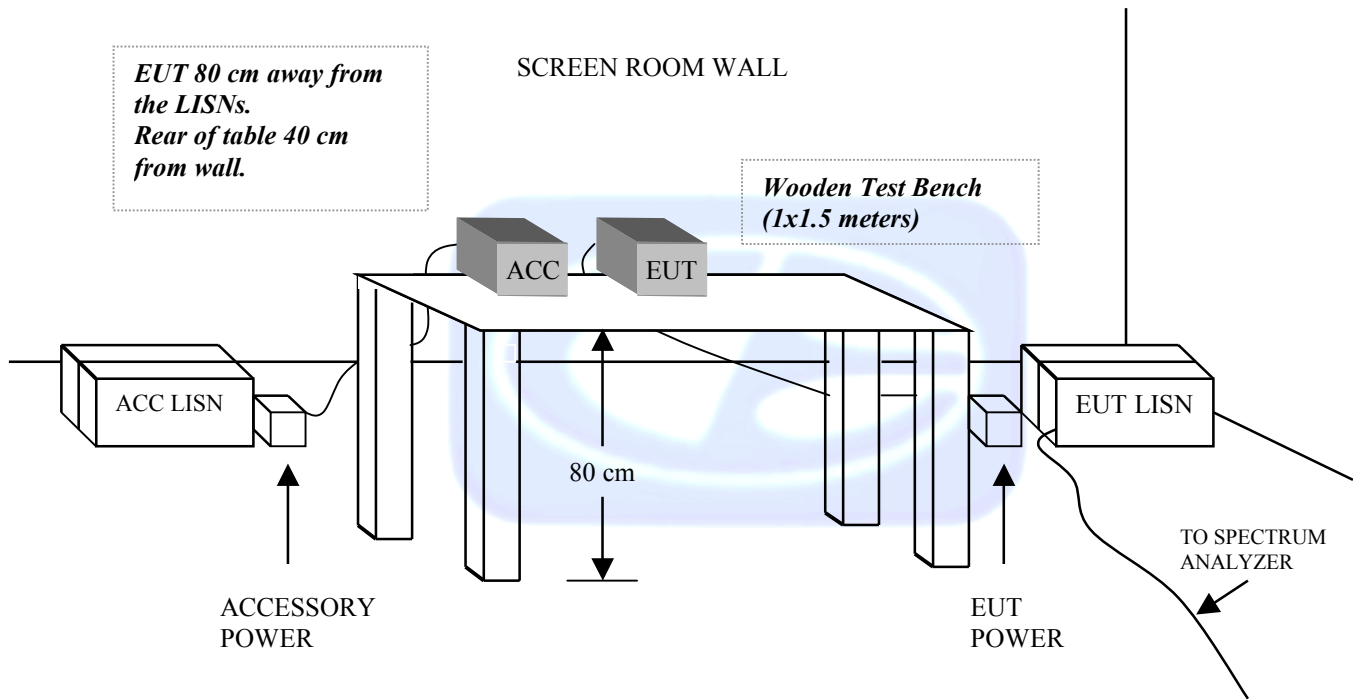
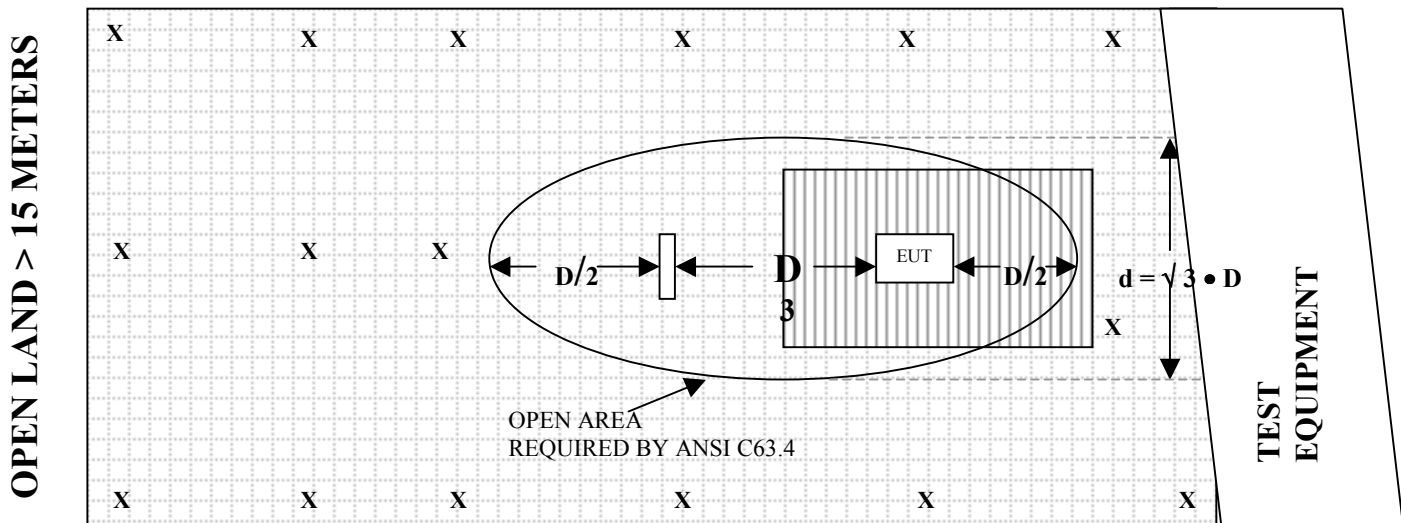


FIGURE 2: PLOT MAP AND LAYOUT OF RADIATED SITE – 3 METERS

OPEN LAND > 15 METERS



OPEN LAND > 15 METERS

X	= GROUND RODS		= GROUND SCREEN
D	= TEST DISTANCE (meters)		= WOOD COVER

COM-POWER AB-900**BICONICAL ANTENNA****S/N: 15250****CALIBRATION DATE: FEBRUARY 16, 2010**

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	13.5	100	11.1
35	10.4	120	13.1
40	10.3	140	12.2
45	9.8	160	13.6
50	10.6	180	15.9
60	9.5	200	16.4
70	8.4	250	15.1
80	5.5	275	17.7
90	7.3	300	19.5

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16060

CALIBRATION DATE: JUNE 15, 2009

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	14.2	700	20.1
400	15.9	800	21.2
500	17.1	900	21.3
600	18.8	1000	22.3

COM POWER AH-118**HORN ANTENNA**

S/N: 071175

CALIBRATION DATE: MARCH 18, 2010

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	22.2	10.0	39.8
1.5	24.2	10.5	40.2
2.0	27.2	11.0	39.7
2.5	27.8	11.5	39.9
3.0	30.5	12.0	41.7
3.5	30.9	12.5	42.7
4.0	31.9	13.0	42.3
4.5	33.2	13.5	40.3
5.0	33.6	14.0	42.6
5.5	36.2	14.5	43.4
6.0	35.8	15.0	41.9
6.5	36.1	15.5	40.8
7.0	37.9	16.0	41.0
7.5	37.4	16.5	41.5
8.0	38.0	17.0	44.5
8.5	38.8	17.5	47.6
9.0	38.0	18.0	50.8
9.5	39.2		

COM-POWER PA-102**PREAMPLIFIER**

S/N: 1017

CALIBRATION DATE: JANUARY 6, 2010

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
20	38.0	300	38.2
30	38.3	350	38.1
40	38.4	400	38.5
50	38.2	450	38.0
60	38.2	500	37.9
70	38.3	550	38.2
80	38.1	600	38.2
90	38.2	650	37.7
100	38.3	700	38.3
125	38.2	750	38.3
150	38.3	800	37.4
175	38.3	850	37.5
200	38.1	900	37.6
225	38.2	950	37.4
250	38.3	1000	37.3
275	38.2		

COM-POWER PA-122**PREAMPLIFIER****S/N: 181921****CALIBRATION DATE: MARCH 10, 2010**

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	35.53	10.0	34.78
1.5	34.92	10.5	34.36
2.0	34.63	11.0	33.14
2.5	34.42	11.5	34.42
3.0	34.40	12.0	34.24
3.5	34.36	12.5	34.95
4.0	34.11	13.0	34.62
4.5	33.61	13.5	35.24
5.0	33.83	14.0	35.40
5.5	34.53	14.5	36.66
6.0	35.09	15.0	35.98
6.5	35.58	15.5	35.94
7.0	36.50	16.0	35.80
7.5	34.83	16.5	34.98
8.0	34.08	17.0	35.00
8.5	33.57	17.5	34.25
9.0	34.68	18.0	33.51
9.5	35.84	18.5	32.88

COM-POWER AL-130**LOOP ANTENNA**

S/N: 17089

CALIBRATION DATE: SEPTEMBER 29, 2008

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-41.57	9.93
0.01	-42.06	9.44
0.02	-42.43	9.07
0.05	-42.50	9.00
0.07	-42.10	9.40
0.1	-42.03	9.47
0.2	-44.50	7.00
0.3	-41.93	9.57
0.5	-41.90	9.60
0.7	-41.73	9.77
1	-41.23	10.27
2	-40.90	10.60
3	-41.20	10.30
4	-41.30	10.20
5	-40.70	10.80
10	-41.10	10.40
15	-42.17	9.33
20	-42.00	9.50
25	-42.20	9.30
30	-43.10	8.40

COM-POWER PA-840**PREAMPLIFIER-MICROWAVE**

S/N: 711013

CALIBRATION DATE: MARCH 11, 2010

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
18.0	24.36	29.0	24.83
18.5	24.54	29.5	23.52
19.0	24.06	30.0	21.73
19.5	23.71	30.5	22.34
20.0	23.42	31.0	20.06
20.5	22.87	31.5	20.02
21.0	22.60	32.0	18.11
21.5	21.08	32.5	19.35
22.0	22.13	33.0	17.50
22.5	22.42	33.5	17.49
23.0	22.85	34.0	17.48
23.5	22.85	34.5	18.57
24.0	23.82	35.0	18.64
24.5	22.33	35.5	18.82
25.0	24.09	36.0	19.14
25.5	23.20	36.5	18.58
26.0	23.18	37.0	15.07
26.5	23.50	37.5	17.29
27.0	24.25	38.0	20.82
27.5	23.58	38.5	19.96
28.0	23.81	39.0	20.06
28.5	23.76	39.5	21.41

COM-POWER AH826**HORN ANTENNA**

S/N: 71957

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
18.0	33.5	22.5	35.5
18.5	33.5	23.0	35.9
19.0	34.0	23.5	35.7
19.5	34.0	24.0	35.6
20.0	34.3	24.5	36.0
20.5	34.9	25.0	36.2
21.0	34.7	25.5	36.1
21.5	35.0	26.0	36.2
22.0	35.0	26.5	35.7



FRONT VIEW

SMK-LINK ELECTRONICS
MIGHTY MOUSE
MODEL: VP6800

FCC SUBPART B AND C – STAND ALONE MODE – RADIATED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



REAR VIEW

SMK-LINK ELECTRONICS
MIGHTY MOUSE
MODEL: VP6800

FCC SUBPART B AND C – STAND ALONE MODE – RADIATED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



FRONT VIEW

SMK-LINK ELECTRONICS
MIGHTY MOUSE
MODEL: VP6800

FCC SUBPART B AND C – CHARGING MODE – RADIATED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



REAR VIEW

SMK-LINK ELECTRONICS
MIGHTY MOUSE
MODEL: VP6800

FCC SUBPART B AND C – CHARGING MODE – RADIATED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



FRONT VIEW

SMK-LINK ELECTRONICS
MIGHTY MOUSE
MODEL: VP6800

FCC SUBPART B AND C – CHARGING MODE – CONDUCTED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



REAR VIEW

SMK-LINK ELECTRONICS
MIGHTY MOUSE
MODEL: VP6800

FCC SUBPART B AND C – CHARGING MODE – CONDUCTED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

**Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600**

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

APPENDIX E

DATA SHEETS

RADIATED EMISIONS

DATA SHEETS

FCC 15.249

SMK-Link Electronics
Mighty Mouse
Model: VP6800

Date: 04/05/2010
Lab: B
Tested By: Kyle Fujimoto

**Low Channel
Stand Alone Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2405	94.51	V	94	0.51	Peak	2.25	45	
2405	93.05	V	94	-0.95	Avg	2.25	45	
4810	47.96	V	74	-26.04	Peak	2.25	45	
4810	38.61	V	54	-15.39	Avg	2.25	45	
7215	50.03	V	94	-43.97	Peak	2.25	45	
7215	37.18	V	94	-56.82	Avg	2.25	45	
9620	48.04	V	74	-25.96	Peak	2.25	45	
9620	36.44	V	54	-17.56	Avg	2.25	45	
12025								No Emission
12025								Detected
14430								No Emission
14430								Detected
16835								No Emission
16835								Detected
19240								No Emission
19240								Detected
21645								No Emission
21645								Detected
24050								No Emission
24050								Detected

FCC 15.249

SMK-Link Electronics
Mighty Mouse
Model: VP6800

Date: 04/05/2010
Lab: B
Tested By: Kyle Fujimoto

Low Channel Stand Alone Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2405	88.42	H	94	-5.58	Peak	1.25	135	
2405	87.32	H	94	-6.68	Avg	1.25	135	
4810	46.96	H	74	-27.04	Peak	1.25	155	
4810	37.51	H	54	-16.49	Avg	1.25	155	
7215	48.61	H	74	-25.39	Peak	1.35	165	
7215	35.88	H	54	-18.12	Avg	1.35	165	
9620	47.62	H	74	-26.38	Peak	1.25	135	
9620	36.16	H	54	-17.84	Avg	1.25	135	
12025								No Emission
12025								Detected
14430								No Emission
14430								Detected
16835								No Emission
16835								Detected
19240								No Emission
19240								Detected
21645								No Emission
21645								Detected
24050								No Emission
24050								Detected

FCC 15.249

SMK-Link Electronics
Mighty Mouse
Model: VP6800

Date: 04/05/2010
Lab: B
Tested By: Kyle Fujimoto

Middle Channel
Stand Alone Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2441	94.49	V	94	0.49	Peak	2.75	45	
2441	93.42	V	94	-0.58	Avg	2.75	45	
4882	50.51	V	74	-23.49	Peak	2.85	135	
4882	42.29	V	54	-11.71	Avg	2.85	135	
7323	50.44	V	74	-23.56	Peak	1.25	155	
7323	39.51	V	54	-14.49	Avg	1.25	155	
9764	50.34	V	74	-23.66	Peak	1.25	165	
9764	37.82	V	54	-16.18	Avg	1.25	165	
12205								No Emission
12205								Detected
14646								No Emission
14646								Detected
17087								No Emission
17087								Detected
19528								No Emission
19528								Detected
21969								No Emission
21969								Detected
24410								No Emission
24410								Detected

FCC 15.249

SMK-Link Electronics
Mighty Mouse
Model: VP6800

Date: 04/05/2010
Lab: B
Tested By: Kyle Fujimoto

**Middle Channel
Stand Alone Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2441	88.62	H	94	-5.38	Peak	1.25	135	
2441	87.73	H	94	-6.27	Avg	1.25	135	
4882	48.51	H	74	-25.49	Peak	1.35	165	
4882	38.31	H	54	-15.69	Avg	1.35	165	
7323	50.02	H	74	-23.98	Peak	1.25	175	
7323	35.61	H	54	-18.39	Avg	1.25	175	
9764	50.64	H	74	-23.36	Peak	1.35	185	
9764	37.52	H	54	-16.48	Avg	1.35	185	
12205								No Emission
12205								Detected
14646								No Emission
14646								Detected
17087								No Emission
17087								Detected
19528								No Emission
19528								Detected
21969								No Emission
21969								Detected
24410								No Emission
24410								Detected

FCC 15.249

SMK-Link Electronics
Mighty Mouse
Model: VP6800

Date: 04/05/2010
Lab: B
Tested By: Kyle Fujimoto

**High Channel
Stand Alone Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2470	94.21	V	94	0.21	Peak	1.25	135	
2470	93.08	V	94	-0.92	Avg	1.25	135	
4940	50.36	V	74	-23.64	Peak	1.25	155	
4940	42.55	V	54	-11.45	Avg	1.25	155	
7410	53.88	V	74	-20.12	Peak	1.35	165	
7410	44.44	V	54	-9.56	Avg	1.35	165	
9880	50.42	V	74	-23.58	Peak	1.25	135	
9880	38.16	V	54	-15.84	Avg	1.25	135	
12350								No Emission
12350								Detected
14820								No Emission
14820								Detected
17290								No Emission
17290								Detected
19760								No Emission
19760								Detected
22230								No Emission
22230								Detected
24700								No Emission
24700								Detected

FCC 15.249

SMK-Link Electronics
Mighty Mouse
Model: VP6800

Date: 04/05/2010
Lab: B
Tested By: Kyle Fujimoto

**High Channel
Stand Alone Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2470	89.52	H	94	-4.48	Peak	1.25	135	
2470	88.34	H	94	-5.66	Avg	1.25	135	
4940	48.01	H	74	-25.99	Peak	1.25	135	
4940	39.01	H	54	-14.99	Avg	1.25	135	
7410	51.31	H	74	-22.69	Peak	1.25	115	
7410	40.13	H	54	-13.87	Avg	1.25	115	
9880	50.96	H	74	-23.04	Peak	1.35	135	
9880	38.55	H	54	-15.45	Avg	1.35	135	
12350								No Emission
12350								Detected
14820								No Emission
14820								Detected
17290								No Emission
17290								Detected
19760								No Emission
19760								Detected
22230								No Emission
22230								Detected
24700								No Emission
24700								Detected

Test Location : Compatible Electronics
Customer : SMK-Link Electronics
Manufacturer : SMK-Link Electronics
Eut name : Mighty Mouse
Model : VP6800
Serial # : N/A
Specification : FCC Class B
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Radiated Emissions - Stand Alone Mode
Vertical and Horizontal Polarization
Transmit Mode
Tested By: Alex Benitez

Page : 1/1
Date : 4/06/2010
Time : 15:08:25
Lab : D
Test Distance : 3.0 Meters

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
1H	160.201	46.10	1.99	13.62	38.30	23.41	43.50	-20.09
2V	172.122	45.60	2.08	15.03	38.30	24.40	43.50	-19.10
3H	192.046	43.10	2.17	16.21	38.16	23.32	43.50	-20.18
4V	220.064	45.80	2.28	15.84	38.18	25.74	46.00	-20.26
5H	224.050	40.50	2.30	15.74	38.20	20.34	46.00	-25.66
6H	320.047	47.30	2.98	14.58	38.16	26.71	46.00	-19.29
7H	352.053	47.20	3.11	15.15	38.12	27.34	46.00	-18.66
8H	480.104	43.70	3.38	16.88	37.94	26.02	46.00	-19.98

Test Location : Compatible Electronics **Page** : 1/1
Customer : SMK-Link Electronics **Date** : 4/07/2010
Manufacturer : SMK-Link Electronics **Time** : 9:32:24
Eut name : Mighty Mouse **Lab** : D
Model : VP6800 **Test Distance** : 3.0 Meters
Serial # : N/A
Specification : FCC Class B
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Radiated Emissions - Stand Alone Mode
Vertical and Horizontal Polarization
Receive Mode
Tested By: Alex Benitez

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
1H	304.040	46.30	2.92	14.28	38.19	25.31	46.00	-20.69
2H	320.091	46.50	2.98	14.58	38.16	25.91	46.00	-20.09
3H	352.086	41.40	3.11	15.15	38.12	21.54	46.00	-24.46
4H	383.842	43.50	3.24	15.66	38.38	24.02	46.00	-21.98
5H	405.194	42.10	3.32	15.97	38.45	22.95	46.00	-23.05

FCC 15.249

SMK-Link Electronics
Mighty Mouse
Model: VP6800

Date: 04/05/2010
Lab: B
Tested By: Kyle Fujimoto

**Low Channel
Charging Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2405	95.01	V	94	1.01	Peak	1.25	180	
2405	93.13	V	94	-0.87	Avg	1.25	180	
4810	53.46	V	74	-20.54	Peak	1.25	135	
4810	40.55	V	54	-13.45	Avg	1.25	135	
7215	51.86	V	74	-22.14	Peak	1.25	155	
7215	42.19	V	54	-11.81	Avg	1.25	155	
9620	49.38	V	74	-24.62	Peak	1.25	135	
9620	34.26	V	54	-19.74	Avg	1.25	135	
12025								No Emission
12025								Detected
14430								No Emission
14430								Detected
16835								No Emission
16835								Detected
19240								No Emission
19240								Detected
21645								No Emission
21645								Detected
24050								No Emission
24050								Detected

FCC 15.249

SMK-Link Electronics
 Mighty Mouse
 Model: VP6800

Date: 04/05/2010
 Lab: B
 Tested By: Kyle Fujimoto

**Low Channel
 Charging Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2405	88.69	H	94	-5.31	Peak	2	0	
2405	87.05	H	94	-6.95	Avg	2	0	
4810	51.69	H	74	-22.31	Peak	1.25	180	
4810	38.78	H	54	-15.22	Avg	1.25	180	
7215	47.14	H	74	-26.86	Peak	1.25	135	
7215	35.71	H	54	-18.29	Avg	1.25	135	
9620	48.36	H	74	-25.64	Peak	1.25	135	
9620	35.26	H	54	-18.74	Avg	1.25	135	
12025								No Emission
12025								Detected
14430								No Emission
14430								Detected
16835								No Emission
16835								Detected
19240								No Emission
19240								Detected
21645								No Emission
21645								Detected
24050								No Emission
24050								Detected

FCC 15.249

SMK-Link Electronics
Mighty Mouse
Model: VP6800

Date: 04/05/2010
Lab: B
Tested By: Kyle Fujimoto

**Middle Channel
Charging Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2441	94.9	V	94	0.9	Peak	2.25	0	
2441	93.52	V	94	-0.48	Avg	2.25	0	
4882	54.71	V	74	-19.29	Peak	1.25	45	
4882	43.35	V	54	-10.65	Avg	1.25	45	
7323	51.87	V	74	-22.13	Peak	1.35	45	
7323	42.32	V	54	-11.68	Avg	1.35	45	
9764	51.39	V	74	-22.61	Peak	1.25	135	
9764	37.53	V	54	-16.47	Avg	1.25	135	
12205								No Emission
12205								Detected
14646								No Emission
14646								Detected
17087								No Emission
17087								Detected
19528								No Emission
19528								Detected
21969								No Emission
21969								Detected
24410								No Emission
24410								Detected

FCC 15.249

SMK-Link Electronics
Mighty Mouse
Model: VP6800

Date: 04/05/2010
Lab: B
Tested By: Kyle Fujimoto

**Middle Channel
Charging Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2441	93.09	H	94	-0.91	Peak	1.25	135	
2441	91.42	H	94	-2.58	Avg	1.25	135	
4882	53.96	H	74	-20.04	Peak	1.25	135	
4882	39.23	H	54	-14.77	Avg	1.25	135	
7323	49.84	H	74	-24.16	Peak	1.25	135	
7323	35.44	H	54	-18.56	Avg	1.25	135	
9764	50.39	H	74	-23.61	Peak	1.25	1.35	
9764	36.56	H	54	-17.44	Avg	1.25	135	
12205								No Emission
12205								Detected
14646								No Emission
14646								Detected
17087								No Emission
17087								Detected
19528								No Emission
19528								Detected
21969								No Emission
21969								Detected
24410								No Emission
24410								Detected

FCC 15.249

SMK-Link Electronics
Mighty Mouse
Model: VP6800

Date: 04/05/2010
Lab: B
Tested By: Kyle Fujimoto

**High Channel
Charging Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2470	94.53	V	94	0.53	Peak	1.25	135	
2470	92.82	V	94	-1.18	Avg	1.25	135	
4940	52.02	V	74	-21.98	Peak	1.25	135	
4940	40.31	V	54	-13.69	Avg	1.25	135	
7410	54.89	V	74	-19.11	Peak	1.25	155	
7410	46.45	V	54	-7.55	Avg	1.25	155	
9880	52.69	V	74	-21.31	Peak	1.25	135	
9880	40.01	V	54	-13.99	Avg	1.25	135	
12350								No Emission
12350								Detected
14820								No Emission
14820								Detected
17290								No Emission
17290								Detected
19760								No Emission
19760								Detected
22230								No Emission
22230								Detected
24700								No Emission
24700								Detected

FCC 15.249

SMK-Link Electronics
Mighty Mouse
Model: VP6800

Date: 04/05/2010
Lab: B
Tested By: Kyle Fujimoto

**High Channel
Charging Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2470	93.49	H	94	-0.51	Peak	2.25	0	
2470	91.74	H	94	-2.26	Avg	2.25	0	
4940	54.05	H	74	-19.95	Peak	1.25	135	
4940	39.11	H	54	-14.89	Avg	1.25	135	
7410	52.43	H	74	-21.57	Peak	1.25	155	
7410	42.91	H	54	-11.09	Avg	1.25	155	
9880	51.22	H	74	-22.78	Peak	1.25	135	
9880	39.49	H	54	-14.51	Avg	1.25	135	
12350								No Emission
12350								Detected
14820								No Emission
14820								Detected
17290								No Emission
17290								Detected
19760								No Emission
19760								Detected
22230								No Emission
22230								Detected
24700								No Emission
24700								Detected

CONDUCTED EMISSIONS

DATA SHEETS

FCC - B Conducted Emissions

SMK-Link Electronics

Mighty Mouse

Model: VP6800 - Tx Mode

FCC Class B - Black Lead

BlackLead LI-215 12078 9-28-09

TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line

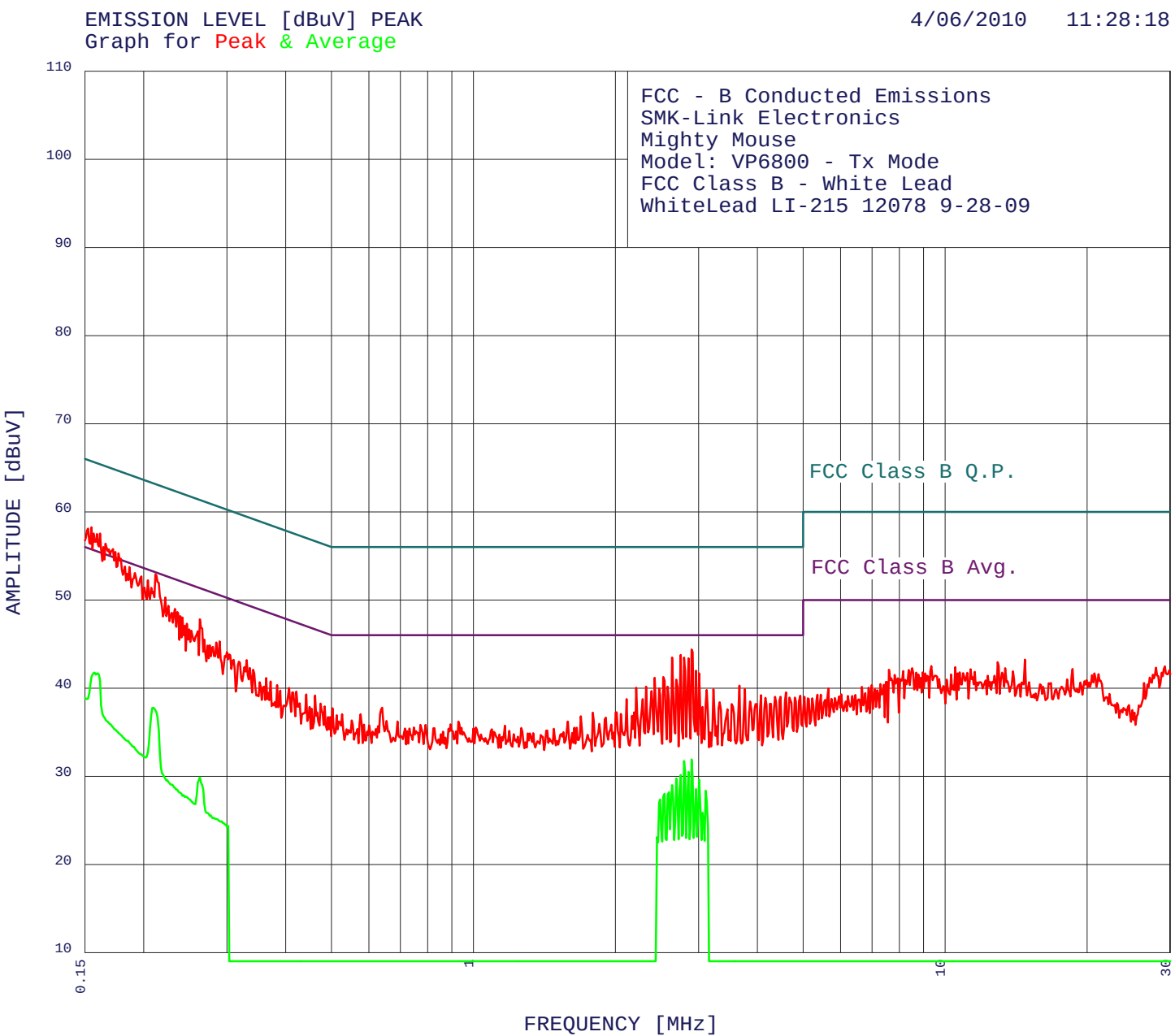
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.159	56.23	55.51	0.72**
2	0.154	56.25	55.78	0.48**
3	0.152	56.26	55.91	0.35**
4	0.167	54.24	55.11	-0.87**
5	0.170	54.04	54.98	-0.94**
6	0.207	51.98	53.31	-1.33**
7	0.213	51.67	53.09	-1.42**
8	0.181	52.56	54.46	-1.89**
9	0.189	51.68	54.06	-2.38**
10	2.736	43.39	46.00	-2.61**
11	2.624	42.79	46.00	-3.21**
12	2.840	42.60	46.00	-3.40**
13	0.221	49.36	52.78	-3.42**
14	0.217	49.47	52.91	-3.45**
15	0.262	47.51	51.38	-3.87**
16	0.226	48.66	52.61	-3.95**
17	0.240	47.64	52.08	-4.45**
18	2.885	41.30	46.00	-4.70**
19	0.237	47.44	52.21	-4.77**
20	0.230	47.55	52.43	-4.88**
21	0.267	46.00	51.20	-5.20**
22	0.248	46.42	51.82	-5.39**
23	0.369	43.05	48.52	-5.47
24	2.796	40.49	46.00	-5.51**
25	0.254	46.12	51.64	-5.52**
26	2.568	40.39	46.00	-5.61**
27	0.258	45.71	51.51	-5.80**
28	0.288	44.47	50.58	-6.11**
29	0.282	44.48	50.76	-6.28**
30	0.324	43.32	49.62	-6.30
31	0.277	44.58	50.89	-6.31**
32	0.313	43.33	49.88	-6.55
33	0.318	43.12	49.75	-6.62
34	2.514	39.28	46.00	-6.72**
35	0.297	43.25	50.32	-7.07**
36	0.363	41.56	48.65	-7.09
37	2.995	38.80	46.00	-7.20
38	2.693	38.79	46.00	-7.21**
39	2.310	38.78	46.00	-7.22**
40	0.305	42.84	50.10	-7.26
41	4.902	38.56	46.00	-7.44
42	0.421	39.88	47.42	-7.54
43	0.345	41.49	49.09	-7.60
44	2.462	38.38	46.00	-7.62**
45	0.331	41.81	49.44	-7.63
46	0.356	41.17	48.82	-7.65
47	2.948	38.30	46.00	-7.70
48	2.100	38.27	46.00	-7.73

FCC - B Conducted Emissions
SMK-Link Electronics
Mighty Mouse
Model: VP6800 - Tx Mode
FCC Class B - Black Lead
BlackLead LI-215 12078 9-28-09
TEST ENGINEER : Kyle Fujimoto

25 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.159	39.33	55.51	-16.18
2	0.208	36.65	53.27	-16.62
3	2.811	28.86	46.00	-17.14
4	0.260	34.28	51.42	-17.15
5	2.751	27.76	46.00	-18.24
6	2.900	27.44	46.00	-18.56
7	2.693	27.39	46.00	-18.61
8	2.855	27.30	46.00	-18.70
9	2.637	27.10	46.00	-18.90
10	2.540	26.16	46.00	-19.84
11	2.582	26.01	46.00	-19.99
12	2.322	25.54	46.00	-20.46
13	2.475	25.49	46.00	-20.51
14	2.371	25.49	46.00	-20.51
15	2.423	25.43	46.00	-20.57
16	2.274	23.22	46.00	-22.78
17	0.197	30.69	53.75	-23.07
18	0.226	28.05	52.61	-24.56
19	0.247	26.69	51.86	-25.17
20	0.280	25.13	50.81	-25.68
21	0.275	25.26	50.98	-25.72
22	0.286	24.87	50.63	-25.76
23	0.277	25.06	50.89	-25.83
24	0.283	24.87	50.72	-25.84
25	0.297	24.40	50.32	-25.92



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Agoura Division
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Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

FCC - B Conducted Emissions
SMK-Link Electronics
Mighty Mouse
Model: VP6800 - Tx Mode
FCC Class B - White Lead
WhiteLead LI-215 12078 9-28-09
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line

Peak criteria : 1.00 dB, Curve : Peak
Peak# Freq(MHz) Amp(dBuV) Limit(dB) Delta(dB)

1	0.155	58.25	55.73	2.52**
2	0.152	58.09	55.86	2.23**
3	0.162	57.54	55.38	2.16**
4	0.157	57.52	55.64	1.88**
5	0.166	56.37	55.16	1.21**
6	0.164	56.00	55.25	0.75**
7	0.177	55.29	54.63	0.66**
8	0.212	52.89	53.14	-0.25**
9	0.186	53.74	54.19	-0.45**
10	0.192	53.06	53.97	-0.91**
11	0.198	52.66	53.71	-1.05**
12	0.204	52.24	53.44	-1.20**
13	2.900	44.37	46.00	-1.63**
14	0.207	51.38	53.31	-1.93**
15	0.201	51.40	53.58	-2.17**
16	2.751	43.77	46.00	-2.23**
17	0.222	50.29	52.74	-2.45**
18	2.796	43.47	46.00	-2.53**
19	2.637	43.47	46.00	-2.53**
20	2.855	43.37	46.00	-2.63**
21	0.226	49.32	52.61	-3.29**
22	0.233	48.98	52.34	-3.36**
23	0.263	47.80	51.33	-3.53**
24	0.235	48.63	52.25	-3.62**
25	0.239	48.16	52.12	-3.96**
26	0.242	48.01	52.04	-4.02**
27	2.963	41.97	46.00	-4.03**
28	3.011	41.67	46.00	-4.33**
29	0.247	47.31	51.86	-4.55**
30	2.527	41.26	46.00	-4.74**
31	2.423	41.16	46.00	-4.84
32	0.244	47.07	51.95	-4.88**
33	0.260	46.46	51.42	-4.97**
34	2.693	40.97	46.00	-5.03**
35	0.250	46.66	51.77	-5.11**
36	0.252	46.51	51.68	-5.17**
37	0.290	45.29	50.54	-5.25**
38	0.285	45.18	50.67	-5.49**
39	0.269	45.49	51.15	-5.66**
40	3.663	40.29	46.00	-5.71
41	2.582	40.16	46.00	-5.84**
42	2.322	40.16	46.00	-5.84
43	2.214	40.06	46.00	-5.94
44	2.475	39.96	46.00	-6.04**
45	0.276	44.85	50.94	-6.08**
46	3.761	39.89	46.00	-6.11
47	3.226	39.88	46.00	-6.12
48	0.280	44.67	50.81	-6.14**

FCC - B Conducted Emissions
SMK-Link Electronics
Mighty Mouse
Model: VP6800 - Tx Mode
FCC Class B - White Lead
WhiteLead LI-215 12078 9-28-09
TEST ENGINEER : Kyle Fujimoto

26 highest peaks above -50.00 dB of FCC Class B Avg. limit line

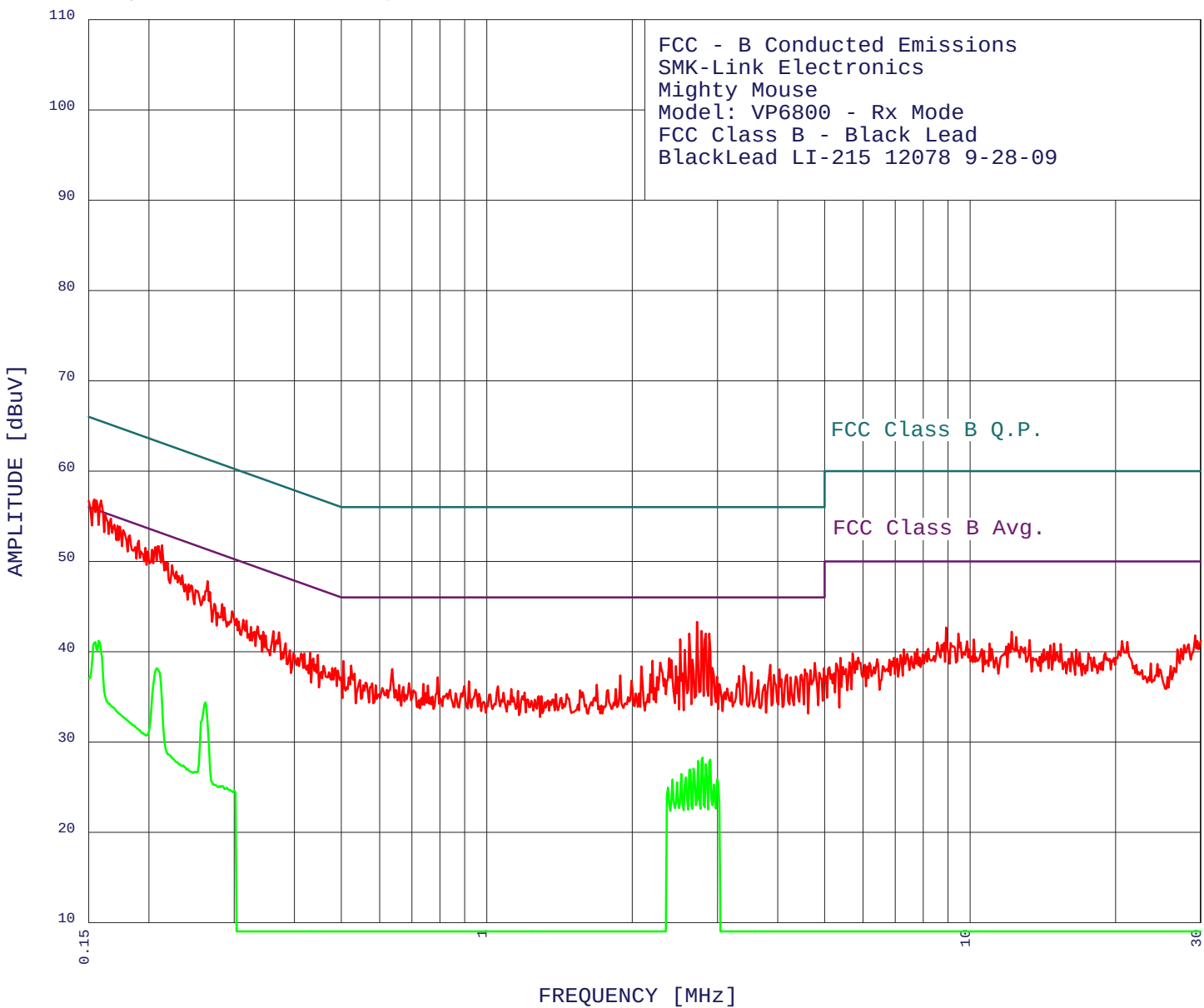
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.160	41.66	55.47	-13.81
2	0.157	41.75	55.60	-13.85
3	2.900	31.91	46.00	-14.09
4	2.796	31.74	46.00	-14.26
5	0.210	37.76	53.23	-15.47
6	2.855	30.50	46.00	-15.50
7	2.751	30.13	46.00	-15.87
8	2.693	29.74	46.00	-16.26
9	3.011	29.59	46.00	-16.41
10	2.637	28.98	46.00	-17.02
11	2.963	28.53	46.00	-17.47
12	3.107	28.37	46.00	-17.63
13	2.596	28.18	46.00	-17.82
14	2.540	28.00	46.00	-18.00
15	2.488	27.36	46.00	-18.64
16	3.059	25.87	46.00	-20.13
17	0.263	29.87	51.33	-21.46
18	2.449	23.07	46.00	-22.93
19	0.224	29.54	52.65	-23.12
20	0.235	28.49	52.25	-23.76
21	0.243	27.85	52.00	-24.14
22	0.246	27.69	51.90	-24.22
23	0.277	25.55	50.89	-25.35
24	0.282	25.27	50.76	-25.49
25	0.293	24.87	50.45	-25.58
26	0.302	24.36	50.19	-25.83



EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

4/06/2010 11:52:45



Brea Division
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Lake Forest Division
20621 Pascal Way
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FCC - B Conducted Emissions

SMK-Link Electronics

Mighty Mouse

Model: VP6800 - Rx Mode

FCC Class B - Black Lead

BlackLead LI-215 12078 9-28-09

TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.159	56.73	55.51	1.22**
2	0.154	56.85	55.78	1.08**
3	0.156	56.75	55.69	1.06**
4	0.162	55.13	55.34	-0.20**
5	0.167	54.74	55.11	-0.37**
6	0.172	53.95	54.86	-0.91**
7	0.174	53.85	54.77	-0.91**
8	0.177	53.46	54.63	-1.17**
9	0.213	51.77	53.09	-1.32**
10	0.183	52.87	54.37	-1.50**
11	0.208	51.68	53.27	-1.59**
12	0.190	52.28	54.01	-1.74**
13	0.206	51.58	53.35	-1.77**
14	0.203	51.29	53.49	-2.20**
15	0.197	51.49	53.75	-2.27**
16	0.199	51.09	53.67	-2.58**
17	2.722	43.29	46.00	-2.71**
18	0.223	49.56	52.70	-3.14**
19	0.265	47.80	51.29	-3.49**
20	2.781	42.29	46.00	-3.71**
21	2.885	42.00	46.00	-4.00**
22	2.840	42.00	46.00	-4.00**
23	2.624	41.99	46.00	-4.01**
24	0.242	47.43	52.04	-4.60**
25	2.514	41.38	46.00	-4.62**
26	0.250	46.82	51.77	-4.95**
27	0.283	45.27	50.72	-5.44**
28	0.273	45.29	51.02	-5.73**
29	0.286	44.87	50.63	-5.76**
30	2.568	40.19	46.00	-5.81**
31	0.297	44.45	50.32	-5.87**
32	0.371	42.15	48.47	-6.32
33	0.318	43.42	49.75	-6.32
34	0.313	43.53	49.88	-6.35
35	0.362	42.26	48.69	-6.43
36	0.336	42.80	49.31	-6.51
37	2.384	39.28	46.00	-6.72**
38	0.325	42.71	49.57	-6.86
39	0.345	42.19	49.09	-6.90
40	2.665	39.09	46.00	-6.91**
41	2.410	39.08	46.00	-6.92**
42	2.201	38.97	46.00	-7.03
43	0.505	38.97	46.00	-7.03
44	0.348	41.78	49.00	-7.22
45	2.286	38.78	46.00	-7.22
46	4.774	38.76	46.00	-7.24
47	0.383	40.93	48.21	-7.27
48	0.447	39.64	46.93	-7.29

FCC - B Conducted Emissions
SMK-Link Electronics
Mighty Mouse
Model: VP6800 - Rx Mode
FCC Class B - Black Lead
BlackLead LI-215 12078 9-28-09
TEST ENGINEER : Kyle Fujimoto

26 highest peaks above -50.00 dB of FCC Class B Avg. limit line

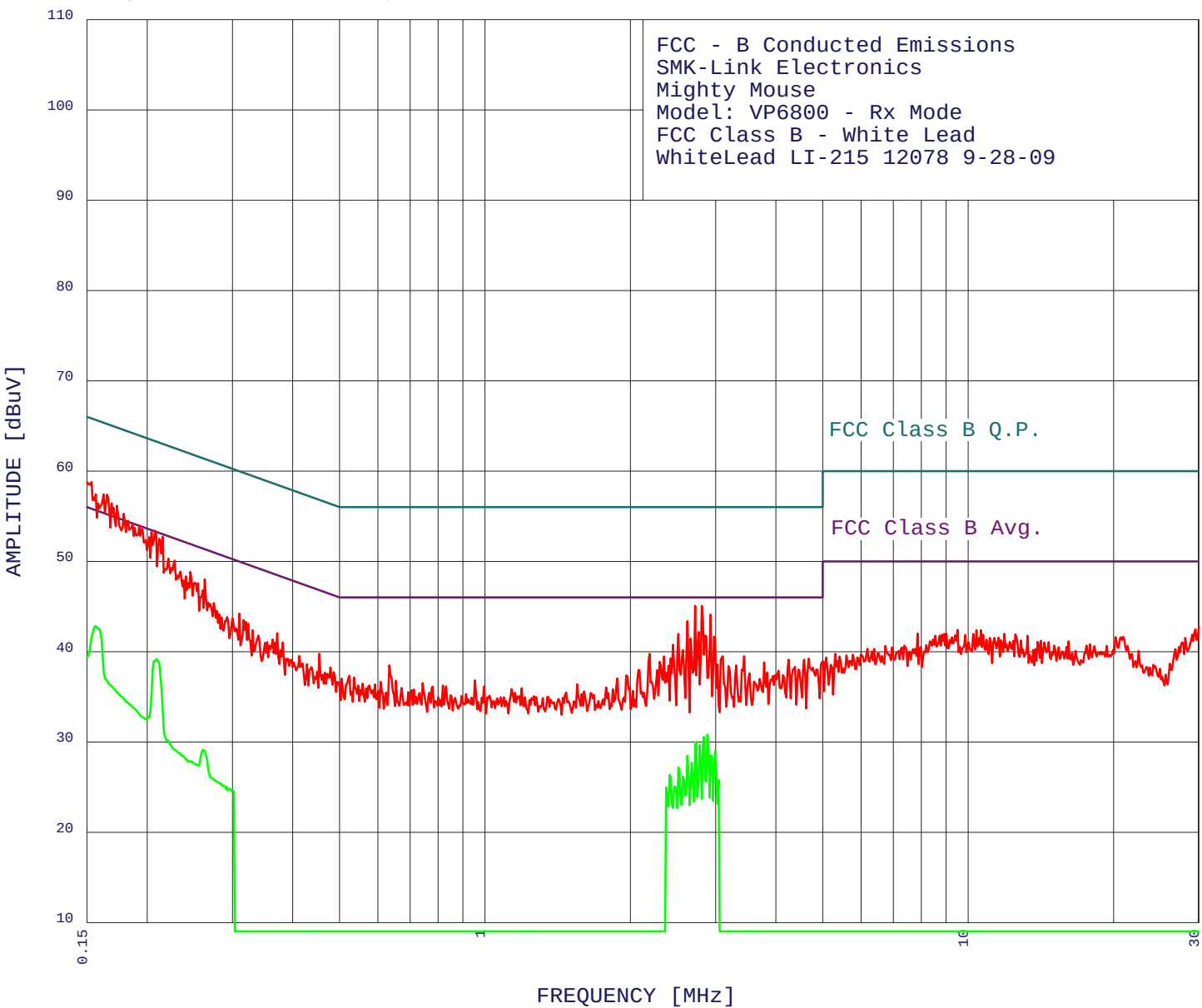
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.157	41.19	55.60	-14.41
2	0.155	41.04	55.73	-14.69
3	0.207	38.15	53.31	-15.16
4	0.262	34.39	51.38	-16.99
5	2.796	28.28	46.00	-17.72
6	2.900	28.03	46.00	-17.97
7	2.736	27.89	46.00	-18.11
8	2.840	27.54	46.00	-18.46
9	2.679	27.05	46.00	-18.95
10	2.637	26.95	46.00	-19.05
11	2.527	26.43	46.00	-19.57
12	2.582	26.06	46.00	-19.94
13	2.995	25.85	46.00	-20.15
14	2.423	25.83	46.00	-20.17
15	2.475	25.54	46.00	-20.46
16	2.948	25.27	46.00	-20.73
17	2.371	24.94	46.00	-21.06
18	0.186	31.80	54.19	-22.39
19	0.195	30.97	53.84	-22.87
20	0.235	27.39	52.25	-24.86
21	0.240	27.00	52.08	-25.09
22	0.248	26.68	51.82	-25.13
23	0.283	25.12	50.72	-25.59
24	0.290	24.93	50.54	-25.61
25	0.300	24.59	50.23	-25.64
26	0.280	25.13	50.81	-25.68



4/06/2010 11:41:37

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average



Brea Division
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Lake Forest Division
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Lake Forest, CA 92630
(949) 587-0400

FCC - B Conducted Emissions

SMK-Link Electronics

Mighty Mouse

Model: VP6800 - Rx Mode

FCC Class B - White Lead

WhiteLead LI-215 12078 9-28-09

TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line

Peak criteria : 1.00 dB, Curve : Peak

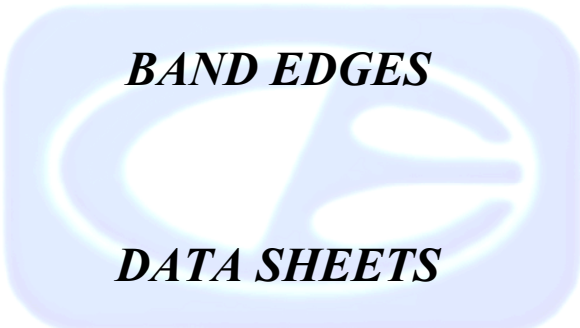
Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.165	57.39	55.20	2.18**
2	0.162	57.43	55.34	2.09**
3	0.169	56.43	55.03	1.40**
4	0.173	56.16	54.81	1.35**
5	0.179	55.26	54.54	0.72**
6	0.183	54.50	54.37	0.13**
7	0.207	53.38	53.31	0.07**
8	0.193	53.94	53.93	0.01**
9	0.204	53.24	53.44	-0.20**
10	0.215	52.73	53.00	-0.28**
11	0.212	52.49	53.14	-0.65**
12	0.202	52.68	53.53	-0.85**
13	2.811	45.07	46.00	-0.93**
14	2.722	45.07	46.00	-0.93**
15	2.932	44.07	46.00	-1.93**
16	0.228	50.08	52.52	-2.44**
17	0.221	50.31	52.78	-2.47**
18	2.624	43.36	46.00	-2.64**
19	0.246	48.84	51.90	-3.07**
20	0.263	48.00	51.33	-3.33**
21	0.240	48.34	52.08	-3.74**
22	2.766	42.17	46.00	-3.83**
23	2.514	41.96	46.00	-4.04**
24	0.251	47.64	51.73	-4.09**
25	2.855	41.77	46.00	-4.23**
26	2.979	41.67	46.00	-4.33**
27	2.665	41.47	46.00	-4.53**
28	0.260	46.76	51.42	-4.67**
29	2.449	40.76	46.00	-5.24**
30	0.275	45.38	50.98	-5.60**
31	0.310	44.20	49.97	-5.77
32	2.568	40.16	46.00	-5.84**
33	2.190	39.75	46.00	-6.25
34	0.317	43.49	49.79	-6.30
35	0.371	42.04	48.47	-6.43
36	3.438	39.48	46.00	-6.52
37	3.107	39.48	46.00	-6.52
38	0.324	43.09	49.62	-6.53
39	2.346	39.46	46.00	-6.54
40	0.300	43.68	50.23	-6.55**
41	0.293	43.83	50.45	-6.62**
42	2.423	39.26	46.00	-6.74**
43	4.672	39.21	46.00	-6.79
44	4.576	39.11	46.00	-6.89
45	0.285	43.78	50.67	-6.89**
46	4.249	39.10	46.00	-6.90
47	0.454	39.76	46.80	-7.04
48	0.331	42.38	49.44	-7.06

FCC - B Conducted Emissions
SMK-Link Electronics
Mighty Mouse
Model: VP6800 - Rx Mode
FCC Class B - White Lead
WhiteLead LI-215 12078 9-28-09
TEST ENGINEER : Kyle Fujimoto

27 highest peaks above -50.00 dB of FCC Class B Avg. limit line

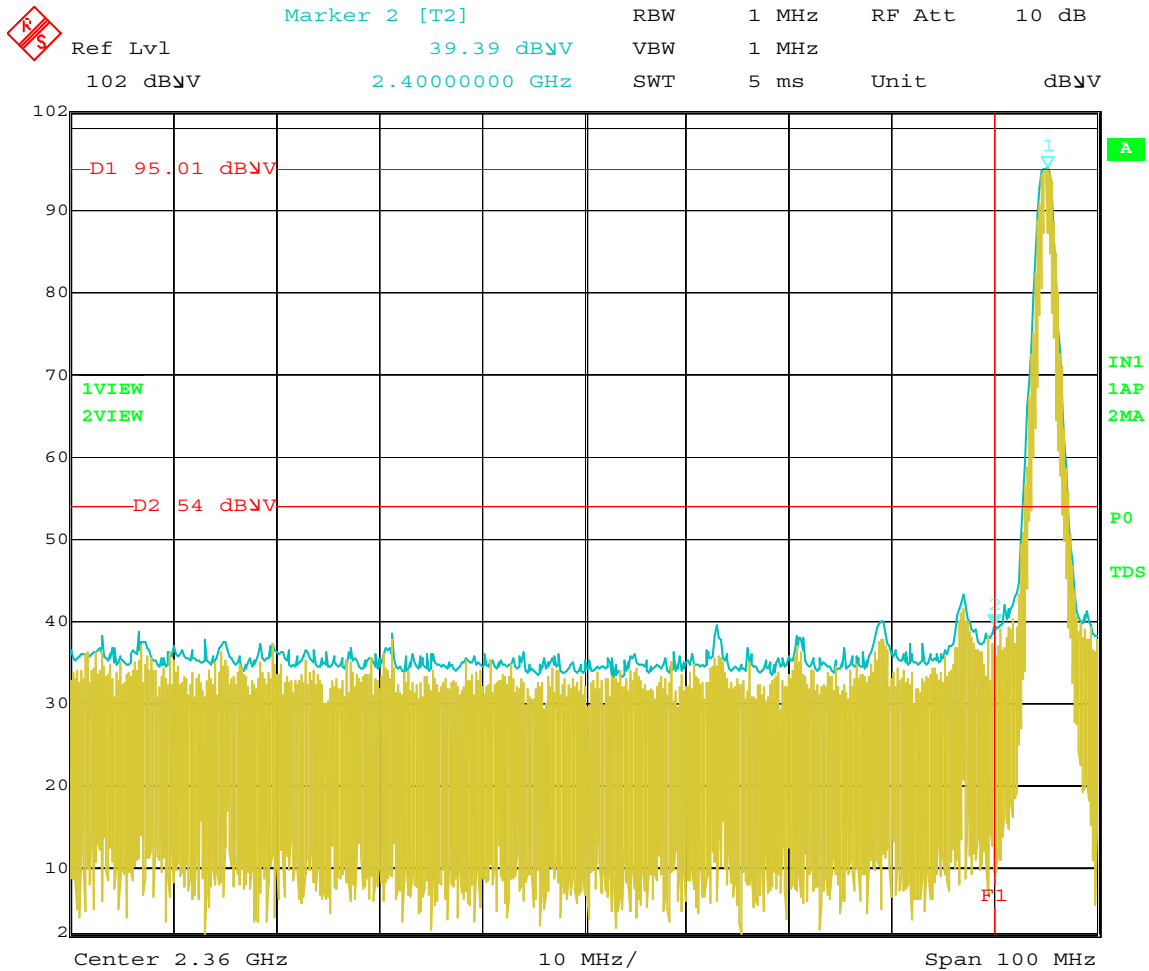
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.157	42.81	55.64	-12.83
2	0.208	39.15	53.27	-14.12
3	2.885	30.80	46.00	-15.20
4	2.840	30.54	46.00	-15.46
5	2.736	29.99	46.00	-16.01
6	2.781	29.66	46.00	-16.34
7	2.995	28.98	46.00	-17.02
8	2.932	28.49	46.00	-17.51
9	2.624	28.44	46.00	-17.56
10	2.679	27.70	46.00	-18.30
11	2.514	27.17	46.00	-18.83
12	2.410	26.35	46.00	-19.65
13	2.568	26.19	46.00	-19.81
14	3.043	25.75	46.00	-20.25
15	2.475	25.08	46.00	-20.92
16	2.371	24.96	46.00	-21.04
17	0.260	29.11	51.42	-22.32
18	0.221	30.15	52.78	-22.63
19	0.242	28.07	52.04	-23.96
20	0.247	27.87	51.86	-23.99
21	0.244	27.88	51.95	-24.07
22	0.254	27.49	51.64	-24.15
23	0.285	25.34	50.67	-25.33
24	0.288	25.15	50.58	-25.43
25	0.293	25.00	50.45	-25.45
26	0.297	24.79	50.32	-25.54
27	0.300	24.59	50.23	-25.64



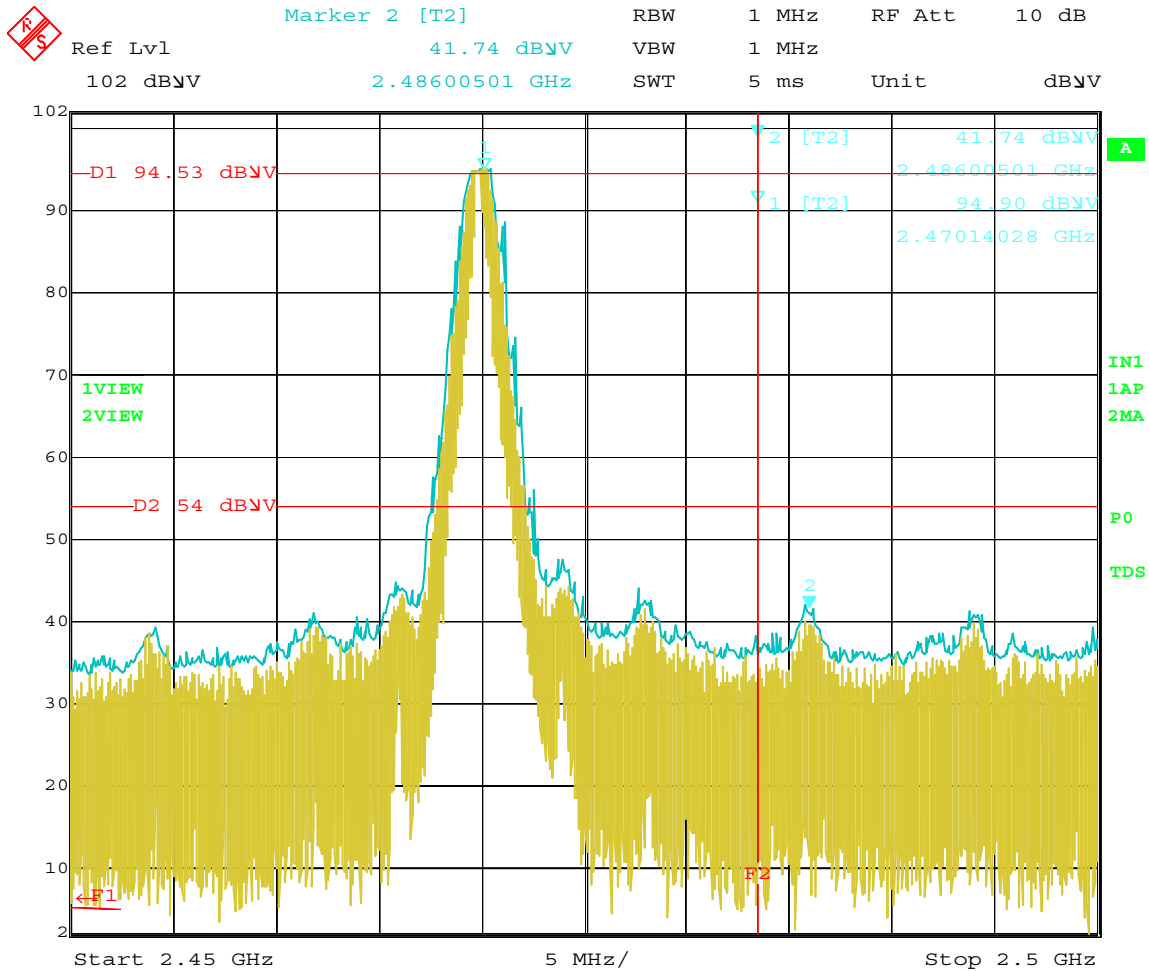
BAND EDGES

DATA SHEETS



Date: 6.APR.2010 08:00:24

Band Edge – Low Channel – Charging Mode (Worst Case) –
 Vertical Polarization (Worst Case)



Date: 6.APR.2010 08:08:22

Band Edge – High Channel – Charging Mode (Worst Case) –
 Vertical Polarization (Worst Case)