



VULCAN PORTALS, INC. TEST REPORT

FOR THE

FLIPSTART E-1000 SERIES

FCC PART 24 AND RSS-133 EXCLUDING CONDUCTED EMISSIONS AND FREQUENCY STABILITY TESTING

COMPLIANCE

DATE OF ISSUE: DECEMBER 5, 2006

PREPARED FOR:

Vulcan Portals, Inc. 505 5th Ave. South, Ste. 900 Seattle, WA 98104

P.O. No.: 20185-00778

W.O. No.: 85535

PREPARED BY:

Mary Ellen Clayton CKC Laboratories, Inc. 5046 Sierra Pines Drive Mariposa, CA 95338

Date of test: August 29 – November 9, 2006

Report No.: FC06-067

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ADMINISTRATIVE INFORMATION

DATE OF TEST: August 29 - November 9, 2006

DATE OF RECEIPT: August 29, 2006

FREQUENCY RANGE TESTED: 9 kHz-20 GHz

MANUFACTURER: Universal Scientific Industrial Co., Ltd.

141, Lane 351, Taiping Road, Sec. 1

Tsao Tuen, Nan-Tou, Taiwan

REPRESENTATIVE: Daniel Oar

TEST LOCATION: CKC Laboratories, Inc.

22116 23rd Drive S.E., Suite A Bothell, WA 98021-4413

TEST METHOD: FCC Part 24, RSS-GEN and RSS-133

PURPOSE OF TEST: To demonstrate the compliance of the FlipStart E-

1000 series with the requirements for FCC Part 24

and RSS-133 devices.



FCC TO CANADA STANDARD CORRELATION MATRIX

Canadian	Canadian	FCC	FCC	Test Description
Standard	Section	Standard	Section	
RSS 133	5.5	N/A	N/A	Types of modulation
RSS 133	6.2	N/A	N/A	Power Output
N/A	N/A	47 CFR	24.232	Power Output
RSS 133	6.3	47 CFR	24.238	Emissions Limitations
N/A	N/A	47 CFR	24.236	Field Strength Limitations
RSS 133	7	47 CFR	24.235	Frequency Stability
RSS 133	8	47 CFR	1.1307	RF Exposure
RSS 133	9	47 CFR	15.109	Receiver Spurious Emissions
	IC 4653		318736	Site File No.

CONDITIONS FOR COMPLIANCE

No modifications to the EUT were necessary to comply with the testing which was performed. CKC Laboratories was not contracted to test conducted emissions or frequency stability for this device.

APPROVALS

Steve Behm, Director of Engineering Services

QUALITY ASSURANCE: TEST PERSONNEL:

Joyce Walker, Quality Assurance Administrative Eddie Wong, EMC Engineer

Manager

Katie Molina, Senior EMC Engineer/Lab Ryan Rutledge, Test Technologist Manager

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EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The customer declares the EUT tested by CKC Laboratories was representative of a production unit.

The following description has been provided by the customer: FlipStart is a Microsoft Windows XP-based computer in a small form factor. Designed for mobile professionals who require serious business tools and want to leave the PDA and MP3 player home, FlipStart is the first generation of personal devices that deliver powerful functionality without compromise. Unique features such as the FlipStart® InfoPane and FlipStart® Navigator revolutionize the Windows experience for the user. Built on the Intel platform, FlipStart has a QWERTY thumb keypad, 1024 X 600 high-resolution 5.6" display in a protective clamshell design. Built-in WiFi and Bluetooth®, and multiple carrier 3G WAN support allow users to stay connected.

The following model was tested by CKC Laboratories: Ultra Portable Computer, Flipstart 1000 Series. (The actual model tested was E-1001s per the customer.)

Since the time of testing the manufacturer has chosen to use the following model name in its place. Any differences between the names does not affect their EMC characteristics and therefore complies to the level of testing equivalent to the tested model name shown on the data sheets: **FlipStart E-1000 series**

The manufacturer states that the following additional models are identical electrically to the one which was tested, or any differences between them do not affect their EMC characteristics, and therefore they comply to the level of testing equivalent to the tested models.

Main unit	Model numbers				
Model #	DESCRIPTION	BT/Wi-Fi	EV-DO WAN	HSDPA-NA WAN	CAMERA
E-1000	FlipStart Enterprise w/o camera & w/o WAN	X			
E-1001	FlipStart Enterprise w/camera & w/o WAN	X			X
E-1000v	FlipStart Enterprise w/o camera & w/Verizon EV-DO	X	MC5720		
E-1001v	FlipStart Enterprise w/camera & w/Verizon EV-DO	X	MC5720		X
E-1000s	FlipStart Enterprise w/o camera & w/Sprint EV-DO	X	MC5720		
E-1001s	FlipStart Enterprise w/camera & w/Sprint EV-DO	X	MC5720		X

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EQUIPMENT UNDER TEST

FlipStart

Manuf: Vulcan Portals, Inc.

Model: E-1000 series

Serial: 003401-A068G01T

FCC ID: pending

PERIPHERAL DEVICES

The EUT was tested with the following peripheral device(s):

FlipStart Extended-Life Battery 5000 Capacity in mAH

Manuf: Vulcan Portals, Inc.

Model: E-5000 Serial: NA

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TEMPERATURE AND HUMIDITY DURING TESTING

The temperature during testing was within $+15^{\circ}$ C and $+35^{\circ}$ C. The relative humidity was between 20% and 75%.

FCC 2.1033(c)(3) USER'S MANUAL

The necessary information is contained in a separate document.

FCC 2.1033 (c)(4) TYPE OF EMISSIONS F9W

FCC 2.1033 (c)(5) FREQUENCY RANGE 1850 MHz – 1910 MHz.

FCC 2.1033 (c)(6) OPERATING POWER 0.912 Watts.

FCC 2.1033 (c)(7) MAXIMUM POWER RATING 2 Watts

FCC 2.1033 (c)(8) DC VOLTAGES

The necessary information is contained in a separate document.

FCC 2.1033 (c)(9) TUNE-UP PROCEDURE

The necessary information is contained in a separate document.

FCC 2.1033(c)(10) SCHEMATICS AND CIRCUITRY DESCRIPTION

The necessary information is contained in a separate document.

FCC 2.1033(c)(11) LABEL AND PLACEMENT

The necessary information is contained in a separate document.

FCC 2.1033(c)(12) SUBMITTAL PHOTOS

The necessary information is contained in a separate document.

FCC 2.1033 (c)(13) MODULATION INFORMATION CDMA

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FCC 2.1033(c)(14)/2.1046/24.232 - RF POWER OUTPUT

Frequency	Polarity	Ant. Gain	EIRP (W)	Limit (W)	Pass/Fail
		(dBi)			
1851.25 MHz	Vertical	2.47	0.263100	2.0	Pass
1851.25 MHz	Horizontal	2.47	0.851376	2.0	Pass
1880 MHz	Vertical	2.47	0.281917	2.0	Pass
1880 MHz	Horizontal	2.47	0.912266	2.0	Pass
1908.75 MHz	Vertical	2.47	0.245539	2.0	Pass
1908.75 MHz	Horizontal	2.47	0.676272	2.0	Pass

Test Equipment

T COT Equipment						
Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Spectrum Analyzer	02673	Agilent	E4446A	US44300437	061606	061608
Cable	P05206	Pasterneck	NA	NA	020805	020807
2.4 GHz HPF	02745	K&L	11SH10-3000	2	030806	030808
2.4 GHz LPF	02747	K&L	11SL10-20000	7	030706	030708

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Test Location: CKC Laboratories •22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: Vulcan Portals, Inc.

Specification: Part 24 RF Power and Block Edge Plot Block C (Radiated)

Work Order #: 85535 Date: 11/9/2006
Test Type: Radiated Scan Time: 16:33:06
Equipment: Ultra Portable Computer Sequence#: 4

Manufacturer: Vulcan Portals, Inc. Tested By: Ryan Rutledge

Model: Flipstart 1000 Series S/N: 003401-A068G01T

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Ultra Portable Computer*	Vulcan Portals, Inc.	Flipstart 1000 Series	003401-A068G01T

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

The EUT is placed on the wooden table. Evaluation of RF Output Power and Band Edges is performed without peripherals attached to the EUT. Frequency: 1851.25 MHz. Modulation: CDMA, 1xRTT. RF Output Power RBW=3 MHz, VBW=3 MHz Band Edge RBW=120 kHz, VBW=120 kHz 110Vac, 60 Hz, 22°C, 38% relative humidity.

Transducer Legend:

T1=ANT-AN01412-121305 Model 3115	T2=Cable ANP05422 - 60"
T3=CAB-P05419-031506	T4=P05206 40GHz

Measu	rement Data:	Re	eading list	ted by ma	ırgin.		Τe	st Distanc	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\muV/m$	$dB\mu V/m$	dB	Ant
1	1851.240M	96.2	+26.2	+2.0	+1.7	+0.9	+0.0	127.0	130.7	-3.7	Horiz
							210		Peak Powe	r	170
									Reading 3	MHz	
									RBW		
2	1851.140M	91.1	+26.2	+2.0	+1.7	+0.9	+0.0	121.9	130.7	-8.8	Vert
							278		Peak Powe	r	180
									Reading 3	MHz	
									RBW		
3	1850.000M	41.6	+26.2	+2.0	+1.7	+0.9	+0.0	72.4	82.3	-9.9	Horiz
	Ave						210		Bandedge	reading	170
									100 sweep	average	
									120 kHz R	BW	
4	1850.000M	37.6	+26.2	+2.0	+1.7	+0.9	+0.0	68.4	82.3	-13.9	Vert
	Ave						278		Bandedge	reading	180
									100 sweep	average	
									120 kHz R	BW	

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Test Location: CKC Laboratories •22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: Vulcan Portals, Inc.

Specification: Part 24 RF Power and Block Edge Plot Block C (Radiated)

Work Order #: 85535 Date: 11/9/2006
Test Type: Radiated Scan Time: 16:49:01
Equipment: Ultra Portable Computer Sequence#: 5

Manufacturer: Vulcan Portals, Inc. Tested By: Ryan Rutledge

Model: Flipstart 1000 Series S/N: 003401-A068G01T

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Ultra Portable Computer*	Vulcan Portals, Inc.	Flipstart 1000 Series	003401-A068G01T

Support Devices:

	*	•	•
Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

The EUT is placed on the wooden table. Evaluation of RF Output Power and Band Edges is performed without peripherals attached to the EUT. Frequency: 1908.75MHz. Modulation: CDMA, 1xRTT. RF Output Power RBW=3 MHz, VBW=3 MHz Band Edge RBW=120 kHz, VBW=120 kHz 110Vac, 60 Hz, 22°C, 38% relative humidity.

Transducer Legend:

T1=ANT-AN01412-121305 Model 3115	T2=Cable ANP05422 - 60"	
T3=CAB-P05419-031506	T4=P05206 40GHz	

Measurement Data: Reading listed by margin.			ırgin.	Test Distance: 3 Meters							
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\muV/m$	$dB\mu V/m$	dB	Ant
1	1908.750M	95.2	+26.2	+2.0	+1.7	+0.9	+0.0	126.0	130.7	-4.7	Horiz
							210		Peak Powe	r	165
									Reading 3	MHz	
									RBW		
2	1910.000M	43.1	+26.2	+2.0	+1.7	+0.9	+0.0	73.9	82.3	-8.4	Horiz
	Ave						210		Bandedge	reading	165
									100 sweep	average	
									120 kHz R	BW	
3	1908.700M	90.8	+26.2	+2.0	+1.7	+0.9	+0.0	121.6	130.7	-9.1	Vert
							270		Peak Powe	r	174
									Reading 3	MHz	
									RBW		
4	1910.000M	39.3	+26.2	+2.0	+1.7	+0.9	+0.0	70.1	82.3	-12.2	Vert
	Ave						270		Bandedge	reading	174
									100 sweep	average	
									120 kHz R	BW	

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Test Location: CKC Laboratories •22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: Vulcan Portals, Inc.

Specification: Part 24 RF Power and Block Edge Plot Block C (Radiated)

 Work Order #:
 85535
 Date:
 11/9/2006

 Test Type:
 Radiated Scan
 Time:
 16:07:57

Equipment: Ultra Portable Computer Sequence#: 6

Manufacturer: Vulcan Portals, Inc. Tested By: Ryan Rutledge

Model: Flipstart 1000 Series S/N: 003401-A068G01T

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Ultra Portable Computer*	Vulcan Portals, Inc.	Flipstart 1000 Series	003401-A068G01T

Support Devices:

Function	Manufacturer	Model #	S/N
Tullcuon	Manufacturer	MOUCI #	3/11

Test Conditions / Notes:

The EUT is placed on the wooden table. Evaluation of RF Output Power is performed without peripherals attached to the EUT. Frequency: 1880 MHz. Modulation: CDMA, 1xRTT. RF Output Power RBW=3 MHz, VBW=3 MHz 110Vac, 60 Hz, 22°C, 38% relative humidity.

Transducer Legend:

T1=ANT-AN01412-121305 Model 3115	T2=Cable ANP05422 - 60"	
T3=CAB-P05419-031506	T4=P05206 40GHz	

# Freq Rdng T1 T2 T3 T4 Dist Corr Spec Margin Polar MHz dBμV dB dB dB dB Table dBμV/m dBμV/m dB Ant 1 1879.920M 96.5 +26.2 +2.0 +1.7 +0.9 +0.0 127.3 130.7 -3.4 Horiz 210 Peak Power Reading 3 MHz RBW 2 1879.930M 91.4 +26.2 +2.0 +1.7 +0.9 +0.0 122.2 130.7 -8.5 Vert 271 Peak Power Reading 3 MHz RBW	Measurement Data:			eading lis	ted by ma	ırgin.		Te	est Distance	e: 3 Meters		
1 1879.920M 96.5 +26.2 +2.0 +1.7 +0.9 +0.0 127.3 130.7 -3.4 Horiz 210 Peak Power 170 Reading 3 MHz RBW 2 1879.930M 91.4 +26.2 +2.0 +1.7 +0.9 +0.0 122.2 130.7 -8.5 Vert 271 Peak Power 180 Reading 3 MHz	#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
210 Peak Power Reading 3 MHz RBW 2 1879.930M 91.4 +26.2 +2.0 +1.7 +0.9 +0.0 122.2 130.7 -8.5 Vert 271 Peak Power Reading 3 MHz Reading 3 MHz		MHz	dΒμV	dB	dB	dB	dB	Table	$dB\muV/m$	$dB\mu V/m$	dB	Ant
Reading 3 MHz RBW 2 1879.930M 91.4 +26.2 +2.0 +1.7 +0.9 +0.0 122.2 130.7 -8.5 Vert 271 Peak Power Reading 3 MHz	1	1879.920M	96.5	+26.2	+2.0	+1.7	+0.9	+0.0	127.3	130.7	-3.4	Horiz
RBW 2 1879.930M 91.4 +26.2 +2.0 +1.7 +0.9 +0.0 122.2 130.7 -8.5 Vert 271 Peak Power 180 Reading 3 MHz								210		Peak Powe	r	170
2 1879.930M 91.4 +26.2 +2.0 +1.7 +0.9 +0.0 122.2 130.7 -8.5 Vert 271 Peak Power 180 Reading 3 MHz										Reading 3	MHz	
271 Peak Power 180 Reading 3 MHz										RBW		
Reading 3 MHz	2	1879.930M	91.4	+26.2	+2.0	+1.7	+0.9	+0.0	122.2	130.7	-8.5	Vert
								271		Peak Powe	r	180
RBW										Reading 3	MHz	
										RBW		

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RF OUTPUT POWER AND BANDEDGE



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RF OUTPUT POWER AND BANDEDGE



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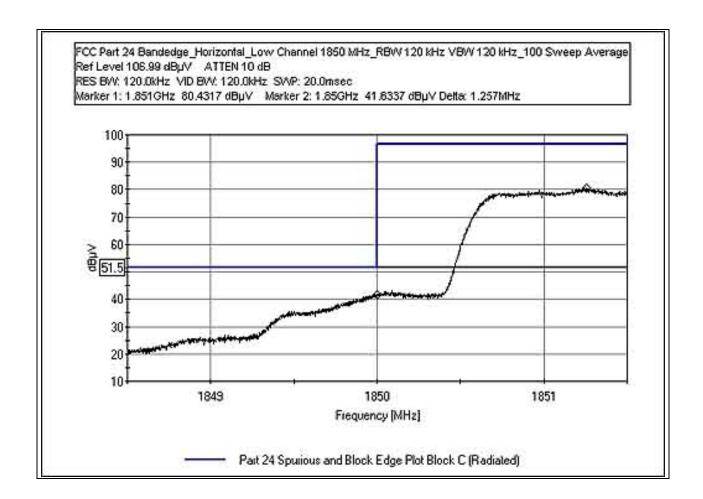
BANDEDGE HORIZONTAL 1850 MHz

Test Setup: The EUT is placed on the wooden table. Evaluation of spurious emission is conducted without peripherals attached to the EUT. Measurement is identical to radiated spurious emission. Modulations: Bluetooth, 802.11 b, 802.11g

Test Equipment

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Bothell 5m Cable Set	P05444	NA	NA	P05444	112805	112807
PreAmp	01517	HP	8447D	2944A08601	071006	071008
BILOG	1993	Chase	CBL6111C	2456	021405	021407
Spectrum Analyzer	02673	Agilent	E4446A	US44300437	061606	061607
Wireless Communication Test Set	NA	Agilent	E5515C	NCR	NCR	NCR
Horn Antenna	1467	EMCO	3115	9012-3604	12/13/05	12/13/07
Cable	P05374	Beldon	RG-214	RG-214#27	11/29/04	11/29/06

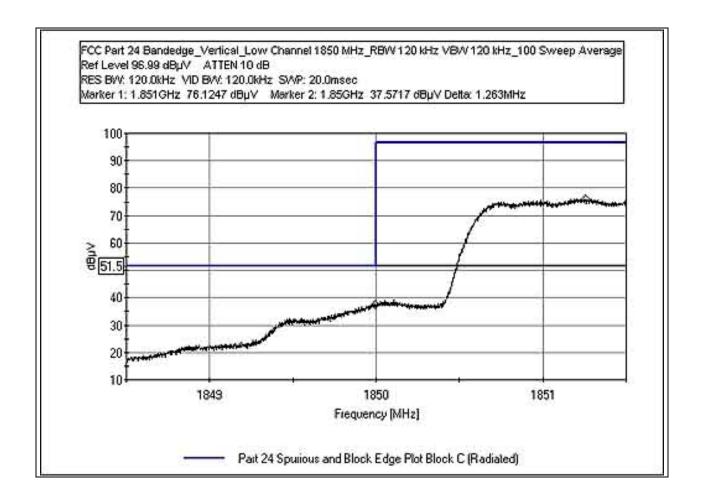
NCR = No Calibration Required



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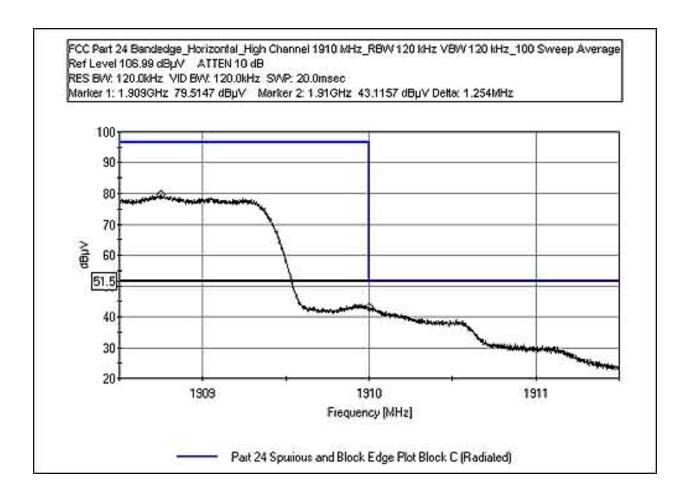
BANDEDGE VERTICAL 1850 MHz



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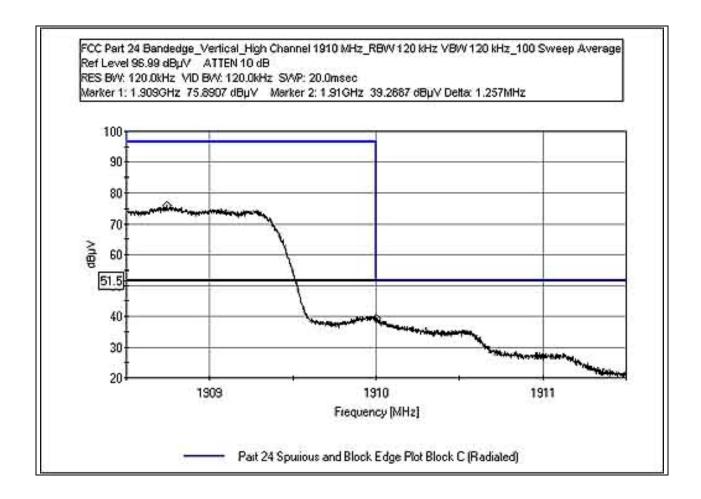
BANDEDGE HORIZONTAL 1910 MHz



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BANDEDGE VERTICAL 1910 MHz

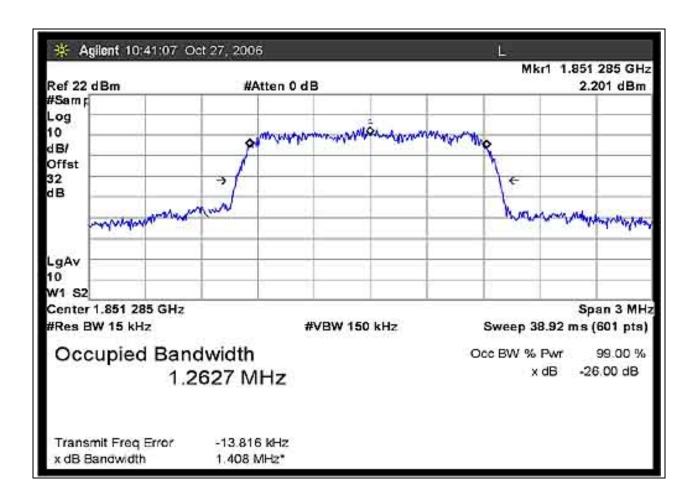


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OCCUPIED BANDWIDTH 1850 MHz

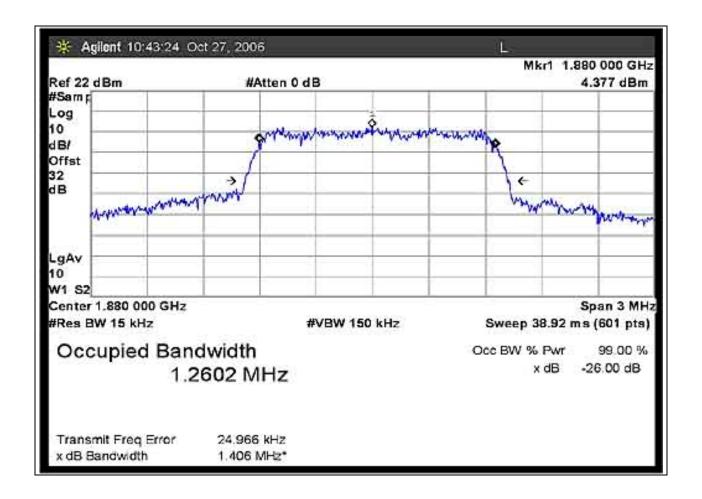
Test Conditions: The EUT is placed on the wooden table. Evaluation of 99% BW and occupied BW is conducted without peripherals attached to the EUT. evaluation performed at RF output port.



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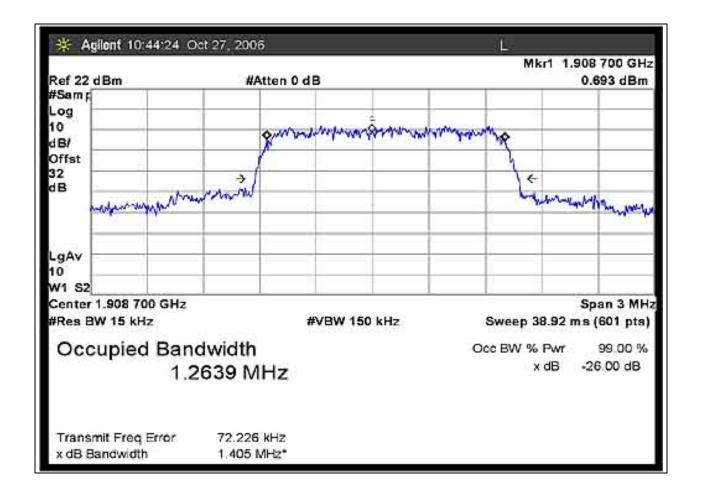
OCCUPIED BANDWIDTH 1880 MHz



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OCCUPIED BANDWIDTH 1908 MHz



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Test Equipment for all Direct Connect Testing

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Spectrum Analyzer	02673	Agilent	E4446A	US44300437	061606	061608
Cable	P05206	Pasterneck	NA	NA	020805	020807
2.4 GHz HPF	02745	K&L	11SH10-3000	2	030806	030808
2.4 GHz LPF	02747	K&L	11SL10-20000	7	030706	030708

PHOTOGRAPH SHOWING DIRECT CONNECT TEST SETUP

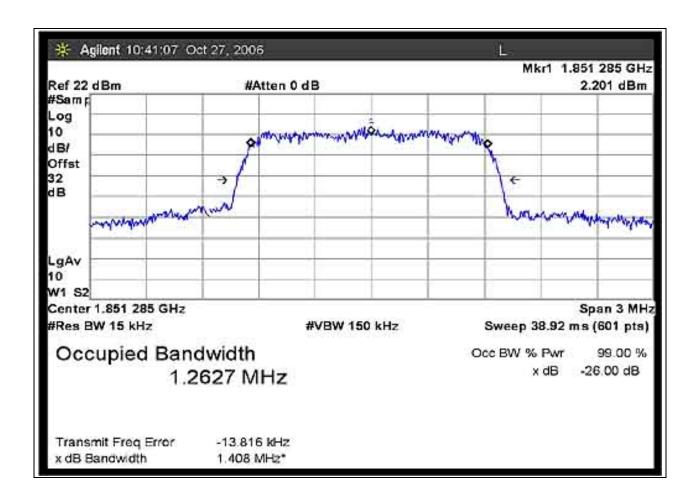


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99% BANDWIDTH 1850 MHz

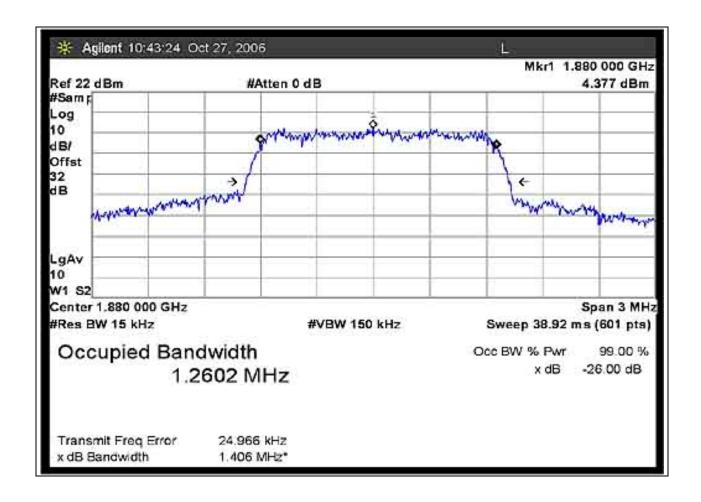
Test Conditions: The EUT is placed on the wooden table. Evaluation of 99% BW and occupied BW is conducted without peripherals attached to the EUT. evaluation performed at RF output port.



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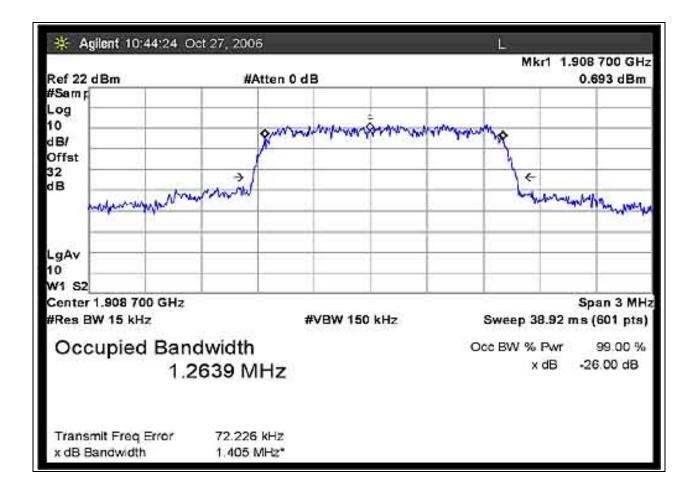
99% BANDWIDTH 1880 MHz



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99% BANDWIDTH 1908 MHz



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FCC 2.1033(c)(14)/2.1053/24.238 - FIELD STRENGTH OF SPURIOUS RADIATION

Test Location: CKC Laboratories •22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: Vulcan Portals, Inc.

Specification: FCC 24.238 Radiated Spurious Emission

Work Order #: 85535 Date: 10/18/2006
Test Type: Radiated Scan Time: 16:53:43
Equipment: Ultra Portable Computer Sequence#: 5

Manufacturer: Vulcan Portals, Inc. Tested By: Eddie Wong

Model: Flipstart 1000 Series S/N: 003401-A068G01T

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Ultra Portable Computer*	Vulcan Portals, Inc.	Flipstart 1000 Series	003401-A068G01T

Support Devices:

. 11			
Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

NOTE: RF Output power was lowered for final certification in order to pass band edge limits. Spurious emissions measurements reported were taken before reducing power, and represent a worse case configuration. The EUT is placed on the wooden table. Evaluation of spurious emission is conducted without peripherals attached to the EUT. Frequency: 1850 MHz, 1880 MHz, and 1908.76 MHz. Modulation: CDMA, psuedo random. Frequency range of measurement = 9 kHz - 20 GHz. Frequency 9 kHz - 150 kHz RBW=200 Hz, VBW=200 Hz; 150 kHz - 30 MHz RBW=9 kHz, VBW=9 kHz; 30 MHz - 1000 MHz RBW=120 kHz, VBW=120 kHz; 1000 MHz - 20000 MHz RBW=1 MHz, VBW=1 MHz. 110Vac, 60 Hz, 21°C, 43% relative humidity.

Operating Frequency: 1850 MHz - 1908 MHz

Channels: Low, Mid and High

Highest Measured Output Power: 29.60 EIRP(dBm)= 0.912 EIRP(Watts)

Distance: 3 meters

Limit: 43+10Log(P) 42.60 dBc

Freq. (MHz)	Reference Level (dBm)	Antenna Polarity (H/V)	dBc
5,553.70	-36.2	Horiz	65.80
3,702.30	-39.5	Horiz	69.10
7,404.53	-39.6	Vert	69.20
3,703.00	-40.7	Vert	70.30
5,553.90	-41.1	Vert	70.70
7,404.00	-44.2	Horiz	73.80
3,760.82	-32.5	Horiz	62.10
5,640.77	-35.7	Vert	65.30
3,760.77	-38.9	Vert	68.50
5,640.97	-41.5	Horiz	71.10
7,520.77	-41.7	Horiz	71.30
7,520.77	-41.8	Vert	71.40
5,725.70	-29.5	Vert	59.10
3,816.77	-33.6	Horiz	63.20
5,727.10	-34.4	Horiz	64.00
3,816.88	-34.5	Vert	64.10
7,635.10	-39	Vert	68.60
7,635.10	-41.8	Horiz	71.40

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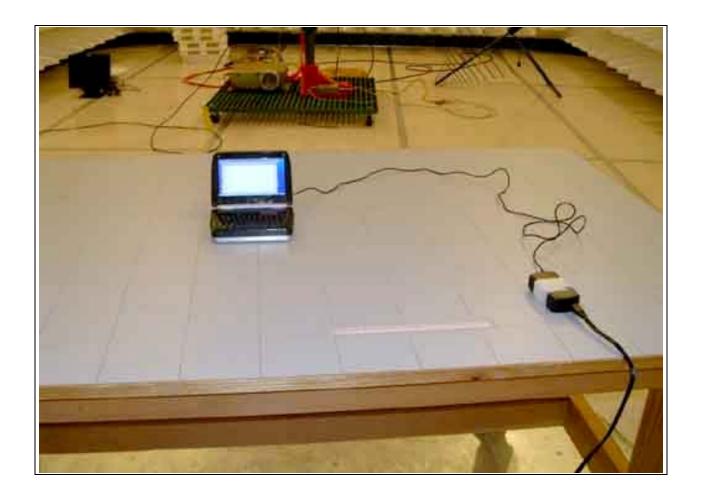
Test Equipment

Test Equipment	1	1	1			1
Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
9kHz-30MHz						
Active Loop ant	00052	Emco	6502	2156	022006	022008
30MHz-1000MHz						
Bothell 5m Cable	P05444	NA	NA	P05444	112805	112807
Set						
PreAmp	01517	HP	8447D	2944A08601	071006	071008
BILOG	1993	Chase	CBL6111C	2456	021405	021407
Spectrum Analyzer	02673	Agilent	E4446A	US44300437	061606	061607
1GHz-18GHz						
2.4 GHz HPF	02745	K&L	11SH10-	2	030806	030808
(Bothell's)			3000			
2.4 GHz LPF	02040	K&L	11SL10-	7	030706	030708
(Bothell's)			20000			
1 GHz HPG	02750	K&L	9SH10-	2	030706	030708
(Bothell's)			1000			
Pre-amp	1271	HP	83017A	3123A00464	100305	100307
Cable Heliax	P04085	Andrew	NA	NA	031506	031508
Cable 30MHz-	P05422	Pasterneck	NA	NA	051106	051108
40GHz						
Cable 30MHz-	P05206	Pasterneck	NA	NA	020805	020807
40GHz						
Horn Antenna	1412	EMCO	3115	9006-4854	010605	010607
18GHz-26GHz						
18-26.5 GHz Horn	02742	Dorado	GH-42-25	05-1203	041406	041408
Antenna						

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PHOTOGRAPH SHOWING RADIATED EMISSIONS



Radiated Emissions - Front View

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PHOTOGRAPH SHOWING RADIATED EMISSIONS



Radiated Emissions - Back View

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