Spectrum Technology, Inc.

MC8775 in the IX605

May 08, 2007

Report No. SPTE0050

EMC Test Report

Report Prepared By

NORTHWEST EMC

www.nwemc.com
1-888-EMI-CERT

NORTHWEST EMC

22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Issue Date: May 08, 2007
Spectrum Technology
Model: MC8775 in the IX605

Emissions				
Test Description	**Specification**	**Test Method**	**Pass**	**Fail**
Effective Isotropic Radiated Power	FCC 24E:2006	ANSI/TIA/EIA-603-B:2002	☒	☐
Effective Radiated Power	FCC 22H:2006	ANSI/TIA/EIA-603-B:2002	☒	☐
Out of Band Emissions	FCC 24E:2006	ANSI/TIA/EIA-603-B:2002	☒	☐
Out of Band Emissions	FCC 22H:2006	ANSI/TIA/EIA-603-B:2002	☒	☐

Modifications made to the product
See the Modifications section of this report

Test Facility

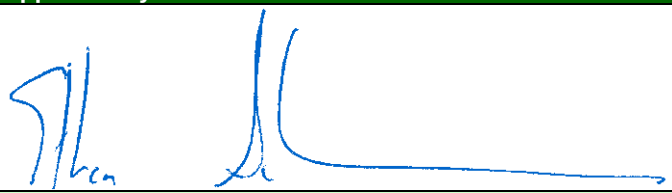
The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
22975 NW Evergreen Parkway, Suite 400
Hillsboro, OR 97124

Phone: (503) 844-4066 Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada.

Approved By:



Ethan Schoonover, Sultan Lab Manager

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.

Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested, the specific description is noted in each of the individual sections of the test report supporting this certificate of test.

Revision Number	Description	Date	Page Number
00	None		

FCC: Accredited by NVLAP for performance of FCC radio, digital, and ISM device testing. Our Open Area Test Sites, certification chambers, and conducted measurement facilities have been fully described in reports filed with the FCC and accepted by the FCC in letters maintained in our files. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by the FCC as a Telecommunications Certification Body (TCB). This allows Northwest EMC to certify transmitters to FCC specifications in accordance with 47 CFR 2.960 and 2.962.

NVLAP: Northwest EMC, Inc. is accredited under the United States Department of Commerce, National Institute of Standards and Technology, and National Voluntary Laboratory Accreditation Program for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 89/336/EEC, ANSI C63.4, MIL-STD 461E, DO-160D and SAE J1113. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.

NVLAP LAB CODE 200629-0
NVLAP LAB CODE 200630-0
NVLAP LAB CODE 200676-0
NVLAP LAB CODE 200761-0

Industry Canada: Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS 212, Issue 1 (Provisional) and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements.

CAB: Designated by NIST and validated by the European Commission as a Conformity Assessment Body (CAB) to conduct tests and approve products to the EMC directive and transmitters to the R&TTE directive, as described in the U.S. - EU Mutual Recognition Agreement.

TÜV Product Service: Included in TUV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TUV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TUV's current Listing of CARAT Laboratories, available from TUV. A certificate was issued to represent that this laboratory continues to meet TUV's CARAT Program requirements. Certificate No. USA0604C.

TÜV Rheinland: Authorized to carryout EMC tests by order and under supervision of TÜV Rheinland. This authorization is based on "Conditions for EMC-Subcontractors" of November 1992.

NEMKO: Assessed and accredited by NEMKO (Norwegian testing and certification body) for European emissions and immunity testing. As a result of NEMKO's laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification (Authorization No. ELA 119).

Australia/New Zealand: The National Association of Testing Authorities (NATA), Australia has been appointed by the ACA as an accreditation body to accredit test laboratories and competent bodies for EMC standards. Accredited test reports or assessments by competent bodies must carry the NATA logo. Test reports made by an overseas laboratory that has been accredited for the relevant standards by an overseas accreditation body that has a Mutual Recognition Agreement (MRA) with NATA are also accepted as technical grounds for product conformity. The report should be endorsed with the respective logo of the accreditation body (NVLAP).

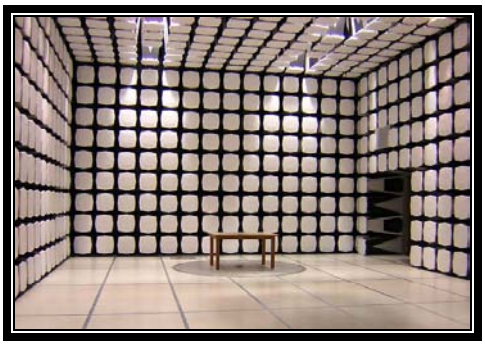
VCCI: Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. *(Registration Numbers. - Hillsboro: C-1071, R-1025, C-2687, T-289, and R-2318, Irvine: R-1943, C-2766, and T-298, Sultan: R-871, C-1784, and T-294).*

BSMI: Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement. License No.SL2-IN-E-1017.

GOST: Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification

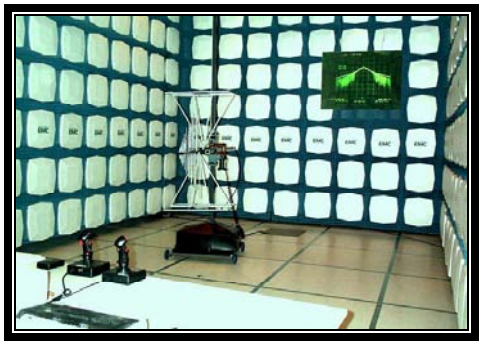
SCOPE

For details on the Scopes of our Accreditations, please visit:
http://www.nwemc.com/scope.asp



California – Orange County Facility
Labs OC01 – OC13

41 Tesla Ave. Irvine, CA 92618
(888) 364-2378 Fax: (503) 844-3826



Oregon – Evergreen Facility
Labs EV01 – EV11

22975 NW Evergreen Pkwy. Suite 400 Hillsboro, OR 97124
(503) 844-4066 Fax: (503) 844-3826

Washington – Sultan Facility
Labs SU01 – SU07

14128 339th Ave. SE Sultan, WA 98294
(888) 364-2378

Party Requesting the Test

Company Name:	Spectrum Technology, Inc.
Address:	209 Dayton Street Suite #205
City, State, Zip:	Edmonds, WA 98020
Test Requested By:	Rod Munro
Model:	MC8775 in the IX605
First Date of Test:	April 9, 2007
Last Date of Test:	April 19, 2007
Receipt Date of Samples:	April 9, 2007
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):

WAN Network Card.

Testing Objective:

TCB certification of the Sierra Wireless MC8775 card in the IX605 notebook. There are two antenna configurations; an internal antenna when used standalone, and an external antenna when used in a vehicle mount configuration. Antenna port conducted data will be used from the Sierra Wireless FCC grant, FCC ID: N7N-MC8775U. Northwest EMC will only do the radiated testing for the new host configurations. Radio operates in GSM, GPRS, Edge, HSDPA, and WCDMA modes. The Sierra MC8775 is collocated with the Intel 4965AGN and Broadcom BT BCM92035NMD in the IX605 computer.

CONFIGURATION 1 SPTE0050

Software/Firmware Running during test	
Description	**Version**
ProcommPlus Terminal	4.8 Build 71

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
WAN Network Card	Sierra Wireless, Inc.	MC8775	None

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Notebook PC	General Dynamics Itronix, Corporation	IX605	814T101002G70400806M000
AC Adapter	Delta Electronics	SADP-65KB D	92W0546007993
USB Card Reader	ImageMate	SDDR-91	015336
802.11(a)/(b)/(g)/(n)	Intel Corporation	4965AGN	Unknown
USB Bluetooth Module	Broadcomm	BCM92035NMD	Unknown
Headset	Unknown	Unknown	Unknown

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
USB	Yes	1.0m	No	Card Reader	Notebook PC
Audio	No	1.0m	No	Headset	Notebook PC
Serial	Yes	1.0m	No	Notebook PC	Unterminated
Video	Yes	1.0m	No	Notebook PC	Unterminated
Phone	No	1.3m	No	Notebook PC	Unterminated
Ethernet	No	1.0m	No	Notebook PC	Unterminated
DC	No	1.2m	Yes	Notebook PC	AC Adapter
AC	No	1.6m	No	AC Adapter	AC Mains
USB	Yes	1.3m	No	Notebook PC	Unterminated
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

CONFIGURATION 2 SPTE0050

Software/Firmware Running during test	
Description	**Version**
ProcommPlus Terminal	4.8 Build 71

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
WAN Network Card	Sierra Wireless, Inc.	MC8775	None

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
USB Card Reader	ImageMate	SDDR-91	015336
USB Mouse	Logitech	M-BE58	LZE02357693
802.11(a)/(b)/(g)/(n)	Intel Corporation	4965AGN	Unknown
USB Bluetooth Module	Broadcomm	BCM92035NMD	Unknown
Vehicle Dock	General Dynamics Itronix, Corporation	IX600 Vehicle Dock, RF	ZZTPE7003ZN7393
Game Controller	Microsoft	X04-63237	6323700623744
PS2 Mouse	Microsoft	X04-72174	5041022-6
12V Car Battery	N/A	N/A	N/A
External WAN Antenna	Maxrad	Unknown	Unknown
External WLAN Antenna (to populate port only)	Maxrad	Unknown	Unknown
Keyboard	Compaq	166516-006	B13990E39G7250
Headset	Unknown	Unknown	Unknown

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
USB	Yes	1.3m	No	Vehicle Dock	Unterminated
USB	Yes	1.3m	No	Vehicle Dock	Game Controller
Serial	Yes	1.0m	No	Vehicle Dock	Untermianted
Mouse	No	1.3m	No	PS2 Mouse	Vehicle Dock
Keyboard	No	1.6m	No	Keyboard	Vehicle Dock
Antenna	Yes	2m	No	External WAN Antenna	Vehicle Dock
Antenna	Yes	2m	No	External WLAN Antenna	Vehicle Dock
DC	No	1.6m	No	Vehicle Dock	12V Battery
USB	Yes	1.3m	No	Notebook PC	Unterminated
USB	Yes	1.3m	No	Vehicle Dock	USB Mouse
USB	Yes	1.3m	No	Vehicle Dock	Card Reader
Video	Yes	1.0m	Yes	Vehicle Dock	Unterminated
Parallel	Yes	1.2m	No	Vehicle Dock	Untermianted
Audio	No	1.0m	No	Vehicle Dock	Headset
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Equipment modifications					
Item	Date	Test	Modification	Note	Disposition of EUT
1	4/9/2007	Effective Isotropic Radiated Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	4/19/2007	Effective Radiated Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	4/19/2007	Out of Band Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

Out of Band Emissions

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

OPERATING BANDS
PCS
Cellular

MODES OF OPERATION
GPRS
EDGE
WCDMA
HSDPA

CHANNELS INVESTIGATED FOR GPRS AND EDGE
PCS, Low channel, Ch. 512, 1850.2MHz
PCS, Mid channel, Ch. 661, 1880MHz
PCS, High channel, Ch. 810, 1909.8MHz
Cellular, Low channel, Ch. 128, 824.2MHz
Cellular, Mid channel, Ch. 192, 837MHz
Cellular, High channel, Ch. 251, 848.8MHz

CHANNELS INVESTIGATED FOR WCDMA AND HSDPA
PCS, Low channel, Ch. 9262, 1852.4MHz
PCS, Mid channel, Ch. 9400, 1880MHz
PCS, High channel, Ch. 9538, 1907.6MHz
Cellular, Low channel, Ch. 4132, 826.4MHz
Cellular, Mid channel, Ch. 4182, 836.4MHz
Cellular, High channel, Ch. 4233, 846.6MHz

CONFIGURATIONS INVESTIGATED
Notebook configuration, internal antenna
Optional vehicle mount configuration, external antenna

POWER SETTINGS INVESTIGATED
120VAC/60Hz

FREQUENCY RANGE INVESTIGATED			
PCS BAND			
Start Frequency	30MHz	Stop Frequency	26 GHz
CELLULAR BAND			
Start Frequency	30MHz	Stop Frequency	10 GHz

SAMPLE CALCULATIONS
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Low Pass Filter 0-1000 MHz	Micro-Tronics	LPM50004	LFD	12/29/2006	13
Low Pass Filter 0-425 MHz	Micro-Tronics	LPM50003	LFB	12/29/2006	13
High Pass Filter 1.2 - 18 GHz	Micro-Tronics	HPM50108	HFV	12/29/2006	13
High Pass Filter	Micro-Tronics	HPM50111	HFO	12/29/2006	13
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	3/23/2006	13
Antenna, Horn	EMCO	3160-09	AHG	NCR	0

EV01 Cable D			EVD	3/30/2006	13
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APC	5/12/2006	13
EV01 cables g,h,I			EVF	4/17/2006	13
Antenna, Horn	EMCO	3160-08	AHK	NCR	0
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	12/29/2006	13
Pre-Amplifier	Miteq	AM-1616-1000	AOL	12/29/2006	13
Antenna, Biconilog	EMCO	3141	AXE	12/28/2005	24
EV01 cables c,g, h			EVA	12/29/2006	13
Antenna, Dipole (part of ADA)	ETS	3121C-DB4	ADAA	12/28/2006	24
Antenna, Dipole (ADAA included)	Roberts	Roberts	ADA	12/28/2006	24
EV01 cables g,h,j			EVB	12/29/2006	13
Antenna, Horn	EMCO	3115	AHJ	5/20/2005	24
Antenna, Horn	EMCO	3115	AHC	8/24/2006	12
Signal Generator	Hewlett-Packard	8648D	TGC	12/7/2006	13
Power Meter	Gigatronics	8651A	SPM	9/19/2006	12
Power Sensor	Gigatronics	80701A	SPL	9/19/2006	12
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2006	13

MEASUREMENT BANDWIDTHS

	Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and/or receiving while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003).

The amplitude and frequency of the highest emissions were noted. The EUT was then replaced with a horn or dipole antenna. A signal generator was connected to the horn (or dipole) antenna and its output was adjusted to match the level previously noted for each frequency. The output of the signal generator was recorded, and by factoring in the cable loss to the horn (or dipole) antenna and its gain (dBi); the effective isotropic radiated power for each fundamental emission was determined.

NORTHWEST EMC

Out of Band Emissions

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/10/07
Customer:	Spectrum Technology, Inc.	Temperature:	22
Attendees:	Rod Munro	Humidity:	32%
Project:	None	Barometric Pres.:	30.05
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Internal antenna. Notebook standalone configuration.

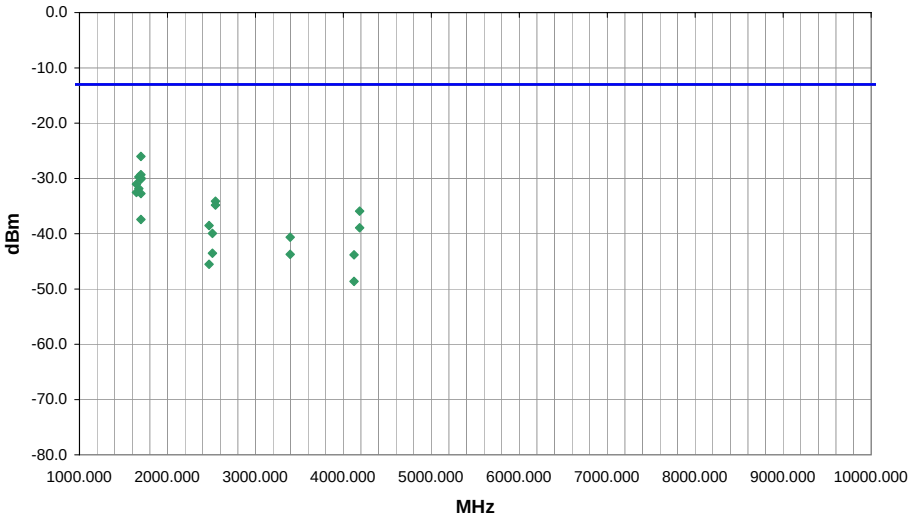
EUT OPERATING MODES

GPRS, Packet Data, Cellular band, see comments for channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	7		
Configuration #	1		
Results	Pass	NVLAP Lab Code 200630-0	Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1697.665			309.0	1.0			H-Horn	PK	2.50E-06	-26.0	-13.0	-13.0	High channel, Notebook screen horizontal
1697.775			146.0	1.0			V-Horn	PK	1.17E-06	-29.3	-13.0	-16.3	High channel, Notebook on side
1674.072			128.0	1.0			V-Horn	PK	1.06E-06	-29.7	-13.0	-16.7	Mid channel, Notebook on side
1697.720			306.0	1.0			V-Horn	PK	1.02E-06	-29.9	-13.0	-16.9	High channel, Notebook screen horizontal
1697.775			312.0	1.0			V-Horn	PK	9.71E-07	-30.1	-13.0	-17.1	High channel, Notebook typical position
1648.305			35.0	1.0			H-Horn	PK	7.89E-07	-31.0	-13.0	-18.0	Low channel, Notebook screen horizontal
1674.127			242.0	1.4			H-Horn	PK	6.56E-07	-31.8	-13.0	-18.8	Mid channel, Notebook screen horizontal
1648.325			125.0	1.0			V-Horn	PK	5.59E-07	-32.5	-13.0	-19.5	Low channel, Notebook on side
1697.640			171.0	1.3			H-Horn	PK	5.33E-07	-32.7	-13.0	-19.7	High channel, Notebook typical position
2546.450			178.0	1.0			V-Horn	PK	3.86E-07	-34.1	-13.0	-21.1	High channel, Notebook on side
2546.165			72.0	1.0			H-Horn	PK	3.29E-07	-34.8	-13.0	-21.8	High channel, Notebook screen horizontal
4185.031			324.0	1.0			H-Horn	PK	2.55E-07	-35.9	-13.0	-22.9	Mid channel, Notebook screen horizontal
1697.685			285.0	1.0			H-Horn	PK	1.81E-07	-37.4	-13.0	-24.4	High channel, Notebook on side
2472.906			62.0	1.0			H-Horn	PK	1.40E-07	-38.5	-13.0	-25.5	Low channel, Notebook screen horizontal
4185.226			8.0	1.0			V-Horn	PK	1.28E-07	-38.9	-13.0	-25.9	Mid channel, Notebook on side
2511.299			276.0	1.0			H-Horn	PK	1.02E-07	-39.9	-13.0	-26.9	Mid channel, Notebook screen horizontal
3395.525			155.0	1.0			V-Horn	PK	8.65E-08	-40.6	-13.0	-27.6	High channel, Notebook on side
2511.164			15.0	1.0			V-Horn	PK	4.44E-08	-43.5	-13.0	-30.5	Mid channel, Notebook on side
3394.915			275.0	1.0			H-Horn	PK	4.24E-08	-43.7	-13.0	-30.7	High channel, Notebook screen horizontal
4121.039			6.0	1.8			V-Horn	PK	4.14E-08	-43.8	-13.0	-30.8	Low channel, Notebook on side

NORTHWEST EMC

Out of Band Emissions

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/12/07
Customer:	Spectrum Technology, Inc.	Temperature:	21° C
Attendees:	Rod Munro	Humidity:	32%
Project:	None	Barometric Pres.:	30.11
Tested by:	Dan Haas and Holly Ashkannejhad	Power: 13.8VDC	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook in optional vehicular configuration. External antenna.

EUT OPERATING MODES

GPRS, Packet Data, Cellular band.

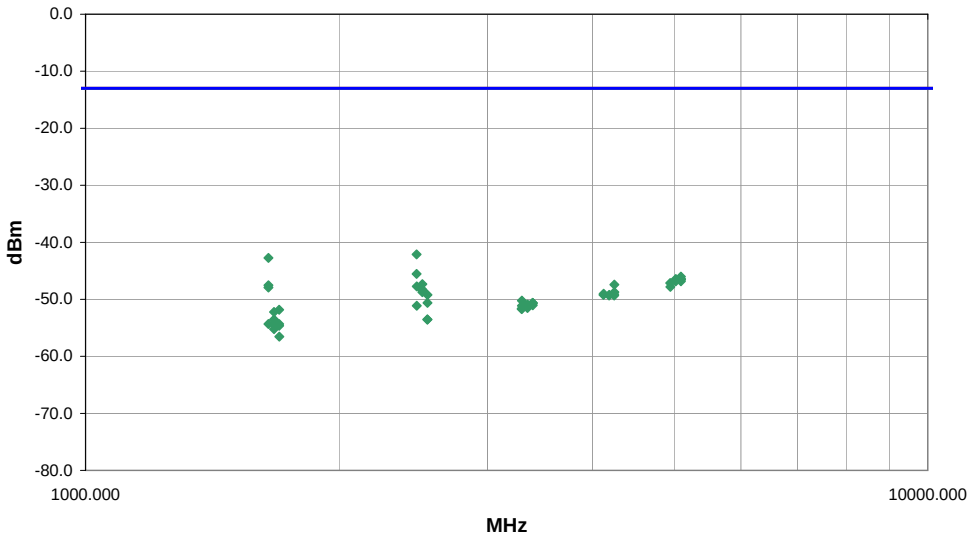
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	21
Configuration #	2
Results	Pass

NVLAP Lab Code 200630-0

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
2472.525			187.0	1.0			V-Horn	PK	6.13E-08	-42.1	-13.0	-29.1	Low channel, antenna vertical
1648.485			318.0	1.0			V-Horn	PK	5.33E-08	-42.7	-13.0	-29.7	Low channel, antenna vertical
2472.440			186.0	1.0			V-Horn	PK	2.80E-08	-45.5	-13.0	-32.5	Low channel, antenna on side
5092.245			238.0	2.9			V-Horn	PK	2.50E-08	-46.0	-13.0	-33.0	High channel, antenna vertical
5020.855			316.0	1.0			V-Horn	PK	2.28E-08	-46.4	-13.0	-33.4	Mid channel, antenna vertical
5094.130			2.0	1.0			H-Horn	PK	2.28E-08	-46.4	-13.0	-33.4	High channel, antenna vertical
5093.175			357.0	2.9			V-Horn	PK	2.22E-08	-46.5	-13.0	-33.5	High channel, antenna on side
5022.185			125.0	1.0			H-Horn	PK	2.08E-08	-46.8	-13.0	-33.8	Mid channel, antenna vertical
5091.425			227.0	1.0			H-Horn	PK	2.08E-08	-46.8	-13.0	-33.8	High channel, antenna on side
4945.305			359.0	1.9			V-Horn	PK	1.94E-08	-47.1	-13.0	-34.1	Low channel, antenna vertical
2510.700			63.0	1.0			V-Horn	PK	1.85E-08	-47.3	-13.0	-34.3	Mid channel, antenna vertical
4244.025			218.0	1.0			V-Horn	PK	1.81E-08	-47.4	-13.0	-34.4	High channel, antenna vertical
1648.410			236.0	1.0			V-Horn	PK	1.77E-08	-47.5	-13.0	-34.5	Low channel, antenna on side
2472.925			115.0	1.0			H-Horn	PK	1.69E-08	-47.7	-13.0	-34.7	Low channel, antenna on side
4946.475			62.0	1.0			H-Horn	PK	1.65E-08	-47.8	-13.0	-34.8	Low channel, antenna vertical
1648.325			168.0	1.3			H-Horn	PK	1.61E-08	-47.9	-13.0	-34.9	Low channel, antenna on side
2510.710			143.0	1.0			H-Horn	PK	1.47E-08	-48.3	-13.0	-35.3	Mid channel, antenna vertical
2511.010			7.0	1.0			V-Horn	PK	1.47E-08	-48.3	-13.0	-35.3	Mid channel, antenna on side
2511.280			317.0	1.0			H-Horn	PK	1.34E-08	-48.7	-13.0	-35.7	Mid channel, antenna on side
4245.060			300.0	1.0			V-Horn	PK	1.34E-08	-48.7	-13.0	-35.7	High channel, antenna on side

NORTHWEST EMC

Out of Band Emissions

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/11/07
Customer:	Spectrum Technology, Inc.	Temperature:	22
Attendees:	Rod Munro	Humidity:	32%
Project:	None	Barometric Pres.:	30.05
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Internal antenna. Notebook standalone configuration.

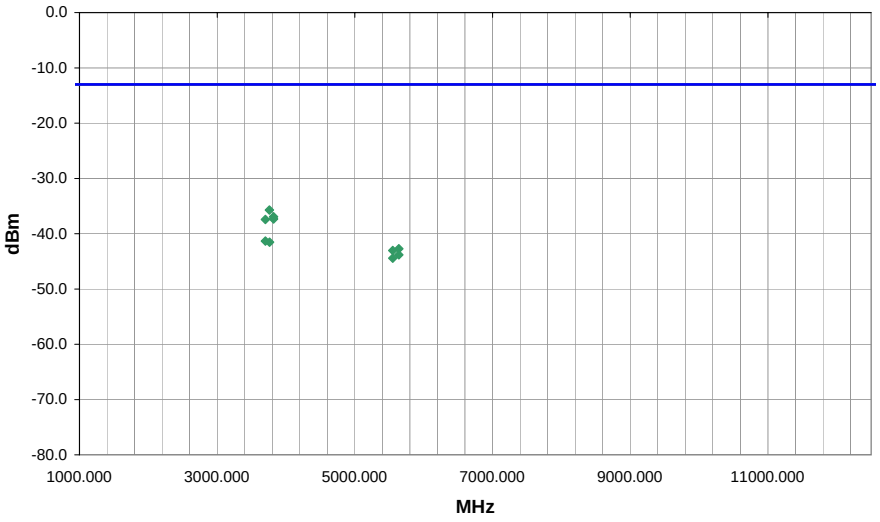
EUT OPERATING MODES

GPRS, Packet Data, PCS band, see comments for channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	10		
Configuration #	1		
Results	Pass	NVLAP Lab Code 200630-0	Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
3758.719			84.0	1.0			H-Horn	PK	2.67E-07	-35.7	-13.0	-22.7	Mid channel, Notebook screen horizontal
3819.195			333.0	1.0			H-Horn	PK	2.03E-07	-36.9	-13.0	-23.9	High channel, Notebook screen horizontal
3819.750			109.0	1.0			V-Horn	PK	1.85E-07	-37.3	-13.0	-24.3	High channel, Notebook on side
3700.365			355.0	1.0			H-Horn	PK	1.81E-07	-37.4	-13.0	-24.4	Low channel, Notebook screen horizontal
3700.490			155.0	1.0			V-Horn	PK	7.36E-08	-41.3	-13.0	-28.3	Low channel, Notebook on side
3760.039			151.0	1.0			V-Horn	PK	7.03E-08	-41.5	-13.0	-28.5	Mid channel, Notebook on side
5639.960			114.0	1.0			V-Horn	PK	5.33E-08	-42.7	-13.0	-29.7	Mid channel, Notebook on side
5550.500			13.0	1.3			H-Horn	PK	4.98E-08	-43.0	-13.0	-30.0	Low channel, Notebook screen horizontal
5639.350			153.0	1.0			H-Horn	PK	4.14E-08	-43.8	-13.0	-30.8	Mid channel, Notebook screen horizontal
5551.290			178.0	1.0			V-Horn	PK	3.61E-08	-44.4	-13.0	-31.4	Low channel, Notebook on side

NORTHWEST EMC

Out of Band Emissions

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605			Work Order:	SPTE0050
Serial Number:	None			Date:	04/12/07
Customer:	Spectrum Technology, Inc.			Temperature:	21° C
Attendees:	Rod Munro			Humidity:	32%
Project:	None			Barometric Pres.:	30.11
Tested by:	Dan Haas	Power:	13.8VDC	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook in optional vehicular configuration. External antenna.

EUT OPERATING MODES

GPRS, Packet Data, PCS band.

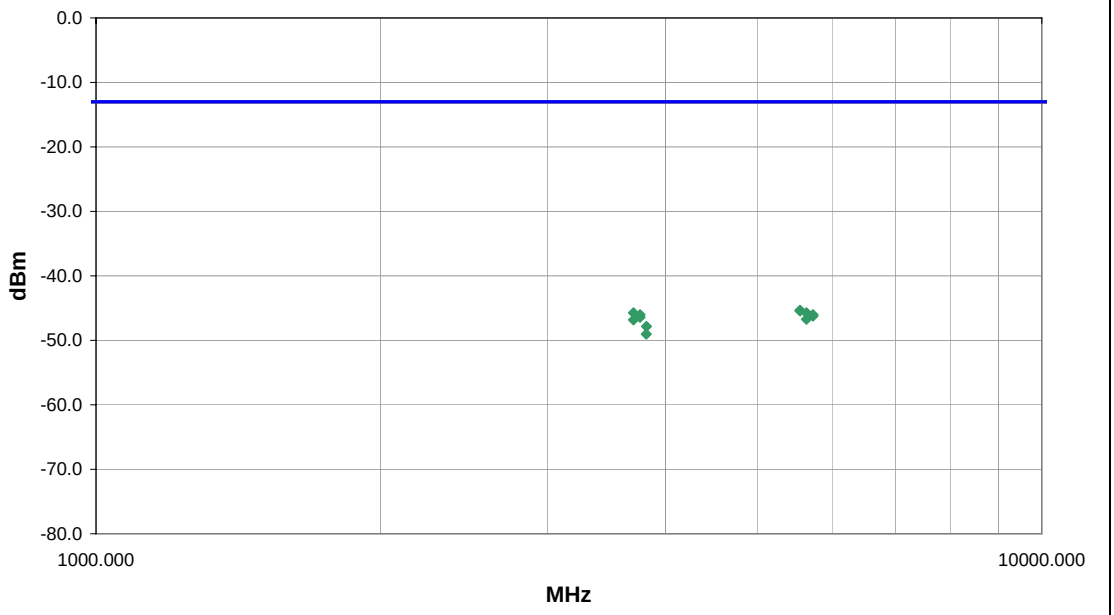
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	18
Configuration #	2
Results	Pass

NVLAP Lab Code 200630-0

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5550.440			95.0	1.0			V-Horn	PK	2.93E-08	-45.3	-13.0	-32.3	Low Channel.
5550.345			321.0	1.0			H-Horn	PK	2.86E-08	-45.4	-13.0	-32.4	Low Channel.
3700.455			164.0	1.0			V-Horn	PK	2.67E-08	-45.7	-13.0	-32.7	Low Channel.
5639.140			119.0	1.0			V-Horn	PK	2.67E-08	-45.7	-13.0	-32.7	Mid Channel.
3760.000			139.0	2.6			H-Horn	PK	2.50E-08	-46.0	-13.0	-33.0	Mid Channel.
5729.305			158.0	1.0			V-Horn	PK	2.50E-08	-46.0	-13.0	-33.0	High Channel.
5728.695			272.0	1.0			H-Horn	PK	2.38E-08	-46.2	-13.0	-33.2	High Channel.
3760.135			317.0	1.0			V-Horn	PK	2.28E-08	-46.4	-13.0	-33.4	Mid Channel.
5638.660			82.0	1.0			H-Horn	PK	2.12E-08	-46.7	-13.0	-33.7	Mid Channel.
3700.435			127.0	1.0			H-Horn	PK	2.08E-08	-46.8	-13.0	-33.8	Low Channel.
3819.730			158.0	2.0			H-Horn	PK	1.65E-08	-47.8	-13.0	-34.8	High Channel.
3818.275			172.0	1.0			V-Horn	PK	1.25E-08	-49.0	-13.0	-36.0	High Channel.

NORTHWEST **EMC**

Out of Band Emissions

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605			**Work Order:**	SPTE0050
Serial Number:	None			**Date:**	04/10/07
Customer:	Spectrum Technology, Inc.			**Temperature:**	22
Attendees:	Rod Munro			**Humidity:**	32%
Project:	None			**Barometric Pres.:**	30.05
Tested by:	Holly Ashkannejhad	**Power:**	120VAC/60Hz	**Job Site:**	EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	**Test Distance (m)**	0

COMMENTS

Internal antenna. Notebook standalone configuration.

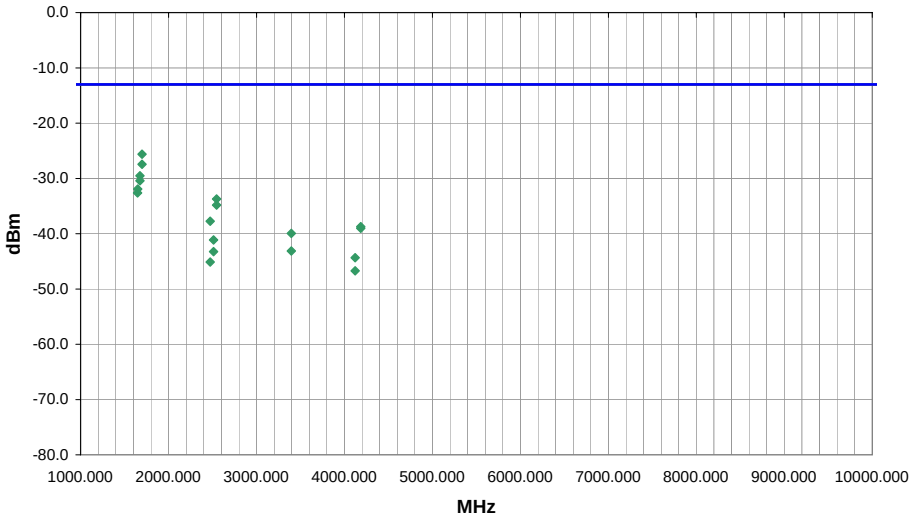
EUT OPERATING MODES

Edge, Packet Data, Cellular band, see comments for channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	8		
Configuration #	1		
Results	Pass	NVLAP Lab Code 200630-0	*Signature* Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1697.725			268.0	1.3			H-Horn	PK	2.74E-06	-25.6	-13.0	-12.6	High channel, notebook screen horizontal
1697.735			99.0	1.0			V-Horn	PK	1.81E-06	-27.4	-13.0	-14.4	High channel, notebook on side
1674.117			282.0	1.3			H-Horn	PK	1.11E-06	-29.5	-13.0	-16.5	Mid channel, notebook screen horizontal
1674.062			109.0	1.0			V-Horn	PK	9.06E-07	-30.4	-13.0	-17.4	Mid channel, notebook on side
1648.500			23.0	1.0			H-Horn	PK	6.41E-07	-31.9	-13.0	-18.9	Low channel, notebook screen horizontal
1648.295			110.0	1.0			V-Horn	PK	5.46E-07	-32.6	-13.0	-19.6	Low channel, notebook on side
2546.490			339.0	1.0			H-Horn	PK	4.24E-07	-33.7	-13.0	-20.7	High channel, notebook screen horizontal
2546.585			148.0	1.0			V-Horn	PK	3.29E-07	-34.8	-13.0	-21.8	High channel, notebook on side
2472.646			56.0	1.0			H-Horn	PK	1.69E-07	-37.7	-13.0	-24.7	Low channel, notebook screen horizontal
4185.251			318.0	1.0			H-Horn	PK	1.34E-07	-38.7	-13.0	-25.7	Mid channel, notebook screen horizontal
4185.001			8.0	1.0			V-Horn	PK	1.25E-07	-39.0	-13.0	-26.0	Mid channel, notebook on side
3395.500			148.0	1.0			V-Horn	PK	1.02E-07	-39.9	-13.0	-26.9	High channel, notebook on side
2511.289			272.0	1.0			H-Horn	PK	7.71E-08	-41.1	-13.0	-28.1	Mid channel, notebook screen horizontal
3395.545			32.0	1.0			H-Horn	PK	4.87E-08	-43.1	-13.0	-30.1	High channel, notebook screen horizontal
2510.994			74.0	1.0			V-Horn	PK	4.75E-08	-43.2	-13.0	-30.2	Mid channel, notebook on side
4121.439			331.0	1.3			H-Horn	PK	3.69E-08	-44.3	-13.0	-31.3	Low channel, notebook screen horizontal
2472.741			143.0	1.0			V-Horn	PK	3.07E-08	-45.1	-13.0	-32.1	Low channel, notebook on side
4120.754			359.0	2.0			V-Horn	PK	2.12E-08	-46.7	-13.0	-33.7	Low channel, notebook on side

NORTHWEST EMC

Out of Band Emissions

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/12/07
Customer:	Spectrum Technology, Inc.	Temperature:	21° C
Attendees:	Rod Munro	Humidity:	32%
Project:	None	Barometric Pres.:	30.11
Tested by:	Holly Ashkannejhad	Power: 13.8VDC	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook in optional vehicular configuration. External antenna.

EUT OPERATING MODES

EGPRS, Packet Data, Cellular band.

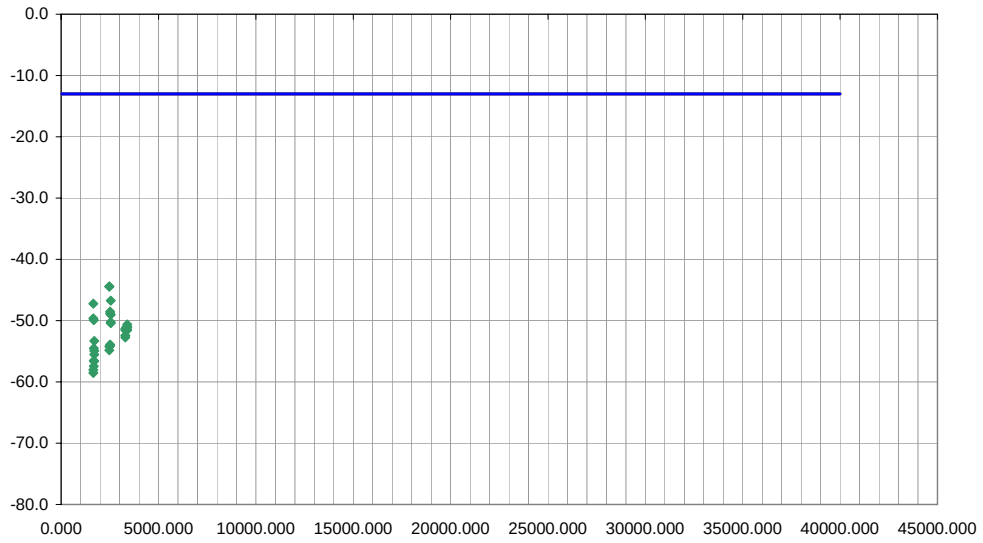
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	23
Configuration #	2
Results	Pass

NVLAP Lab Code 200630-0

Signature Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
2472.745			318.0	1.0			H-Horn	PK	3.61E-08	-44.4	-13.0	-31.4	Low channel, antenna on side
2472.775			263.0	1.0			V-Horn	PK	3.61E-08	-44.4	-13.0	-31.4	Low channel, antenna on side
2546.360			113.0	1.0			V-Horn	PK	2.12E-08	-46.7	-13.0	-33.7	High channel, antenna vertical
1648.355			4.0	1.0			V-Horn	PK	1.89E-08	-47.2	-13.0	-34.2	Low channel, antenna on side
2511.055			6.0	1.0			V-Horn	PK	1.40E-08	-48.5	-13.0	-35.5	Mid channel, antenna vertical
2510.560			41.0	1.0			H-Horn	PK	1.31E-08	-48.8	-13.0	-35.8	Mid channel, antenna vertical
2546.115			113.0	1.0			V-Horn	PK	1.25E-08	-49.0	-13.0	-36.0	High channel, antenna on side
1648.375			276.0	1.0			H-Horn	PK	1.09E-08	-49.6	-13.0	-36.6	Low channel, antenna on side
1673.910			232.0	1.0			V-Horn	PK	1.02E-08	-49.9	-13.0	-36.9	Mid channel, antenna vertical
2546.325			114.0	1.0			H-Horn	PK	9.49E-09	-50.2	-13.0	-37.2	High channel, antenna on side
2546.525			121.0	1.0			H-Horn	PK	9.06E-09	-50.4	-13.0	-37.4	High channel, antenna vertical
3395.535			47.0	1.0			V-Horn	PK	8.65E-09	-50.6	-13.0	-37.6	High channel, antenna on side
3348.355			105.0	2.6			H-Horn	PK	7.89E-09	-51.0	-13.0	-38.0	Mid channel, antenna on side
3394.995			78.0	1.0			V-Horn	PK	7.89E-09	-51.0	-13.0	-38.0	High channel, antenna vertical
3395.360			227.0	1.0			H-Horn	PK	7.71E-09	-51.1	-13.0	-38.1	High channel, antenna vertical
3297.125			274.0	1.0			V-Horn	PK	7.36E-09	-51.3	-13.0	-38.3	Low channel, antenna on side
3349.080			308.0	2.6			H-Horn	PK	7.20E-09	-51.4	-13.0	-38.4	Mid channel, antenna vertical
3348.810			83.0	1.0			V-Horn	PK	7.03E-09	-51.5	-13.0	-38.5	Mid channel, antenna on side
3296.970			28.0	1.0			H-Horn	PK	7.03E-09	-51.5	-13.0	-38.5	Low channel, antenna on side
3396.080			248.0	1.0			H-Horn	PK	7.03E-09	-51.5	-13.0	-38.5	High channel, antenna on side

NORTHWEST EMC

Out of Band Emissions

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/10/07
Customer:	Spectrum Technology, Inc.	Temperature:	22
Attendees:	Rod Munro	Humidity:	32%
Project:	None	Barometric Pres.:	30.05
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Internal antenna. Notebook standalone configuration.

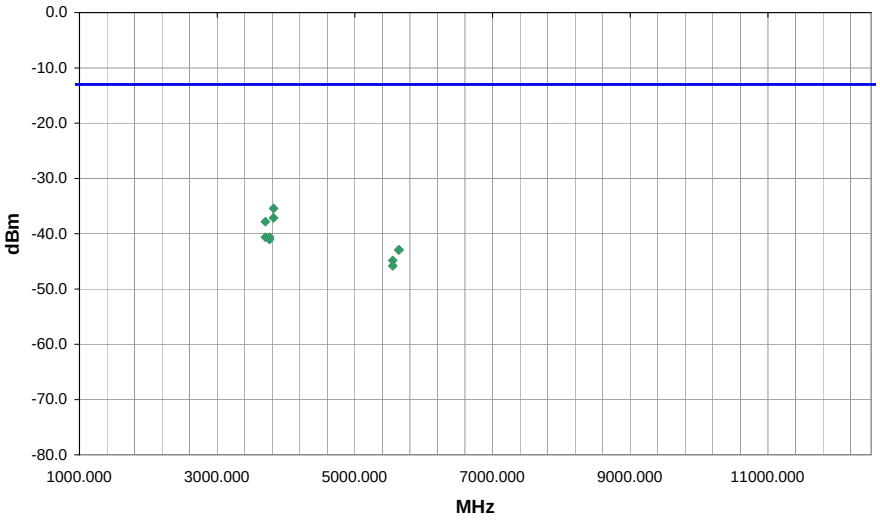
EUT OPERATING MODES

Edge, Packet Data, PCS band, see comments for channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	9		
Configuration #	1		
Results	Pass	NVLAP Lab Code 200630-0	*Signature* Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
3819.745			47.0	1.0			H-Horn	PK	2.86E-07	-35.4	-13.0	-22.4	High channel, Notebook screen horizontal
3819.540			35.0	1.2			V-Horn	PK	1.94E-07	-37.1	-13.0	-24.1	High channel, Notebook on side
3700.215			353.0	1.0			H-Horn	PK	1.65E-07	-37.8	-13.0	-24.8	Low channel, Notebook screen horizontal
3700.655			156.0	1.0			V-Horn	PK	8.65E-08	-40.6	-13.0	-27.6	Low channel, Notebook on side
3760.134			149.0	1.0			V-Horn	PK	8.65E-08	-40.6	-13.0	-27.6	Mid channel, Notebook on side
3760.319			42.0	1.0			H-Horn	PK	7.89E-08	-41.0	-13.0	-28.0	Mid channel, Notebook screen horizontal
5640.050			116.0	1.0			V-Horn	PK	5.09E-08	-42.9	-13.0	-29.9	Mid channel, Notebook on side
5640.900			42.0	1.0			H-Horn	PK	5.09E-08	-42.9	-13.0	-29.9	Mid channel, Notebook screen horizontal
5550.795			192.0	1.0			V-Horn	PK	3.29E-08	-44.8	-13.0	-31.8	Low channel, Notebook on side
5550.660			7.0	1.4			H-Horn	PK	2.61E-08	-45.8	-13.0	-32.8	Low channel, Notebook screen horizontal

NORTHWEST EMC

Out of Band Emissions

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/12/07
Customer:	Spectrum Technology, Inc.	Temperature:	23
Attendees:	Rod Munro	Humidity:	32%
Project:	None	Barometric Pres.:	29.99
Tested by:	Holly Ashkannejhad	Power: 13.8VDC	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook in optional vehicular configuration. External antenna.

EUT OPERATING MODES

EGPRS, Packet Data, PCS band, see comments for channel

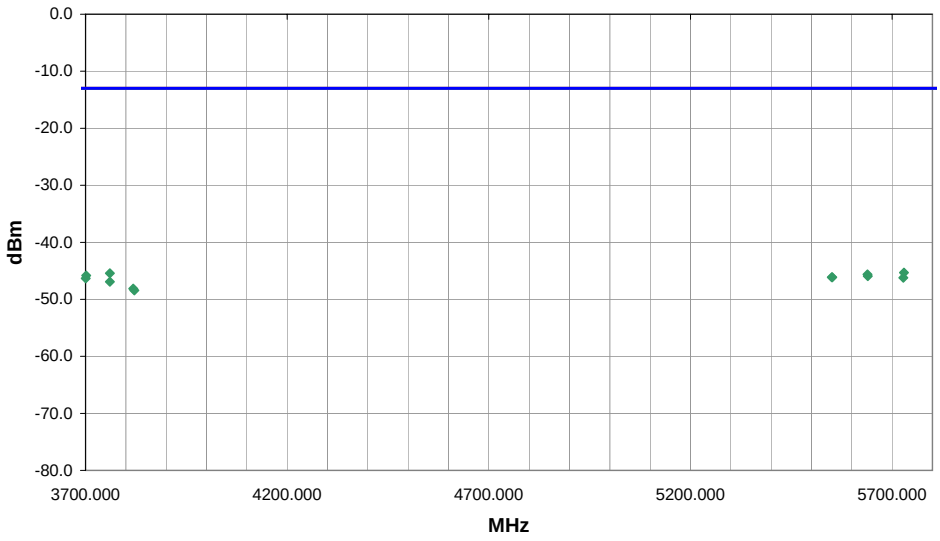
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	24
Configuration #	2
Results	Pass

NVLAP Lab Code 200630-0

Signature Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5729.185			65.0	1.0			V-Horn	PK	2.93E-08	-45.3	-13.0	-32.3	High channel, antenna vertical
3760.365			94.0	1.0			V-Horn	PK	2.86E-08	-45.4	-13.0	-32.4	Mid channel, antenna vertical
5638.845			336.0	1.3			H-Horn	PK	2.74E-08	-45.6	-13.0	-32.6	Mid channel, antenna on side
3701.770			186.0	1.0			V-Horn	PK	2.61E-08	-45.8	-13.0	-32.8	Low channel, antenna vertical
5639.770			168.0	1.0			V-Horn	PK	2.55E-08	-45.9	-13.0	-32.9	Mid channel, antenna vertical
5550.470			273.0	3.6			V-Horn	PK	2.44E-08	-46.1	-13.0	-33.1	Low channel, antenna vertical
5551.520			36.0	1.0			H-Horn	PK	2.44E-08	-46.1	-13.0	-33.1	Low channel, on side
5727.980			68.0	1.0			H-Horn	PK	2.38E-08	-46.2	-13.0	-33.2	High channel, antenna on side
3700.385			122.0	1.3			H-Horn	PK	2.33E-08	-46.3	-13.0	-33.3	Low channel, on side
3760.285			95.0	1.0			H-Horn	PK	2.03E-08	-46.9	-13.0	-33.9	Mid channel, antenna on side
3818.175			313.0	1.0			H-Horn	PK	1.54E-08	-48.1	-13.0	-35.1	High channel, antenna on side
3820.835			244.0	1.0			V-Horn	PK	1.44E-08	-48.4	-13.0	-35.4	High channel, antenna vertical

NORTHWEST EMC

Out of Band Emissions

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605			Work Order:	SPTE0050
Serial Number:	None			Date:	04/18/07
Customer:	Spectrum Technology, Inc.			Temperature:	22
Attendees:	None			Humidity:	33%
Project:	None			Barometric Pres.:	30.18
Tested by:	David Divergigelis	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook in standard notebook configuration with internal antenna

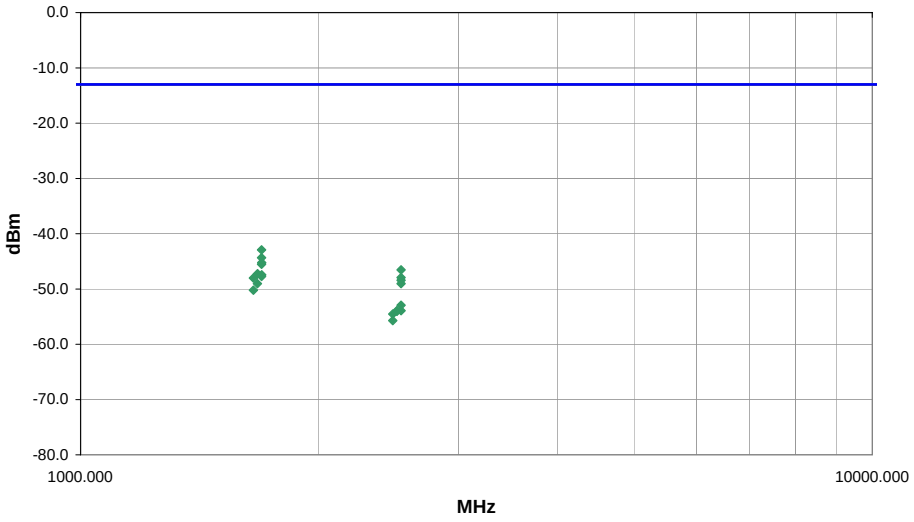
EUT OPERATING MODES

Cellular Band - W-CDMA (Please see comment area for channel measured)

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	31		
Configuration #	1		
Results	Pass	NVLAP Lab Code 200630-0	*Signature*



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1692.710			126.0	1.0			H-Horn	PK	5.09E-08	-42.9	-13.0	-29.9	High channel, notebook screen horizontal
1692.715			270.0	1.0			V-Horn	PK	3.69E-08	-44.3	-13.0	-31.3	High channel, notebook on side
1693.502			122.0	1.0			V-Horn	PK	3.00E-08	-45.2	-13.0	-32.2	High channel, notebook screen horizontal
1692.735			229.0	1.0			V-Horn	PK	2.80E-08	-45.5	-13.0	-32.5	High channel, notebook typical position
2540.107			17.0	1.0			V-Horn	PK	2.22E-08	-46.5	-13.0	-33.5	High channel, notebook typical position
1673.287			103.0	1.0			H-Horn	PK	1.89E-08	-47.2	-13.0	-34.2	Mid channel, notebook screen horizontal
1693.297			246.0	1.0			H-Horn	PK	1.81E-08	-47.4	-13.0	-34.4	High channel, notebook on side
1692.842			6.0	1.4			H-Horn	PK	1.69E-08	-47.7	-13.0	-34.7	High channel, notebook typical position
2539.315			184.0	1.0			V-Horn	PK	1.61E-08	-47.9	-13.0	-34.9	High channel, notebook screen horizontal
1653.280			102.0	1.0			H-Horn	PK	1.57E-08	-48.0	-13.0	-35.0	Low channel, notebook screen horizontal
2540.188			19.0	1.0			H-Horn	PK	1.44E-08	-48.4	-13.0	-35.4	High channel, notebook on side
1672.537			126.0	1.0			V-Horn	PK	1.25E-08	-49.0	-13.0	-36.0	Mid channel, notebook screen horizontal
2539.723			76.0	1.0			H-Horn	PK	1.25E-08	-49.0	-13.0	-36.0	High channel, notebook typical position
1653.280			176.0	1.0			V-Horn	PK	9.49E-09	-50.2	-13.0	-37.2	Low channel, notebook screen horizontal
2539.820			249.0	1.0			V-Horn	PK	5.09E-09	-52.9	-13.0	-39.9	High channel, notebook on side
2539.373			190.0	1.8			H-Horn	PK	4.05E-09	-53.9	-13.0	-40.9	High channel, notebook screen horizontal
2508.920			175.0	1.0			V-Horn	PK	4.05E-09	-53.9	-13.0	-40.9	Mid channel, notebook screen horizontal
2509.002			102.0	1.0			H-Horn	PK	3.95E-09	-54.0	-13.0	-41.0	Mid channel, notebook screen horizontal
2479.393			235.0	1.0			H-Horn	PK	3.52E-09	-54.5	-13.0	-41.5	Low channel, notebook screen horizontal
2479.268			33.0	1.0			V-Horn	PK	2.67E-09	-55.7	-13.0	-42.7	Low channel, notebook screen horizontal

NORTHWEST EMC

Out of Band Emissions

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/19/07
Customer:	Spectrum Technology, Inc.	Temperature:	22
Attendees:	None	Humidity:	33%
Project:	None	Barometric Pres.:	30.18
Tested by:	Rod Peloquin	Power: 13.8 VDC	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 2H:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook in optional vehicle mount external antenna

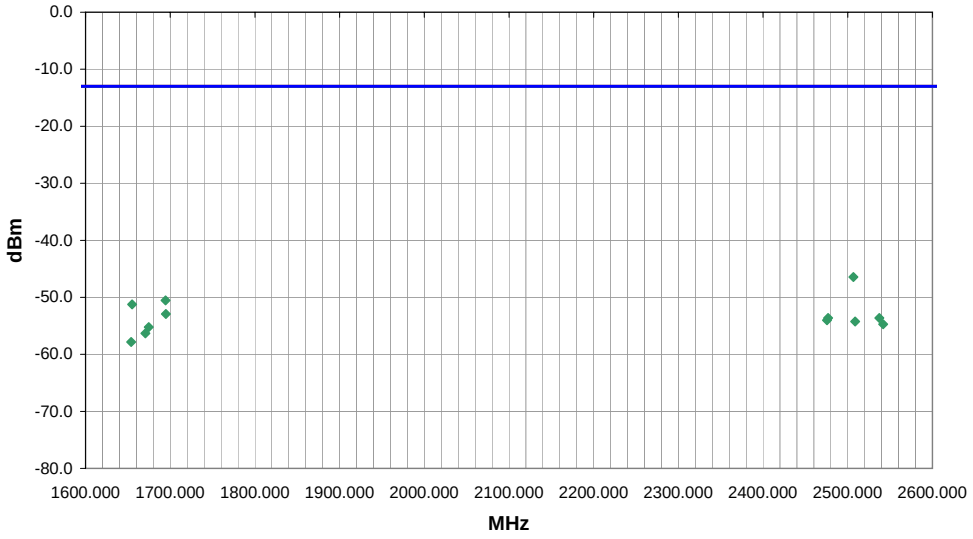
EUT OPERATING MODES

W-CDMA, packet data, Cell band

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	34		
Configuration #	2		
Results	Pass	NVLAP Lab Code 200630-0	*Signature*



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
2506.590			177.0	1.2			H-Horn	PK	2.28E-08	-46.4	-13.0	-33.4	Mid channel, antenna on side
1694.550			223.0	1.2			H-Horn	PK	8.85E-09	-50.5	-13.0	-37.5	High channel, antenna on side
1655.065			334.0	1.0			V-Horn	PK	7.54E-09	-51.2	-13.0	-38.2	Low channel, antenna vertical
1694.850			277.0	1.0			V-Horn	PK	5.09E-09	-52.9	-13.0	-39.9	High channel, antenna vertical
2476.725			188.0	1.1			H-Horn	PK	4.34E-09	-53.6	-13.0	-40.6	Low channel, antenna on side
2537.185			156.0	1.1			H-Horn	PK	4.34E-09	-53.6	-13.0	-40.6	High channel, antenna on side
2475.435			344.0	1.0			V-Horn	PK	3.95E-09	-54.0	-13.0	-41.0	Low channel, antenna vertical
2508.750			205.0	1.0			V-Horn	PK	3.78E-09	-54.2	-13.0	-41.2	Mid channel, antenna vertical
2541.805			114.0	1.0			V-Horn	PK	3.37E-09	-54.7	-13.0	-41.7	High channel, antenna vertical
1674.645			338.0	1.0			V-Horn	PK	3.00E-09	-55.2	-13.0	-42.2	Mid channel, antenna vertical
1670.655			313.0	1.2			H-Horn	PK	2.33E-09	-56.3	-13.0	-43.3	Mid channel, antenna on side
1653.850			248.0	1.1			H-Horn	PK	1.65E-09	-57.8	-13.0	-44.8	Low channel, antenna on side

NORTHWEST EMC

Out of Band Emissions

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605			Work Order:	SPTE0050
Serial Number:	None			Date:	04/19/07
Customer:	Spectrum Technology, Inc.			Temperature:	22° C
Attendees:	None			Humidity:	32%
Project:	None			Barometric Pres.:	30.11
Tested by:	Rod Peloquin	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook standalone

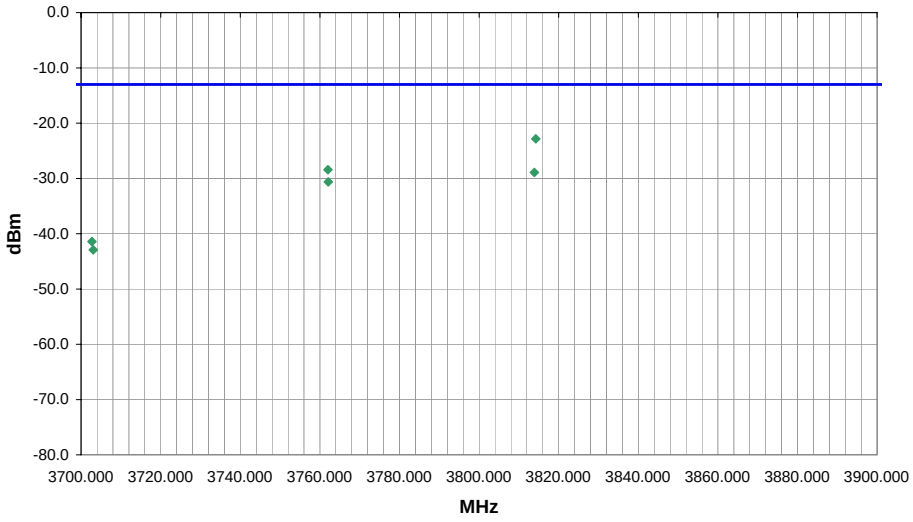
EUT OPERATING MODES

W-CDMA, packet data, PCS band

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	32		
Configuration #	1		
Results	Pass	NVLAP Lab Code 200630-0	*Signature*



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
3814.243			55.0	1.2			H-Horn	PK	5.21E-06	-22.8	-13.0	-9.8	High channel, Notebook screen horizontal
3762.018			7.0	1.1			H-Horn	PK	1.44E-06	-28.4	-13.0	-15.4	Mid channel, Notebook screen horizontal
3813.893			61.0	1.0			V-Horn	PK	1.28E-06	-28.9	-13.0	-15.9	High channel, Notebook on side
3762.100			293.0	2.1			V-Horn	PK	8.65E-07	-30.6	-13.0	-17.6	Mid channel, Notebook on side
3702.752			51.0	1.1			H-Horn	PK	7.20E-08	-41.4	-13.0	-28.4	Low channel, Notebook screen horizontal
3703.050			76.0	1.2			V-Horn	PK	5.09E-08	-42.9	-13.0	-29.9	Low channel, Notebook on side

NORTHWEST EMC

Out of Band Emissions

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/19/07
Customer:	Spectrum Technology, Inc.	Temperature:	22° C
Attendees:	None	Humidity:	32%
Project:	None	Barometric Pres.:	30.11
Tested by:	Rod Peloquin	Power: 13.8 VDC	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Vehicular configuration with external antenna.

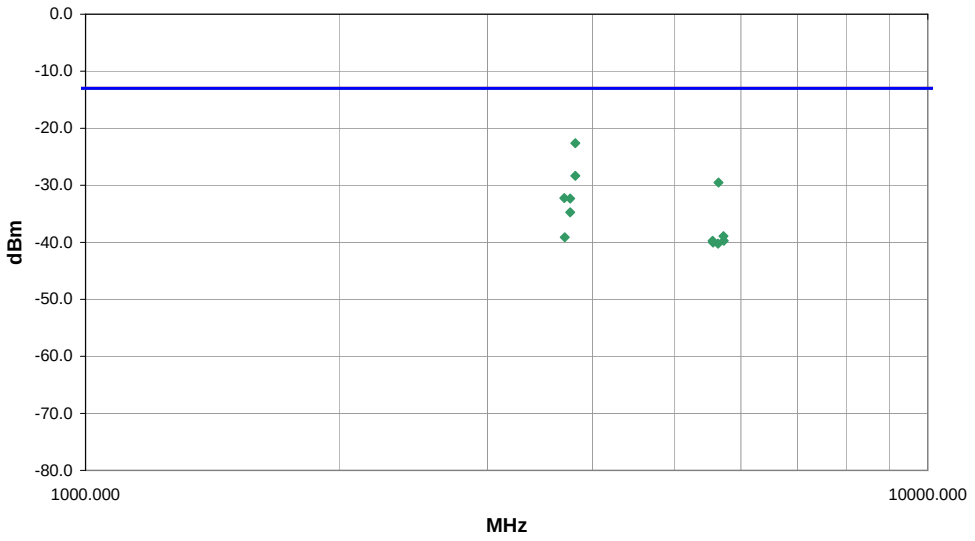
EUT OPERATING MODES

W-CDMA, packet data, PCS band

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	33		
Configuration #	2		
Results	Pass	NVLAP Lab Code 200630-0	*Signature*



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
3814.280			202.0	1.2			H-Horn	PK	5.46E-06	-22.6	-13.0	-9.6	High channel, antenna on side
3814.620			12.0	1.0			V-Horn	PK	1.47E-06	-28.3	-13.0	-15.3	High channel, antenna vertical
5642.720			131.0	1.0			V-Horn	PK	1.11E-06	-29.5	-13.0	-16.5	Mid channel, antenna vertical
3701.800			208.0	1.1			H-Horn	PK	5.99E-07	-32.2	-13.0	-19.2	Low channel, antenna on side
3761.880			156.0	1.2			V-Horn	PK	5.85E-07	-32.3	-13.0	-19.3	Mid channel, antenna vertical
3761.813			198.0	1.1			H-Horn	PK	3.37E-07	-34.7	-13.0	-21.7	Mid channel, antenna on side
5720.320			154.0	2.1			V-Horn	PK	1.28E-07	-38.9	-13.0	-25.9	High channel, antenna vertical
3706.320			153.0	1.0			V-Horn	PK	1.22E-07	-39.1	-13.0	-26.1	Low channel, antenna vertical
5552.480			163.0	1.0			V-Horn	PK	1.06E-07	-39.7	-13.0	-26.7	Low channel, antenna vertical
5724.920			180.0	1.1			H-Horn	PK	1.06E-07	-39.7	-13.0	-26.7	High channel, antenna on side
5559.220			129.0	1.2			H-Horn	PK	9.93E-08	-40.0	-13.0	-27.0	Low channel, antenna on side
5635.870			274.0	1.2			H-Horn	PK	9.49E-08	-40.2	-13.0	-27.2	Mid channel, antenna on side

NORTHWEST EMC

Out of Band Emissions

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/18/07
Customer:	Spectrum Technology, Inc.	Temperature:	22° C
Attendees:	None	Humidity:	32%
Project:	None	Barometric Pres.:	30.11
Tested by:	David Divergigelis	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook standalone

EUT OPERATING MODES

HSDPA, packet data, Cellular band, (Please see comment section for channel measured)

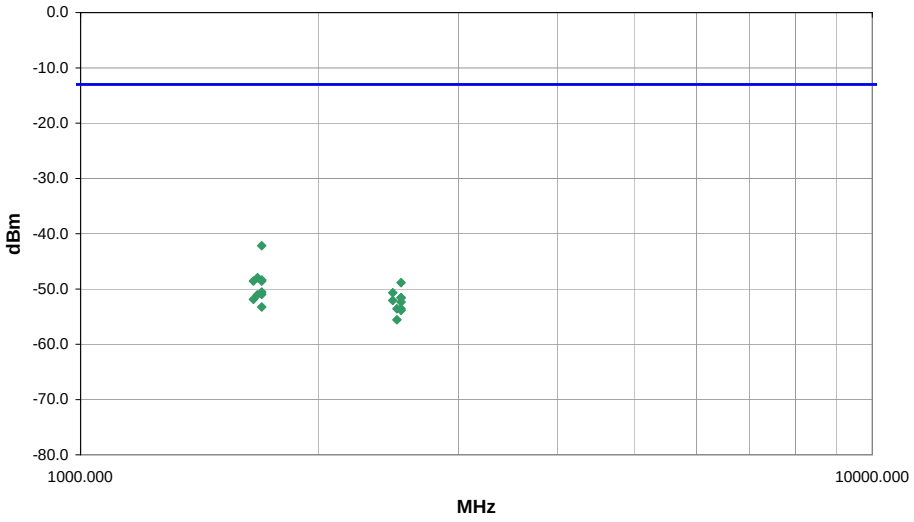
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	28
Configuration #	1
Results	Pass

NVLAP Lab Code 200630-0

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1693.603			141.0	1.0			H-Horn	PK	6.07E-08	-42.2	-13.0	-29.2	High channel, notebook typical position
1673.300			138.0	1.0			H-Horn	PK	1.60E-08	-48.0	-13.0	-35.0	Mid channel, notebook in typical position
1693.672			-1.0	1.5			V-Horn	PK	1.46E-08	-48.4	-13.0	-35.4	High channel, notebook screen horizontal
1653.235			139.0	1.0			H-Horn	PK	1.39E-08	-48.6	-13.0	-35.6	Low channel, notebook in typical position
1693.663			289.0	1.8			V-Horn	PK	1.39E-08	-48.6	-13.0	-35.6	High channel, notebook on side
2539.445			183.0	1.0			V-Horn	PK	1.30E-08	-48.9	-13.0	-35.9	High channel, notebook typical position
1693.667			359.0	1.9			H-Horn	PK	8.77E-09	-50.6	-13.0	-37.6	High channel, notebook on side
2479.168			58.0	1.0			H-Horn	PK	8.57E-09	-50.7	-13.0	-37.7	Low channel, notebook in typical position
1693.537			55.0	1.4			H-Horn	PK	8.00E-09	-51.0	-13.0	-38.0	High channel, notebook screen horizontal
1672.328			296.0	1.0			V-Horn	PK	7.82E-09	-51.1	-13.0	-38.1	Mid channel, notebook in typical position
2539.727			172.0	1.0			V-Horn	PK	6.97E-09	-51.6	-13.0	-38.6	High channel, notebook screen horizontal
2539.863			165.0	1.0			H-Horn	PK	6.97E-09	-51.6	-13.0	-38.6	High channel, notebook on side
1653.298			333.0	1.0			V-Horn	PK	6.50E-09	-51.9	-13.0	-38.9	Low channel, notebook in typical position
2479.477			154.0	1.0			V-Horn	PK	6.21E-09	-52.1	-13.0	-39.1	Low channel, notebook in typical position
2540.233			217.0	1.0			H-Horn	PK	5.80E-09	-52.4	-13.0	-39.4	High channel, notebook typical position
1693.683			0.0	1.9			V-Horn	PK	4.71E-09	-53.3	-13.0	-40.3	High channel, notebook typical position
2539.750			11.0	2.8			H-Horn	PK	4.40E-09	-53.6	-13.0	-40.6	High channel, notebook screen horizontal
2509.613			194.0	1.0			V-Horn	PK	4.40E-09	-53.6	-13.0	-40.6	Mid channel, notebook in typical position
2540.108			92.0	1.0			V-Horn	PK	4.10E-09	-53.9	-13.0	-40.9	High channel, notebook on side
2509.350			64.0	1.0			H-Horn	PK	2.77E-09	-55.6	-13.0	-42.6	Mid channel, notebook in typical position

NORTHWEST EMC

Out of Band Emissions

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605			Work Order:	SPTE0050
Serial Number:	None			Date:	04/18/07
Customer:	Spectrum Technology, Inc.			Temperature:	23
Attendees:	Rod Munro			Humidity:	32%
Project:	None			Barometric Pres.:	29.99
Tested by:	Rod Peloquin	Power:	13.8 VDC	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook in optional vehical mount configuration. External antenna.

EUT OPERATING MODES

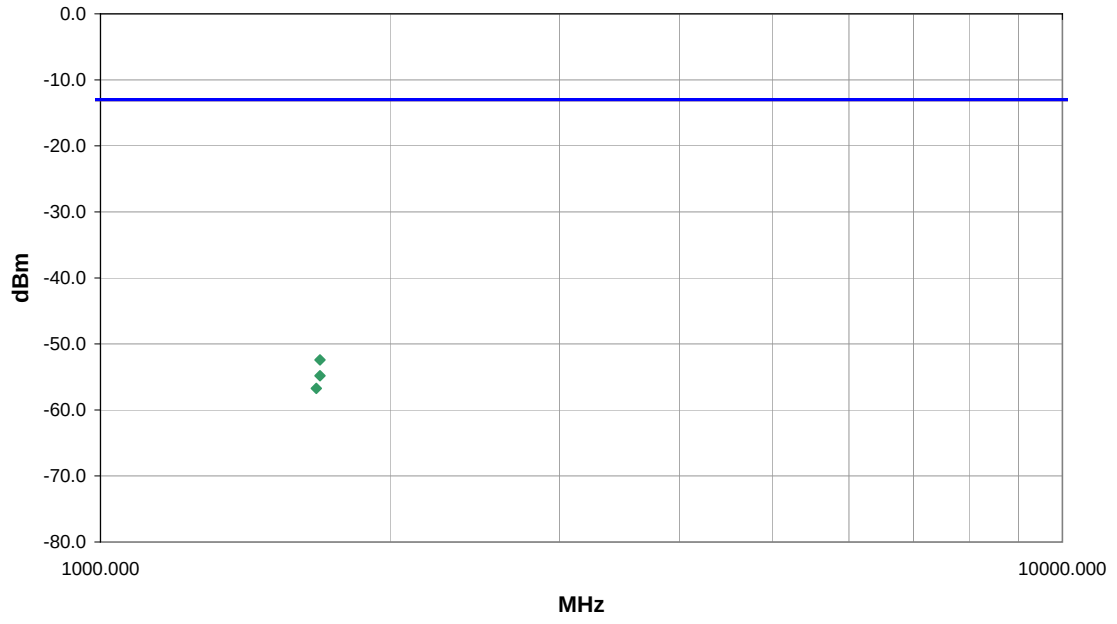
HSDPA, Packet Data, Cell band, see comments for channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	30
Configuration #	2
Results	Pass

NVLAP Lab Code 200630-0 *Signature*



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1690.978			354.0	1.5			V-Horn	PK	5.72E-09	-52.4	-13.0	-39.4	nel, antenr
1690.988			158.0	1.3			H-Horn	PK	3.29E-09	-54.8	-13.0	-41.8	nel, antenr
1676.344			198.0	1.0			H-Horn	PK	2.12E-09	-56.7	-13.0	-43.7	nel, antenn

NORTHWEST EMC

Out of Band Emissions

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/17/07
Customer:	Spectrum Technology, Inc.	Temperature:	22° C
Attendees:	None	Humidity:	32%
Project:	None	Barometric Pres.:	30.11
Tested by:	David Divergigelis	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook standalone

EUT OPERATING MODES

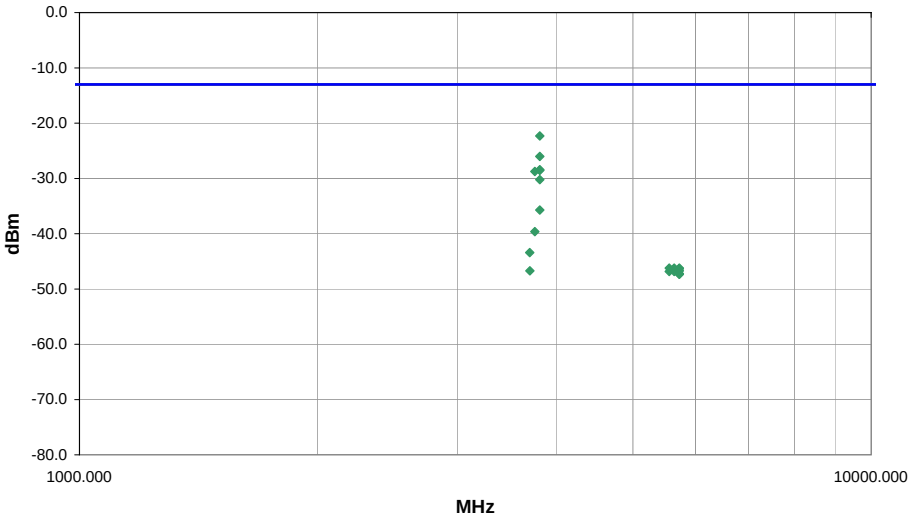
HSDPA, packet data, PCS band, (Please see comment section for channel measured)

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	28
Configuration #	1
Results	Pass

NVLAP Lab Code 200630-0 *Signature*



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
3814.915			142.0	1.0			H-Horn	PK	5.85E-06	-22.3	-13.0	-9.3	High channel, notebook on side
3814.762			259.0	1.0			H-Horn	PK	2.50E-06	-26.0	-13.0	-13.0	High channel, notebook in typical position
3814.870			317.0	1.0			V-Horn	PK	1.44E-06	-28.4	-13.0	-15.4	High channel, notebook screen horizontal
3814.798			44.0	1.0			H-Horn	PK	1.40E-06	-28.5	-13.0	-15.5	High channel, notebook screen horizontal
3760.188			151.0	1.0			H-Horn	PK	1.34E-06	-28.7	-13.0	-15.7	Mid channel, notebook on side
3814.758			137.0	1.0			V-Horn	PK	9.49E-07	-30.2	-13.0	-17.2	High channel, notebook in typical position
3814.842			272.0	1.0			V-Horn	PK	2.67E-07	-35.7	-13.0	-22.7	High channel, notebook on side
3760.490			41.0	1.0			V-Horn	PK	1.09E-07	-39.6	-13.0	-26.6	Mid channel, notebook on side
3705.227			124.0	1.0			H-Horn	PK	4.54E-08	-43.4	-13.0	-30.4	Low channel, notebook on side
5557.245			279.0	2.1			H-Horn	PK	2.38E-08	-46.2	-13.0	-33.2	Low channel, notebook screen horizontal
5640.403			173.0	2.9			H-Horn	PK	2.38E-08	-46.2	-13.0	-33.2	Mid channel, notebook on side
5722.613			89.0	1.0			H-Horn	PK	2.38E-08	-46.2	-13.0	-33.2	High channel, notebook screen horizontal
5722.870			307.0	2.6			V-Horn	PK	2.33E-08	-46.3	-13.0	-33.3	High channel, notebook screen horizontal
3705.282			36.0	1.0			V-Horn	PK	2.12E-08	-46.7	-13.0	-33.7	Low channel, notebook on side
5722.413			254.0	1.0			V-Horn	PK	2.12E-08	-46.7	-13.0	-33.7	High channel, notebook in typical position
5557.323			199.0	2.5			V-Horn	PK	2.08E-08	-46.8	-13.0	-33.8	Low channel, notebook in typical position
5640.275			313.0	3.4			V-Horn	PK	2.08E-08	-46.8	-13.0	-33.8	Mid channel, notebook on side
5722.705			246.0	1.0			H-Horn	PK	1.89E-08	-47.2	-13.0	-34.2	High channel, notebook in typical position
5722.422			87.0	1.0			H-Horn	PK	1.85E-08	-47.3	-13.0	-34.3	High channel, notebook on side
5723.185			173.0	2.1			V-Horn	PK	1.85E-08	-47.3	-13.0	-34.3	High channel, notebook on side

NORTHWEST EMC

Out of Band Emissions

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/18/07
Customer:	Spectrum Technology, Inc.	Temperature:	23
Attendees:	Rod Munro	Humidity:	32%
Project:	None	Barometric Pres.:	29.99
Tested by:	Rod Peloquin	Power: 13.8 VDC	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook in optional vehical mount configuration. External antenna.

EUT OPERATING MODES

HSDPA, Packet Data, PCS band

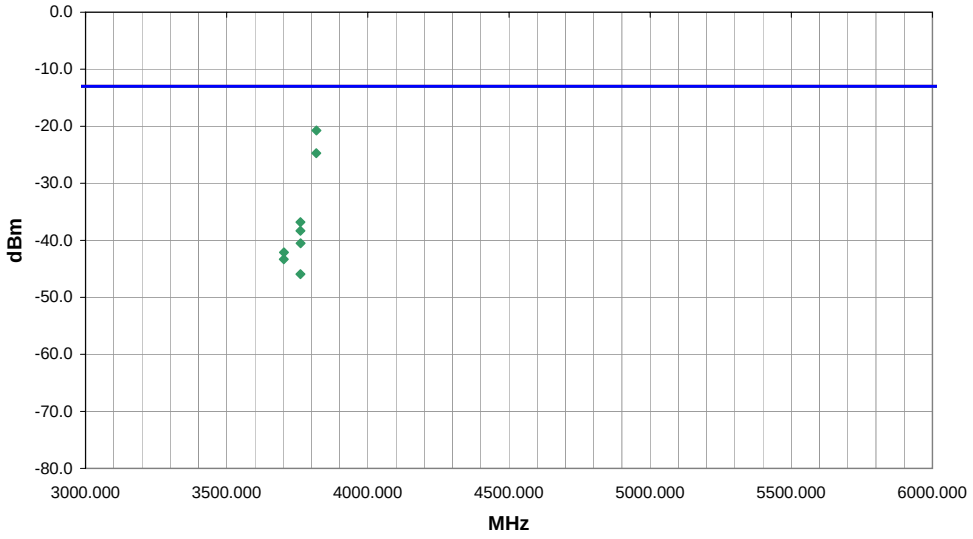
DEVIATIONS FROM TEST STANDARD

No deviations.

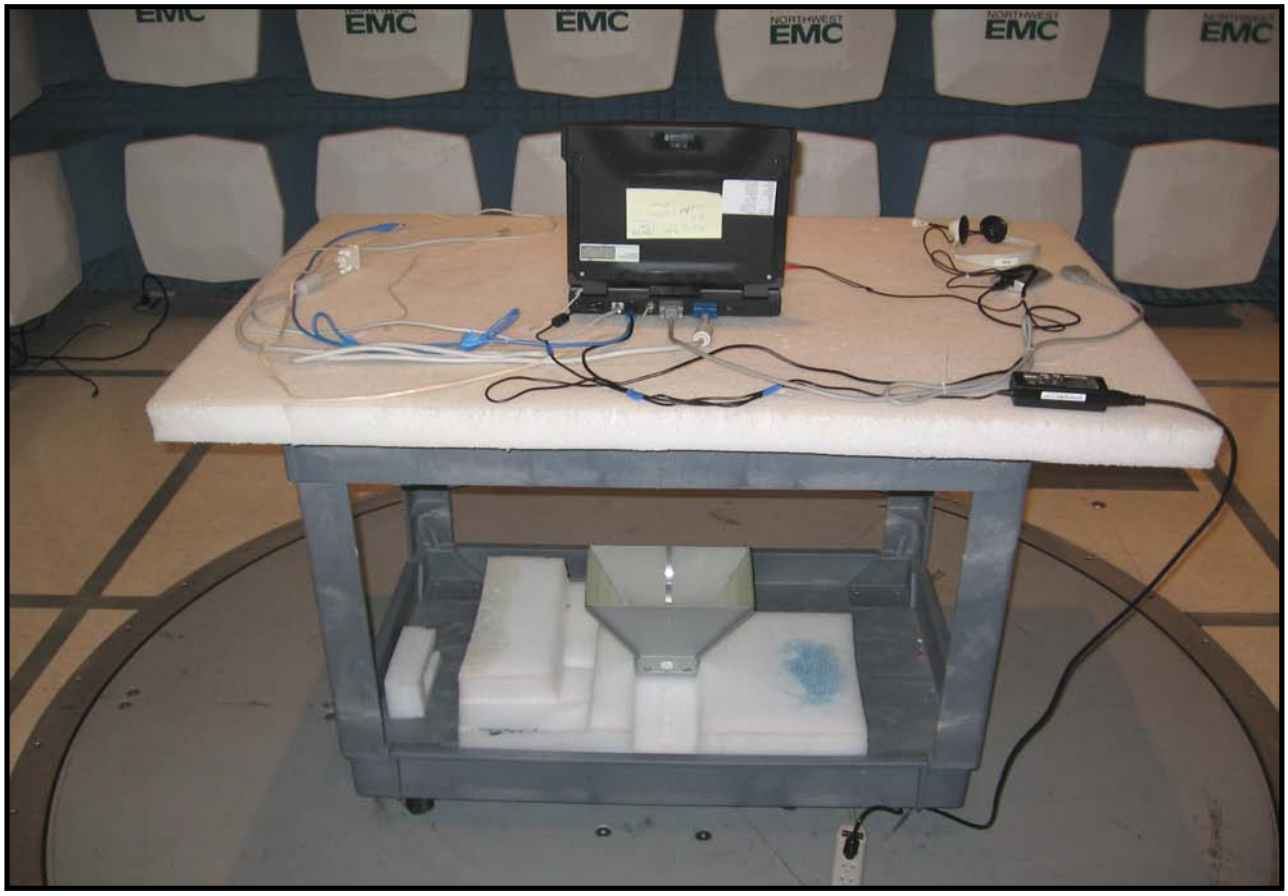
Run #	29
Configuration #	2
Results	Pass

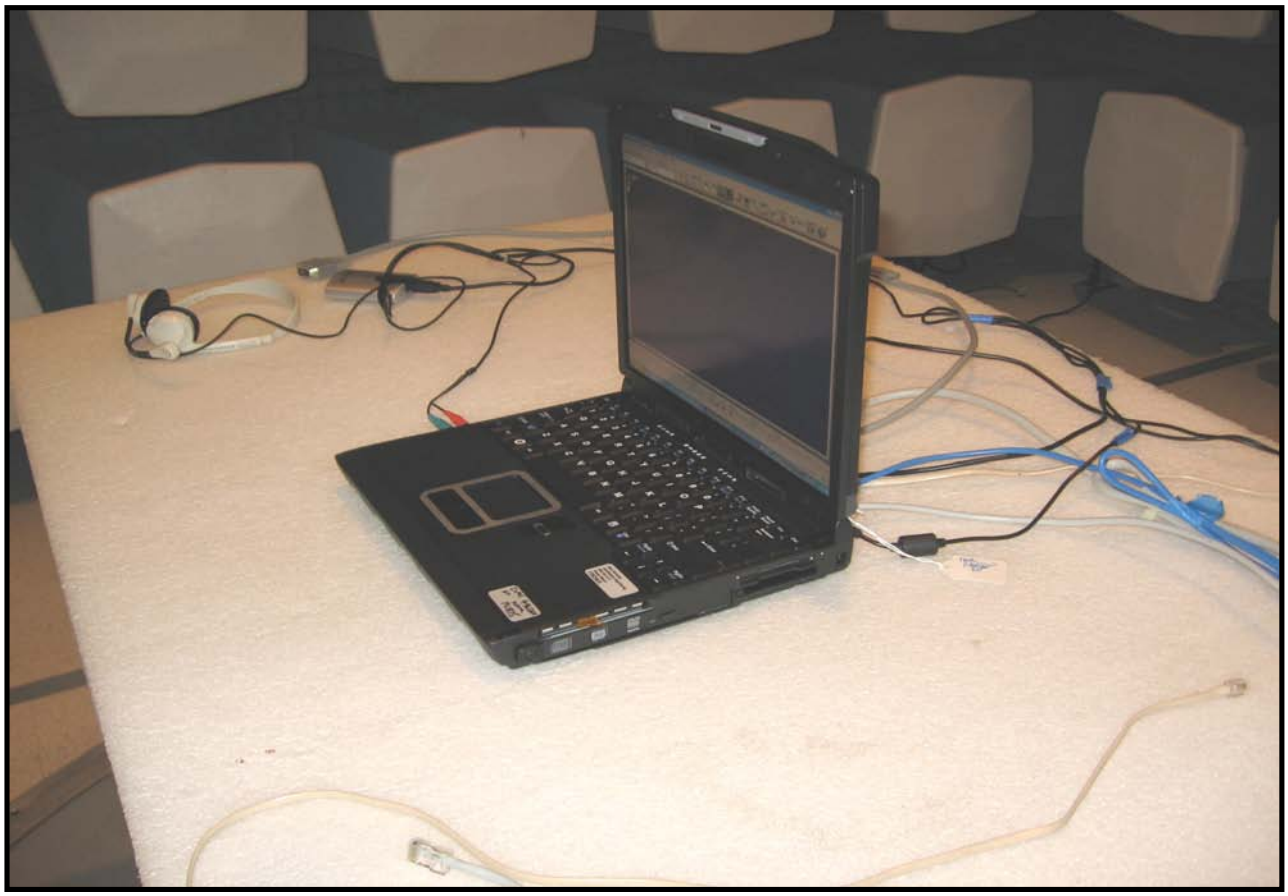
NVLAP Lab Code 200630-0

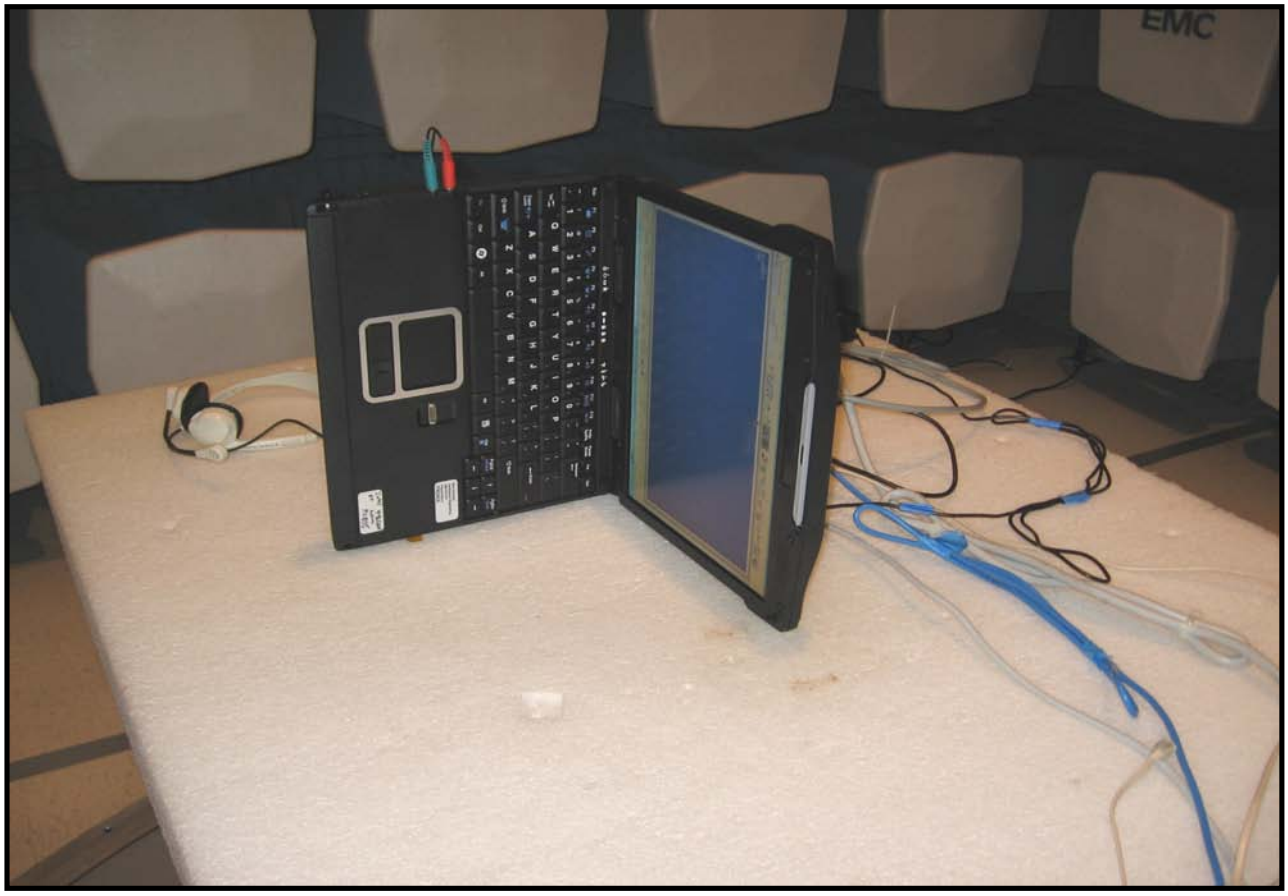
Signature



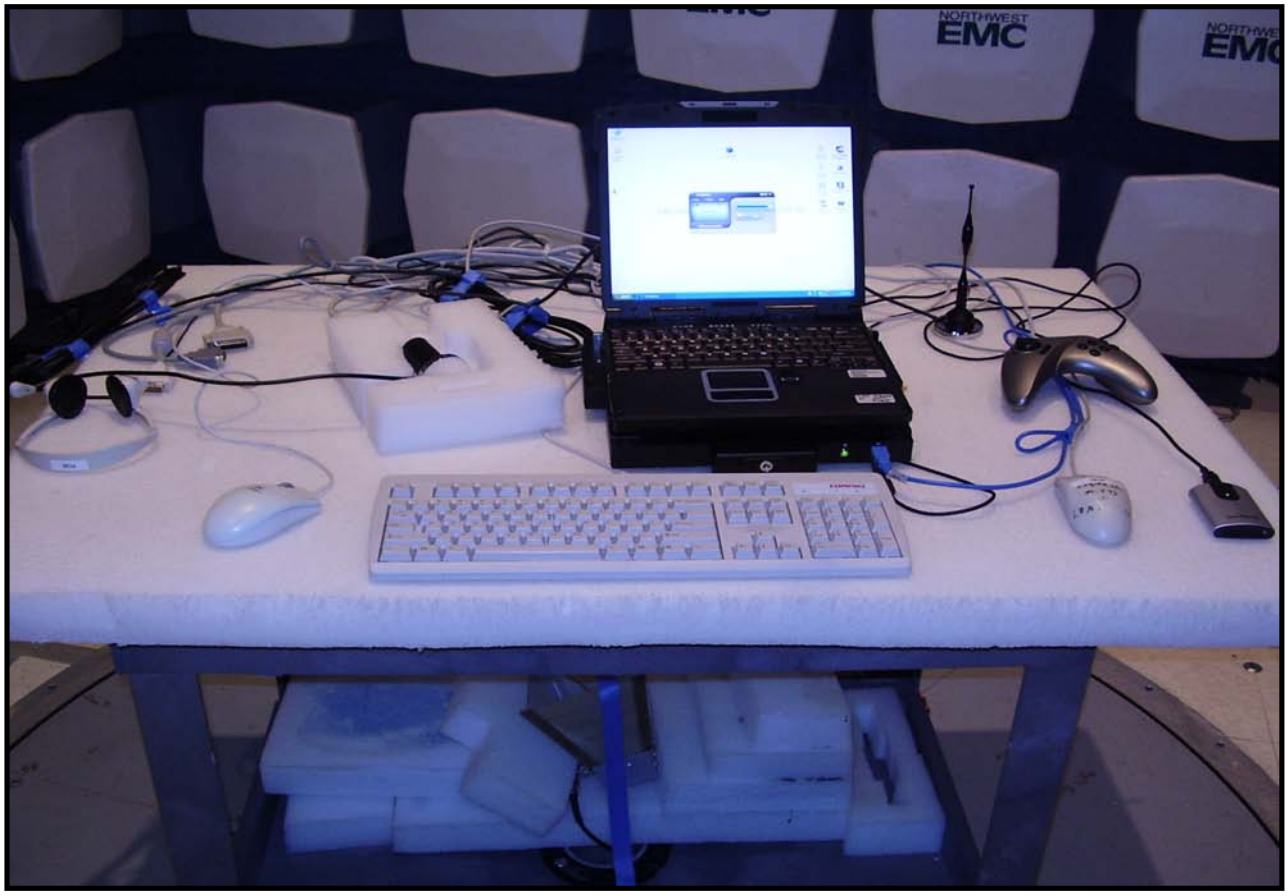
Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
3817.610			237.0	1.2			H-Horn	PK	8.46E-06	-20.7	-13.0	-7.7	High channel, antenna on side
3817.380			210.0	1.1			V-Horn	PK	3.37E-06	-24.7	-13.0	-11.7	High channel, antenna vertical
3760.920			249.0	1.2			H-Horn	PK	2.08E-07	-36.8	-13.0	-23.8	Mid channel, antenna on side
3761.410			186.0	1.0			V-Horn	PK	1.47E-07	-38.3	-13.0	-25.3	Mid channel, antenna vertical
3761.490			151.0	1.1			V-Horn	PK	8.85E-08	-40.5	-13.0	-27.5	Mid channel, antenna on side
3702.720			234.0	1.2			H-Horn	PK	6.13E-08	-42.1	-13.0	-29.1	Low channel, antenna on side
3702.050			157.0	1.0			V-Horn	PK	4.65E-08	-43.3	-13.0	-30.3	Low channel, antenna vertical
3761.330			223.0	1.2			H-Horn	PK	2.55E-08	-45.9	-13.0	-32.9	Mid channel, antenna vertical






EMC


NORTHWEST
EMC


NORTHWEST
EMC

Effective Isotropic Radiated Power

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

OPERATING BANDS
PCS

MODES OF OPERATION
GPRS
EDGE
WCDMA
HSDPA

CHANNELS INVESTIGATED FOR GPRS AND EDGE
Low channel, Ch. 512, 1850.2MHz
Mid channel, Ch. 661, 1880MHz
High channel, Ch. 810, 1909.8MHz

CHANNELS INVESTIGATED FOR WCDMA AND HSDPA
Low channel, Ch. 9262, 1852.4MHz
Mid channel, Ch. 9400, 1880MHz
High channel, Ch. 9538, 1907.6MHz

CONFIGURATIONS INVESTIGATED
Notebook configuration, internal antenna
Optional vehicle mount configuration, external antenna

POWER SETTINGS INVESTIGATED
120VAC/60Hz

FREQUENCY RANGE INVESTIGATED			
Start Frequency	1850.2MHz	Stop Frequency	1909.8MHz

SAMPLE CALCULATIONS
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
EV01 cables g,h,j			EVB	12/29/2006	13
Antenna, Horn	EMCO	3115	AHJ	5/20/2005	24
Antenna, Horn	EMCO	3115	AHC	8/24/2006	12
Signal Generator	Hewlett-Packard	8648D	TGC	12/7/2006	13
Power Meter	Gigatronics	8651A	SPM	9/19/2006	12
Power Sensor	Gigatronics	80701A	SPL	9/19/2006	12
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2006	13

MEASUREMENT BANDWIDTHS				
	Frequency Range (MHz)	**Peak Data (kHz)**	**Quasi-Peak Data (kHz)**	**Average Data (kHz)**
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0
Measurements were made using the bandwidths and detectors specified. No video filter was used.				

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and/or receiving while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003).

The amplitude and frequency of the highest emissions were noted. The EUT was then replaced with a horn antenna. A signal generator was connected to the horn antenna and its output was adjusted to match the level previously noted for each frequency. The output of the signal generator was recorded, and by factoring in the cable loss to the horn antenna and its gain (dBi); the effective isotropic radiated power for each fundamental emission was determined.

NORTHWEST EMC

Effective Radiated Power (EIRP)

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/09/07
Customer:	Spectrum Technology, Inc.	Temperature:	23
Attendees:	Rod Munro	Humidity:	47%
Project:	None	Barometric Pres.:	29.98
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Internal antenna. Notebook standalone configuration.

EUT OPERATING MODES

GSM PCS band, see comments for channel

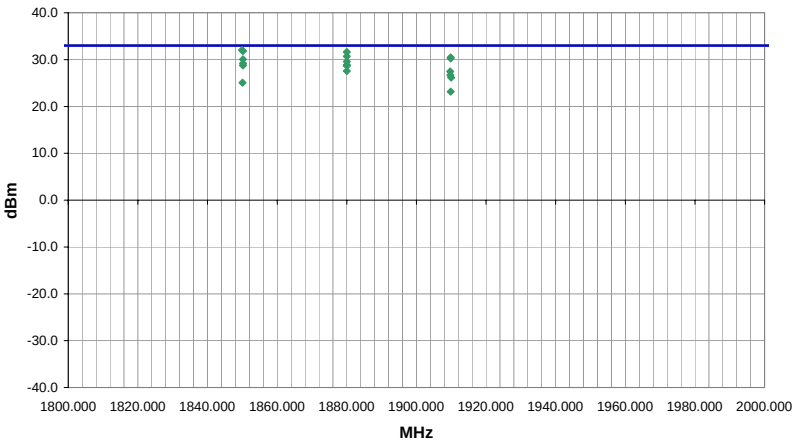
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	2
Configuration #	1
Results	Pass

NVLAP Lab Code 200630-0

Signature Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1849.890			360.0	1.7			V-Horn	PK	1.59E+00	32.0	33.0	-1.0	Packet Switched (GPRS), Low channel, Notebook screen horizontal
1850.200			39.0	1.0			H-Horn	PK	1.53E+00	31.9	33.0	-1.1	Packet Switched (GPRS), Low channel, Notebook on side
1880.000			11.0	1.0			H-Horn	PK	1.45E+00	31.6	33.0	-1.4	Packet Switched (GPRS), Mid channel, Notebook on side
1880.000			55.0	1.4			H-Horn	PK	1.18E+00	30.7	33.0	-2.3	Packet Switched (GPRS), Mid channel, Notebook screen horizontal
1909.830			21.0	1.0			H-Horn	PK	1.11E+00	30.5	33.0	-2.5	Packet Switched (GPRS), High channel, Notebook on side
1909.840			18.0	1.0			H-Horn	PK	1.06E+00	30.3	33.0	-2.7	Packet Switched (GPRS), High channel, Notebook typical position
1850.200			26.0	1.0			V-Horn	PK	1.02E+00	30.1	33.0	-2.9	Packet Switched (GPRS), Low channel, Notebook on side
1880.000			57.0	1.0			V-Horn	PK	9.06E-01	29.6	33.0	-3.4	Packet Switched (GPRS), Mid channel, Notebook typical position
1850.200			288.0	1.0			V-Horn	PK	8.26E-01	29.2	33.0	-3.8	Packet Switched (GPRS), Low channel, Notebook typical position
1880.000			278.0	1.0			V-Horn	PK	7.71E-01	28.9	33.0	-4.1	Packet Switched (GPRS), Mid channel, Notebook on side
1850.200			8.0	1.0			H-Horn	PK	7.54E-01	28.8	33.0	-4.2	Packet Switched (GPRS), Low channel, Notebook typical position
1880.000			360.0	1.1			V-Horn	PK	7.36E-01	28.7	33.0	-4.3	Packet Switched (GPRS), Mid channel, Notebook screen horizontal
1880.000			326.0	1.0			H-Horn	PK	5.72E-01	27.6	33.0	-5.4	Packet Switched (GPRS), Mid channel, Notebook typical position
1909.705			360.0	1.7			V-Horn	PK	5.59E-01	27.5	33.0	-5.5	Packet Switched (GPRS), High channel, Notebook screen horizontal
1909.760			300.0	1.0			V-Horn	PK	4.65E-01	26.7	33.0	-6.3	Packet Switched (GPRS), High channel, Notebook on side
1909.960			300.0	1.0			V-Horn	PK	4.14E-01	26.2	33.0	-6.8	Packet Switched (GPRS), High channel, Notebook typical position
1850.050			45.0	1.0			H-Horn	PK	3.21E-01	25.1	33.0	-7.9	Packet Switched (GPRS), Low channel, Notebook screen horizontal
1909.815			41.0	1.0			H-Horn	PK	2.08E-01	23.2	33.0	-9.8	Packet Switched (GPRS), High channel, Notebook screen horizontal

NORTHWEST EMC

Effective Radiated Power (EIRP)

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/11/07
Customer:	Spectrum Technology, Inc.	Temperature:	23
Attendees:	Rod Munro	Humidity:	33%
Project:	None	Barometric Pres.:	29.98
Tested by:	Holly Ashkannejhad	Power: 13.8 VDC	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook in optional vehicular configuration. External antenna.

EUT OPERATING MODES

GPRS, PCS band, see comments for channel

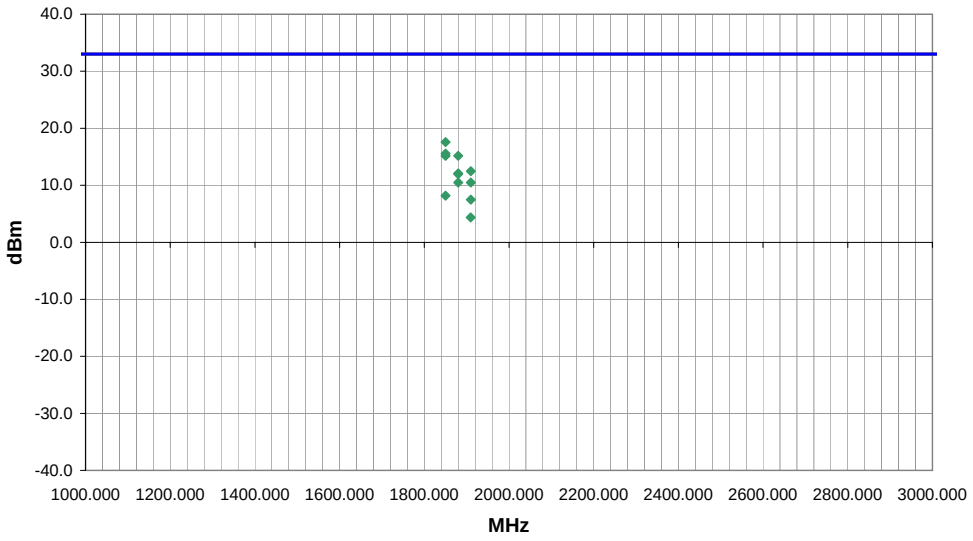
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	14
Configuration #	2
Results	Pass

NVLAP Lab Code 200630-0

Signature Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1850.060			0.0	1.0			V-Horn	PK	5.72E-02	17.6	33.0	-15.4	Low channel, antenna vertical
1850.200			353.0	1.4			V-Horn	PK	3.61E-02	15.6	33.0	-17.4	Low channel, antenna on side
1850.200			265.0	1.0			H-Horn	PK	3.29E-02	15.2	33.0	-17.8	Low channel, antenna on side
1880.120			346.0	1.3			V-Horn	PK	3.29E-02	15.2	33.0	-17.8	Mid channel, antenna vertical
1909.875			360.0	1.0			V-Horn	PK	1.77E-02	12.5	33.0	-20.5	High channel, antenna vertical
1880.000			340.0	1.0			V-Horn	PK	1.61E-02	12.1	33.0	-20.9	Mid channel, antenna on side
1880.000			344.0	1.0			V-Horn	PK	1.57E-02	12.0	33.0	-21.0	Mid channel, antenna on side
1880.080			272.0	1.0			V-Horn	PK	1.11E-02	10.5	33.0	-22.5	Mid channel, antenna vertical
1909.900			246.0	1.0			H-Horn	PK	1.11E-02	10.5	33.0	-22.5	High channel, antenna on side
1850.085			31.0	1.0			H-Horn	PK	6.56E-03	8.2	33.0	-24.8	Low channel, antenna vertical
1909.845			251.0	1.0			V-Horn	PK	5.59E-03	7.5	33.0	-25.5	High channel, antenna on side
1909.655			112.0	1.0			H-Horn	PK	2.74E-03	4.4	33.0	-28.6	High channel, antenna vertical

NORTHWEST EMC

Effective Radiated Power (EIRP)

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/09/07
Customer:	Spectrum Technology, Inc.	Temperature:	21
Attendees:	Rod Munro	Humidity:	33%
Project:	None	Barometric Pres.:	29.98
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Internal antenna. Notebook standalone configuration.

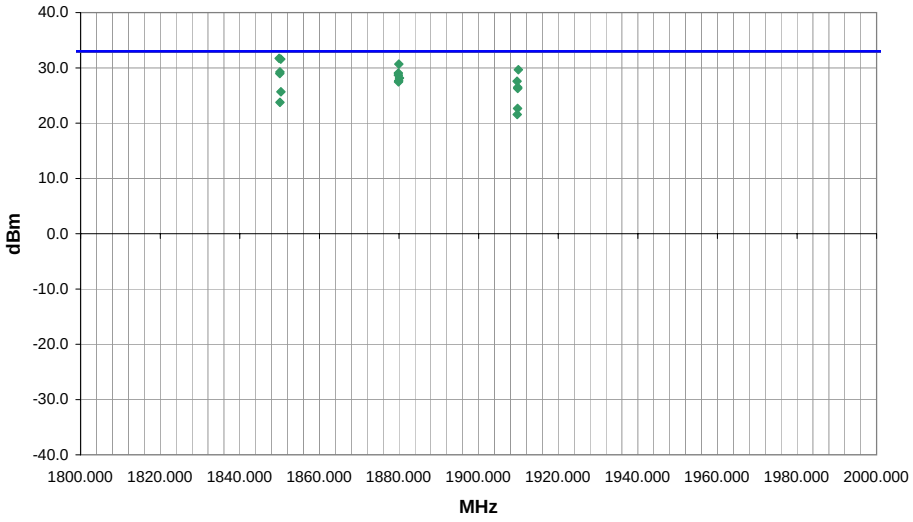
EUT OPERATING MODES

EGPRS, Packet Data, PCS band, see comments for channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	3		
Configuration #	1		
Results	Pass	NVLAP Lab Code 200630-0	Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1849.905			39.0	1.0			H-Horn	PK	1.48E+00	31.7	33.0	-1.3	Mid channel, notebook on side
1850.280			209.0	1.1			H-Horn	PK	1.44E+00	31.6	33.0	-1.4	Mid channel, notebook typical position
1879.940			35.0	1.0			H-Horn	PK	1.17E+00	30.7	33.0	-2.3	Mid channel, Notebook on side
1910.000			360.0	1.0			H-Horn	PK	9.27E-01	29.7	33.0	-3.3	High channel, notebook on side
1850.075			296.0	1.0			V-Horn	PK	8.46E-01	29.3	33.0	-3.7	Mid channel, notebook typical position
1879.845			350.0	1.0			V-Horn	PK	8.07E-01	29.1	33.0	-3.9	Mid channel, typical position
1850.070			328.0	1.0			V-Horn	PK	7.89E-01	29.0	33.0	-4.0	Mid channel, notebook on side
1879.825			301.0	1.0			V-Horn	PK	7.36E-01	28.7	33.0	-4.3	Mid channel, notebook screen horizontal
1880.120			17.0	1.0			V-Horn	PK	6.56E-01	28.2	33.0	-4.8	Mid channel, Notebook on side
1879.905			327.0	1.0			H-Horn	PK	5.85E-01	27.7	33.0	-5.3	Mid channel, typical position
1909.660			-1.0	1.7			V-Horn	PK	5.72E-01	27.6	33.0	-5.4	High channel, notebook typical position
1879.875			327.0	1.0			H-Horn	PK	5.59E-01	27.5	33.0	-5.5	Mid channel, notebook screen horizontal
1909.815			284.0	1.0			V-Horn	PK	4.44E-01	26.5	33.0	-6.5	High channel, notebook on side
1909.825			109.0	1.0			H-Horn	PK	4.24E-01	26.3	33.0	-6.7	High channel, notebook typical position
1850.315			27.0	1.0			V-Horn	PK	3.69E-01	25.7	33.0	-7.3	Mid channel, notebook screen horizontal
1850.105			359.0	1.2			H-Horn	PK	2.38E-01	23.8	33.0	-9.2	Mid channel, notebook screen horizontal
1909.790			223.0	1.0			V-Horn	PK	1.85E-01	22.7	33.0	-10.3	High channel, notebook screen horizontal
1909.720			45.0	1.0			H-Horn	PK	1.44E-01	21.6	33.0	-11.4	High channel, notebook screen horizontal

NORTHWEST EMC

Effective Radiated Power (EIRP)

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/11/07
Customer:	Spectrum Technology, Inc.	Temperature:	23
Attendees:	Rod Munro	Humidity:	33%
Project:	None	Barometric Pres.:	29.98
Tested by:	Holly Ashkannejhad	Power: 13.8 VDC	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook in optional vehicular configuration. External antenna.

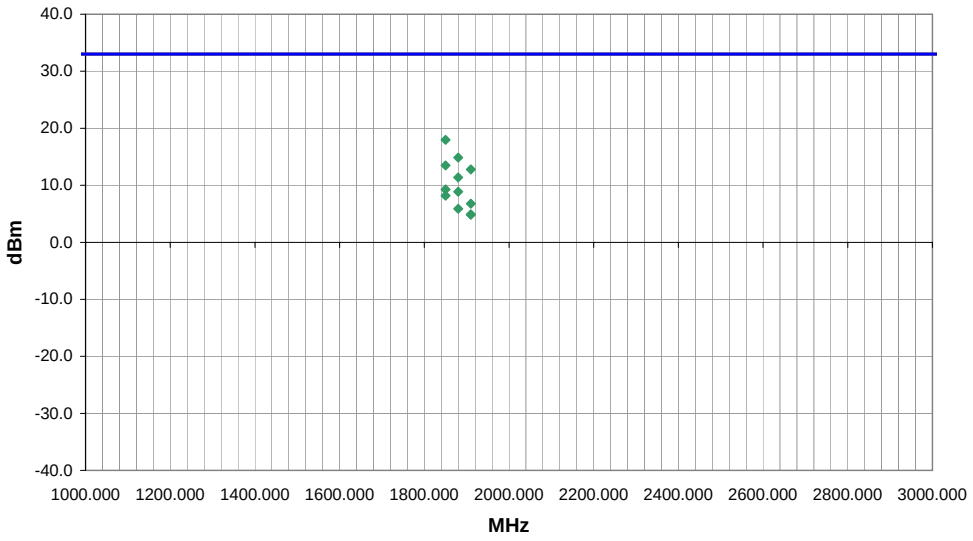
EUT OPERATING MODES

Edge, PCS band, see comments for channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	15		
Configuration #	2		
Results	Pass	NVLAP Lab Code 200630-0	Signature Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1850.160			-1.0	1.4			V-Horn	PK	6.27E-02	18.0	33.0	-15.0	Low channel, antenna vertical
1879.985			344.0	1.3			V-Horn	PK	3.07E-02	14.9	33.0	-18.1	Mid channel, antenna vertical
1850.090			7.0	1.4			V-Horn	PK	2.22E-02	13.5	33.0	-19.5	Low channel, antenna on side
1909.705			360.0	1.0			V-Horn	PK	1.89E-02	12.8	33.0	-20.2	High channel, antenna vertical
1879.915			-1.0	1.3			V-Horn	PK	1.37E-02	11.4	33.0	-21.6	Mid channel, antenna on side
1850.250			187.0	1.0			H-Horn	PK	8.46E-03	9.3	33.0	-23.7	Low channel, antenna on side
1880.000			125.0	1.0			H-Horn	PK	7.71E-03	8.9	33.0	-24.1	Mid channel, antenna on side
1850.170			27.0	1.0			H-Horn	PK	6.56E-03	8.2	33.0	-24.8	Low channel, antenna vertical
1909.695			251.0	1.0			H-Horn	PK	4.75E-03	6.8	33.0	-26.2	High channel, antenna on side
1880.040			-1.0	1.3			V-Horn	PK	3.86E-03	5.9	33.0	-27.1	Mid channel, antenna vertical
1909.720			112.0	1.0			H-Horn	PK	3.07E-03	4.9	33.0	-28.1	High channel, antenna vertical
1909.850			-1.0	1.3			V-Horn	PK	3.07E-03	4.9	33.0	-28.1	High channel, antenna on side

NORTHWEST EMC

Effective Radiated Power (EIRP)

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/19/07
Customer:	Spectrum Technology, Inc.	Temperature:	22° C
Attendees:	None	Humidity:	32%
Project:	None	Barometric Pres.:	30.11
Tested by:	David Divergigelis	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook standalone

EUT OPERATING MODES

WCDMA, PCS, see comments for channel.

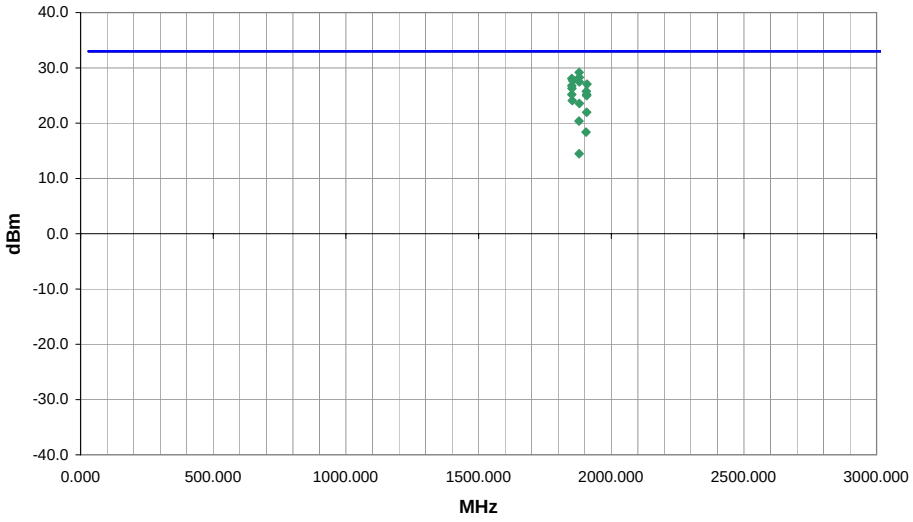
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	40
Configuration #	1
Results	Pass

NVLAP Lab Code 200630-0

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1878.940			216.0	1.2			H-Horn	PK	8.26E-01	29.2	33.0	-3.8	Mid channel, notebook typical position
1879.360			53.0	1.5			H-Horn	PK	6.72E-01	28.3	33.0	-4.7	Mid channel, notebook creen horizontal
1851.540			62.0	1.0			H-Horn	PK	6.41E-01	28.1	33.0	-4.9	Low channel, notebook on side
1854.720			337.0	1.0			V-Horn	PK	5.85E-01	27.7	33.0	-5.3	Low channel, notebook on side
1879.540			360.0	1.2			H-Horn	PK	5.59E-01	27.5	33.0	-5.5	Mid channel, notebook on side
1908.660			59.0	1.0			H-Horn	PK	5.09E-01	27.1	33.0	-5.9	High channel, notebook on side
1851.320			296.0	1.0			V-Horn	PK	4.75E-01	26.8	33.0	-6.2	Low channel, notebook typical position
1852.000			208.0	1.0			H-Horn	PK	4.24E-01	26.3	33.0	-6.7	Low channel, notebook typical position
1906.020			303.0	1.0			V-Horn	PK	3.78E-01	25.8	33.0	-7.2	High channel, notebook typical position
1851.340			297.0	1.0			H-Horn	PK	3.29E-01	25.2	33.0	-7.8	Low channel, notebook screen horizontal
1907.320			323.0	1.0			V-Horn	PK	3.29E-01	25.2	33.0	-7.8	High channel, notebook on side
1907.340			235.0	1.0			V-Horn	PK	3.14E-01	25.0	33.0	-8.0	High channel, notebook on side
1853.220			163.0	1.0			V-Horn	PK	2.55E-01	24.1	33.0	-8.9	Low channel, notebook screen horizontal
1879.560			308.0	1.2			V-Horn	PK	2.28E-01	23.6	33.0	-9.4	Mid channel, notebook typical position
1907.500			107.0	1.0			H-Horn	PK	1.57E-01	22.0	33.0	-11.0	High channel, notebook typical position
1878.120			210.0	1.2			V-Horn	PK	1.09E-01	20.4	33.0	-12.6	Mid channel, notebook on side
1905.180			65.0	1.0			H-Horn	PK	6.87E-02	18.4	33.0	-14.6	High channel, notebook screen horizontal
1879.160			215.0	1.2			V-Horn	PK	2.80E-02	14.5	33.0	-18.5	Mid channel, notebook creen horizontal

NORTHWEST EMC

Effective Radiated Power (EIRP)

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/19/07
Customer:	Spectrum Technology, Inc.	Temperature:	22° C
Attendees:	Rod Munro	Humidity:	32%
Project:	None	Barometric Pres.:	30.11
Tested by:	David Divergigelis	Power: 13.8 VDC	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Optional vehicular configuration with external attenuation

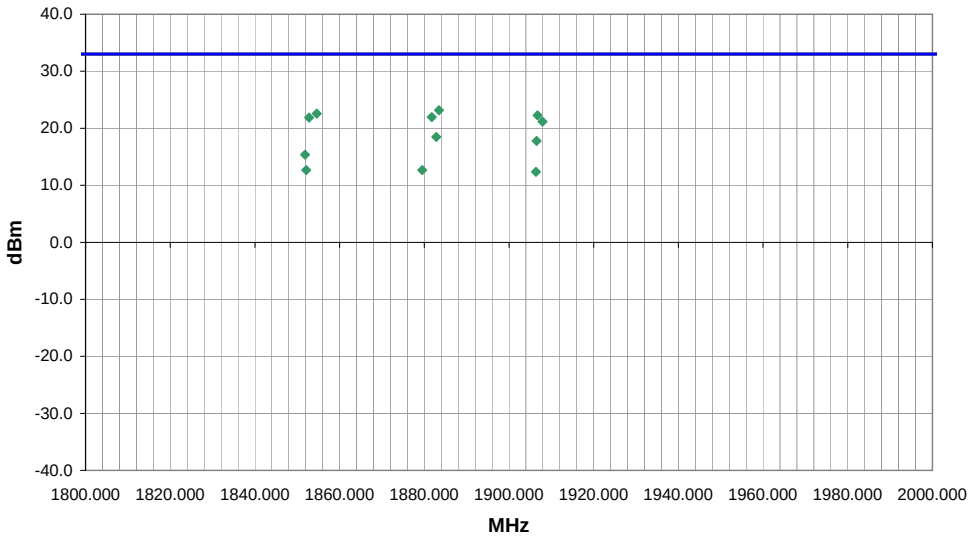
EUT OPERATING MODES

WCDMA, PCS, see comments for channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	37		
Configuration #	2		
Results	Pass	NVLAP Lab Code 200630-0	*Signature*



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1883.480			26.0	1.0			V-Horn	PK	2.08E-01	23.2	33.0	-9.8	Mid channel, antenna vertical
1854.600			34.0	1.0			V-Horn	PK	1.81E-01	22.6	33.0	-10.4	Low channel, antenna vertical
1906.760			22.0	1.0			V-Horn	PK	1.69E-01	22.3	33.0	-10.7	High channel, antenna vertical
1881.760			297.0	1.0			H-Horn	PK	1.57E-01	22.0	33.0	-11.0	Mid channel, antenna on side
1852.780			301.0	1.0			H-Horn	PK	1.54E-01	21.9	33.0	-11.1	Low channel, antenna on side
1907.920			267.0	1.0			H-Horn	PK	1.31E-01	21.2	33.0	-11.8	High channel, antenna on side
1882.840			160.0	1.0			V-Horn	PK	7.03E-02	18.5	33.0	-14.5	Mid channel, antenna on side
1906.520			167.0	1.0			V-Horn	PK	5.99E-02	17.8	33.0	-15.2	High channel, antenna on side
1851.860			20.0	1.0			V-Horn	PK	3.44E-02	15.4	33.0	-17.6	Low channel, antenna on side
1852.120			207.0	1.0			H-Horn	PK	1.85E-02	12.7	33.0	-20.3	Low channel, antenna vertical
1879.500			324.0	1.0			H-Horn	PK	1.85E-02	12.7	33.0	-20.3	Mid channel, antenna vertical
1906.360			325.0	1.0			H-Horn	PK	1.73E-02	12.4	33.0	-20.6	High channel, antenna vertical

NORTHWEST EMC

Effective Radiated Power (EIRP)

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/17/07
Customer:	Spectrum Technology, Inc.	Temperature:	22° C
Attendees:	Rod Munro	Humidity:	32%
Project:	None	Barometric Pres.:	30.11
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook standalone

EUT OPERATING MODES

HSDPA, packet data, PCS band, see comments for channel.

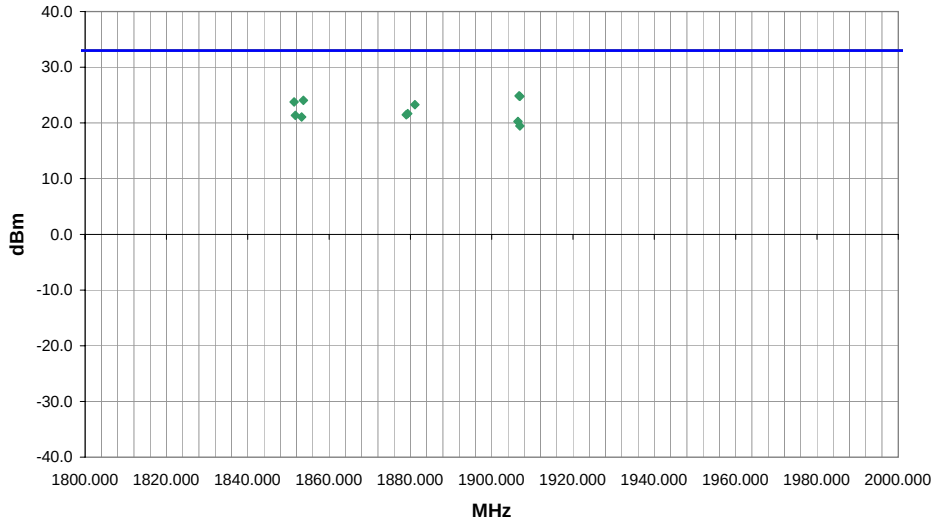
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	26
Configuration #	1
Results	Pass

NVLAP Lab Code 200630-0

Signature Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1906.742			221.0	1.0			H-Horn	PK	3.07E-01	24.9	33.0	-8.1	High channel, Notebook typical position
1906.925			53.0	1.0			H-Horn	PK	3.00E-01	24.8	33.0	-8.2	High channel, Notebook on side
1853.667			16.0	1.0			V-Horn	PK	2.55E-01	24.1	33.0	-8.9	Low channel, Notebook typical position
1851.380			204.0	1.3			H-Horn	PK	2.38E-01	23.8	33.0	-9.2	Low channel, Notebook on side
1881.100			196.0	1.2			H-Horn	PK	2.12E-01	23.3	33.0	-9.7	Mid channel, Notebook on side
1879.350			7.0	1.0			V-Horn	PK	1.47E-01	21.7	33.0	-11.3	Mid channel, Notebook on side
1878.992			13.0	1.0			V-Horn	PK	1.40E-01	21.5	33.0	-11.5	Mid channel, Notebook typical position
1851.730			189.0	1.0			V-Horn	PK	1.37E-01	21.4	33.0	-11.6	Low channel, Notebook on side
1853.242			270.0	1.3			H-Horn	PK	1.28E-01	21.1	33.0	-11.9	Low channel, Notebook typical position
1906.458			28.0	1.0			V-Horn	PK	1.06E-01	20.3	33.0	-12.7	High channel, Notebook typical position
1906.930			186.0	1.0			V-Horn	PK	8.85E-02	19.5	33.0	-13.5	High channel, Notebook on side

NORTHWEST EMC

Effective Radiated Power (EIRP)

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/19/07
Customer:	Spectrum Technology, Inc.	Temperature:	22° C
Attendees:	Rod Munro	Humidity:	32%
Project:	None	Barometric Pres.:	30.11
Tested by:	Holly Ashkannejhad	Power: 13.8 VDC	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Optional vehicular configuration with external antenna.

EUT OPERATING MODES

HSDPA, packet data, PCS band, see comments for channel.

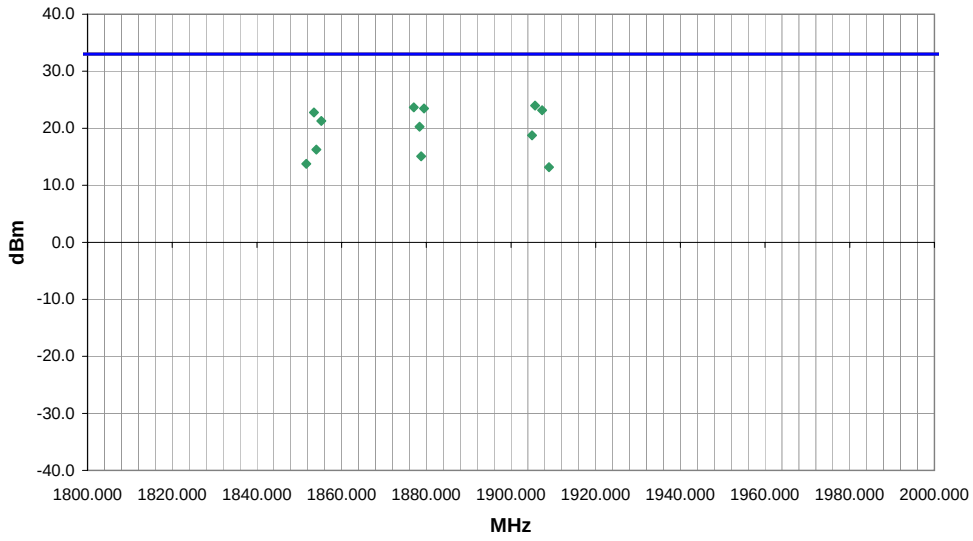
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	36
Configuration #	2
Results	Pass

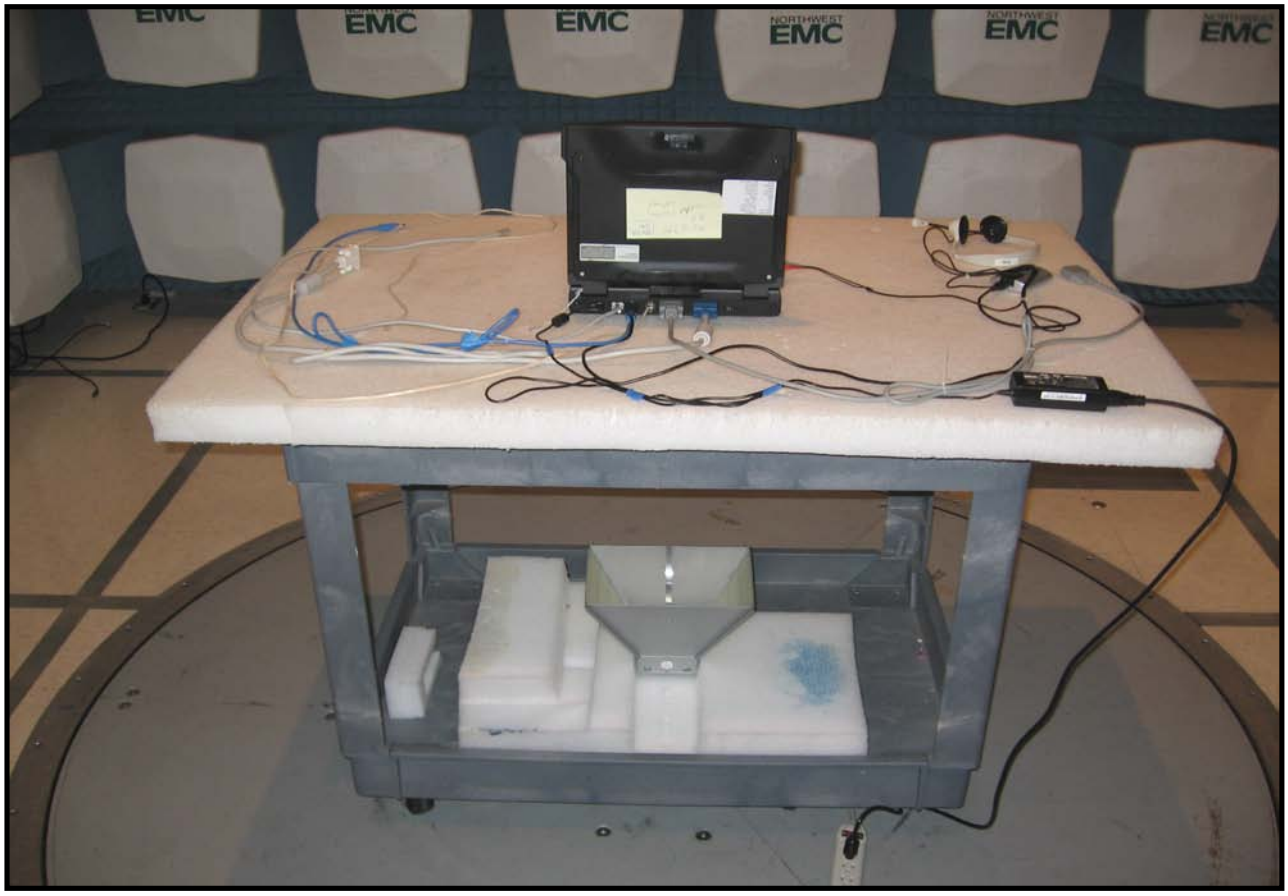
NVLAP Lab Code 200630-0

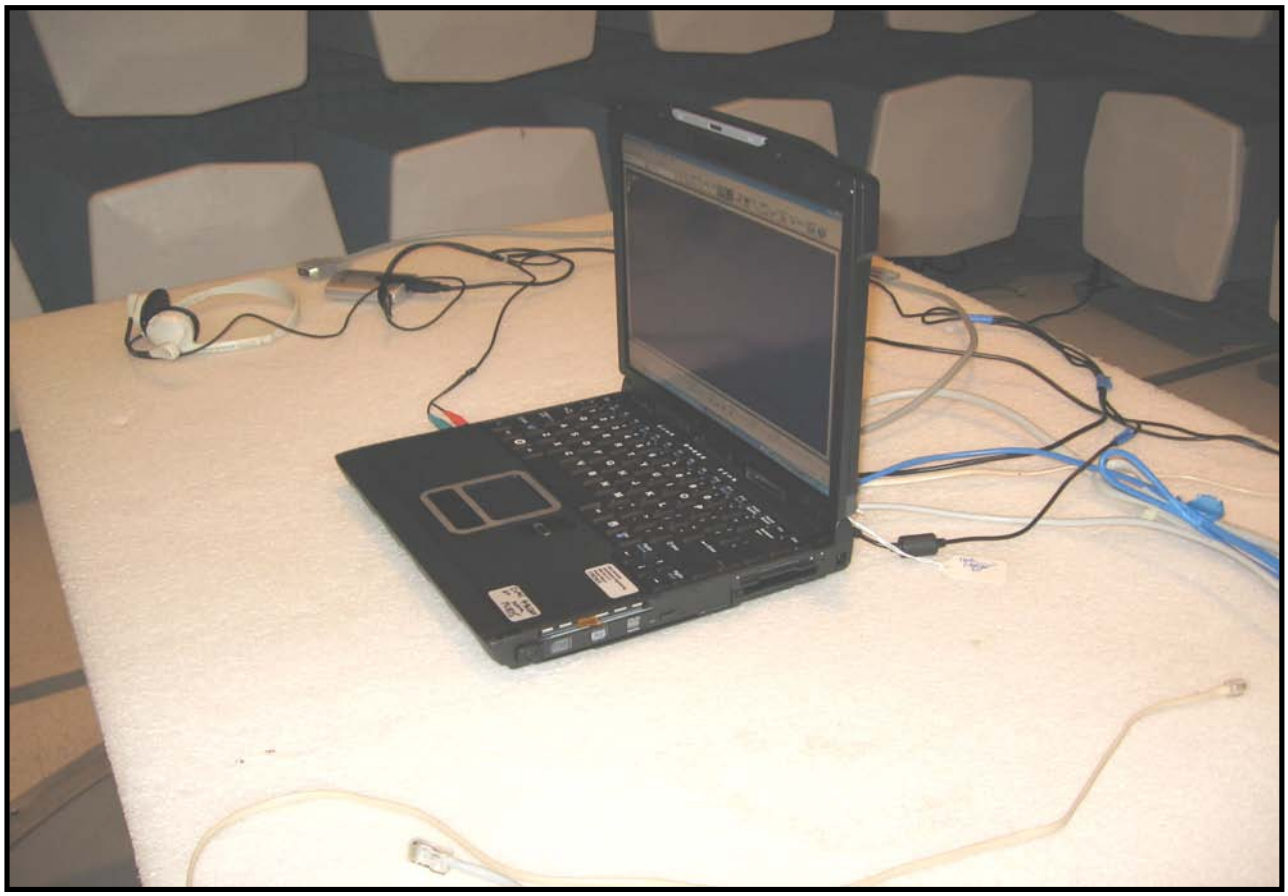
Signature Holly Ashkannejhad

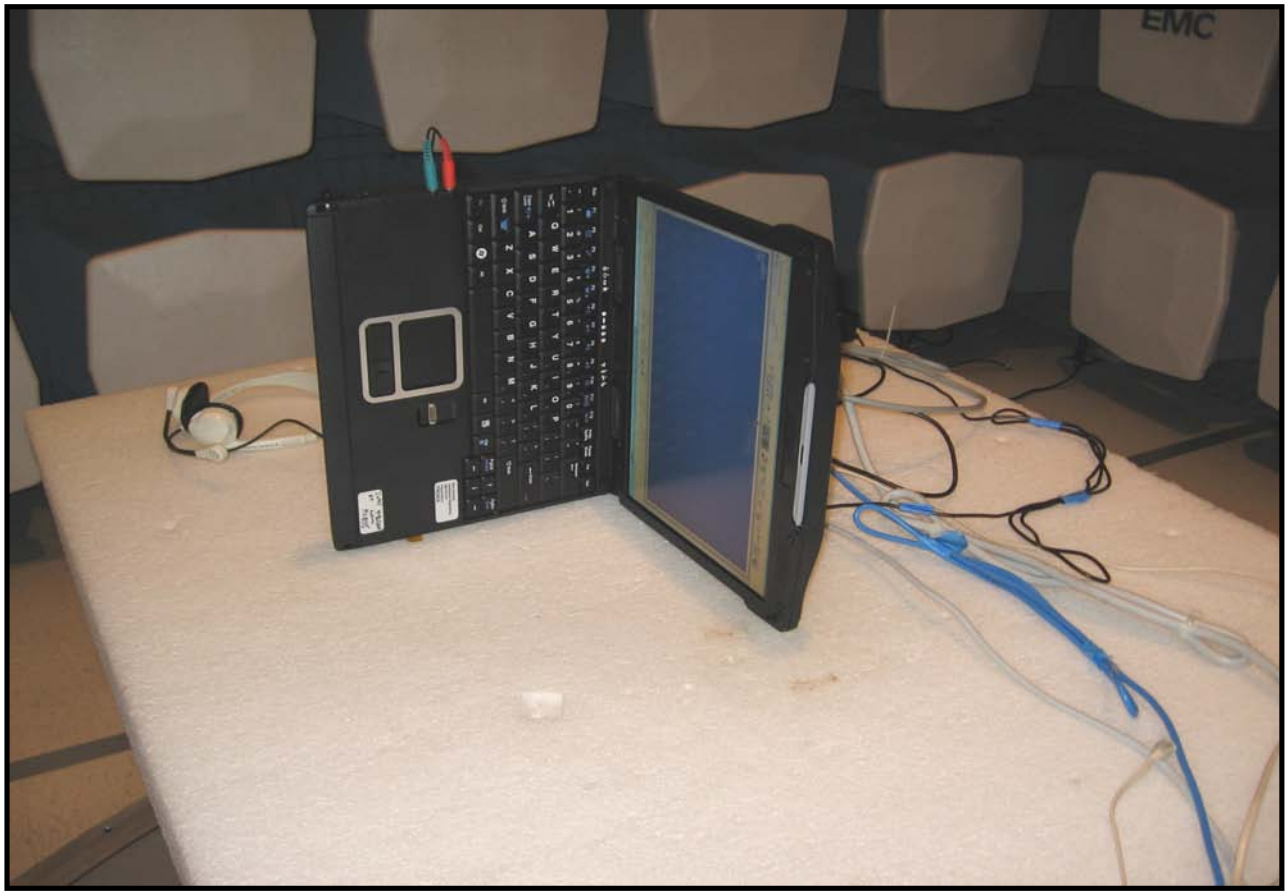


Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1905.700			88.0	1.0			V-Horn	PK	2.50E-01	24.0	33.0	-9.0	High channel, antenna vertical
1877.040			11.0	1.0			V-Horn	PK	2.33E-01	23.7	33.0	-9.3	Mid channel, antenna vertical
1879.480			294.0	1.0			H-Horn	PK	2.22E-01	23.5	33.0	-9.5	Mid channel, antenna on side
1907.340			296.0	1.0			H-Horn	PK	2.08E-01	23.2	33.0	-9.8	High channel, antenna on side
1853.480			22.0	1.0			V-Horn	PK	1.89E-01	22.8	33.0	-10.2	Low channel, antenna vertical
1855.220			286.0	1.0			H-Horn	PK	1.34E-01	21.3	33.0	-11.7	Low channel, antenna on side
1878.400			269.0	1.0			V-Horn	PK	1.06E-01	20.3	33.0	-12.7	Mid channel, antenna on side
1904.980			266.0	1.0			V-Horn	PK	7.54E-02	18.8	33.0	-14.2	High channel, antenna on side
1854.040			268.0	1.0			V-Horn	PK	4.24E-02	16.3	33.0	-16.7	Low channel, antenna on side
1878.800			332.0	1.0			H-Horn	PK	3.21E-02	15.1	33.0	-17.9	Mid channel, antenna vertical
1851.640			314.0	1.0			H-Horn	PK	2.38E-02	13.8	33.0	-19.2	Low channel, antenna vertical
1908.980			356.0	1.0			H-Horn	PK	2.08E-02	13.2	33.0	-19.8	High channel, antenna vertical

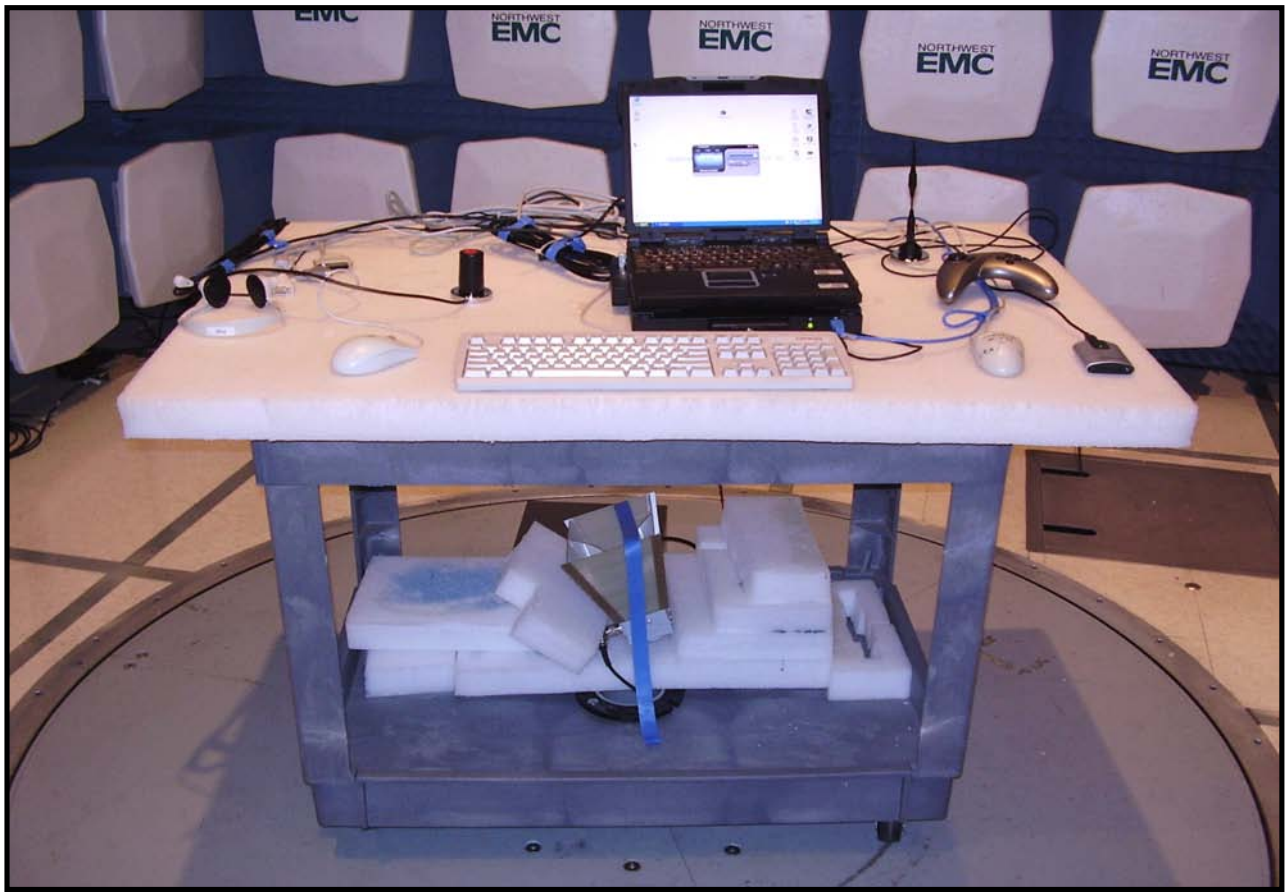

NORTHWEST EMC

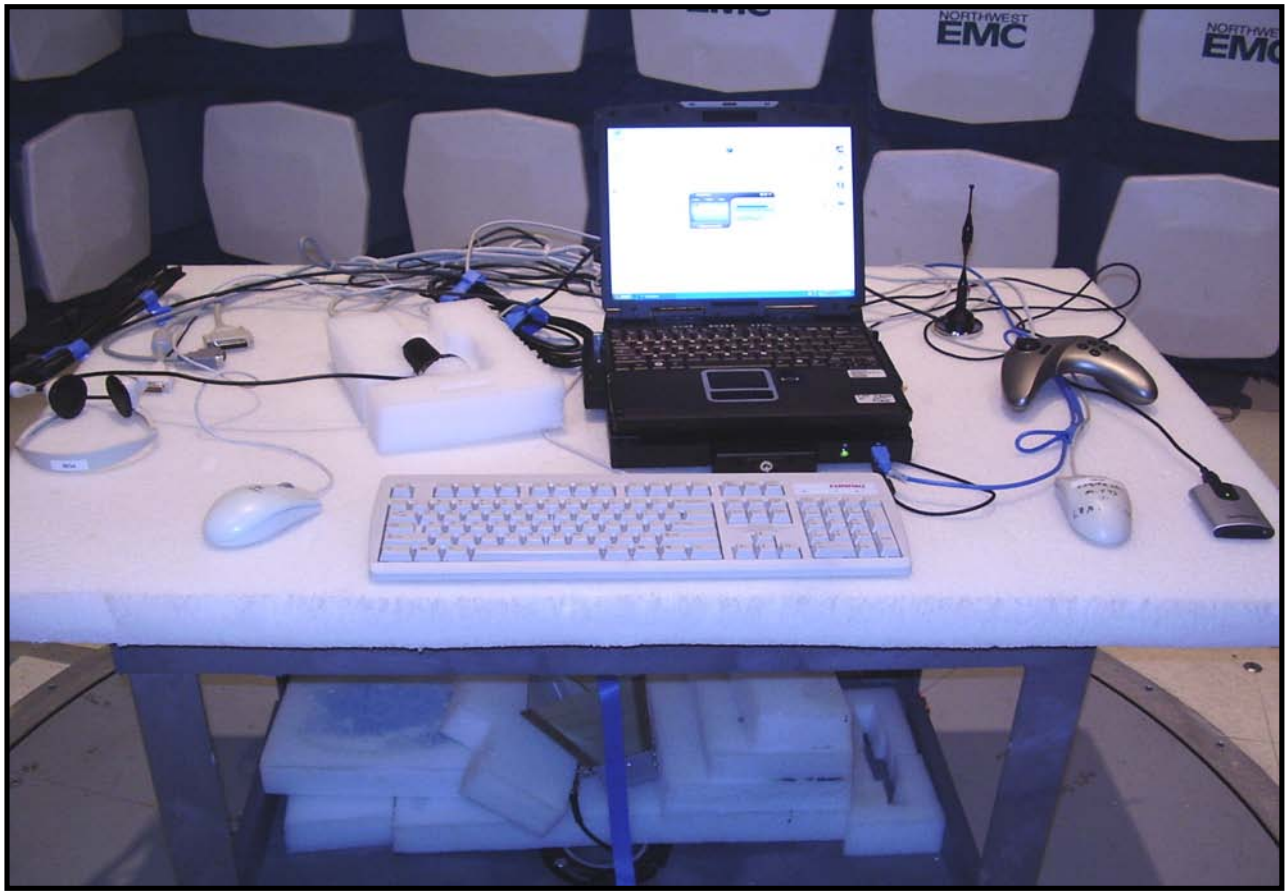

NORTHWEST EMC

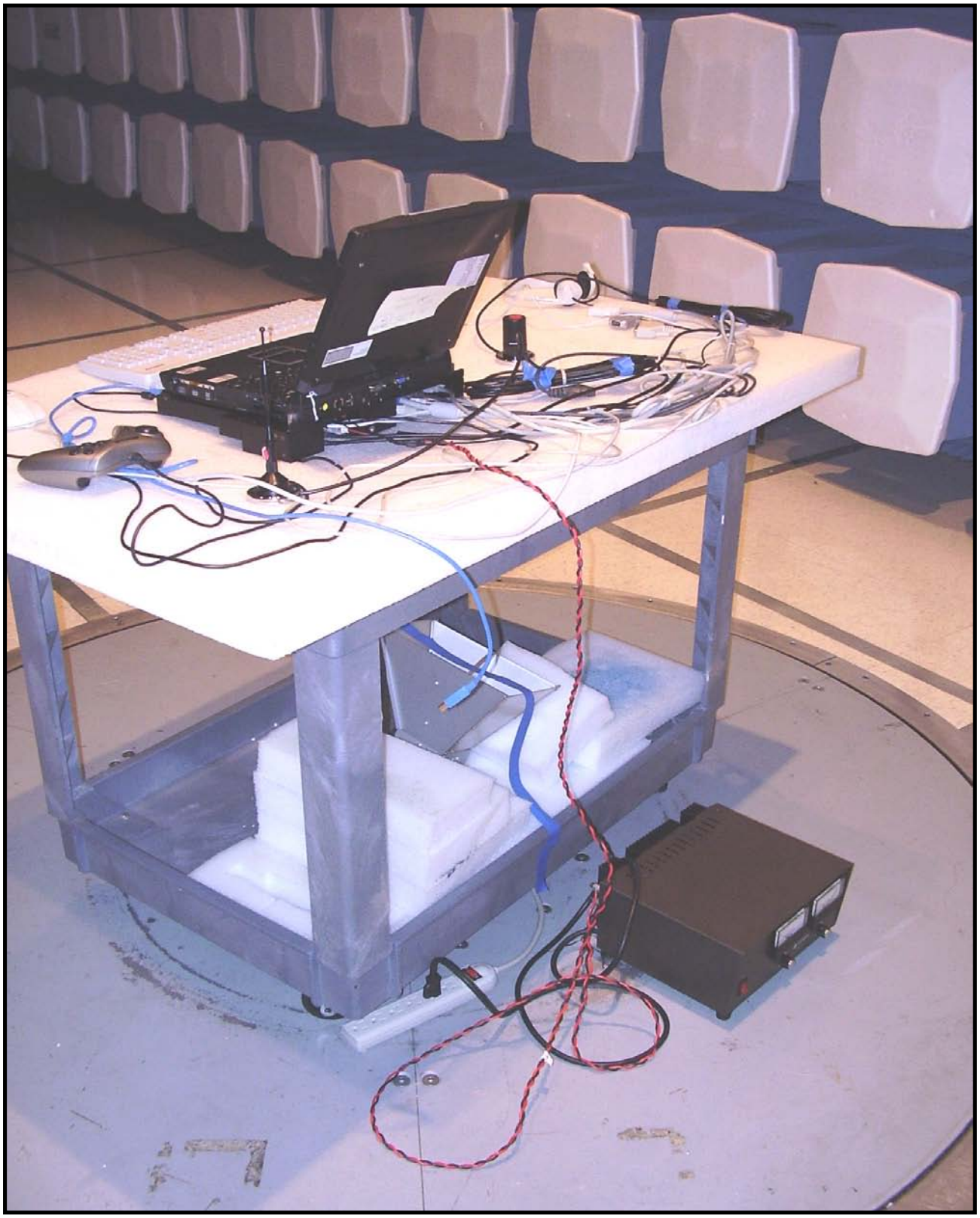



EMC

Effective Isotropic Radiated Power







Effective Radiated Power

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

OPERATING BANDS
Cellular

MODES OF OPERATION
GPRS
EDGE
WCDMA
HSDPA

CHANNELS INVESTIGATED FOR GPRS AND EDGE
Low channel, Ch. 128, 824.2MHz
Mid channel, Ch. 192, 837MHz
High channel, Ch. 251, 848.8MHz

CHANNELS INVESTIGATED FOR WCDMA AND HSDPA
Low channel, Ch. 4132, 826.4MHz
Mid channel, Ch. 4182, 836.4MHz
High channel, Ch. 4233, 846.6MHz

CONFIGURATIONS INVESTIGATED
Notebook configuration, internal antenna
Optional vehicle mount configuration, external antenna

POWER SETTINGS INVESTIGATED
120VAC/60Hz

FREQUENCY RANGE INVESTIGATED			
Start Frequency	824.2MHz	Stop Frequency	848.8MHz

SAMPLE CALCULATIONS
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Antenna, Dipole (part of ADA)	ETS	3121C-DB4	ADAA	12/28/2006	24
Antenna, Dipole (ADAA included)	Roberts	Roberts	ADA	12/28/2006	24
Signal Generator	Hewlett-Packard	8648D	TGC	12/7/2006	13
Power Meter	Gigatronics	8651A	SPM	9/19/2006	12
Power Sensor	Gigatronics	80701A	SPL	9/19/2006	12
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2006	13
EV01 cables c,g, h			EVA	12/29/2006	13
Antenna, Biconilog	EMCO	3141	AXE	12/28/2005	24

MEASUREMENT BANDWIDTHS				
	Frequency Range	**Peak Data**	**Quasi-Peak Data**	**Average Data**
	(MHz)	**(kHz)**	**(kHz)**	**(kHz)**
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0
Measurements were made using the bandwidths and detectors specified. No video filter was used.				

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and/or receiving while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003).

The amplitude and frequency of the highest emissions were noted. The EUT was then replaced with a dipole antenna. A signal generator was connected to the dipole antenna and its output was adjusted to match the level previously noted for each frequency. The output of the signal generator was recorded, and by factoring in the cable loss to the dipole antenna and its gain (dBi); the effective radiated power for each radiated spurious emission was determined.

NORTHWEST EMC

Effective Radiated Power (ERP)

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/09/07
Customer:	Spectrum Technology, Inc.	Temperature:	23
Attendees:	Rod Munro	Humidity:	47%
Project:	None	Barometric Pres.:	29.98
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Internal antenna. Notebook standalone configuration.

EUT OPERATING MODES

GSM Cellular band, see comments for channel

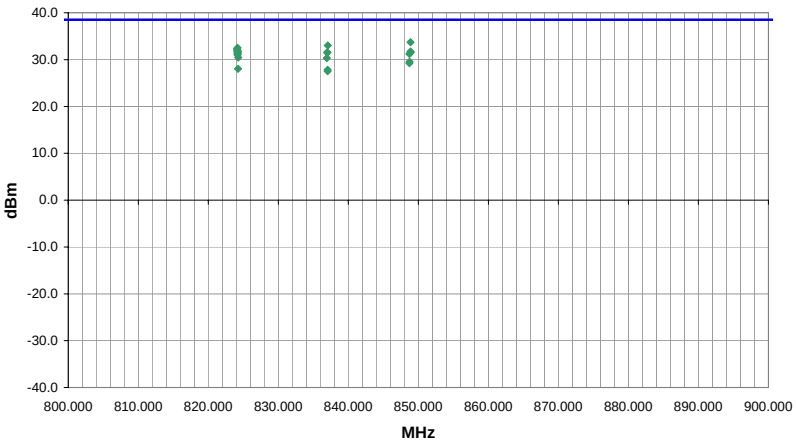
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	1
Configuration #	1
Results	Pass

NVLAP Lab Code 200630-0

Signature Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
848.879			206.0	1.4			H-Bilog	PK	2.36E+00	33.7	38.5	-4.8	Packet Switched (GPRS), High channel, Notebook typical position
837.075			205.0	1.4			H-Bilog	PK	2.01E+00	33.0	38.5	-5.5	Packet Switched (GPRS), Mid channel, Notebook typical position
824.175			54.0	1.1			V-Bilog	PK	1.79E+00	32.5	38.5	-6.0	Circuit Switched, Low channel, Notebook typical
824.112			58.0	1.1			V-Bilog	PK	1.71E+00	32.3	38.5	-6.2	Packet Switched (GPRS), Low channel, Notebook typical
824.125			195.0	1.6			H-Bilog	PK	1.60E+00	32.0	38.5	-6.5	Circuit Switched, Low channel, Notebook typical
824.125			267.0	1.7			V-Bilog	PK	1.49E+00	31.7	38.5	-6.8	Packet Switched (GPRS), Low channel, Notebook on side
824.254			258.0	1.7			H-Bilog	PK	1.49E+00	31.7	38.5	-6.8	Packet Switched (GPRS), Low channel, Notebook on side
848.875			267.0	1.0			V-Bilog	PK	1.49E+00	31.7	38.5	-6.8	Packet Switched (GPRS), High channel, Notebook typical position
836.971			299.0	1.5			H-Bilog	PK	1.42E+00	31.5	38.5	-7.0	Packet Switched (GPRS), Mid channel, Notebook screen horizontal
836.996			257.0	1.0			V-Bilog	PK	1.42E+00	31.5	38.5	-7.0	Packet Switched (GPRS), Mid channel, Notebook typical position
848.892			142.0	1.6			V-Bilog	PK	1.42E+00	31.5	38.5	-7.0	Packet Switched (GPRS), High channel, Notebook on side
824.162			74.0	1.6			H-Bilog	PK	1.36E+00	31.3	38.5	-7.2	Packet Switched (GPRS), Low channel, Notebook screen horizontal
824.212			295.0	1.7			V-Bilog	PK	1.36E+00	31.3	38.5	-7.2	Circuit Switched, Low channel, Notebook typical
848.717			57.0	2.3			H-Bilog	PK	1.33E+00	31.2	38.5	-7.3	Packet Switched (GPRS), High channel, Notebook screen horizontal
824.183			197.0	1.6			H-Bilog	PK	1.27E+00	31.0	38.5	-7.5	Packet Switched (GPRS), Low channel, Notebook typical
824.267			10.0	1.0			H-Bilog	PK	1.10E+00	30.4	38.5	-8.1	Circuit Switched, Low channel, Notebook typical
836.933			140.0	1.5			V-Bilog	PK	1.08E+00	30.3	38.5	-8.2	Packet Switched (GPRS), Mid channel, Notebook on side
848.733			347.0	1.5			H-Bilog	PK	8.98E-01	29.5	38.5	-9.0	Packet Switched (GPRS), High channel, Notebook on side
848.725			72.0	2.5			V-Bilog	PK	8.38E-01	29.2	38.5	-9.3	Packet Switched (GPRS), High channel, Notebook screen horizontal
824.250			53.0	1.6			V-Bilog	PK	6.36E-01	28.0	38.5	-10.5	Packet Switched (GPRS), Low channel, Notebook screen horizontal

NORTHWEST EMC

Effective Radiated Power (ERP)

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605			**Work Order:**	SPTE0050
Serial Number:	None			**Date:**	04/12/07
Customer:	Spectrum Technology, Inc.			**Temperature:**	21° C
Attendees:	Rod Munro			**Humidity:**	32%
Project:	None			**Barometric Pres.:**	30.11
Tested by:	Dan Haas	**Power:**	13.8 VDC	**Job Site:**	EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook in optional vehicular configuration. External antenna.

EUT OPERATING MODES

GPRS, Packet Data, Cellular band.

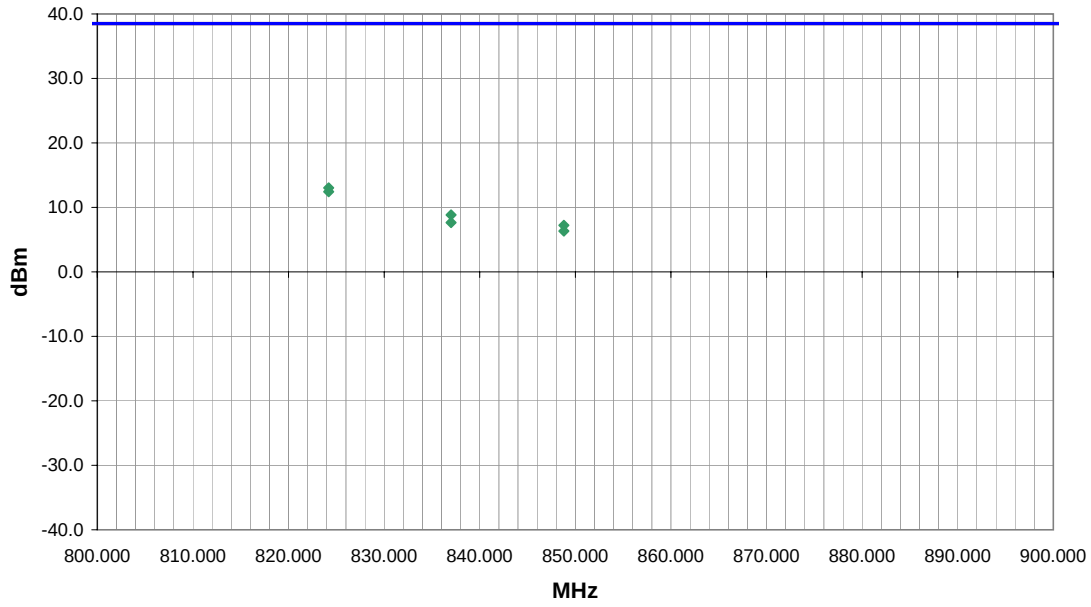
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	20
Configuration #	2
Results	Pass

NVLAP Lab Code 200630-0

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
824.200			241.0	1.0			H-Bilog	PK	2.01E-02	13.0	38.5	-25.5	Low channel.
824.200			227.0	1.4			V-Bilog	PK	1.75E-02	12.4	38.5	-26.1	Low channel.
837.000			269.0	1.2			V-Bilog	PK	7.64E-03	8.8	38.5	-29.7	Mid channel.
837.000			244.0	1.0			H-Bilog	PK	5.80E-03	7.6	38.5	-30.9	Mid channel.
848.800			202.0	1.6			H-Bilog	PK	5.29E-03	7.2	38.5	-31.3	High channel.
848.800			241.0	1.0			V-Bilog	PK	4.30E-03	6.3	38.5	-32.2	High channel.

NORTHWEST EMC

Effective Radiated Power (ERP)

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/10/07
Customer:	Spectrum Technology, Inc.	Temperature:	22
Attendees:	Rod Munro	Humidity:	32%
Project:	None	Barometric Pres.:	30.05
Tested by:	Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Internal antenna. Notebook standalone configuration.

EUT OPERATING MODES

EGPRS, Packet Data, Cellular band, see comments for channel

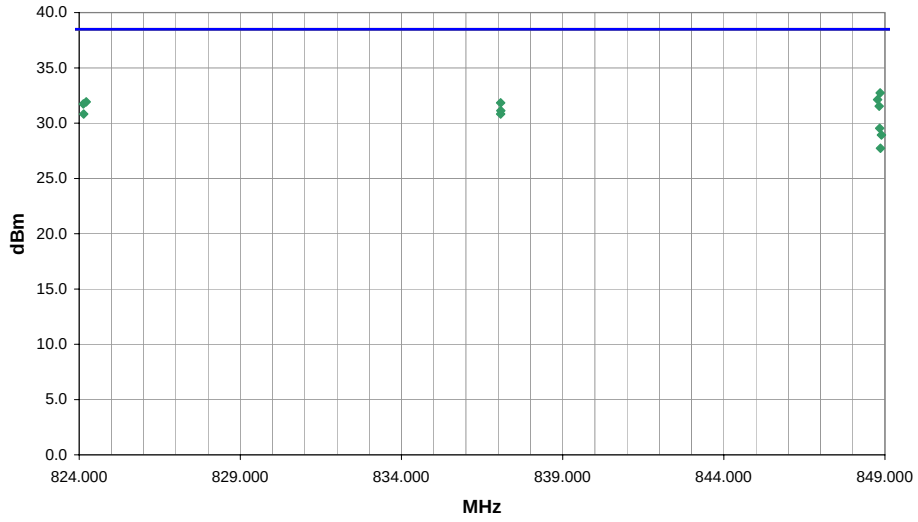
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	5
Configuration #	1
Results	Pass

NVLAP Lab Code 200630-0

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
848.853			71.0	1.5			H-Bilog	PK	1.88E+00	32.7	38.5	-5.8	High channel, Notebook screen horizontal
848.773			207.0	1.5			H-Bilog	PK	1.63E+00	32.1	38.5	-6.4	High channel, Notebook typical
824.217			206.0	1.0			H-Bilog	PK	1.56E+00	31.9	38.5	-6.6	Low channel, Notebook typical
837.077			69.0	1.5			H-Bilog	PK	1.52E+00	31.8	38.5	-6.7	Mid channel, Notebook screen horizontal
824.127			67.0	1.6			H-Bilog	PK	1.49E+00	31.7	38.5	-6.8	Low channel, Notebook screen horizontal
848.820			232.0	1.0			V-Bilog	PK	1.42E+00	31.5	38.5	-7.0	High channel, Notebook typical
837.080			203.0	1.6			H-Bilog	PK	1.30E+00	31.1	38.5	-7.4	Mid channel, Notebook typical
824.137			125.0	1.0			V-Bilog	PK	1.21E+00	30.8	38.5	-7.7	Low channel, Notebook typical
837.077			237.0	1.0			V-Bilog	PK	1.21E+00	30.8	38.5	-7.7	Mid channel, Notebook typical
848.837			1.0	1.6			H-Bilog	PK	8.98E-01	29.5	38.5	-9.0	High channel, Notebook on side
848.890			219.0	1.0			V-Bilog	PK	7.82E-01	28.9	38.5	-9.6	High channel, Notebook on side
848.860			231.0	3.1			V-Bilog	PK	5.93E-01	27.7	38.5	-10.8	High channel, Notebook screen horizontal

NORTHWEST EMC

Effective Radiated Power (ERP)

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/12/07
Customer:	Spectrum Technology, Inc.	Temperature:	22
Attendees:	Rod Munro	Humidity:	33%
Project:	None	Barometric Pres.:	30.12
Tested by:	Holly Ashkannejhad	Power: 13.8 VDC	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook in optional vehicular configuration. External antenna.

EUT OPERATING MODES

EGPRS, Packet Data, Cellular band, see comments for channel

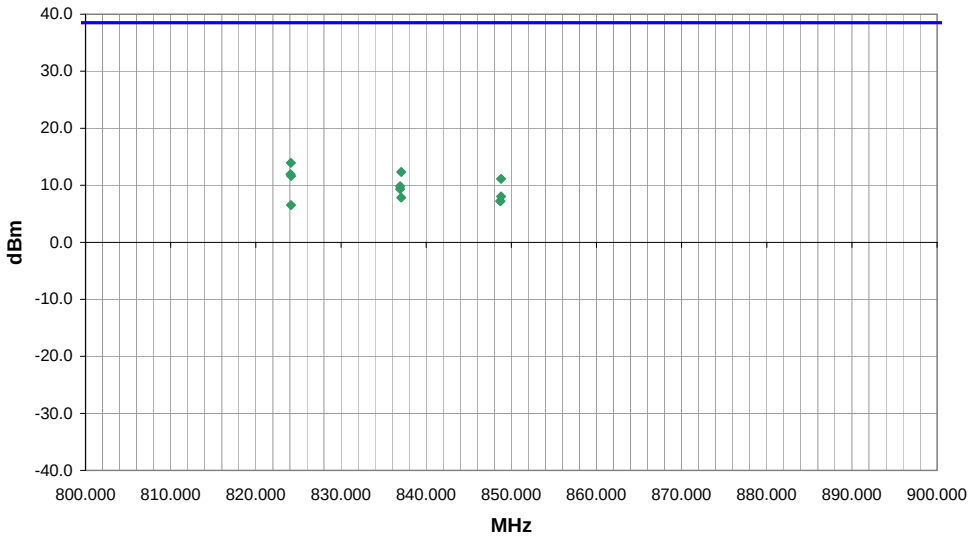
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	22
Configuration #	2
Results	Pass

NVLAP Lab Code 200630-0

Signature Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
824.100			312.0	1.0			H-Bilog	PK	2.47E-02	13.9	38.5	-24.6	Low channel, antenna on side
837.080			312.0	1.0			H-Bilog	PK	1.71E-02	12.3	38.5	-26.2	Mid channel, antenna on side
824.070			248.0	1.0			V-Bilog	PK	1.56E-02	11.9	38.5	-26.6	Low channel, antenna on side
824.150			236.0	1.0			H-Bilog	PK	1.46E-02	11.6	38.5	-26.9	Low channel, antenna vertical
848.805			56.0	1.7			V-Bilog	PK	1.30E-02	11.1	38.5	-27.4	High channel, antenna vertical
836.945			260.0	1.7			V-Bilog	PK	9.62E-03	9.8	38.5	-28.7	Mid channel, antenna vertical
836.940			264.0	1.7			V-Bilog	PK	8.57E-03	9.3	38.5	-29.2	Mid channel, antenna on side
848.790			62.0	1.7			V-Bilog	PK	6.36E-03	8.0	38.5	-30.5	High channel, antenna on side
837.075			242.0	1.0			H-Bilog	PK	6.07E-03	7.8	38.5	-30.7	Mid channel, antenna vertical
848.705			204.0	1.7			H-Bilog	PK	5.29E-03	7.2	38.5	-31.3	High channel, antenna vertical
848.730			301.0	1.0			H-Bilog	PK	5.29E-03	7.2	38.5	-31.3	High channel, antenna on side
824.130			166.0	1.3			V-Bilog	PK	4.50E-03	6.5	38.5	-32.0	Low channel, antenna vertical

NORTHWEST EMC

Effective Radiated Power (ERP)

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/19/07
Customer:	Spectrum Technology, Inc.	Temperature:	22° C
Attendees:	None	Humidity:	32%
Project:	None	Barometric Pres.:	30.11
Tested by:	David Divergigelis	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook standalone

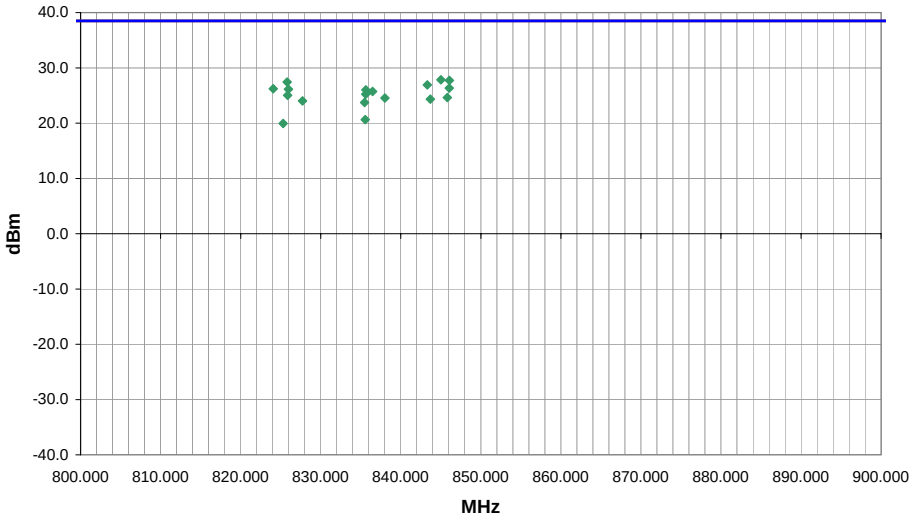
EUT OPERATING MODES

WCDMA, Cellular, see comments for channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	39		
Configuration #	1		
Results	Pass	NVLAP Lab Code 200630-0	*Signature*



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
845.020			212.0	1.6			V-Bilog	PK	6.07E-01	27.8	38.5	-10.7	High channel, notebook on side
846.080			300.0	1.0			V-Bilog	PK	5.93E-01	27.7	38.5	-10.8	High channel, notebook typical position
825.800			297.0	1.0			H-Bilog	PK	5.54E-01	27.4	38.5	-11.1	Low channel, notebook screen horizontal
843.320			189.0	1.0			H-Bilog	PK	4.93E-01	26.9	38.5	-11.6	High channel, notebook typical position
846.060			81.0	1.6			H-Bilog	PK	4.30E-01	26.3	38.5	-12.2	High channel, notebook screen horizontal
824.060			122.0	1.0			H-Bilog	PK	4.20E-01	26.2	38.5	-12.3	Low channel, notebook typical position
825.960			76.0	1.7			V-Bilog	PK	4.10E-01	26.1	38.5	-12.4	Low channel, notebook typical position
835.640			78.0	1.0			V-Bilog	PK	4.01E-01	26.0	38.5	-12.5	Mid channel, notebook typical position
836.480			181.0	1.0			H-Bilog	PK	3.74E-01	25.7	38.5	-12.8	Mid channel, notebook typical position
835.620			119.0	1.8			V-Bilog	PK	3.34E-01	25.2	38.5	-13.3	Mid channel, notebook on side
825.860			340.0	1.0			H-Bilog	PK	3.19E-01	25.0	38.5	-13.5	Low channel, notebook on side
845.820			337.0	2.8			H-Bilog	PK	2.90E-01	24.6	38.5	-13.9	High channel, notebook on side
838.020			248.0	1.6			H-Bilog	PK	2.84E-01	24.5	38.5	-14.0	Mid channel, notebook screen horizontal
843.700			49.0	1.6			V-Bilog	PK	2.71E-01	24.3	38.5	-14.2	High channel, notebook screen horizontal
827.720			316.0	1.0			V-Bilog	PK	2.53E-01	24.0	38.5	-14.5	Low channel, notebook on side
835.480			294.0	1.0			H-Bilog	PK	2.36E-01	23.7	38.5	-14.8	Mid channel, notebook on side
835.560			221.0	1.0			V-Bilog	PK	1.16E-01	20.6	38.5	-17.9	Mid channel, notebook screen horizontal
825.300			226.0	1.0			V-Bilog	PK	9.84E-02	19.9	38.5	-18.6	Low channel, notebook screen horizontal

NORTHWEST EMC

Effective Radiated Power (ERP)

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/19/07
Customer:	Spectrum Technology, Inc.	Temperature:	22° C
Attendees:	None	Humidity:	32%
Project:	None	Barometric Pres.:	30.11
Tested by:	David Divergigelis	Power: 13.8 VDC	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Optional vehicular configuration with external attenuation

EUT OPERATING MODES

WCDMA, Cellular, see comments for channel.

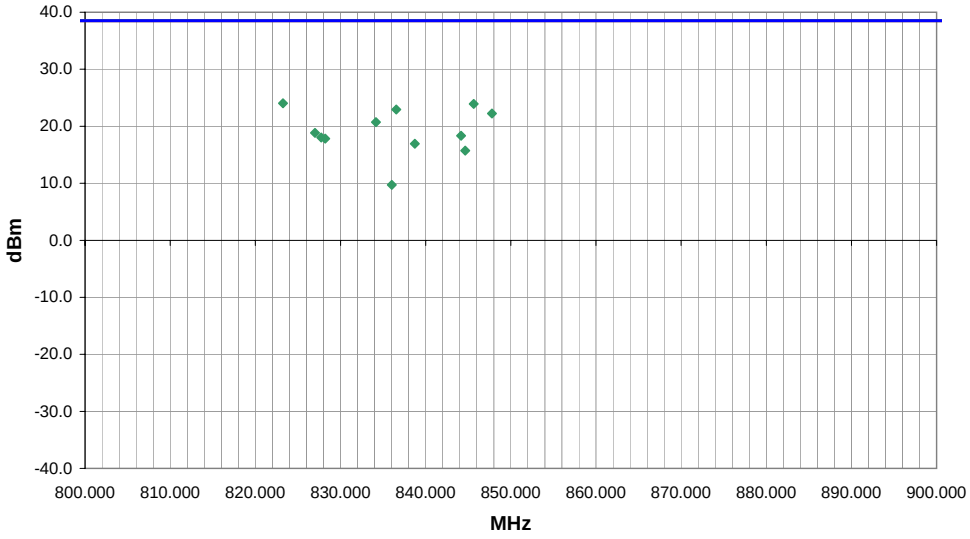
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	38
Configuration #	2
Results	Pass

NVLAP Lab Code 200630-0

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
823.240			276.0	1.0			H-Bilog	PK	2.53E-01	24.0	38.5	-14.5	Low channel, antenna on side
845.640			19.0	1.7			V-Bilog	PK	2.47E-01	23.9	38.5	-14.6	High channel, antenna vertical
836.540			308.0	1.0			H-Bilog	PK	1.96E-01	22.9	38.5	-15.6	Mid channel, antenna on side
847.780			225.0	1.0			H-Bilog	PK	1.67E-01	22.2	38.5	-16.3	High channel, antenna on side
834.160			342.0	1.0			V-Bilog	PK	1.18E-01	20.7	38.5	-17.8	Mid channel, antenna on side
827.000			303.0	1.0			H-Bilog	PK	7.64E-02	18.8	38.5	-19.7	Low channel, antenna vertical
844.160			230.0	1.0			H-Bilog	PK	6.81E-02	18.3	38.5	-20.2	High channel, antenna vertical
827.740			282.0	1.0			V-Bilog	PK	6.36E-02	18.0	38.5	-20.5	Low channel, antenna on side
828.200			9.0	1.8			V-Bilog	PK	6.07E-02	17.8	38.5	-20.7	Low channel, antenna vertical
838.720			236.0	1.0			H-Bilog	PK	4.93E-02	16.9	38.5	-21.6	Mid channel, antenna vertical
844.640			-1.0	1.0			V-Bilog	PK	3.74E-02	15.7	38.5	-22.8	High channel, antenna on side
836.020			359.0	1.8			V-Bilog	PK	9.40E-03	9.7	38.5	-28.8	Mid channel, antenna vertical

NORTHWEST EMC

Effective Radiated Power (ERP)

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	Work Order:	SPTE0050
Serial Number:	None	Date:	04/17/07
Customer:	Spectrum Technology, Inc.	Temperature:	22° C
Attendees:	Rod Munro	Humidity:	32%
Project:	None	Barometric Pres.:	30.11
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Notebook standalone

EUT OPERATING MODES

HSDPA, packet data, cellular band, see comments for channel.

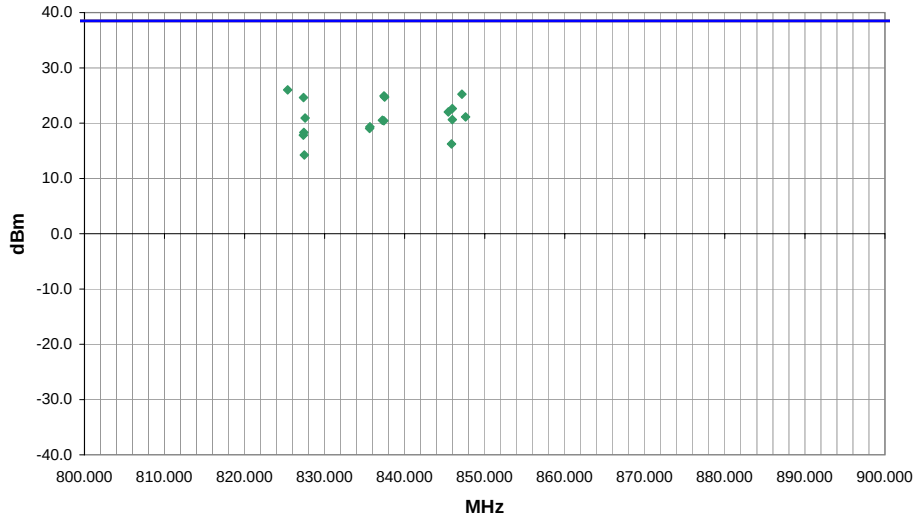
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	25
Configuration #	1
Results	Pass

NVLAP Lab Code 200630-0

Signature Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
825.383			316.0	1.6			H-Bilog	PK	4.01E-01	26.0	38.5	-12.5	Low channel, Notebook screen horizontal
847.142			344.0	1.0			H-Bilog	PK	3.34E-01	25.2	38.5	-13.3	High channel, Notebook typical position
837.408			55.0	1.6			H-Bilog	PK	3.11E-01	24.9	38.5	-13.6	Mid channel, Notebook screen horizontal
837.500			343.0	1.0			H-Bilog	PK	2.97E-01	24.7	38.5	-13.8	Mid channel, Notebook typical position
827.367			343.0	1.0			H-Bilog	PK	2.90E-01	24.6	38.5	-13.9	Low channel, Notebook typical position
845.950			117.0	1.6			H-Bilog	PK	1.83E-01	22.6	38.5	-15.9	High channel, Notebook screen horizontal
845.450			308.0	1.0			H-Bilog	PK	1.60E-01	22.0	38.5	-16.5	High channel, Notebook on side
847.608			224.0	1.8			V-Bilog	PK	1.30E-01	21.1	38.5	-17.4	High channel, Notebook on side
827.567			311.0	1.0			H-Bilog	PK	1.24E-01	20.9	38.5	-17.6	Low channel, Notebook on side
845.958			53.0	1.8			V-Bilog	PK	1.16E-01	20.6	38.5	-17.9	High channel, Notebook screen horizontal
837.208			0.0	1.8			V-Bilog	PK	1.13E-01	20.5	38.5	-18.0	Mid channel, Notebook on side
837.400			317.0	1.0			H-Bilog	PK	1.10E-01	20.4	38.5	-18.1	Mid channel, Notebook on side
835.650			93.0	1.7			V-Bilog	PK	8.57E-02	19.3	38.5	-19.2	Mid channel, Notebook screen horizontal
835.625			319.0	1.0			V-Bilog	PK	8.00E-02	19.0	38.5	-19.5	Mid channel, Notebook typical position
827.400			229.0	1.0			V-Bilog	PK	6.81E-02	18.3	38.5	-20.2	Low channel, Notebook on side
827.342			235.0	1.0			V-Bilog	PK	6.07E-02	17.8	38.5	-20.7	Low channel, Notebook screen horizontal
845.858			-1.0	1.2			V-Bilog	PK	4.20E-02	16.2	38.5	-22.3	High channel, Notebook typical position
827.467			-1.0	1.2			V-Bilog	PK	2.65E-02	14.2	38.5	-24.3	Low channel, Notebook typical position

NORTHWEST EMC

Effective Radiated Power (ERP)

PSA 2007.01.31
EMI 2006.12.20

EUT:	MC8775 in the IX605	**Work Order:**	SPTE0050
Serial Number:	None	**Date:**	04/19/07
Customer:	Spectrum Technology, Inc.	**Temperature:**	22° C
Attendees:	Rod Munro	**Humidity:**	32%
Project:	None	**Barometric Pres.:**	30.11
Tested by:	Holly Ashkannejhad	**Power:** 13.8 VDC	**Job Site:** EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2006	ANSI/TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	**Test Distance (m)**	0

COMMENTS

Optional vehicular configuration with external antenna.

EUT OPERATING MODES

HSDPA, packet data, cellular band, see comments for channel.

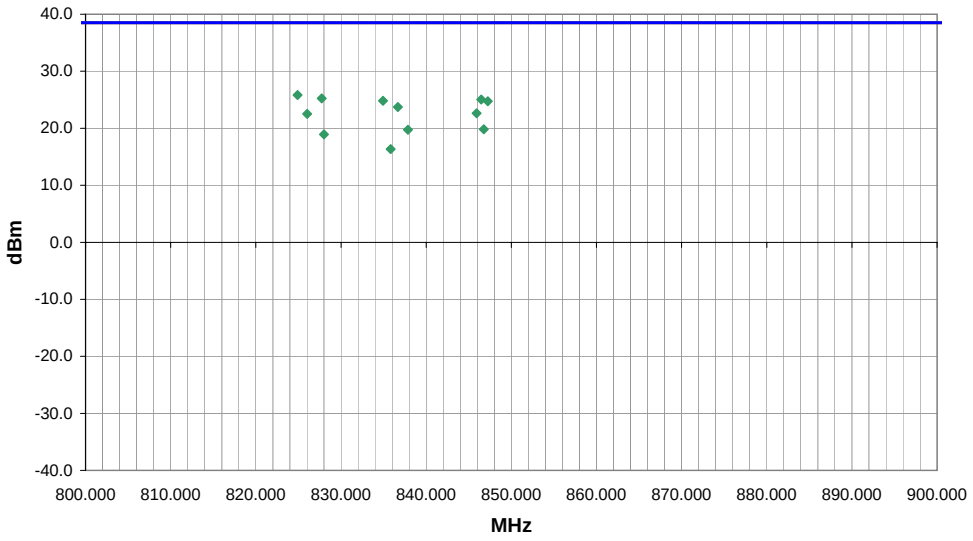
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	35
Configuration #	2
Results	Pass

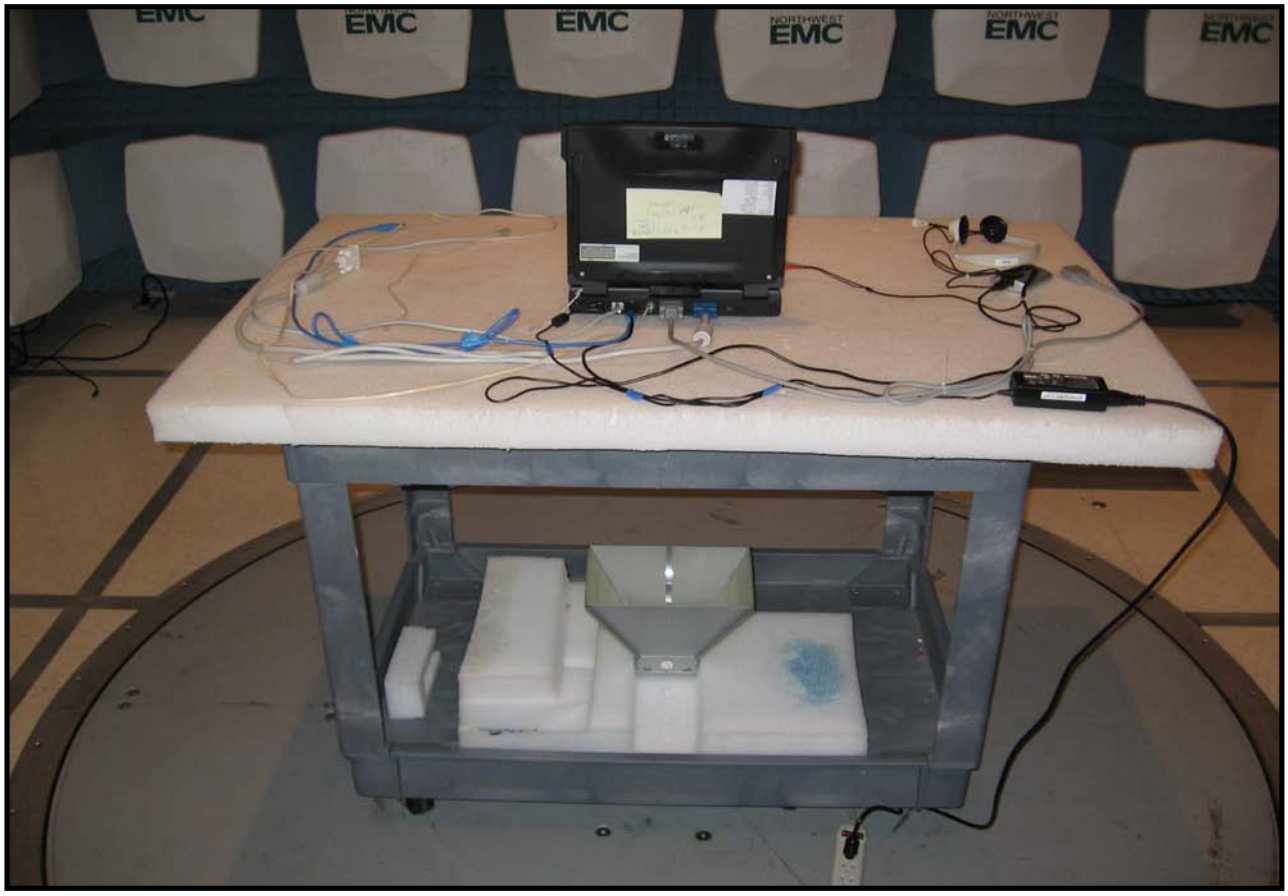
NVLAP Lab Code 200630-0

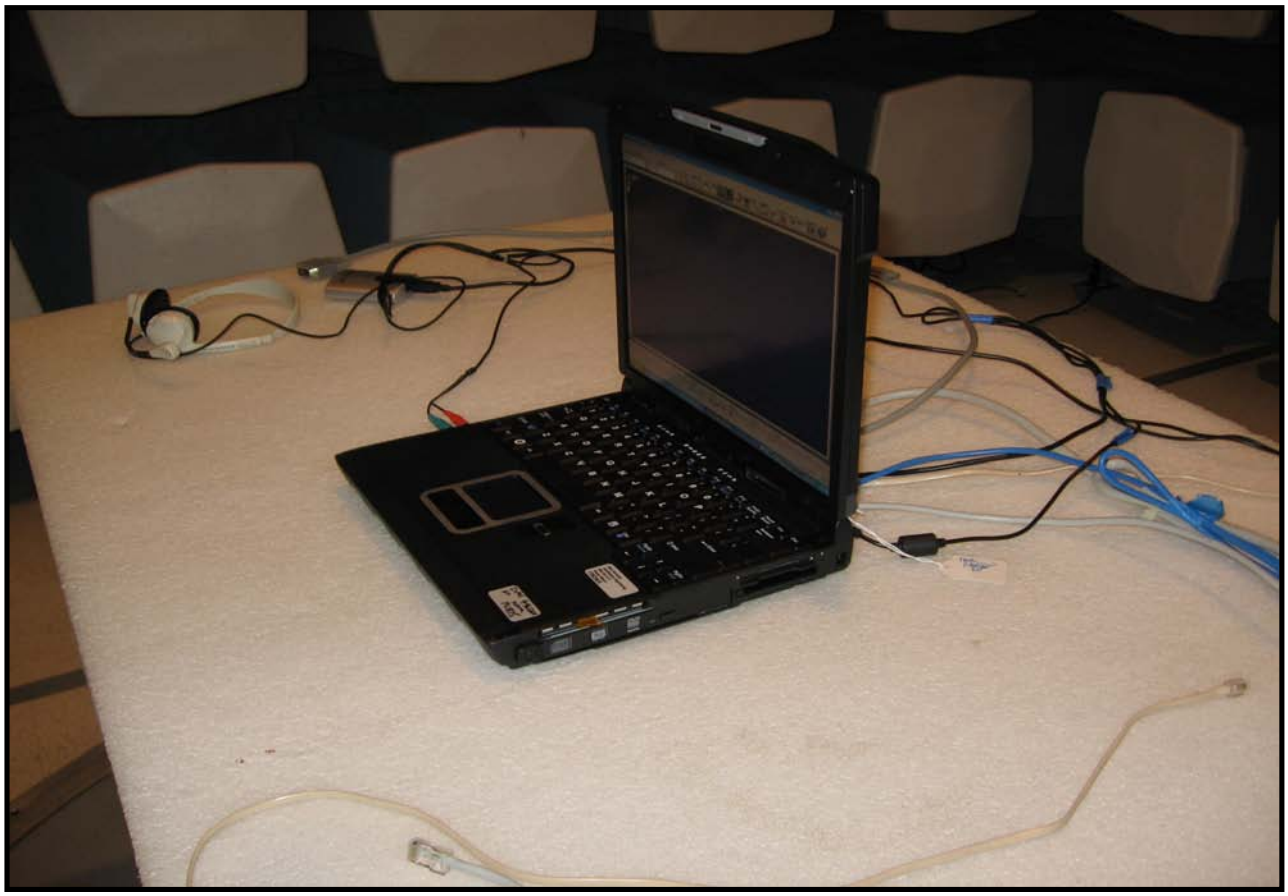
Signature Holly Ashkannejhad

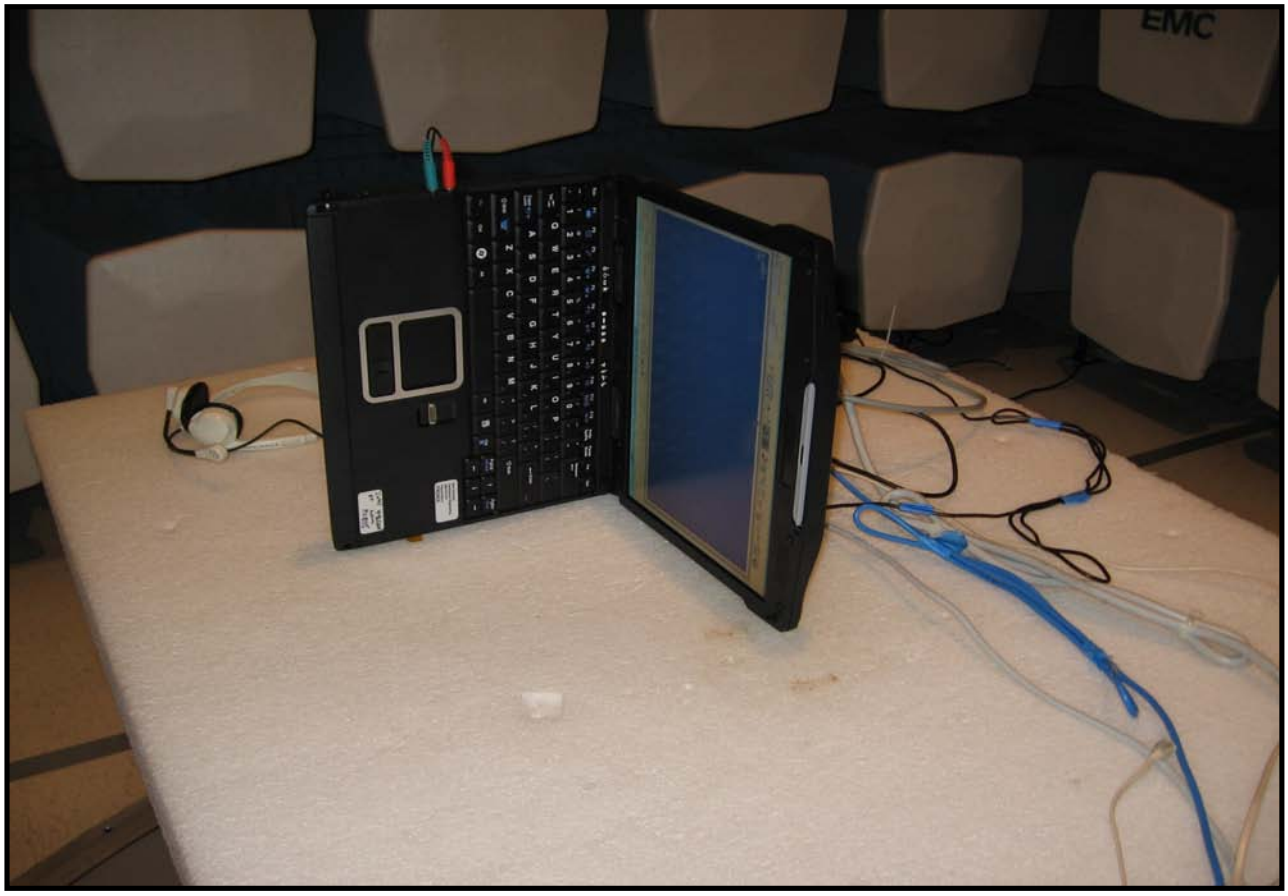


Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
824.900			257.0	1.3			V-Bilog	PK	3.83E-01	25.8	38.5	-12.7	Low channel, antenna vertical
827.730			304.0	1.0			H-Bilog	PK	3.34E-01	25.2	38.5	-13.3	Low channel, antenna on side
846.470			261.0	1.6			V-Bilog	PK	3.19E-01	25.0	38.5	-13.5	High channel, antenna vertical
834.930			256.0	1.5			V-Bilog	PK	3.04E-01	24.8	38.5	-13.7	Mid channel, antenna vertical
847.230			315.0	1.0			H-Bilog	PK	2.97E-01	24.7	38.5	-13.8	High channel, antenna on side
836.670			311.0	1.0			H-Bilog	PK	2.36E-01	23.7	38.5	-14.8	Mid channel, antenna on side
845.930			-1.0	1.8			V-Bilog	PK	1.83E-01	22.6	38.5	-15.9	High channel, antenna on side
826.030			218.0	1.2			V-Bilog	PK	1.79E-01	22.5	38.5	-16.0	Low channel, antenna on side
846.770			256.0	1.0			H-Bilog	PK	9.62E-02	19.8	38.5	-18.7	High channel, antenna vertical
837.870			0.0	1.8			V-Bilog	PK	9.40E-02	19.7	38.5	-18.8	Mid channel, antenna on side
828.000			253.0	1.0			H-Bilog	PK	7.82E-02	18.9	38.5	-19.6	Low channel, antenna vertical
835.830			255.0	1.0			H-Bilog	PK	4.30E-02	16.3	38.5	-22.2	Mid channel, antenna vertical

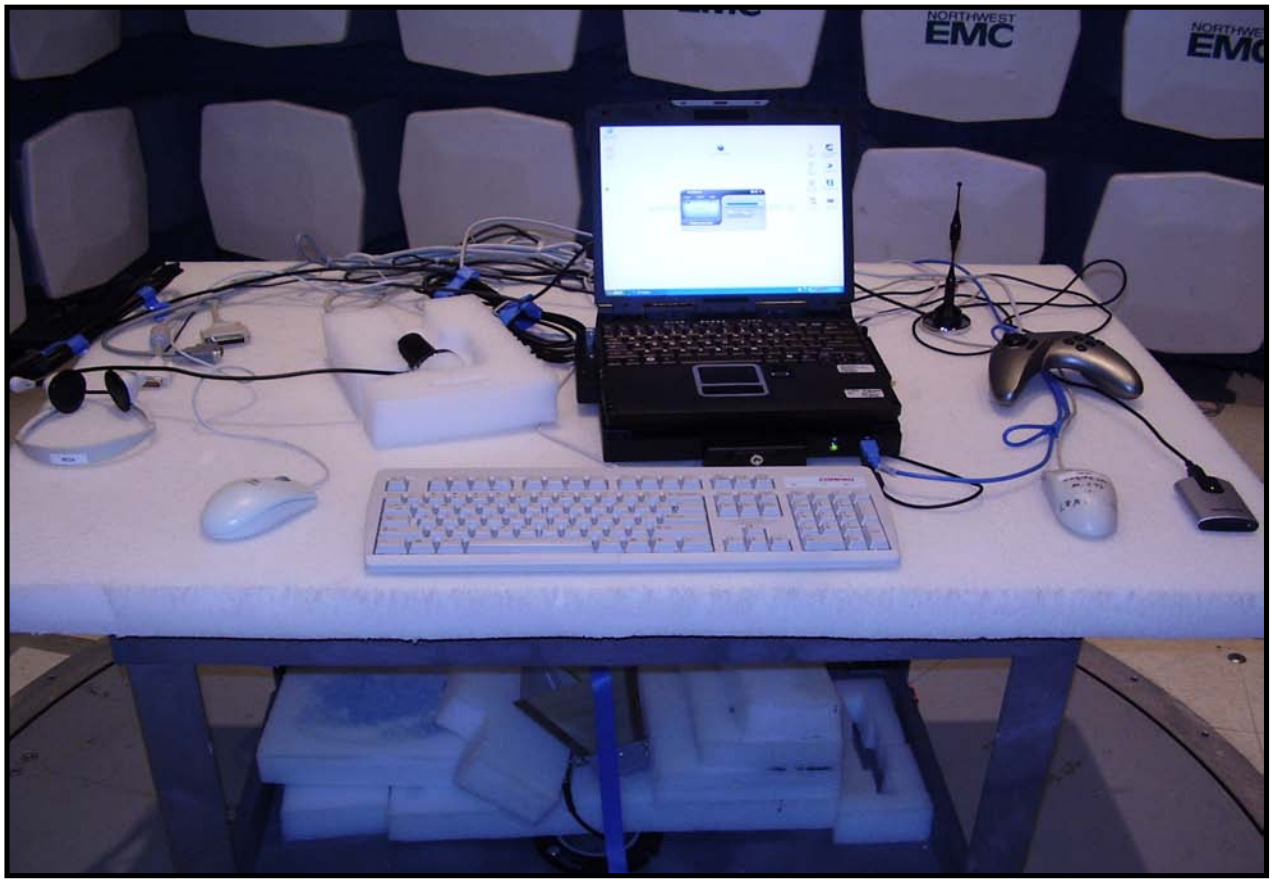

NORTHWEST EMC


NORTHWEST EMC




EMC


NORTHWEST
EMC


NORTHWEST
EMC