

Spectrum Technology

IX600-MC8765

July 21, 2006

Report No. SPTE0026.2

Report Prepared By



www.nwemc.com

1-888-EMI-CERT

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EMC Test Report



22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test
Issue Date: July 21, 2006
Spectrum Technology
Model: IX600-MC87650

Emissions				
Test Description	Specification	Test Method	Pass	Fail
AC Powerline Conducted Emissions	FCC 15.107:2006	ANSI C63.4:2003	☒	☐
Effective Radiated Power	FCC 22H:2005	ANSI/TIA/EIA-603-B:2002	☒	☐
Effective Radiated Power	FCC 24E:2005	ANSI/TIA/EIA-603-B:2002	☒	☐
Receive Spurious Emissions	FCC 15.109:2006	ANSI C63.4:2003	☒	☐
Out of Band Emissions	FCC 22H:2005	ANSI/TIA/EIA-603-B:2002	☒	☐
Out of Band Emissions	FCC 24E:2005	ANSI/TIA/EIA-603-B:2002	☒	☐

Modifications made to the product

See the Modifications section of this report

Approved By:

Greg Kiemel, Director of Engineering

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.

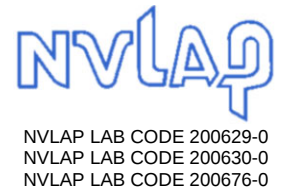
Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested,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



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 TÜV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TÜV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TÜV's current Listing of CARAT Laboratories, available from TÜV. A certificate was issued to represent that this laboratory continues to meet TÜV's CARAT Program requirements. Certificate No. USA0401C.



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, and R-2318, Irvine: C-2094 and R-1943, Sultan: R-871, C-1784 and R-1761).



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.



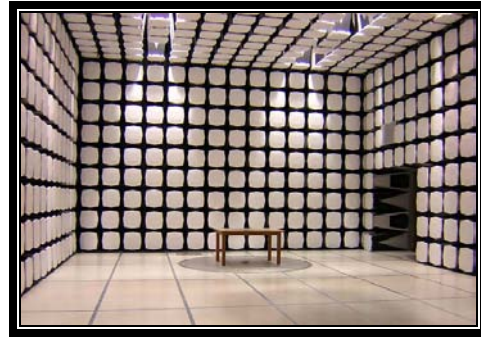
GOST: Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from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



SCOPE

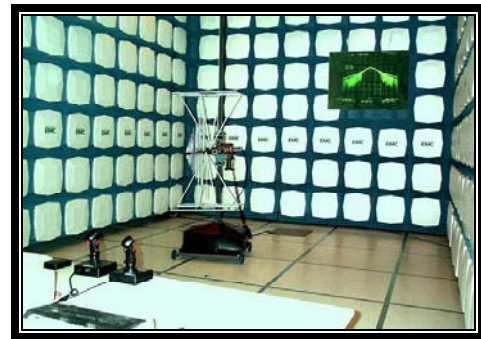
For details on the Scopes of our Accreditations, please visit:

<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:	IX600-MC8765
First Date of Test:	June 01, 2006
Last Date of Test:	July 17, 2006
Receipt Date of Samples:	May 30, 2006
Equipment Design Stage:	Production
Equipment Condition:	No visual damage.

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
GSM/GPRS radio installed in an Itronix notebook computer.

Client Justification for Test Selection:
These tests are required for FCC compliance.

CONFIGURATION 1 SPTE0026**Software/Firmware Running during test**

Description	Version
Procomm Plus Terminal	4.8 Build 71

EUT

Description	Manufacturer	Model/Part Number	Serial Number
EUT	Itronix, Corp.	IX600-MC8765	359226000004984

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
Internal Antenna	Skycross	59-0479-001	Unknown
Host IX600 Notebook PC	Itronix, Corp.	IX-600	None
Host IX600 Notebook PC	Itronix, Corp.	IX-600	ZZGEG6072ZZ5515
Vehicle Mount	Itronix, Corp.	IX600 Vehicle Mount	None
CF Card Reader	Itronix, Corp.	SDDR-91	None
Mouse	Logitech	M-BE58	LZE02357693
Keyboard	Microsoft	E06401COMB	51061
Headphones	Unknown	None	None
Antenna Terminator	Unknown	None	None
USB Gamepad	Microsoft	X04-63237	00623744

Remote Equipment Outside of Test Setup Boundary

Description	Manufacturer	Model/Part Number	Serial Number
13.8 Vdc Power Supply	Radio Shack	Unknown	Unknown

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB	Yes	1.0m	No	Vehicle Mount	Unterminated
USB	Yes	1.0m	No	Vehicle Mount	CF Card Reader
USB	Yes	1.0m	No	Vehicle Mount	Unterminated
USB	Yes	1.6m	No	Vehicle Mount	USB Gamepad
Keyboard	PA	1.8m	PA	Vehicle Mount	Keyboard
Mouse	PA	1.8m	PA	Vehicle Mount	Mouse
External antenna	Yes	1.0m	No	Vehicle Mount	Antenna Terminator
Audio	Yes	1.0m	No	Vehicle Mount	Unterminated
Serial	Yes	1.0m	No	Vehicle Mount	Unterminated
Serial	Yes	1.0m	No	Vehicle Mount	Unterminated
VGA	Yes	1.0m	No	Vehicle Mount	Unterminated
Microphone	Yes	1.0m	No	Vehicle Mount	Unterminated
Speaker	Yes	1.0m	No	Vehicle Mount	Headphones
Parallel	Yes	1.0m	No	Vehicle Mount	Unterminated

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

CONFIGURATION 2 SPTE0026**Software/Firmware Running during test**

Description	Version
Procomm Plus Terminal	4.8 Build 71

EUT

Description	Manufacturer	Model/Part Number	Serial Number
EUT	Itronix, Corp.	IX600-MC8765	359226000004984

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
Internal Antenna	Skycross	59-0479-001	Unknown
Host IX600 Notebook PC	Itronix, Corp.	IX-600	None
Host IX600 Notebook PC	Itronix, Corp.	IX-600	ZZGEG6072ZZ5515
AC Adapter	Delta Electronics	SADP-65KB D	92W0540003980
AC Adapter	Delta Electronics	SADP-65KB D	92W0540003970
Vehicle Mount	Itronix, Corp.	IX600 Vehicle Mount	None
Vehicle Mount Antenna	MaxRad	BMLPUDB800/1900	Unknown
CF Card Reader	Itronix, Corp.	SDDR-91	None
Mouse	Logitech	M-BE58	LZE02357693
Keyboard	Microsoft	E06401COMB	51061
Headphones	Unknown	None	None
Antenna Terminator	Unknown	None	None
USB Gamepad	Microsoft	X04-63237	00623744

Remote Equipment Outside of Test Setup Boundary

Description	Manufacturer	Model/Part Number	Serial Number
13.8 Vdc Power Supply	Radio Shack	Unknown	Unknown

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB	Yes	1.0m	No	Vehicle Mount	Unterminated
USB	Yes	1.0m	No	Vehicle Mount	CF Card Reader
USB	Yes	1.0m	No	Vehicle Mount	Unterminated
USB	Yes	1.6m	No	Vehicle Mount	USB Gamepad
Keyboard	PA	1.8m	PA	Vehicle Mount	Keyboard
Mouse	PA	1.8m	PA	Vehicle Mount	Mouse
External antenna	Yes	1.0m	No	Vehicle Mount	Antenna Terminator
External antenna	Yes	1.0m	No	Vehicle Mount	Vehicle Mount Antenna
Serial	Yes	1.0m	No	Vehicle Mount	Unterminated
Serial	Yes	1.0m	No	Vehicle Mount	Unterminated
VGA	Yes	1.0m	No	Vehicle Mount	Unterminated
Microphone	Yes	1.0m	No	Vehicle Mount	Unterminated
Speaker	Yes	1.0m	No	Vehicle Mount	Headphones
DC power leads	No	1.3m	No	Vehicle Mount	13.8 Vdc Power Supply
Parallel	Yes	1.0m	No	Vehicle Mount	Unterminated

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

CONFIGURATION 3 SPTE0026**Software/Firmware Running during test**

Description	Version
Procomm Plus Terminal	4.8 Build 71

EUT

Description	Manufacturer	Model/Part Number	Serial Number
EUT	Itronix, Corp.	IX600-MC8765	359226000004984

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
Internal Antenna	Skycross	59-0479-001	Unknown
Host IX600 Notebook PC	Itronix, Corp.	IX-600	None
Host IX600 Notebook PC	Itronix, Corp.	IX-600	ZZGEG6072ZZ5515
AC Adapter	Delta Electronics	SADP-65KB D	92W0540003980
AC Adapter	Delta Electronics	SADP-65KB D	92W0540003970
CF Card Reader	Itronix, Corp.	SDDR-91	None
Mouse	Logitech	M-BE58	LZE02357693
Headphones	Unknown	None	None

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power	No	1.8m	No	AC Adapter	AC Mains
USB	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated
USB	Yes	1.0m	No	Host IX600 Notebook PC	CF Card Reader
Serial	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated
Ethernet	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated
Modem	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated
Microphone	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated
Speaker	Yes	1.0m	No	Host IX600 Notebook PC	Headphones
VGA	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

CONFIGURATION 4 SPTE0026**Software/Firmware Running during test**

Description	Version
Procomm Plus Terminal	4.8 Build 71

EUT

Description	Manufacturer	Model/Part Number	Serial Number
EUT	Itronix, Corp.	IX600-MC8765	359226000004984

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
Internal Antenna	Skycross	59-0479-001	Unknown
Host IX600 Notebook PC	Itronix, Corp.	IX-600	None
AC Adapter	Delta Electronics	SADP-65KB D	92W0540003980
AC Adapter	Delta Electronics	SADP-65KB D	92W0540003970
CF Card Reader	Itronix, Corp.	SDDR-91	None
Mouse	Logitech	M-BE58	LZE02357693
Headphones	Unknown	None	None

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power	No	1.8m	No	AC Adapter	AC Mains
USB	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated
USB	Yes	1.0m	No	Host IX600 Notebook PC	CF Card Reader
Serial	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated
Ethernet	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated
Modem	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated
Microphone	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated
Speaker	Yes	1.0m	No	Host IX600 Notebook PC	Headphones
VGA	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated

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	6/1/2006	ERP/EIRP of Fundamental (Substitution Method)	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	6/5/2006	Spurious Emissions	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	6/6/2006	AC Powerline Conducted Emissions	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.
4	6/13/2006	ERP/EIRP of Fundamental (Substitution Method)	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.
5	6/16/2006	Field Strength of Spr Emi fm Unin Rad / Receive Mode of	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.
6	7/17/2006	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.

Receive Spurious 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.

MODES OF OPERATION

Receive mode. Cellular band high channel.
 Receive mode. Cellular band mid channel.
 Receive mode. Cellular band low channel.

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	5 GHz
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CLOCKS AND OSCILLATORS

Unknown

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	3/30/2006	13
EV01 cables c,g, h			EVA	3/30/2006	13
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	8/2/2005	13
Pre-Amplifier	Miteq	AM-1616-1000	AOL	1/4/2006	13
Antenna, Biconilog	EMCO	3141	AXE	12/28/2005	24
Antenna, Horn	EMCO	3115	AHC	8/30/2005	12
Spectrum Analyzer	Agilent	E4446A	AAT	4/4/2006	12

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.

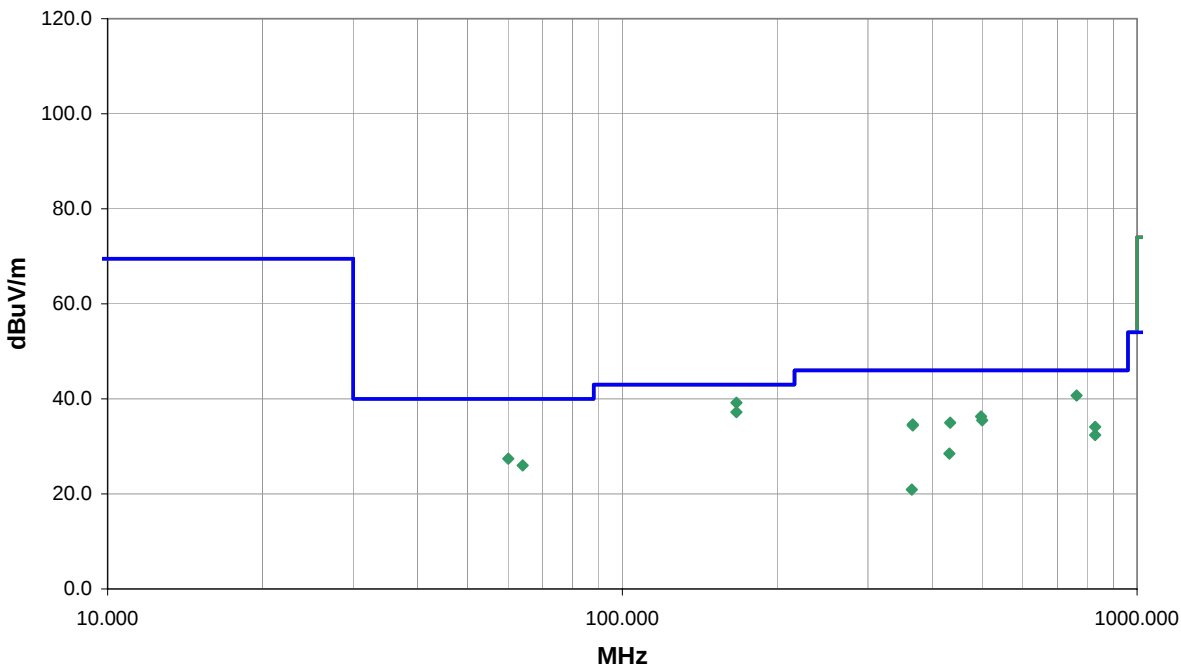
MEASUREMENT UNCERTAINTY

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 highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high receive channels. For this configuration, the spectrum was scanned throughout the specified range. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes. A preamp was used for this test in order to provide sufficient measurement sensitivity.

NORTHWEST		PSA 2006.05.30 EMI 2006.6.15	
EMC		Receive Spurious Emissions	
EUT: IX600-MC8765		Work Order: SPTE0026	
Serial Number: 359226000004984		Date: 06/16/06	
Customer: Spectrum Technology		Temperature: 23	
Attendees: None		Humidity: 41%	
Project: None		Barometric Pres.: 29.98	
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz	Job Site: EV01
TEST SPECIFICATIONS		Test Method	
FCC 15.109:2006		ANSI C63.4:2003	
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
COMMENTS			
Internal antenna. Notebook configuration.			
EUT OPERATING MODES			
Receive mode. Cellular band low channel			
DEVIATIONS FROM TEST STANDARD			
No deviations.			
Run #	37	<i>Holly Ashkannejhad</i> Signature	
Configuration #	3		
Results	Pass		
		NVLAP Lab Code 200630-0	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
166.639	44.4	-5.2	338.0	1.7	3.0	0.0	H-Bilog	QP	0.0	39.2	43.0	-3.8
762.967	31.4	9.3	149.0	1.2	3.0	0.0	V-Bilog	QP	0.0	40.7	46.0	-5.3
166.639	42.4	-5.2	172.0	1.0	3.0	0.0	V-Bilog	QP	0.0	37.2	43.0	-5.8
497.616	31.5	4.8	305.0	1.7	3.0	0.0	H-Bilog	QP	0.0	36.3	46.0	-9.7
500.006	30.7	4.8	56.0	1.0	3.0	0.0	V-Bilog	QP	0.0	35.5	46.0	-10.5
433.324	31.4	3.6	210.0	1.0	3.0	0.0	H-Bilog	QP	0.0	35.0	46.0	-11.0
366.657	32.4	2.2	31.0	1.7	3.0	0.0	V-Bilog	QP	0.0	34.6	46.0	-11.4
366.649	32.2	2.2	22.0	1.5	3.0	0.0	V-Bilog	QP	0.0	34.4	46.0	-11.6
829.293	23.9	10.2	95.0	1.9	3.0	0.0	V-Bilog	QP	0.0	34.1	46.0	-11.9
60.018	33.8	-6.4	360.0	3.1	3.0	0.0	V-Bilog	QP	0.0	27.4	40.0	-12.6
829.292	22.2	10.2	237.0	1.0	3.0	0.0	H-Bilog	QP	0.0	32.4	46.0	-13.6
64.010	32.8	-6.8	301.0	3.3	3.0	0.0	V-Bilog	QP	0.0	26.0	40.0	-14.0
432.021	24.9	3.6	226.0	1.5	3.0	0.0	V-Bilog	QP	0.0	28.5	46.0	-17.5
364.942	18.8	2.1	2.0	3.4	3.0	0.0	H-Bilog	QP	0.0	20.9	46.0	-25.1

NORTHWEST		Receive Spurious Emissions		PSA 2006.05.30								
EMC				EMI 2006.6.15								
EUT: IX600-MC8765			Work Order: SPTE0026									
Serial Number: 359226000004984			Date: 06/16/06									
Customer: Spectrum Technology			Temperature: 23									
Attendees: None			Humidity: 41%									
Project: None			Barometric Pres.: 29.98									
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz		Job Site: EV01								
TEST SPECIFICATIONS			Test Method									
FCC 15.109:2006			ANSI C63.4:2003									
TEST PARAMETERS												
Antenna Height(s) (m)		1 - 4		Test Distance (m)								
				3								
COMMENTS												
Internal antenna. Notebook configuration.												
EUT OPERATING MODES												
Receive mode. Cellular band low channel.												
DEVIATIONS FROM TEST STANDARD												
No deviations.												
Run #		38										
Configuration #		3										
Results		Pass		NVLAP Lab Code 200630-0 Signature <i>Holly Ashkannejhad</i>								
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2280.071	31.1	0.0	71.0	1.0	3.0	0.0	V-Horn	AV	0.0	31.1	54.0	-22.9
1595.320	31.6	-2.9	278.0	1.2	3.0	0.0	H-Horn	AV	0.0	28.7	54.0	-25.3
1030.980	33.4	-5.3	331.0	1.2	3.0	0.0	H-Horn	AV	0.0	28.1	54.0	-25.9
1592.390	51.0	-2.9	278.0	1.2	3.0	0.0	H-Horn	PK	0.0	48.1	74.0	-25.9
2280.056	27.8	0.0	277.0	1.2	3.0	0.0	H-Horn	AV	0.0	27.8	54.0	-26.2
1595.940	30.5	-2.9	347.0	1.1	3.0	0.0	V-Horn	AV	0.0	27.6	54.0	-26.4
2499.720	27.1	0.5	128.0	1.0	3.0	0.0	V-Horn	AV	0.0	27.6	54.0	-26.4
1030.960	32.4	-5.3	37.0	1.0	3.0	0.0	V-Horn	AV	0.0	27.1	54.0	-26.9
2488.080	26.1	0.5	149.0	1.2	3.0	0.0	H-Horn	AV	0.0	26.6	54.0	-27.4
1600.410	49.0	-2.9	347.0	1.1	3.0	0.0	V-Horn	PK	0.0	46.1	74.0	-27.9
2488.030	45.5	0.5	128.0	1.0	3.0	0.0	V-Horn	PK	0.0	46.0	74.0	-28.0
1107.442	30.4	-5.0	10.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.4	54.0	-28.6
1200.050	28.7	-4.5	203.0	1.0	3.0	0.0	V-Horn	AV	0.0	24.2	54.0	-29.8
1191.970	27.5	-4.5	-1.0	1.5	3.0	0.0	H-Horn	AV	0.0	23.0	54.0	-31.0
2495.600	42.4	0.5	149.0	1.2	3.0	0.0	H-Horn	PK	0.0	42.9	74.0	-31.1
2280.118	41.1	0.0	71.0	1.0	3.0	0.0	V-Horn	PK	0.0	41.1	74.0	-32.9
1028.470	46.2	-5.3	331.0	1.2	3.0	0.0	H-Horn	PK	0.0	40.9	74.0	-33.1
1107.446	25.2	-5.0	221.0	1.2	3.0	0.0	H-Horn	AV	0.0	20.2	54.0	-33.8
1033.210	45.4	-5.3	37.0	1.0	3.0	0.0	V-Horn	PK	0.0	40.1	74.0	-33.9
2279.819	39.3	0.0	277.0	1.2	3.0	0.0	H-Horn	PK	0.0	39.3	74.0	-34.7
1199.920	41.9	-4.5	203.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.4	74.0	-36.6

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
1107.265	40.7	-5.0	10.0	1.0	3.0	0.0	V-Horn	PK	0.0	35.7	74.0	-38.3
1198.890	39.0	-4.5	-1.0	1.5	3.0	0.0	H-Horn	PK	0.0	34.5	74.0	-39.5
1107.689	37.7	-5.0	221.0	1.2	3.0	0.0	H-Horn	PK	0.0	32.7	74.0	-41.3

NORTHWEST		Receive Spurious Emissions		PSA 2006.05.30									
EMC				EMI 2006.6.15									
EUT: IX600-MC8765			Work Order: SPTE0026										
Serial Number: 359226000004984			Date: 06/16/06										
Customer: Spectrum Technology			Temperature: 23										
Attendees: None			Humidity: 41%										
Project: None			Barometric Pres.: 29.98										
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz		Job Site: EV01									
TEST SPECIFICATIONS			Test Method										
FCC 15.109:2006			ANSI C63.4:2003										
TEST PARAMETERS													
Antenna Height(s) (m)		1 - 4		Test Distance (m)									
				3									
COMMENTS													
Internal antenna. Notebook configuration.													
EUT OPERATING MODES													
Receive mode. Cellular band mid channel.													
DEVIATIONS FROM TEST STANDARD													
No deviations.													
Run #		39		<i>Holly Ashkannejhad</i> Signature									
Configuration #		3											
Results		Pass											
NVLAP Lab Code 200630-0													
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Spec. (dB)	Compared to Spec. (dB)
2511.630	24.3	0.6	308.0	1.0	3.0	0.0	V-Horn	AV	0.0	24.9	54.0	-29.1	
2511.893	24.3	0.6	109.0	1.0	3.0	0.0	H-Horn	AV	0.0	24.9	54.0	-29.1	
1673.943	24.3	-2.5	26.0	1.0	3.0	0.0	H-Horn	AV	0.0	21.8	54.0	-32.2	
1673.979	24.2	-2.5	194.0	1.0	3.0	0.0	V-Horn	AV	0.0	21.7	54.0	-32.3	
2510.770	37.7	0.6	109.0	1.0	3.0	0.0	H-Horn	PK	0.0	38.3	74.0	-35.7	
2510.587	37.4	0.6	308.0	1.0	3.0	0.0	V-Horn	PK	0.0	38.0	74.0	-36.0	
1674.057	38.1	-2.5	194.0	1.0	3.0	0.0	V-Horn	PK	0.0	35.6	74.0	-38.4	
1674.105	37.5	-2.5	26.0	1.0	3.0	0.0	H-Horn	PK	0.0	35.0	74.0	-39.0	

NORTHWEST		Receive Spurious Emissions		PSA 2006.05.30								
EMC				EMI 2006.6.15								
EUT: IX600-MC8765			Work Order: SPTE0026									
Serial Number: 359226000004984			Date: 06/16/06									
Customer: Spectrum Technology			Temperature: 23									
Attendees: None			Humidity: 41%									
Project: None			Barometric Pres.: 29.98									
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz		Job Site: EV01								
TEST SPECIFICATIONS			Test Method									
FCC 15.109:2006			ANSI C63.4:2003									
TEST PARAMETERS												
Antenna Height(s) (m)		1 - 4		Test Distance (m)								
				3								
COMMENTS												
Internal antenna. Notebook configuration.												
EUT OPERATING MODES												
Receive mode. Cellular band high channel.												
DEVIATIONS FROM TEST STANDARD												
No deviations.												
Run #		40		Signature <i>Holly Ashkannejhad</i>								
Configuration #		3										
Results		Pass										
NVLAP Lab Code 200630-0												
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
1693.800	29.4	-2.3	52.0	1.0	3.0	0.0	V-Horn	AV	0.0	27.1	54.0	-26.9
2543.540	24.6	0.7	134.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.3	54.0	-28.7
2555.420	24.4	0.8	341.0	3.8	3.0	0.0	V-Horn	AV	0.0	25.2	54.0	-28.8
1693.740	24.8	-2.3	112.0	1.0	3.0	0.0	H-Horn	AV	0.0	22.5	54.0	-31.5
2544.470	38.1	0.8	341.0	3.8	3.0	0.0	V-Horn	PK	0.0	38.9	74.0	-35.1
2542.680	37.7	0.8	134.0	1.0	3.0	0.0	H-Horn	PK	0.0	38.5	74.0	-35.5
1693.920	40.6	-2.3	52.0	1.0	3.0	0.0	V-Horn	PK	0.0	38.3	74.0	-35.7
1695.680	37.4	-2.3	112.0	1.0	3.0	0.0	H-Horn	PK	0.0	35.1	74.0	-38.9

Receive Spurious 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.

MODES OF OPERATION

WCDMA PCS Band
WCDMA Cellular Band
EDGE PCS band.
EDGE Cellular band.
GSM PCS band.
GSM Cellular band.

CHANNELS INVESTIGATED

Low channel
Mid channel
High channel

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	26 GHz
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CLOCKS AND OSCILLATORS

Unknown

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	1/6/2005	24
Antenna, Dipole (ADAA included)	Roberts	Roberts	ADA	1/6/2005	24
Antenna, Horn	EMCO	3115	AHJ	5/20/2005	24
Signal Generator	Hewlett Packard	8341B	TGN	1/26/2006	13
High Pass Filter 1.2 - 18 GHz	Micro-Tronics	HPM50108	HfV	9/28/2005	13
High Pass Filter	Micro-Tronics	HPM50111	HFO	4/4/2006	13
EV01 cables c,g, h			EVA	3/30/2006	13
Pre-Amplifier	Miteq	AM-1616-1000	AOL	1/4/2006	13
Antenna, Biconilog	EMCO	3141	AXE	12/28/2005	24
EV01 cables g,h,j			EVb	3/30/2006	13
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	8/2/2005	13
Antenna, Horn	EMCO	3115	AHC	8/30/2005	12
EV01 cables g,h,i			EVF	4/17/2006	13
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APC	5/12/2006	13
Antenna, Horn	EMCO	3160-08	AHK	NCR	0
EV01 Cable D			EVD	3/30/2006	13
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	3/23/2006	13
Antenna, Horn	EMCO	3160-09	AHG	NCR	0

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 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 dipole antenna and its gain (dBi); the effective radiated power for each radiated spurious emission was determined.

NORTHWEST		PSA 2006.05.30 EMI 2006.6.2	
EMC		Out of Band Emissions	
EUT: IX600-MC8765		Work Order: SPTE0026	
Serial Number: 35922600004984		Date: 06/02/06	
Customer: Spectrum Technology		Temperature: 23	
Attendees: None		Humidity: 47%	
Project: None		Barometric Pres.: 29.98	
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz	Job Site: EV01
TEST SPECIFICATIONS		Test Method	
FCC 22H:2005		ANSI/TIA/EIA-603-B-2002	
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
COMMENTS			
External antenna terminated. Vehicle mount configuration.			
EUT OPERATING MODES			
GSM Cellular band, see comments for channel.			
DEVIATIONS FROM TEST STANDARD			
No deviations.			
Run #	9	<i>Holly Ashkannejhad</i> Signature	
Configuration #	1		
Results	Pass		
NVLAP Lab Code 200630-0			

Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5771.686			23.0	1.9			V-Horn	PK	2.43E-08	-46.1	-13.0	-33.1	Low channel
3395.552			101.0	1.0			V-Horn	PK	2.02E-08	-47.0	-13.0	-34.0	high channel
5942.219			71.0	2.5			H-Horn	PK	1.06E-08	-49.7	-13.0	-36.7	high channel
2473.611			317.0	1.0			V-Horn	PK	1.01E-08	-49.9	-13.0	-36.9	Low channel
5942.727			212.0	1.3			V-Horn	PK	9.70E-09	-50.1	-13.0	-37.1	high channel
2509.375			3.0	1.0			V-Horn	PK	9.12E-09	-50.4	-13.0	-37.4	Mid channel
2545.747			338.0	1.0			V-Horn	PK	6.84E-09	-51.6	-13.0	-38.6	high channel
5771.695			360.0	2.1			H-Horn	PK	6.38E-09	-51.9	-13.0	-38.9	Low channel
4119.186			80.0	1.3			V-Horn	PK	5.88E-09	-52.3	-13.0	-39.3	Low channel
4122.553			51.0	1.0			H-Horn	PK	4.75E-09	-53.2	-13.0	-40.2	Low channel
3395.583			353.0	3.5			H-Horn	PK	3.84E-09	-54.2	-13.0	-41.2	high channel
2547.972			360.0	2.3			H-Horn	PK	2.91E-09	-55.4	-13.0	-42.4	high channel
4182.206			75.0	1.5			V-Horn	PK	2.82E-09	-55.5	-13.0	-42.5	Mid channel
3347.434			42.0	1.3			V-Horn	PK	2.57E-09	-55.9	-13.0	-42.9	Mid channel
2508.366			231.0	1.0			H-Horn	PK	1.85E-09	-57.3	-13.0	-44.3	Mid channel
2473.311			201.0	1.0			H-Horn	PK	1.45E-09	-58.4	-13.0	-45.4	Low channel
4182.973			360.0	1.9			H-Horn	PK	1.21E-09	-59.2	-13.0	-46.2	Mid channel
3347.392			360.0	1.9			H-Horn	PK	8.66E-10	-60.6	-13.0	-47.6	Mid channel

NORTHWEST		PSA 2006.05.30 EMI 2006.6.2	
EMC		Out of Band Emissions	
EUT: IX600-MC8765		Work Order: SPTE0026	
Serial Number: 359226000004984		Date: 06/02/06	
Customer: Spectrum Technology		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:2005		ANSI/TIA/EIA-603-B-2002	
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
COMMENTS			
External antenna terminated. Vehicle mount configuration.			
EUT OPERATING MODES			
Edge Cellular band, see comments for channel			
DEVIATIONS FROM TEST STANDARD			
No deviations.			
Run #	10	<i>Holly Ashkannejhad</i> Signature	
Configuration #	1		
Results	Pass		
NVLAP Lab Code 200630-0			

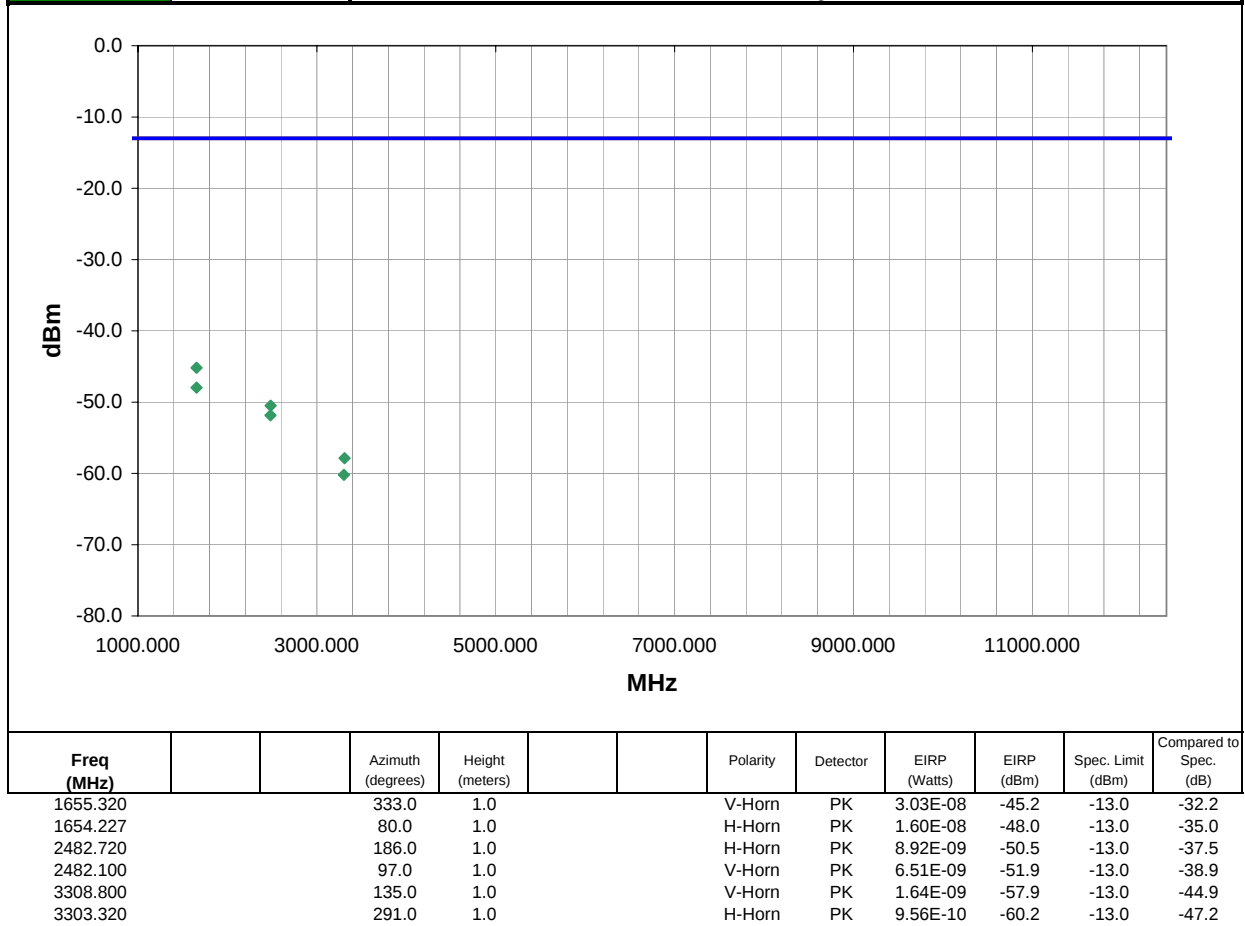
Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
3394.909			103.0	1.0			V-Horn	PK	1.14E-08	-49.4	-13.0	-36.4	High channel
5942.763			68.0	1.3			V-Horn	PK	9.47E-09	-50.2	-13.0	-37.2	High channel
5769.737			126.0	1.6			H-Horn	PK	9.01E-09	-50.5	-13.0	-37.5	Low Channel
5942.031			310.0	1.0			H-Horn	PK	5.71E-09	-52.4	-13.0	-39.4	High channel
4121.235			126.0	2.4			V-Horn	PK	5.62E-09	-52.5	-13.0	-39.5	Low Channel
2510.745			360.0	1.0			V-Horn	PK	4.07E-09	-53.9	-13.0	-40.9	Mid Channel
5769.685			210.0	1.9			V-Horn	PK	3.94E-09	-54.0	-13.0	-41.0	Low Channel
4120.787			85.0	2.2			H-Horn	PK	3.77E-09	-54.2	-13.0	-41.2	Low Channel
2473.995			326.0	1.0			V-Horn	PK	3.76E-09	-54.2	-13.0	-41.2	Low Channel
3396.042			312.0	1.0			H-Horn	PK	2.21E-09	-56.6	-13.0	-43.6	High channel
4184.771			48.0	2.4			V-Horn	PK	2.14E-09	-56.7	-13.0	-43.7	Mid Channel
2548.690			19.0	1.0			H-Horn	PK	2.01E-09	-57.0	-13.0	-44.0	High channel
2546.624			178.0	1.5			V-Horn	PK	1.76E-09	-57.6	-13.0	-44.6	High channel
3346.585			44.0	1.7			V-Horn	PK	1.55E-09	-58.1	-13.0	-45.1	Mid Channel
4186.014			360.0	2.0			H-Horn	PK	1.36E-09	-58.7	-13.0	-45.7	Mid Channel
3347.312			75.0	1.0			H-Horn	PK	1.31E-09	-58.8	-13.0	-45.8	Mid Channel
2473.366			297.0	1.0			H-Horn	PK	1.29E-09	-58.9	-13.0	-45.9	Low Channel
2511.294			-1.0	1.4			H-Horn	PK	1.14E-09	-59.4	-13.0	-46.4	Mid Channel

NORTHWEST		Out of Band Emissions		PSA 2006.05.30 EMI 2006.7.11								
EMC												
EUT: IX600-MC8765		Work Order: SPTE0026										
Serial Number: 35922600004984		Date: 07/17/06										
Customer: Spectrum Technology		Temperature: 24										
Attendees: Rod Munro		Humidity: 37%										
Project: None		Barometric Pres.: 30.29										
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz		Job Site: EV01								
TEST SPECIFICATIONS		Test Method										
FCC 22H:2005		ANSI/TIA/EIA-603-B-2002										
TEST PARAMETERS												
Antenna Height(s) (m)		1 - 4		Test Distance (m) 3								
COMMENTS												
Internal antenna. Notebook configuration.												
EUT OPERATING MODES												
Transmit mode. GSM modulation, Cellular band, see comments for channel.												
DEVIATIONS FROM TEST STANDARD												
No deviations.												
Run #	42	Signature <i>Holly Ashkannejhad</i> NVLAP Lab Code 200630-0										
Configuration #	4											
Results	Pass											
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
2546.210			123.0	1.0		H-Horn	PK	1.03E-07	-39.9	-13.0	-26.9	Laptop lid horizontal, High channel
1646.293			3.0	1.1		V-Horn	PK	9.61E-08	-40.2	-13.0	-27.2	Laptop on side, Low channel
1672.906			99.0	1.0		V-Horn	PK	7.56E-08	-41.2	-13.0	-28.2	Laptop on side, Mid channel
2546.010			135.0	1.3		V-Horn	PK	6.84E-08	-41.6	-13.0	-28.6	Laptop on side, High channel
2472.402			330.0	1.0		V-Horn	PK	5.19E-08	-42.8	-13.0	-29.8	Laptop on side, Low channel
2473.248			0.0	1.1		V-Horn	PK	5.19E-08	-42.8	-13.0	-29.8	Laptop lid horizontal, Low channel
2473.252			106.0	1.0		H-Horn	PK	5.03E-08	-43.0	-13.0	-30.0	Laptop normal position, Low channel
2472.612			290.0	1.0		H-Horn	PK	4.80E-08	-43.2	-13.0	-30.2	Laptop lid horizontal, Low channel
2511.196			356.0	1.0		V-Horn	PK	4.26E-08	-43.7	-13.0	-30.7	Laptop on side, Mid channel
2510.856			320.0	1.3		H-Horn	PK	3.78E-08	-44.2	-13.0	-31.2	Laptop lid horizontal, Mid channel
2474.688			342.0	1.0		V-Horn	PK	3.59E-08	-44.5	-13.0	-31.5	Laptop normal position, Low channel
2471.965			252.0	1.6		H-Horn	PK	3.40E-08	-44.7	-13.0	-31.7	Laptop on side, Low channel
1646.917			335.0	1.0		H-Horn	PK	2.91E-08	-45.4	-13.0	-32.4	Laptop on side, Low channel
1647.577			8.0	1.0		H-Horn	PK	2.91E-08	-45.4	-13.0	-32.4	Laptop lid horizontal, Low channel
1648.653			323.0	1.1		V-Horn	PK	2.47E-08	-46.1	-13.0	-33.1	Laptop normal position, Low channel
1673.666			280.0	1.0		H-Horn	PK	2.35E-08	-46.3	-13.0	-33.3	Laptop lid horizontal, Mid channel
1646.450			247.0	1.2		H-Horn	PK	1.39E-08	-48.6	-13.0	-35.6	Laptop lid horizontal, Low channel
1648.563			86.0	1.4		H-Horn	PK	1.21E-08	-49.2	-13.0	-36.2	Laptop normal position, Low channel
1698.461			155.0	1.3		V-Horn	PK	1.11E-08	-49.6	-13.0	-36.6	Laptop on side, High channel
3346.393			321.0	1.0		H-Horn	PK	9.94E-09	-50.0	-13.0	-37.0	Laptop lid horizontal, Mid channel

NORTHWEST		PSA 2006.05.30 EMI 2006.7.11	
EMC Out of Band Emissions			
EUT: IX600-MC8765		Work Order: SPTE0026	
Serial Number: 35922600004984		Date: 07/17/06	
Customer: Spectrum Technology		Temperature: 24	
Attendees: Rod Munro		Humidity: 37%	
Project: None		Barometric Pres.: 30.29	
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz	
		Job Site: EV01	
TEST SPECIFICATIONS		Test Method	
FCC 22H:2005		ANSI/TIA/EIA-603-B-2002	
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
COMMENTS			
Internal antenna. Notebook configuration.			
EUT OPERATING MODES			
Transmit mode. Edge modulation, cellular band, see comments for channel.			
DEVIATIONS FROM TEST STANDARD			
No deviations.			
Run #	43	<i>Holly Ashkannejhad</i> Signature	
Configuration #	4		
Results	Pass		
		NVLAP Lab Code 200630-0	

Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
2546.353			288.0	1.0		H-Horn	PK	1.08E-07	-39.7	-13.0	-26.7	Laptop lid horizontal, high channel
1648.053			360.0	1.6		V-Horn	PK	6.80E-08	-41.7	-13.0	-28.7	Laptop lid horizontal, low channel
2546.260			62.0	1.0		V-Horn	PK	5.56E-08	-42.5	-13.0	-29.5	Laptop normal position, high channel
1672.326			32.0	1.6		V-Horn	PK	3.54E-08	-44.5	-13.0	-31.5	Laptop on side, mid channel
2509.603			87.0	1.0		H-Horn	PK	3.45E-08	-44.6	-13.0	-31.6	Laptop lid horizontal, mid channel
2474.025			58.0	1.2		H-Horn	PK	2.24E-08	-46.5	-13.0	-33.5	Laptop lid horizontal, low channel
2472.535			349.0	1.0		V-Horn	PK	1.16E-08	-49.3	-13.0	-36.3	Laptop lid horizontal, low channel
2512.243			216.0	1.9		V-Horn	PK	1.12E-08	-49.5	-13.0	-36.5	Laptop on side, mid channel
1648.203			241.0	1.0		H-Horn	PK	1.01E-08	-50.0	-13.0	-37.0	Laptop lid horizontal, low channel
1675.446			249.0	1.0		H-Horn	PK	8.73E-09	-50.6	-13.0	-37.6	Laptop lid horizontal, mid channel
3395.352			187.0	1.0		V-Horn	PK	8.22E-09	-50.9	-13.0	-37.9	Laptop on side, high channel
1698.381			58.0	1.3		V-Horn	PK	5.81E-09	-52.4	-13.0	-39.4	Laptop on side, high channel
3395.585			52.0	1.0		H-Horn	PK	5.18E-09	-52.9	-13.0	-39.9	Laptop lid horizontal, high channel
1696.327			220.0	1.4		H-Horn	PK	1.86E-09	-57.3	-13.0	-44.3	Laptop lid horizontal, high channel

NORTHWEST		PSA 2006.05.30 EMI 2006.6.2	
EMC		Out of Band Emissions	
EUT: IX600-MC8765		Work Order: SPTE0026	
Serial Number: 359226000004984		Date: 06/08/06	
Customer: Spectrum Technology		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:2005		ANSI/TIA/EIA-603-B-2002	
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0
COMMENTS			
Internal antenna.			
EUT OPERATING MODES			
WCDMA Cellular band low channel			
DEVIATIONS FROM TEST STANDARD			
No deviations.			
Run #	17	<i>Holly Ashkannejhad</i> Signature	
Configuration #	3		
Results	Pass		
		NVLAP Lab Code 200630-0	



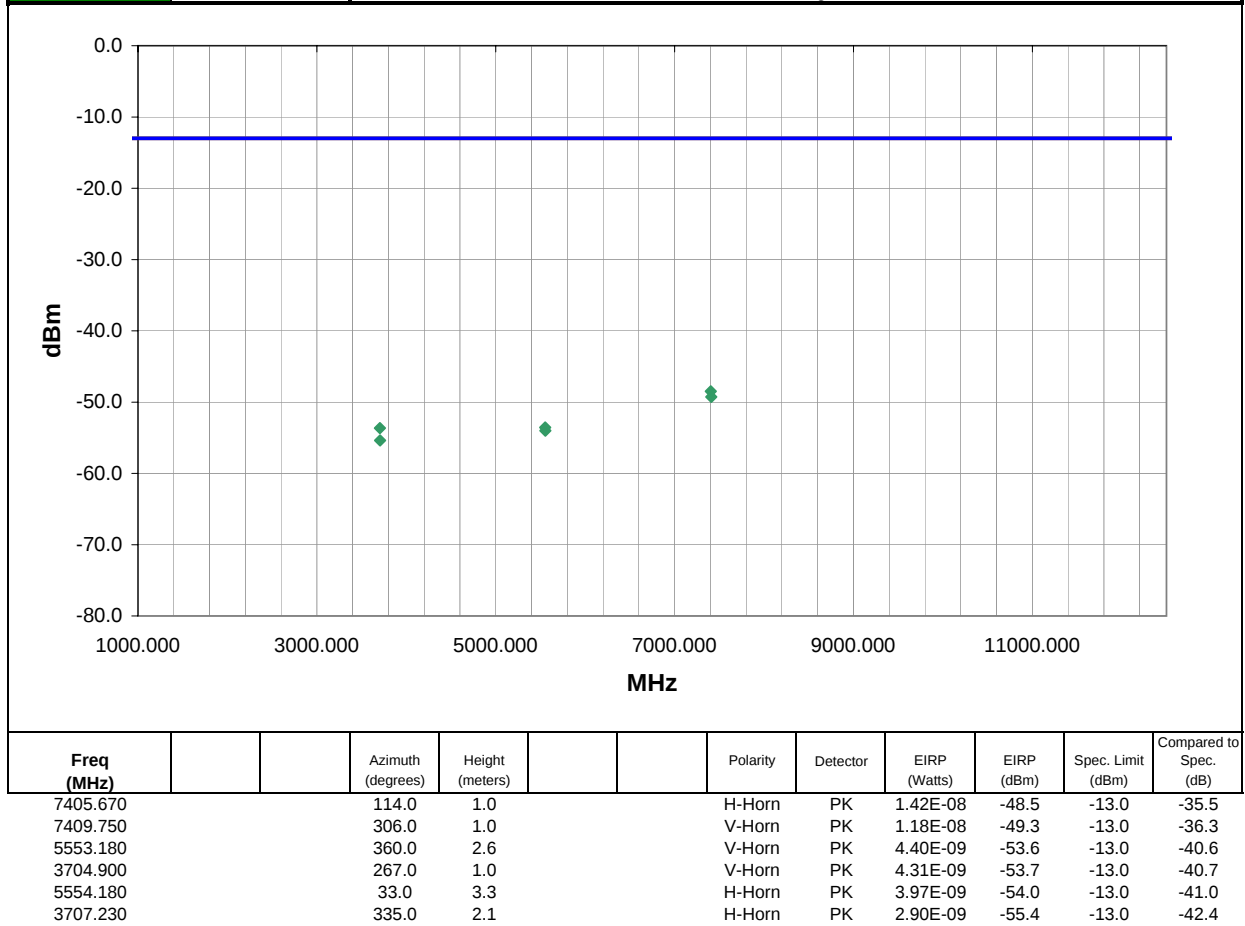
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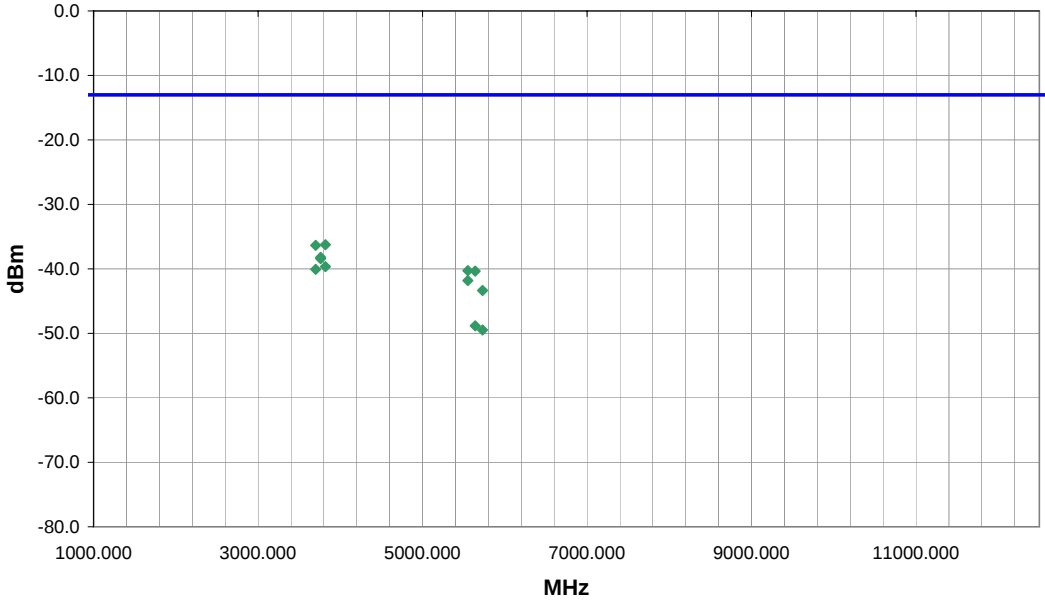
NORTHWEST		Out of Band Emissions		PSA 2006.05.30																																																													
EMC				EMI 2006.6.15																																																													
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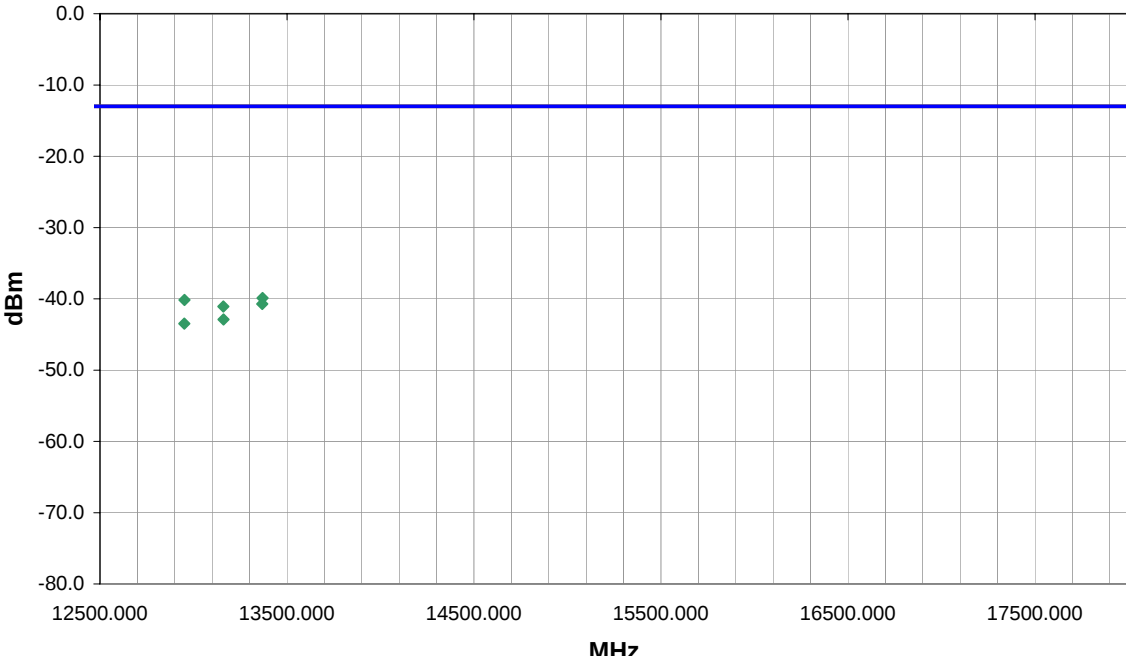
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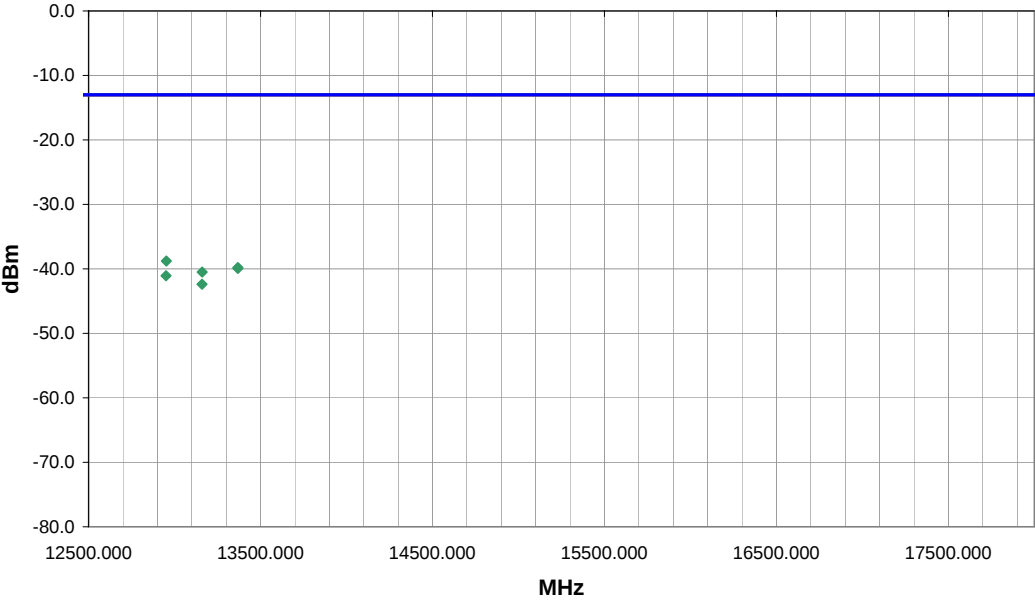
NORTHWEST		PSA 2006.05.30	
EMC		Out of Band Emissions	
EMI 2006.6.15			
EUT: IX600-MC8765		Work Order: SPTE0026	
Serial Number: 359226000004984		Date: 06/15/06	
Customer: Spectrum Technology		Temperature: 23	
Attendees: Rod Munro		Humidity: 47%	
Project: None		Barometric Pres.: 29.98	
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz	Job Site: EV01
TEST SPECIFICATIONS		Test Method	
FCC 24E:2005		ANSI/TIA/EIA-603-B-2002	
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
COMMENTS			
External antenna. Vehicle mount configuration.			
EUT OPERATING MODES			
WCDMA PCS band low channel			
DEVIATIONS FROM TEST STANDARD			
No deviations.			
Run #	34	NVLAP Lab Code 200630-0 Signature <i>Holly Ashkannejhad</i>	
Configuration #	2		
Results	Pass		



NORTHWEST		Out of Band Emissions		PSA 2006.05.30 EMI 2006.6.2						
EMC										
EUT:	IX600-MC8765			Work Order:	SPT0026					
Serial Number:	35922600004984			Date:	06/05/06					
Customer:	Spectrum Technology			Temperature:	23					
Attendees:	None			Humidity:	43%					
Project:	None			Barometric Pres.:	30.02					
Tested by:	Rod Peloquin	Power:	120VAC/60Hz	Job Site:	EV01					
TEST SPECIFICATIONS		Test Method								
FCC 24E:2005		ANSI/TIA/EIA-603-B-2002								
TEST PARAMETERS										
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0							
COMMENTS										
External antenna terminated. Vehicle mount configuration.										
EUT OPERATING MODES										
GSM PCS band. See comments for channel.										
DEVIATIONS FROM TEST STANDARD										
No deviations.										
Run #	11	 Signature								
Configuration #	1									
Results	Pass									
dBm 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 -80.0 1000.000 3000.000 5000.000 7000.000 9000.000 11000.000 MHz										
Freq (MHz)		Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
3819.501		84.0	1.2	V-Horn	PK	1.92E-07	-37.2	-13.0	-24.2	High Channel
3700.345		70.0	1.0	V-Horn	PK	1.76E-07	-37.5	-13.0	-24.5	Low Channel
3759.998		54.0	2.4	H-Horn	PK	1.41E-07	-38.5	-13.0	-25.5	Mid Channel
3760.148		37.0	1.0	V-Horn	PK	1.32E-07	-38.8	-13.0	-25.8	Mid Channel
3819.751		21.0	1.0	H-Horn	PK	7.17E-08	-41.4	-13.0	-28.4	High Channel
5729.679		78.0	1.4	V-Horn	PK	6.09E-08	-42.2	-13.0	-29.2	High Channel
5640.298		72.0	1.0	V-Horn	PK	5.42E-08	-42.7	-13.0	-29.7	Mid Channel
5550.923		53.0	1.0	V-Horn	PK	4.50E-08	-43.5	-13.0	-30.5	Low Channel
3700.315		124.0	1.0	H-Horn	PK	4.30E-08	-43.7	-13.0	-30.7	Low Channel
5729.612		38.0	1.5	H-Horn	PK	2.30E-08	-46.4	-13.0	-33.4	High Channel
5550.990		317.0	1.0	H-Horn	PK	1.66E-08	-47.8	-13.0	-34.8	Low Channel
5640.368		128.0	1.0	H-Horn	PK	1.37E-08	-48.6	-13.0	-35.6	Mid Channel

NORTHWEST		Out of Band Emissions		PSA 2006.05.30 EMI 2006.6.2																																																																																																																																			
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Tested by:	Rod Peloquin	Power:	120VAC/60Hz	Job Site:	EV01																																																																																																																																		
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Antenna Height(s) (m)	1 - 4	Test Distance (m)	0																																																																																																																																				
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Run #	12	 Signature																																																																																																																																					
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Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments																																																																																																																														
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NORTHWEST		Out of Band Emissions		PSA 2006.05.30 EMI 2006.6.2							
EUT: IX600-MC8765		Work Order: SPTE0026									
Serial Number: 359226000004984		Date: 06/05/06									
Customer: Spectrum Technology		Temperature: 23									
Attendees: None		Humidity: 43%									
Project: None		Barometric Pres.: 30.02									
Tested by: Rod Peloquin		Power: 120VAC/60Hz		Job Site: EV01							
TEST SPECIFICATIONS		Test Method									
FCC 24E:2005		ANSI/TIA/EIA-603-B-2002									
TEST PARAMETERS											
Antenna Height(s) (m)		1 - 4		Test Distance (m) 0							
COMMENTS											
External antenna terminated. Vehicle mount configuration.											
EUT OPERATING MODES											
GSM PCS band, low channel											
DEVIATIONS FROM TEST STANDARD											
No deviations.											
Run #	13	 Signature									
Configuration #	1										
Results	Pass										
NVLAP Lab Code 200630-0											
											
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
13368.940			61.0	1.1		V-Horn	PK	1.03E-07	-39.9	-13.0	-26.9
12951.750			322.0	2.2		H-Horn	PK	9.65E-08	-40.2	-13.0	-27.2
13367.670			212.0	1.5		H-Horn	PK	8.47E-08	-40.7	-13.0	-27.7
13159.940			130.0	1.1		V-Horn	PK	7.78E-08	-41.1	-13.0	-28.1
13160.370			25.0	1.2		H-Horn	PK	5.14E-08	-42.9	-13.0	-29.9
12950.720			162.0	1.4		V-Horn	PK	4.48E-08	-43.5	-13.0	-30.5

NORTHWEST		Out of Band Emissions		PSA 2006.05.30																																																																							
EMC				EMI 2006.6.2																																																																							
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NVLAP Lab Code 200630-0																																																																											
																																																																											
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NORTHWEST EMC		Out of Band Emissions		PSA 2006.05.30 EMI 2006.6.2																																																																																																																																																																																																																																																																																		
EUT: IX600-MC8765			Work Order: SPTE0026																																																																																																																																																																																																																																																																																			
Serial Number: 35922600004984			Date: 06/05/06																																																																																																																																																																																																																																																																																			
Customer: Spectrum Technology			Temperature: 23																																																																																																																																																																																																																																																																																			
Attendees: None			Humidity: 47%																																																																																																																																																																																																																																																																																			
Project: None			Barometric Pres.: 29.98																																																																																																																																																																																																																																																																																			
Tested by: Rod Peloquin		Power: 120VAC/60Hz		Job Site: EV01																																																																																																																																																																																																																																																																																		
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(dB)	Comments	3700.338			-1.0	1.0		V-Horn	PK	3.85E-07	-34.1	-13.0	-21.1	Low Channel, EUT on Side	3760.051			299.0	1.0		H-Horn	PK	2.13E-07	-36.7	-13.0	-23.7	Mid channel, Lid horizontal	5550.870			10.0	1.2		V-Horn	PK	1.92E-07	-37.2	-13.0	-24.2	Low Channel, EUT on Side	5550.773			318.0	1.0		H-Horn	PK	1.77E-07	-37.5	-13.0	-24.5	Low Channel, Lid horizontal	5729.142			189.0	1.2		V-Horn	PK	1.64E-07	-37.9	-13.0	-24.9	High Channel, EUT on Side	3700.548			330.0	1.1		H-Horn	PK	1.52E-07	-38.2	-13.0	-25.2	Low Channel, Lid horizontal	3819.524			1.0	1.0		V-Horn	PK	1.43E-07	-38.5	-13.0	-25.5	High Channel, EUT on Side	5550.863			131.0	1.0		V-Horn	PK	1.13E-07	-39.5	-13.0	-26.5	Low Channel, EUT horizontal	5550.737			12.0	1.0		V-Horn	PK	1.08E-07	-39.7	-13.0	-26.7	Low Channel, Lid horizontal	5729.589			58.0	1.6		H-Horn	PK	1.08E-07	-39.7	-13.0	-26.7	High channel, Lid horizontal	5550.780			321.0	1.0		H-Horn	PK	1.07E-07	-39.7	-13.0	-26.7	Low Channel, EUT on Side	3700.385			153.0	1.0		V-Horn	PK	1.06E-07	-39.7	-13.0	-26.7	Low Channel, EUT horizontal	3760.015			13.0	1.0		V-Horn	PK	9.99E-08	-40.0	-13.0	-27.0	Mid Channel, EUT on Side	5550.557			223.0	1.0		H-Horn	PK	9.53E-08	-40.2	-13.0	-27.2	Low Channel, EUT horizontal	5640.225			308.0	1.0		V-Horn	PK	9.42E-08	-40.3	-13.0	-27.3	Mid Channel, EUT on Side	3700.488			325.0	1.1		H-Horn	PK	8.00E-08	-41.0	-13.0	-28.0	Low Channel, EUT on Side	3700.262			19.0	1.1		H-Horn	PK	7.64E-08	-41.2	-13.0	-28.2	Low Channel, EUT horizontal	5640.748			324.0	1.0		H-Horn	PK	7.51E-08	-41.2	-13.0	-28.2	Mid channel, Lid horizontal	3819.641			146.0	1.0		H-Horn	PK	7.33E-08	-41.3	-13.0	-28.3	High channel, Lid horizontal	3700.452			94.0	1.0		V-Horn	PK	4.32E-08	-43.6	-13.0	-30.6	Low Channel, Lid horizontal
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments																																																																																																																																																																																																																																																																										
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NORTHWEST

PSA 2006.05.30

EMI 2006.6.2

EMC

Out of Band Emissions

EUT: IX600-MC8765

Serial Number: 35922600004984

Customer: Spectrum Technology

Attendees: None

Project: None

Tested by: Holly Ashkannejhad

Power: 120VAC/60Hz

Work Order: SPT0026

Date: 06/05/06

Temperature: 23

Humidity: 47%

Barometric Pres.: 29.98

Job Site: EV01

TEST SPECIFICATIONS

FCC 24E:2005

Test Method

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 PCS band. See comments for channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #16

Configuration #3

ResultsPass

NVLAP Lab Code 200630-0

SignatureHolly Ashkannejhad

0.0

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

-70.0

-80.0

1000.000

3000.000

5000.000

7000.000

9000.000

11000.000

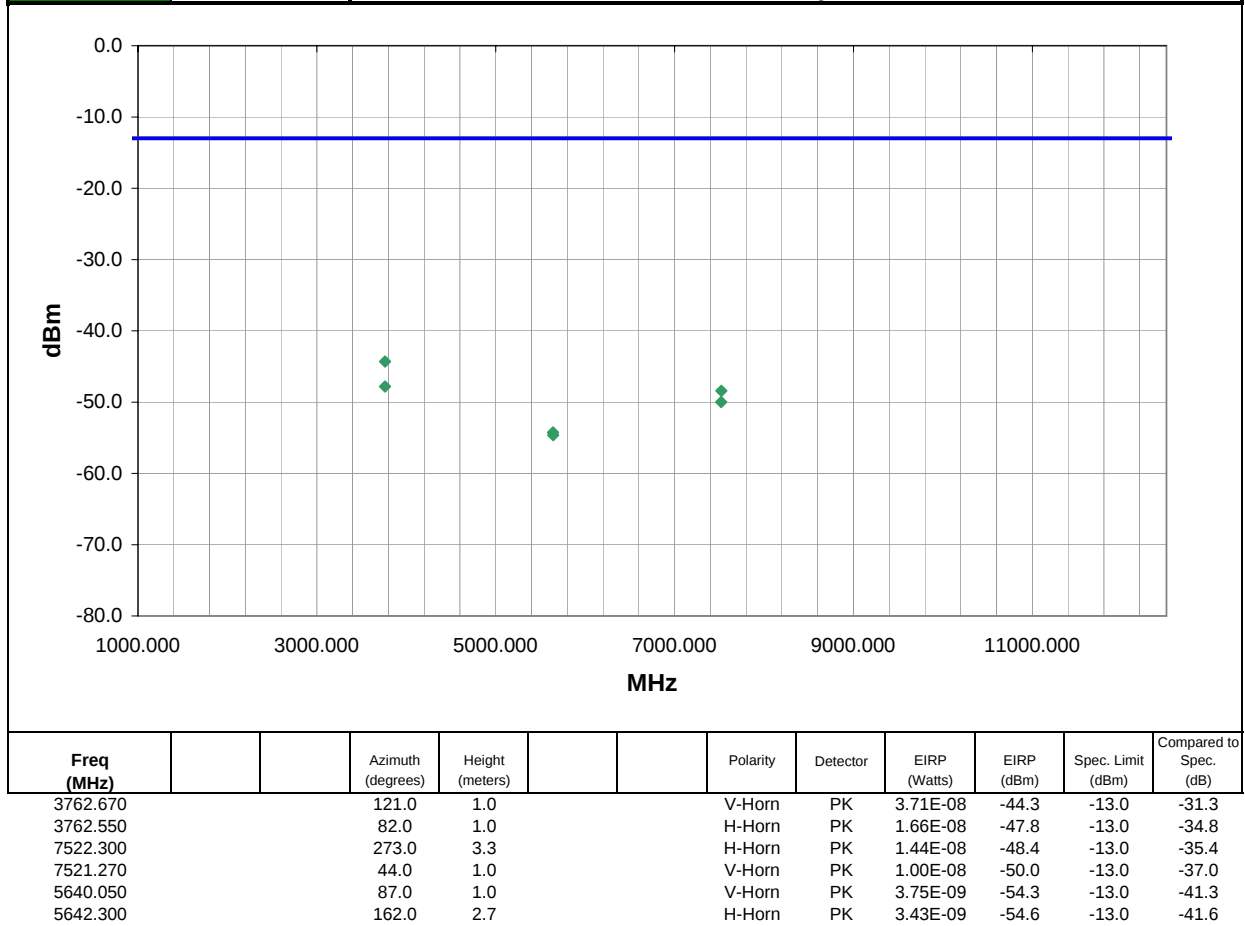
dBm

MHz

Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5550.693			309.0	1.4			V-Horn	PK	2.06E-07	-36.9	-13.0	-23.9	Low channel, EUT on side
3820.184			321.0	1.0			H-Horn	PK	2.02E-07	-36.9	-13.0	-23.9	High channel, lid horizontal
3760.015			309.0	1.0			H-Horn	PK	1.86E-07	-37.3	-13.0	-24.3	Mid channel, lid horizontal
3700.362			326.0	1.7			H-Horn	PK	1.75E-07	-37.6	-13.0	-24.6	Low channel, Lid horizontal
5550.707			317.0	1.0			H-Horn	PK	1.69E-07	-37.7	-13.0	-24.7	Low channel, Lid horizontal
3700.435			14.0	1.0			V-Horn	PK	1.50E-07	-38.2	-13.0	-25.2	Low channel, EUT on side
5640.188			314.0	1.4			V-Horn	PK	1.19E-07	-39.3	-13.0	-26.3	Mid channel, EUT on side
3819.657			74.0	1.0			V-Horn	PK	1.06E-07	-39.8	-13.0	-26.8	High channel, EUT on side
5640.545			334.0	1.0			H-Horn	PK	9.45E-08	-40.2	-13.0	-27.2	Mid channel, lid horizontal
5729.209			66.0	1.5			H-Horn	PK	7.80E-08	-41.1	-13.0	-28.1	High channel, lid horizontal
3760.005			315.0	2.2			V-Horn	PK	4.89E-08	-43.1	-13.0	-30.1	Mid channel, EUT on side
5729.532			299.0	1.4			V-Horn	PK	3.84E-08	-44.2	-13.0	-31.2	High channel, EUT on side

NORTHWEST		Out of Band Emissions		PSA 2006.05.30																																																																																					
EMC				EMI 2006.6.2																																																																																					
EUT: IX600-MC8765			Work Order: SPTE0026																																																																																						
Serial Number: 359226000004984			Date: 06/08/06																																																																																						
Customer: Spectrum Technology			Temperature: 23																																																																																						
Attendees: Rod Munro			Humidity: 47%																																																																																						
Project: None			Barometric Pres.: 29.98																																																																																						
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz		Job Site: EV01																																																																																					
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TEST PARAMETERS																																																																																									
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NVLAP Lab Code 200630-0																																																																																									
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NORTHWEST		Out of Band Emissions		PSA 2006.05.30 EMI 2006.6.2	
EMC					
EUT: IX600-MC8765		Work Order: SPTE0026			
Serial Number: 359226000004984		Date: 06/08/06			
Customer: Spectrum Technology		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:2005		ANSI/TIA/EIA-603-B-2002			
TEST PARAMETERS					
Antenna Height(s) (m)		1 - 4		Test Distance (m) 0	
COMMENTS					
Internal antenna.					
EUT OPERATING MODES					
WCDMA PCS band low channel					
DEVIATIONS FROM TEST STANDARD					
No deviations.					
Run #	22	<i>Holly Ashkannejhad</i> Signature			
Configuration #	3				
Results	Pass				
NVLAP Lab Code 200630-0					



EMC

Out of Band Emissions

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	359226000004984	Date:	06/09/06
Customer:	Spectrum Technology	Temperature:	23
Attendees:	Rod Munro	Humidity:	47%
Project:	None	Barometric Pres.:	29.98
Tested by:	Rod Pelquoin	Power:	120VAC/60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Test Method

FCC 24E:2005

ANSI/TIA/EIA-603-B-2002

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

Internal antenna

EUT OPERATING MODES

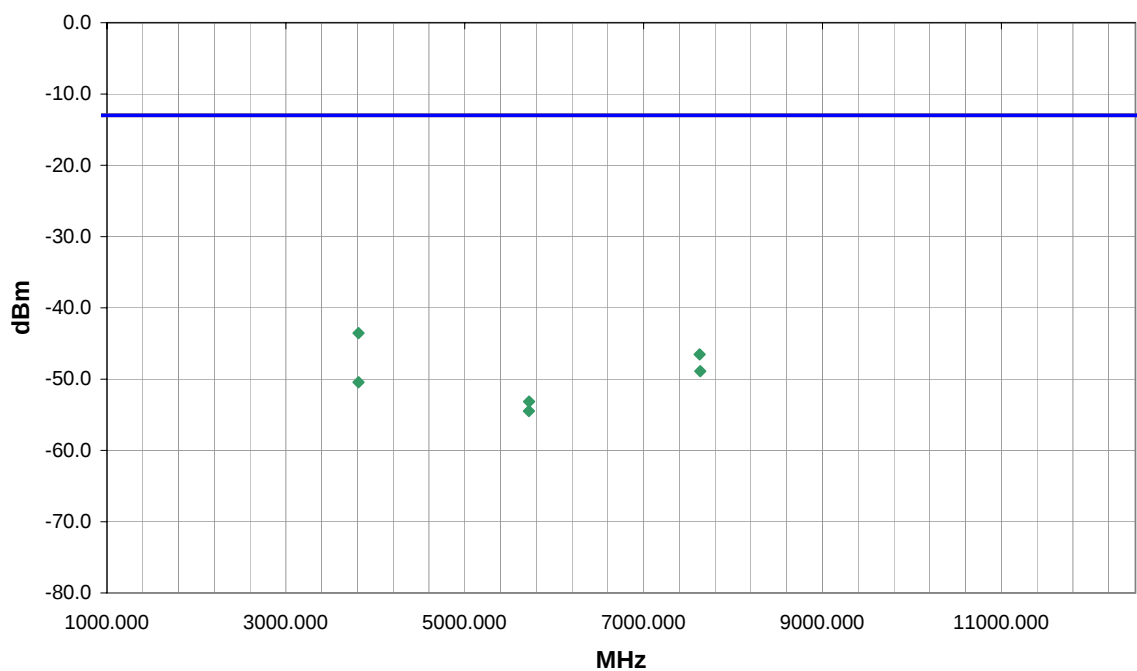
WCDMA PCS band high channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	23	Signature <i>Holly Anting</i>
Configuration #	3	
Results	Pass	

NVLAP Lab Code 200630-0



Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
3812.440			117.0	1.1		V-Horn	PK	4.41E-08	-43.6	-13.0	-30.6
7626.040			126.0	1.2		H-Horn	PK	2.22E-08	-46.5	-13.0	-33.5
7633.090			-1.0	1.1		V-Horn	PK	1.29E-08	-48.9	-13.0	-35.9
3812.150			54.0	1.2		H-Horn	PK	9.03E-09	-50.4	-13.0	-37.4
5719.570			360.0	2.1		V-Horn	PK	4.84E-09	-53.2	-13.0	-40.2
5717.490			99.0	1.2		H-Horn	PK	3.56E-09	-54.5	-13.0	-41.5

NORTHWEST		Out of Band Emissions		PSA 2006.05.30																																																																																					
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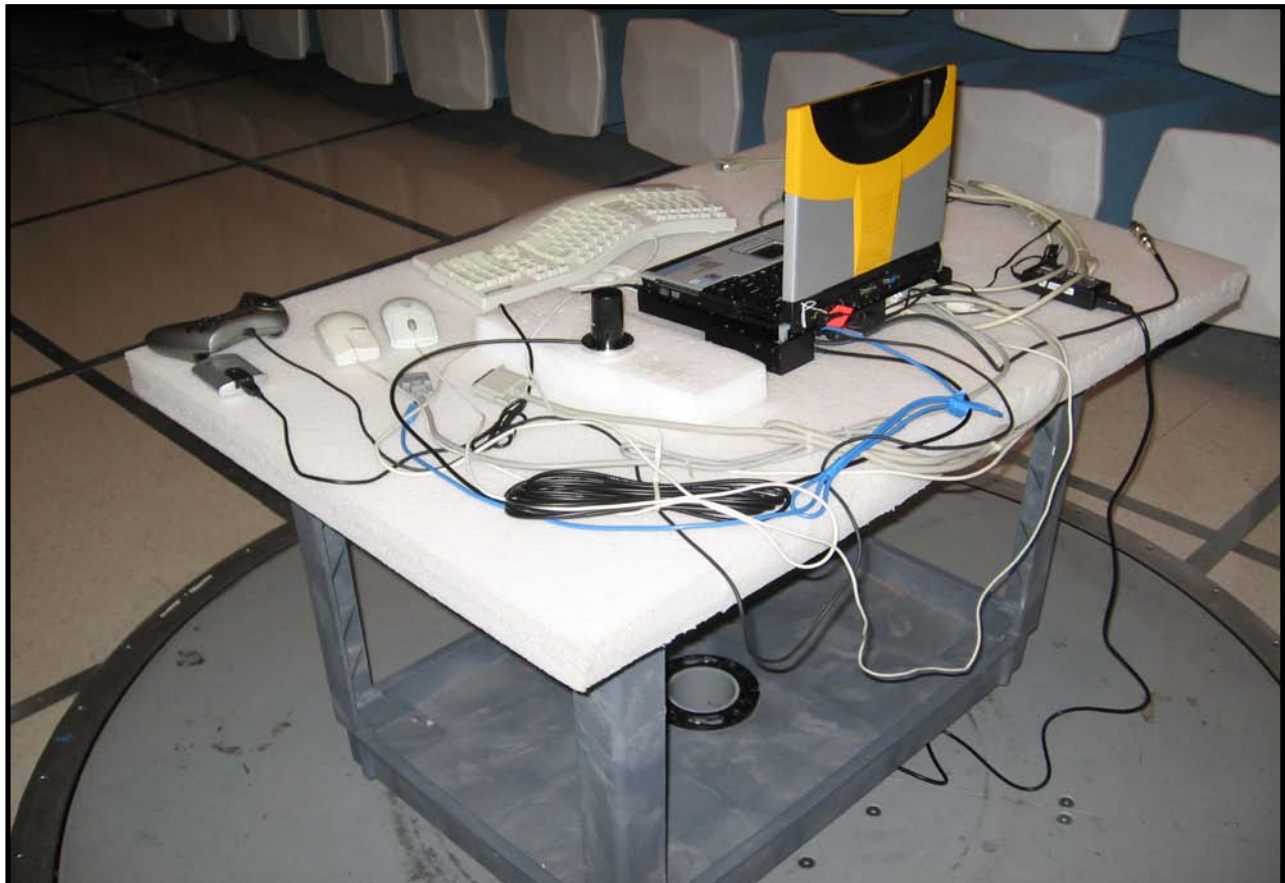
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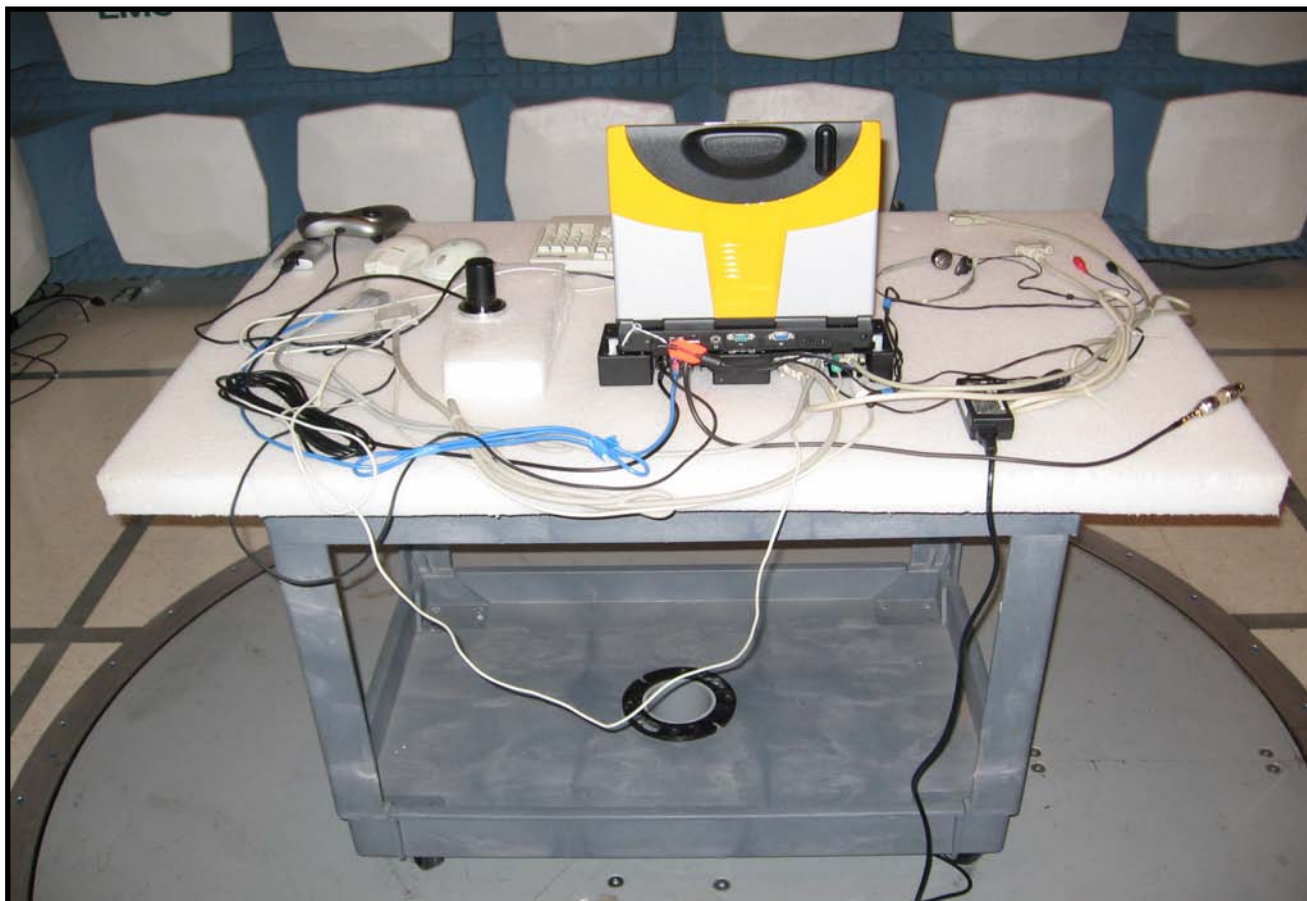
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EUT: IX600-MC8765			Work Order: SPTE0026																																																																																						
Serial Number: 359226000004984			Date: 06/15/06																																																																																						
Customer: Spectrum Technology			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:2005			ANSI/TIA/EIA-603-B-2002																																																																																						
TEST PARAMETERS																																																																																									
Antenna Height(s) (m)		1 - 4		Test Distance (m)																																																																																					
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COMMENTS																																																																																									
External antenna. Vehicle mount configuration.																																																																																									
EUT OPERATING MODES																																																																																									
WCDMA PCS band high channel																																																																																									
DEVIATIONS FROM TEST STANDARD																																																																																									
No deviations.																																																																																									
Run #		36		<i>Holly Ashkannejhad</i> Signature																																																																																					
Configuration #		2																																																																																							
Results		Pass																																																																																							
NVLAP Lab Code 200630-0																																																																																									
<table border="1"> <thead> <tr> <th>Freq (MHz)</th> <th></th> <th></th> <th>Azimuth (degrees)</th> <th>Height (meters)</th> <th></th> <th>Polarity</th> <th>Detector</th> <th>EIRP (Watts)</th> <th>EIRP (dBm)</th> <th>Spec. Limit (dBm)</th> <th>Compared to Spec. (dB)</th> </tr> </thead> <tbody> <tr> <td>7624.760</td> <td></td> <td></td> <td>292.0</td> <td>1.2</td> <td></td> <td>H-Horn</td> <td>PK</td> <td>1.93E-08</td> <td>-47.1</td> <td>-13.0</td> <td>-34.1</td> </tr> <tr> <td>3812.490</td> <td></td> <td></td> <td>19.0</td> <td>1.1</td> <td></td> <td>V-Horn</td> <td>PK</td> <td>1.88E-08</td> <td>-47.3</td> <td>-13.0</td> <td>-34.3</td> </tr> <tr> <td>3816.840</td> <td></td> <td></td> <td>332.0</td> <td>1.2</td> <td></td> <td>H-Horn</td> <td>PK</td> <td>1.64E-08</td> <td>-47.8</td> <td>-13.0</td> <td>-34.8</td> </tr> <tr> <td>7630.060</td> <td></td> <td></td> <td>334.0</td> <td>1.1</td> <td></td> <td>V-Horn</td> <td>PK</td> <td>1.48E-08</td> <td>-48.3</td> <td>-13.0</td> <td>-35.3</td> </tr> <tr> <td>5720.820</td> <td></td> <td></td> <td>107.0</td> <td>1.2</td> <td></td> <td>H-Horn</td> <td>PK</td> <td>4.38E-09</td> <td>-53.6</td> <td>-13.0</td> <td>-40.6</td> </tr> <tr> <td>5721.690</td> <td></td> <td></td> <td>40.0</td> <td>1.4</td> <td></td> <td>V-Horn</td> <td>PK</td> <td>4.31E-09</td> <td>-53.7</td> <td>-13.0</td> <td>-40.7</td> </tr> </tbody> </table>						Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	7624.760			292.0	1.2		H-Horn	PK	1.93E-08	-47.1	-13.0	-34.1	3812.490			19.0	1.1		V-Horn	PK	1.88E-08	-47.3	-13.0	-34.3	3816.840			332.0	1.2		H-Horn	PK	1.64E-08	-47.8	-13.0	-34.8	7630.060			334.0	1.1		V-Horn	PK	1.48E-08	-48.3	-13.0	-35.3	5720.820			107.0	1.2		H-Horn	PK	4.38E-09	-53.6	-13.0	-40.6	5721.690			40.0	1.4		V-Horn	PK	4.31E-09	-53.7	-13.0	-40.7
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)																																																																														
7624.760			292.0	1.2		H-Horn	PK	1.93E-08	-47.1	-13.0	-34.1																																																																														
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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.

MODES OF OPERATION

Edge PCS band
GSM PCS band
Edge cellular band
GSM Cellular band
WCDMA Cellular band
WCDMA PCS band

CHANNELS INVESTIGATED

Low channel
Mid channel
High channel

POWER SETTINGS INVESTIGATED

120VAC/60Hz

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
EV01 cables g,h,j			EVB	3/30/2006	13
EV01 cables c,g, h			EVA	3/30/2006	13
Spectrum Analyzer	Agilent	E4446A	AAT	4/4/2006	12
Antenna, Biconilog	EMCO	3141	AXE	12/28/2005	24
Antenna, Horn	EMCO	3115	AHC	8/30/2005	12
Signal Generator	Hewlett Packard	8341B	TGN	1/26/2006	13
Antenna, Horn	EMCO	3115	AHJ	5/20/2005	24
Antenna, Dipole (ADAA included)	Roberts	Roberts	ADA	1/6/2005	24
Antenna, Horn	EMCO	3115	AHC	8/30/2005	12

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).

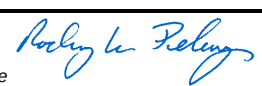
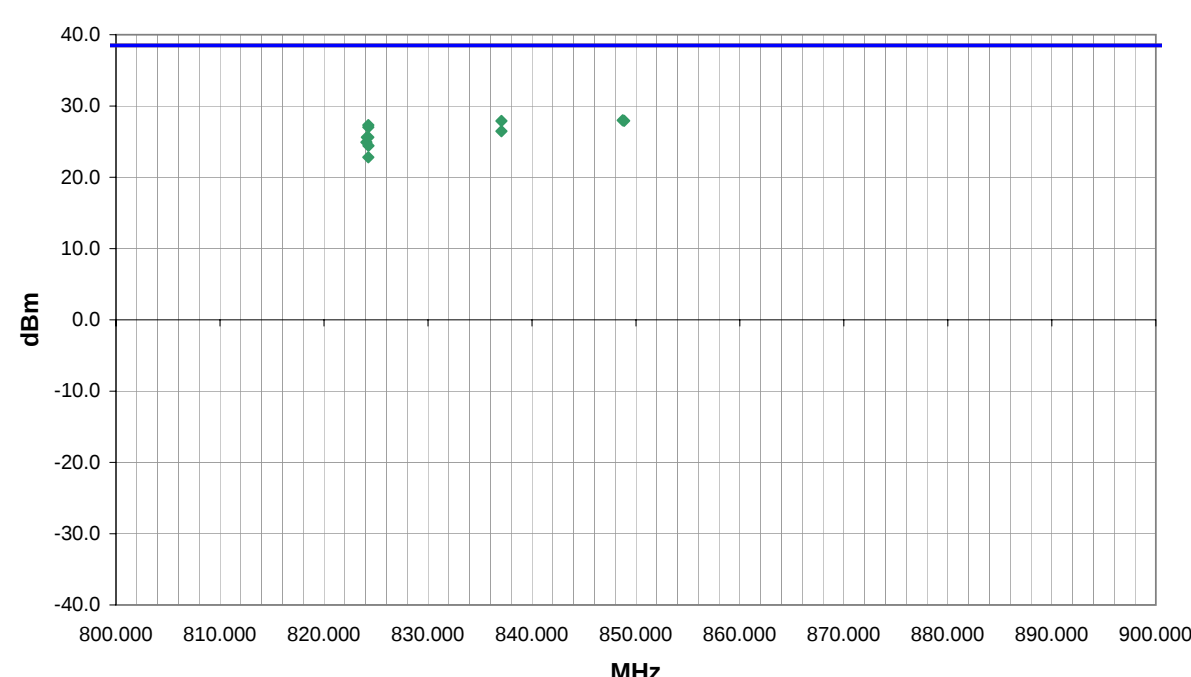
The amplitude and frequency of the highest emissions were noted. The EUT was then replaced with a horn antenna. A signal generator was connected to the horn antenna and its output was adjusted to match the level previously noted for each frequency. The output of the signal generator was recorded, and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

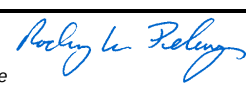
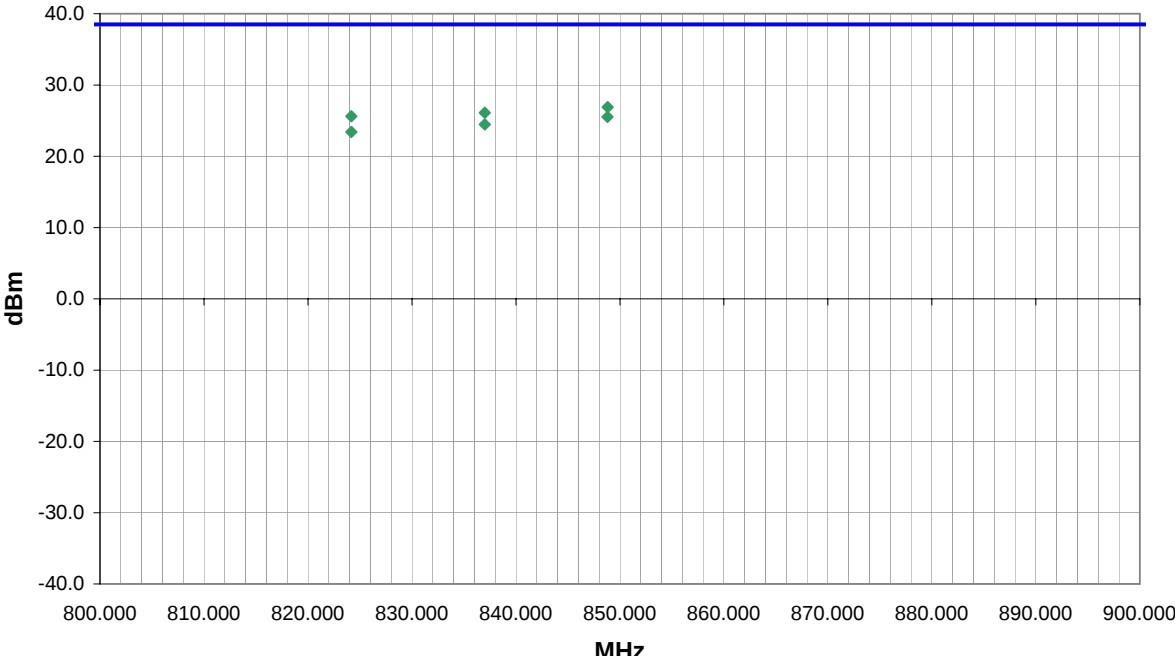
NORTHWEST		Effective Radiated Power (ERP)		PSA 2006.05.30 EMI 2006.4.26							
EUT: IX600-MC8765		Work Order: SPTE0026									
Serial Number: 359226000004984		Date: 06/01/06									
Customer: Spectrum Technology		Temperature: 23									
Attendees: Rod Munro		Humidity: 47%									
Project: None		Barometric Pres.: 29.98									
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz		Job Site: EV01							
TEST SPECIFICATIONS		Test Method									
FCC 22H:2005		ANSI/TIA/EIA-603-B-2002									
TEST PARAMETERS											
Antenna Height(s) (m)		1 - 4		Test Distance (m) 3							
COMMENTS											
External antenna. Vehicle mount configuration.											
EUT OPERATING MODES											
GSM Cellular band											
DEVIATIONS FROM TEST STANDARD											
No deviations.											
Run #	1	<i>Holly Ashkannejhad</i> Signature									
Configuration #	2										
Results	Pass										
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
824.190			302.0	1.2		V-Bilog	PK	8.55E-01	29.3	38.5	-9.2
824.189			103.0	1.0		H-Bilog	PK	4.18E-01	26.2	38.5	-12.3
837.058			294.0	1.0		V-Bilog	PK	3.07E-01	24.9	38.5	-13.6
848.560			142.0	1.0		V-Bilog	PK	2.76E-01	24.4	38.5	-14.1
836.997			121.0	1.0		H-Bilog	PK	1.05E-01	20.2	38.5	-18.3
848.870			216.0	1.0		H-Bilog	PK	8.49E-02	19.3	38.5	-19.2

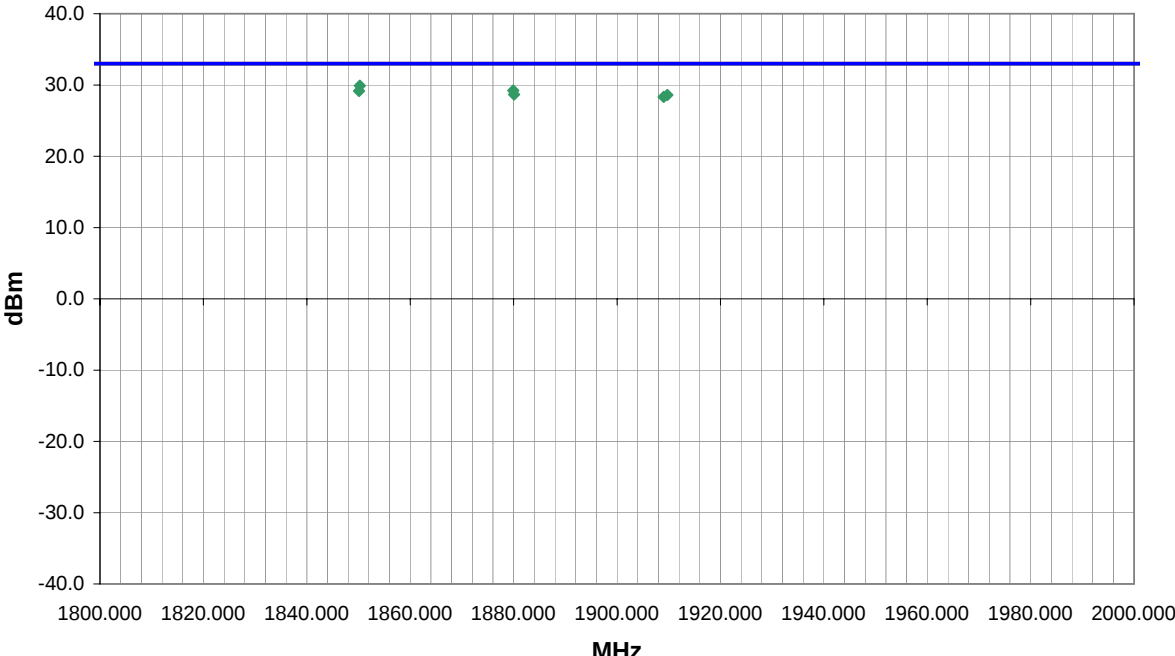
NORTHWEST		Effective Radiated Power (ERP)		PSA 2006.05.30 EMI 2006.4.26							
EUT: IX600-MC8765		Work Order: SPTE0026									
Serial Number: 35922600004984		Date: 06/01/06									
Customer: Spectrum Technology		Temperature: 23									
Attendees: Rod Munro		Humidity: 47%									
Project: None		Barometric Pres.: 29.98									
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz		Job Site: EV01							
TEST SPECIFICATIONS			Test Method								
FCC 22H:2005			ANSI/TIA/EIA-603-B-2002								
TEST PARAMETERS											
Antenna Height(s) (m)		1 - 4		Test Distance (m) 3							
COMMENTS											
External antenna. Vehicle mount configuration.											
EUT OPERATING MODES											
Edge cellular band											
DEVIATIONS FROM TEST STANDARD											
No deviations.											
Run #	2		Signature <i>Holly Ashkannejhad</i>								
Configuration #	2										
Results	Pass										
40.0 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 800.000 810.000 820.000 830.000 840.000 850.000 860.000 870.000 880.000 890.000 900.000 dBm MHz											
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
837.241			132.0	1.2		V-Bilog	PK	3.22E-01	25.1	38.5	-13.4
849.002			138.0	1.2		V-Bilog	PK	2.90E-01	24.6	38.5	-13.9
824.188			89.0	1.3		V-Bilog	PK	1.45E-01	21.6	38.5	-16.9
837.023			218.0	1.0		H-Bilog	PK	7.76E-02	18.9	38.5	-19.6
823.955			308.0	1.0		H-Bilog	PK	6.32E-02	18.0	38.5	-20.5
848.566			215.0	1.0		H-Bilog	PK	5.61E-02	17.5	38.5	-21.0

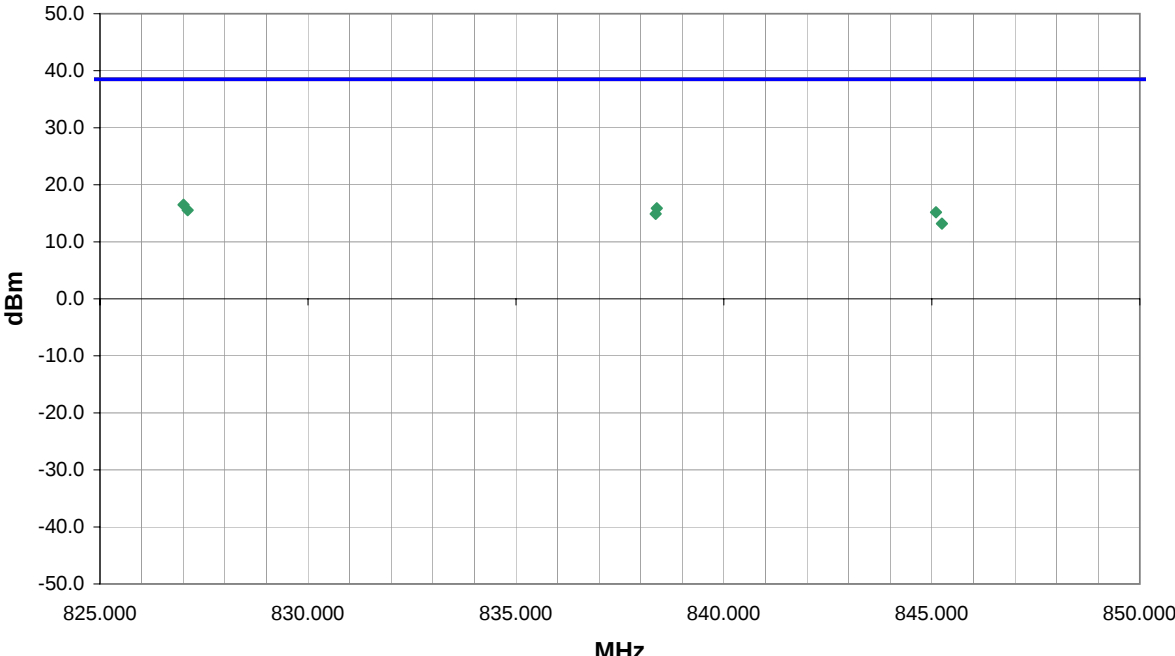
NORTHWEST		Effective Radiated Power (EIRP)		PSA 2006.05.30 EMI 2006.4.26							
EUT: IX600-MC8765		Work Order: SPTE0026									
Serial Number: 35922600004984		Date: 06/01/06									
Customer: Spectrum Technology		Temperature: 23									
Attendees: Rod Munro		Humidity: 47%									
Project: None		Barometric Pres.: 29.98									
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz		Job Site: EV01							
TEST SPECIFICATIONS		Test Method									
FCC 24E:2005		ANSI/TIA/EIA-603-B-2002									
TEST PARAMETERS											
Antenna Height(s) (m)		1 - 4		Test Distance (m) 3							
COMMENTS											
External antenna. Vehicle mount configuration.											
EUT OPERATING MODES											
GSM PCS band											
DEVIATIONS FROM TEST STANDARD											
No deviations.											
Run #	3	Signature <i>Holly Ashkannejhad</i> NVLAP Lab Code 200630-0									
Configuration #	2										
Results	Pass										
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
1879.882			271.0	1.0		V-Horn	PK	2.07E-01	23.2	33.0	-9.8
1909.278			132.0	1.0		V-Horn	PK	1.24E-01	20.9	33.0	-12.1
1849.492			155.0	1.0		V-Horn	PK	1.02E-01	20.1	33.0	-12.9
1880.009			316.0	1.0		H-Horn	PK	3.65E-02	15.6	33.0	-17.4
1909.800			313.0	1.0		H-Horn	AV	3.63E-02	15.6	33.0	-17.4
1851.064			79.0	1.0		H-Horn	PK	2.85E-02	14.6	33.0	-18.4

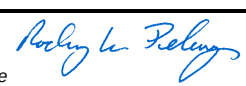
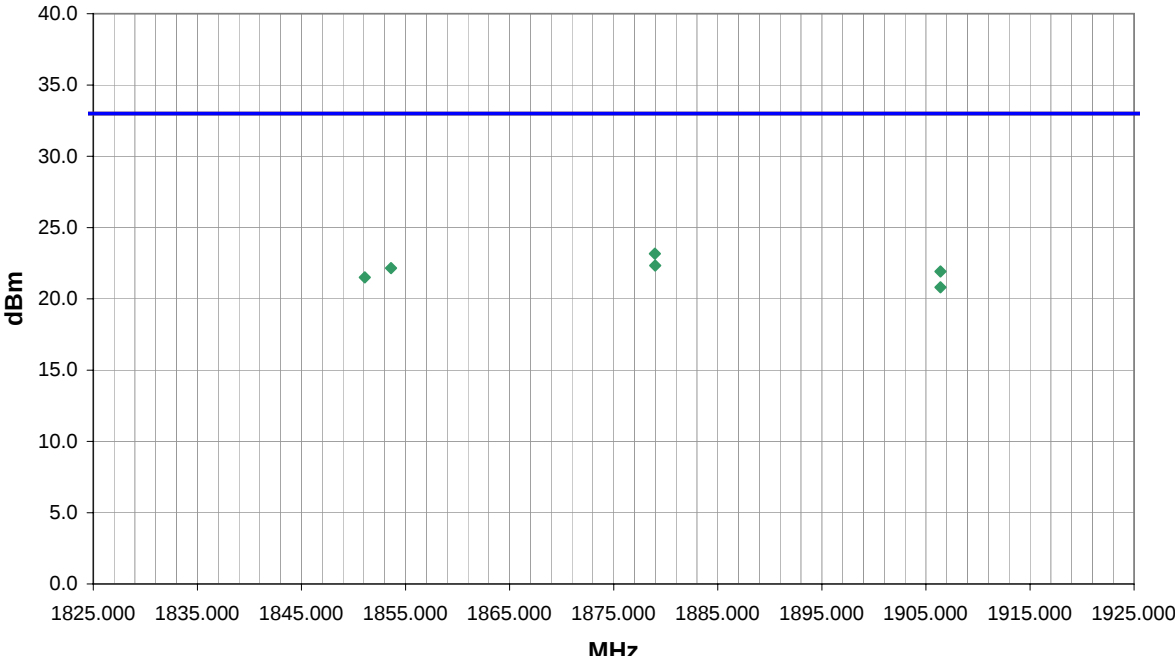
NORTHWEST		Effective Radiated Power (EIRP)		PSA 2006.05.30 EMI 2006.4.26							
EMC											
EUT: IX600-MC8765		Work Order: SPTE0026									
Serial Number: 35922600004984		Date: 06/01/06									
Customer: Spectrum Technology		Temperature: 23									
Attendees: Rod Munro		Humidity: 47%									
Project: None		Barometric Pres.: 29.98									
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz		Job Site: EV01							
TEST SPECIFICATIONS		Test Method									
FCC 24E:2005		ANSI/TIA/EIA-603-B-2002									
TEST PARAMETERS											
Antenna Height(s) (m)		1 - 4		Test Distance (m) 3							
COMMENTS											
External antenna. Vehicle mount configuration.											
EUT OPERATING MODES											
Edge PCS band											
DEVIATIONS FROM TEST STANDARD											
No deviations.											
Run #	4	NVLAP Lab Code 200630-0 Signature <i>Holly Ashkannejhad</i>									
Configuration #	2										
Results	Pass										
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
1880.039			131.0	1.0		V-Horn	PK	1.72E-01	22.4	33.0	-10.6
1911.047			138.0	1.0		V-Horn	PK	1.08E-01	20.3	33.0	-12.7
1850.278			106.0	1.2		V-Horn	PK	5.90E-02	17.7	33.0	-15.3
1880.154			138.0	1.0		H-Horn	PK	3.04E-02	14.8	33.0	-18.2
1849.354			321.0	1.0		H-Horn	PK	2.49E-02	14.0	33.0	-19.0
1909.565			301.0	1.0		H-Horn	PK	1.55E-02	11.9	33.0	-21.1

NORTHWEST		Effective Radiated Power (ERP)		PSA 2006.05.30 EMI 2006.4.26							
EMC											
EUT: IX600-MC8765		Work Order: SPTE0026									
Serial Number: 359226000004984		Date: 06/02/06									
Customer: Spectrum Technology		Temperature: 23									
Attendees: Rod Munro		Humidity: 47%									
Project: None		Barometric Pres.: 29.98									
Tested by: RodPeloquin		Power: 120VAC/60Hz		Job Site: EV01							
TEST SPECIFICATIONS		Test Method									
FCC 22H:2005		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 #	5	 Signature									
Configuration #	3										
Results	Pass										
NVLAP Lab Code 200630-0											
											
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
848.727			33.0	1.5		H-Bilog	PK	6.30E-01	28.0	38.5	-10.5
848.868			279.0	1.0		V-Bilog	PK	6.19E-01	27.9	38.5	-10.6
837.064			45.0	1.5		H-Bilog	PK	6.17E-01	27.9	38.5	-10.6
824.266			48.0	1.5		H-Bilog	PK	5.38E-01	27.3	38.5	-11.2
824.265			109.0	1.1		V-Bilog	PK	5.03E-01	27.0	38.5	-11.5
837.066			275.0	1.0		V-Bilog	PK	4.44E-01	26.5	38.5	-12.0
824.128			272.0	1.0		V-Bilog	PK	3.65E-01	25.6	38.5	-12.9
824.265			135.0	1.4		H-Bilog	PK	3.64E-01	25.6	38.5	-12.9
824.082			154.0	1.7		V-Bilog	PK	3.10E-01	24.9	38.5	-13.6
824.275			65.0	2.5		V-Bilog	PK	2.77E-01	24.4	38.5	-14.1
824.264			9.0	1.0		H-Bilog	PK	1.91E-01	22.8	38.5	-15.7

NORTHWEST		Effective Radiated Power (ERP)		PSA 2006.05.30 EMI 2006.6.2							
EUT: IX600-MC8765		Work Order: SPTE0026									
Serial Number: 35922600004984		Date: 06/02/06									
Customer: Spectrum Technology		Temperature: 23									
Attendees: Rod Munro		Humidity: 48%									
Project: None		Barometric Pres.: 29.95									
Tested by: Rod Peloquin		Power: 120VAC/60Hz		Job Site: EV01							
TEST SPECIFICATIONS		Test Method									
FCC 22H:2005		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 Cellular band, see comments for channel											
DEVIATIONS FROM TEST STANDARD											
No deviations.											
Run #	6	 Signature									
Configuration #	3										
Results	Pass										
NVLAP Lab Code 200630-0											
											
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
848.815			58.0	1.5		H-Bilog	PK	4.89E-01	26.9	38.5	-11.6
837.009			55.0	1.4		H-Bilog	PK	4.07E-01	26.1	38.5	-12.4
824.178			44.0	1.5		H-Bilog	PK	3.64E-01	25.6	38.5	-12.9
848.807			294.0	1.0		V-Bilog	PK	3.56E-01	25.5	38.5	-13.0
836.999			284.0	1.0		V-Bilog	PK	2.80E-01	24.5	38.5	-14.0
824.177			275.0	1.0		V-Bilog	PK	2.20E-01	23.4	38.5	-15.1

NORTHWEST		Effective Radiated Power (EIRP)		PSA 2006.05.30 EMI 2006.6.2							
EUT: IX600-MC8765		Work Order: SPTE0026									
Serial Number: 359226000004984		Date: 06/02/06									
Customer: Spectrum Technology		Temperature: 24									
Attendees: Rod Munro		Humidity: 41%									
Project: None		Barometric Pres.: 29.95									
Tested by: Rod Peloquin		Power: 120VAC/60Hz		Job Site: EV01							
TEST SPECIFICATIONS		Test Method									
FCC 24E:2005		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											
DEVIATIONS FROM TEST STANDARD											
No deviations.											
Run #	7	 Signature									
Configuration #	3										
Results	Pass										
NVLAP Lab Code 200630-0											
											
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
1850.247			351.0	1.0		V-Horn	PK	9.78E-01	29.9	33.0	-3.1
1879.940			281.0	1.4		H-Horn	PK	8.37E-01	29.2	33.0	-3.8
1850.110			288.0	1.5		H-Horn	PK	8.23E-01	29.2	33.0	-3.8
1880.080			342.0	1.0		V-Horn	PK	7.35E-01	28.7	33.0	-4.3
1909.733			286.0	1.4		H-Horn	PK	7.25E-01	28.6	33.0	-4.4
1909.007			344.0	1.0		V-Horn	PK	6.79E-01	28.3	33.0	-4.7

NORTHWEST		Effective Radiated Power (ERP)		PSA 2006.05.30							
EMC				EMI 2006.6.9							
EUT: IX600-MC8765			Work Order: SPTE0026								
Serial Number: 359226000004984			Date: 06/13/06								
Customer: Spectrum Technology			Temperature: 23								
Attendees: None			Humidity: 47%								
Project: None			Barometric Pres.: 29.98								
Tested by: Rod Peloquin		Power: 120VAC/60Hz		Job Site: EV01							
TEST SPECIFICATIONS			Test Method								
FCC 22H:2005			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											
W-CDMA Cellular band, see comments for channel											
DEVIATIONS FROM TEST STANDARD											
No deviations.											
Run #		27		 Signature							
Configuration #		2									
Results		Pass									
NVLAP Lab Code 200630-0											
											
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
827.008			45.0	1.0		H-Bilog	PK	4.47E-02	16.5	38.5	-22.0
838.385			88.0	1.0		V-Bilog	PK	3.88E-02	15.9	38.5	-22.6
827.108			101.0	1.0		V-Bilog	PK	3.59E-02	15.6	38.5	-22.9
845.100			66.0	1.0		V-Bilog	PK	3.29E-02	15.2	38.5	-23.3
838.360			132.0	1.0		H-Bilog	PK	3.09E-02	14.9	38.5	-23.6
845.242			285.0	1.0		H-Bilog	PK	2.09E-02	13.2	38.5	-25.3

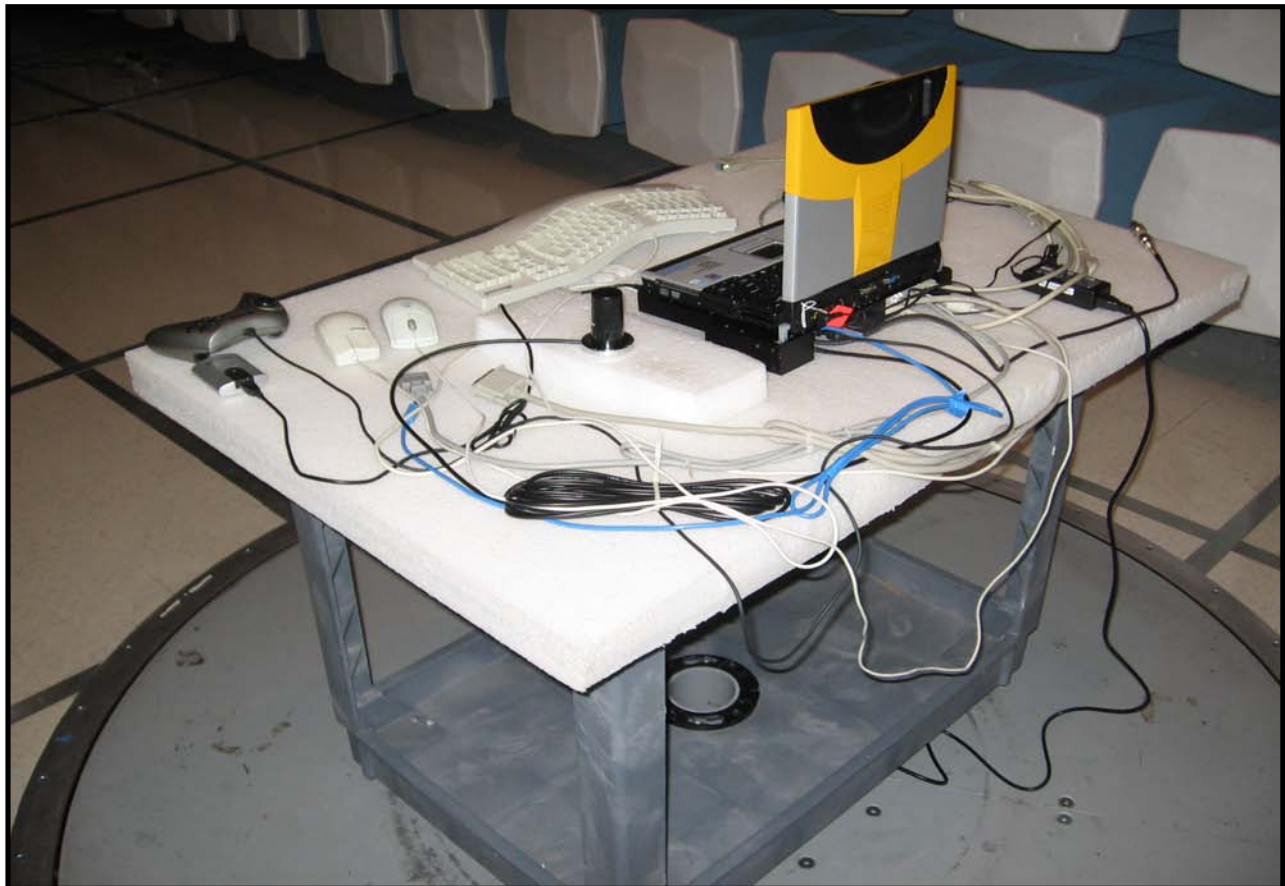
NORTHWEST		Effective Radiated Power (EIRP)		PSA 2006.05.30 EMI 2006.6.9																																																																																					
EMC																																																																																									
EUT: IX600-MC8765		Work Order: SPTE0026																																																																																							
Serial Number: 359226000004984		Date: 06/13/06																																																																																							
Customer: Spectrum Technology		Temperature: 23																																																																																							
Attendees: None		Humidity: 47%																																																																																							
Project: None		Barometric Pres.: 29.98																																																																																							
Tested by: Rod Peloquin		Power: 120VAC/60Hz		Job Site: EV01																																																																																					
TEST SPECIFICATIONS		Test Method																																																																																							
FCC 24E:2005		ANSI/TIA/EIA-603-B-2002																																																																																							
TEST PARAMETERS																																																																																									
Antenna Height(s) (m)		1 - 4		Test Distance (m) 3																																																																																					
COMMENTS																																																																																									
Internal antenna. Notebook standalone configuration.																																																																																									
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W-CDMA PCS band, see comments for channel																																																																																									
DEVIATIONS FROM TEST STANDARD																																																																																									
No deviations.																																																																																									
Run #	28	 Signature																																																																																							
Configuration #	2																																																																																								
Results	Pass																																																																																								
NVLAP Lab Code 200630-0																																																																																									
																																																																																									
<table border="1"> <thead> <tr> <th>Freq (MHz)</th> <th></th> <th></th> <th>Azimuth (degrees)</th> <th>Height (meters)</th> <th></th> <th>Polarity</th> <th>Detector</th> <th>EIRP (Watts)</th> <th>EIRP (dBm)</th> <th>Spec. Limit (dBm)</th> <th>Compared to Spec. (dB)</th> </tr> </thead> <tbody> <tr> <td>1878.951</td> <td></td> <td></td> <td>348.0</td> <td>1.1</td> <td></td> <td>V-Horn</td> <td>PK</td> <td>2.07E-01</td> <td>23.2</td> <td>33.0</td> <td>-9.8</td> </tr> <tr> <td>1878.986</td> <td></td> <td></td> <td>278.0</td> <td>1.2</td> <td></td> <td>H-Horn</td> <td>PK</td> <td>1.71E-01</td> <td>22.3</td> <td>33.0</td> <td>-10.7</td> </tr> <tr> <td>1853.611</td> <td></td> <td></td> <td>281.0</td> <td>1.2</td> <td></td> <td>H-Horn</td> <td>PK</td> <td>1.64E-01</td> <td>22.2</td> <td>33.0</td> <td>-10.8</td> </tr> <tr> <td>1906.392</td> <td></td> <td></td> <td>351.0</td> <td>1.4</td> <td></td> <td>V-Horn</td> <td>PK</td> <td>1.56E-01</td> <td>21.9</td> <td>33.0</td> <td>-11.1</td> </tr> <tr> <td>1851.083</td> <td></td> <td></td> <td>265.0</td> <td>1.4</td> <td></td> <td>V-Horn</td> <td>PK</td> <td>1.41E-01</td> <td>21.5</td> <td>33.0</td> <td>-11.5</td> </tr> <tr> <td>1906.396</td> <td></td> <td></td> <td>291.0</td> <td>1.2</td> <td></td> <td>H-Horn</td> <td>PK</td> <td>1.20E-01</td> <td>20.8</td> <td>33.0</td> <td>-12.2</td> </tr> </tbody> </table>						Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	1878.951			348.0	1.1		V-Horn	PK	2.07E-01	23.2	33.0	-9.8	1878.986			278.0	1.2		H-Horn	PK	1.71E-01	22.3	33.0	-10.7	1853.611			281.0	1.2		H-Horn	PK	1.64E-01	22.2	33.0	-10.8	1906.392			351.0	1.4		V-Horn	PK	1.56E-01	21.9	33.0	-11.1	1851.083			265.0	1.4		V-Horn	PK	1.41E-01	21.5	33.0	-11.5	1906.396			291.0	1.2		H-Horn	PK	1.20E-01	20.8	33.0	-12.2
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)																																																																														
1878.951			348.0	1.1		V-Horn	PK	2.07E-01	23.2	33.0	-9.8																																																																														
1878.986			278.0	1.2		H-Horn	PK	1.71E-01	22.3	33.0	-10.7																																																																														
1853.611			281.0	1.2		H-Horn	PK	1.64E-01	22.2	33.0	-10.8																																																																														
1906.392			351.0	1.4		V-Horn	PK	1.56E-01	21.9	33.0	-11.1																																																																														
1851.083			265.0	1.4		V-Horn	PK	1.41E-01	21.5	33.0	-11.5																																																																														
1906.396			291.0	1.2		H-Horn	PK	1.20E-01	20.8	33.0	-12.2																																																																														

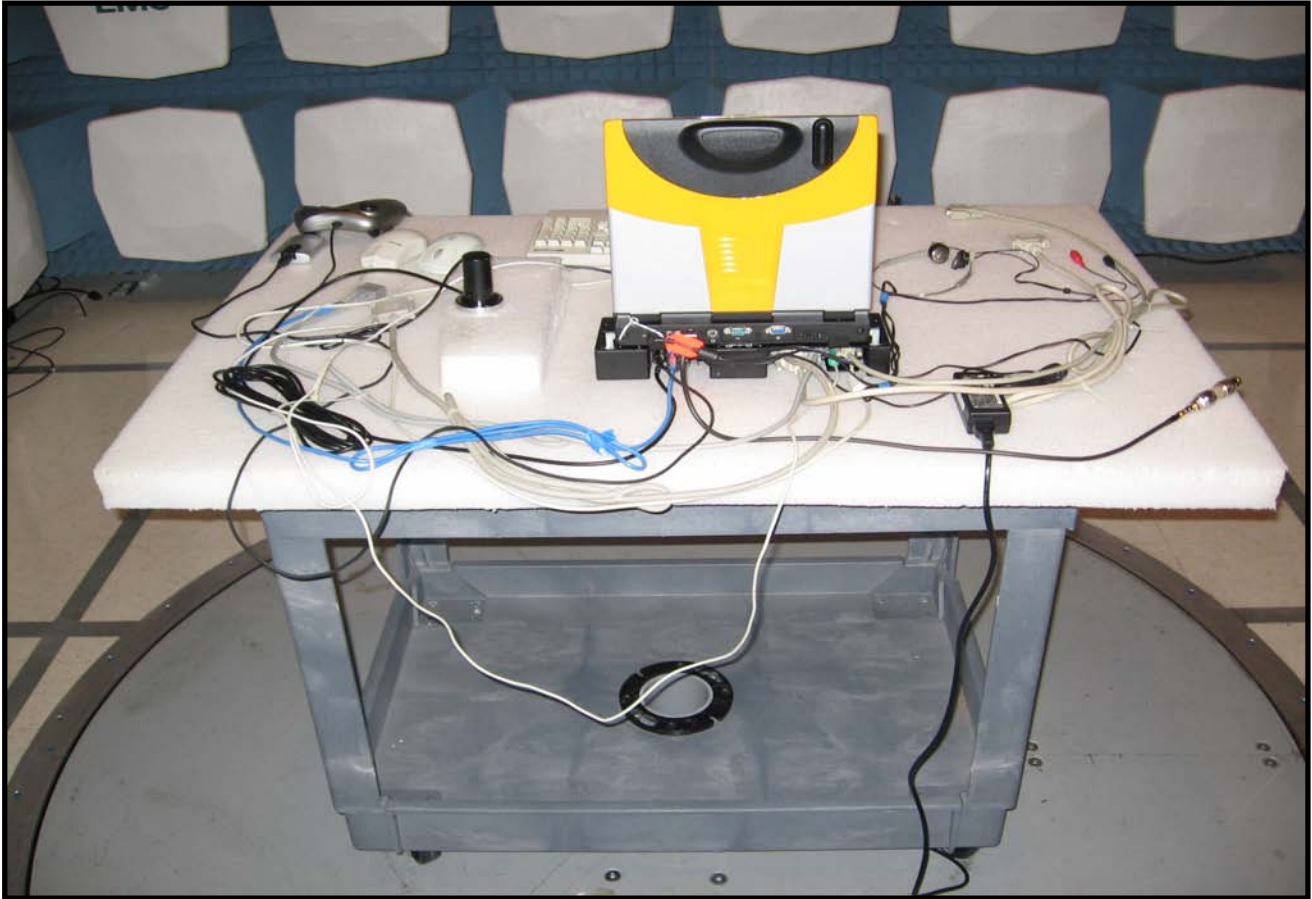
NORTHWEST		Effective Radiated Power (EIRP)		PSA 2006.05.30 EMI 2006.6.9							
EMC											
EUT: IX600-MC8765		Work Order: SPTE0026									
Serial Number: 359226000004984		Date: 06/13/06									
Customer: Spectrum Technology		Temperature: 23									
Attendees: None		Humidity: 42%									
Project: None		Barometric Pres.: 29.99									
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz		Job Site: EV01							
TEST SPECIFICATIONS		Test Method									
FCC 24E:2005		ANSI/TIA/EIA-603-B-2002									
TEST PARAMETERS											
Antenna Height(s) (m)		1 - 4		Test Distance (m) 3							
COMMENTS											
External antenna. Vehicle mount configuration.											
EUT OPERATING MODES											
W-CDMA PCS band, see comments for channel											
DEVIATIONS FROM TEST STANDARD											
No deviations.											
Run #	29	<i>Holly Ashkannejhad</i> Signature									
Configuration #	2										
Results	Pass										
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
1851.047			335.0	1.0		V-Horn	PK	7.59E-02	18.8	33.0	-14.2
1878.752			311.0	1.0		V-Horn	PK	6.55E-02	18.2	33.0	-14.8
1906.853			312.0	1.0		V-Horn	PK	6.20E-02	17.9	33.0	-15.1
1853.473			347.0	1.3		H-Horn	PK	2.48E-02	14.0	33.0	-19.0
1881.108			142.0	1.3		H-Horn	PK	2.47E-02	13.9	33.0	-19.1
1906.305			116.0	1.0		H-Horn	PK	1.74E-02	12.4	33.0	-20.6

NORTHWEST		Effective Radiated Power (ERP)		PSA 2006.05.30 EMI 2006.6.9							
EMC											
EUT: IX600-MC8765		Work Order: SPTE0026									
Serial Number: 35922600004984		Date: 06/13/06									
Customer: Spectrum Technology		Temperature: 23									
Attendees: None		Humidity: 47%									
Project: None		Barometric Pres.: 29.98									
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz		Job Site: EV01							
TEST SPECIFICATIONS		Test Method									
FCC 22H:2005		ANSI/TIA/EIA-603-B-2002									
TEST PARAMETERS											
Antenna Height(s) (m)		1 - 4		Test Distance (m) 3							
COMMENTS											
External antenna. Vehicle Mount Configuration.											
EUT OPERATING MODES											
W-CDMA Cellular band, see comments for channel											
DEVIATIONS FROM TEST STANDARD											
No deviations.											
Run #	30	<i>Holly Ashkannejhad</i> Signature									
Configuration #	2										
Results	Pass										
40.0 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 800.000 810.000 820.000 830.000 840.000 850.000 860.000 870.000 880.000 890.000 900.000 dBm MHz											
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
825.880			6.0	1.4		V-Bilog	PK	1.03E-02	10.1	38.5	-28.4
836.520			116.0	1.3		V-Bilog	PK	8.85E-03	9.5	38.5	-29.0
847.270			112.0	1.2		V-Bilog	PK	4.36E-03	6.4	38.5	-32.1
826.950			163.0	1.0		H-Bilog	PK	3.99E-03	6.0	38.5	-32.5
836.710			43.0	1.0		H-Bilog	PK	3.31E-03	5.2	38.5	-33.3
847.970			173.0	3.2		H-Bilog	PK	3.08E-03	4.9	38.5	-33.6









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.

MODES OF OPERATION

Receive mode, GSM Cellular band. High channel
Receive mode, GSM Cellular band. Low channel
Receive mode, GSM Cellular band. Mid channel

POWER SETTINGS INVESTIGATED

120VAC/60Hz

SAMPLE CALCULATIONS

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Hewlett-Packard	8568B	AAI	12/21/2005	13
Quasi-Peak Adapter	Hewlett-Packard	85650A	AQD	12/21/2005	13
LISN	Solar	9252-50-R-24-BNC	LIQ	12/13/2005	13
High Pass Filter	T.T.E.	7766	HFG	12/19/2005	13

MEASUREMENT BANDWIDTHS

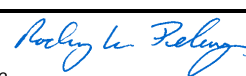
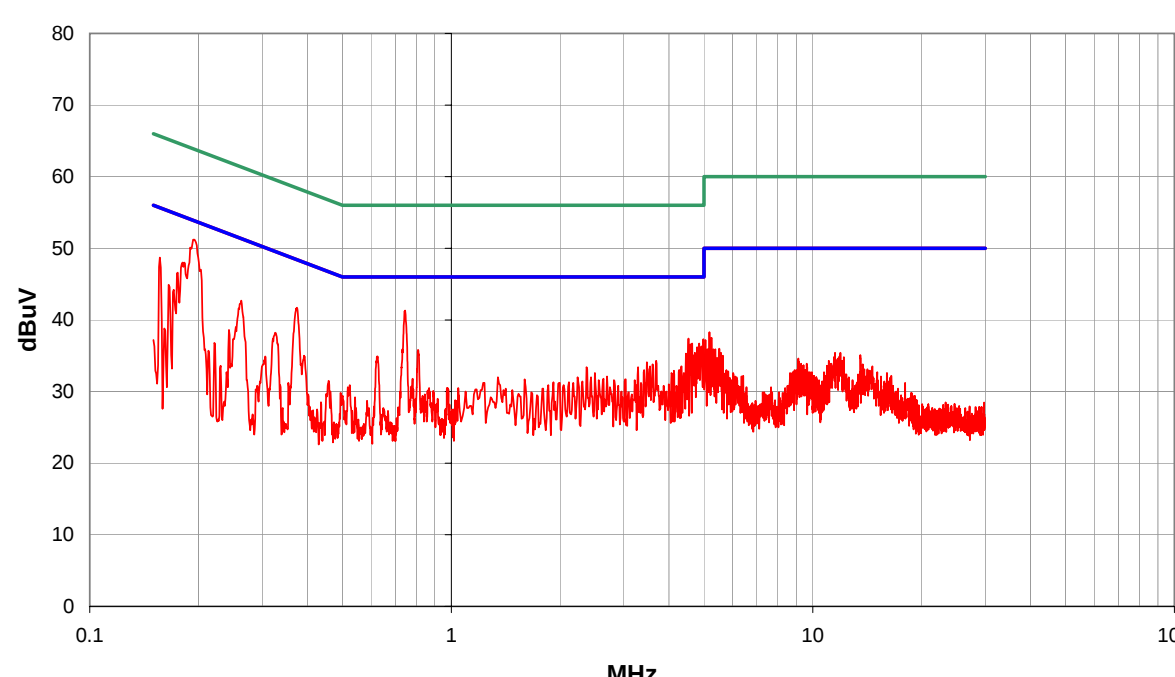
	Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0
Measurements were made using the bandwidths and detectors specified. No video filter was used.				

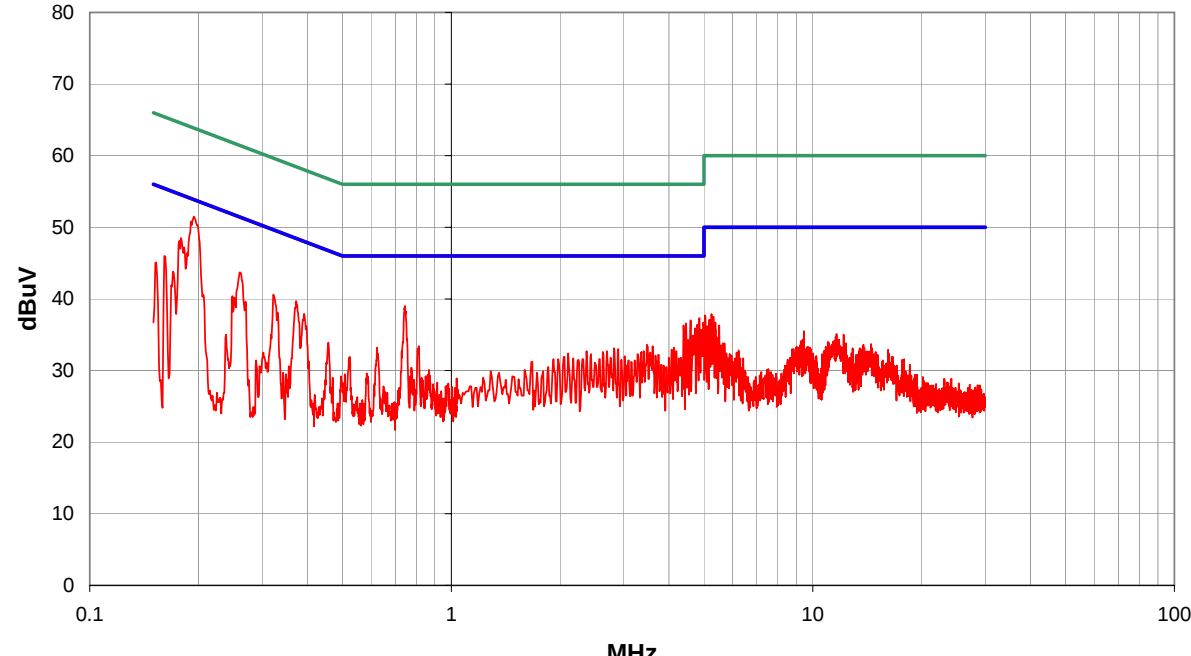
MEASUREMENT UNCERTAINTY

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 EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating in receive mode at the lowest, the highest, and a middle channel in the operational band. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.4-2003.

NORTHWEST		AC POWERLINE CONDUCTED EMISSIONS DATA SHEET				ACQ-2006.05.30				
EMC						EMI 2005.9.18				
EUT: IX600-MC8765				Work Order: SPTE0026						
Serial Number: 35922600004984				Date: 06/06/06						
Customer: Spectrum Technology				Temperature: 23						
Attendees: None				Humidity: 47%						
Project: None				Barometric Pres.: 29.98						
Tested by: Rod Peloquin		Power: 120VAC/60Hz		Job Site: EV07						
TEST SPECIFICATIONS				Test Method						
FCC 15.107:2006				ANSI C63.4:2003						
TEST PARAMETERS										
Cable or Line Tested				L1						
COMMENTS										
Internal antenna. Notebook standalone configuration.										
EUT OPERATING MODES										
Receive mode, GSM Cellular band. Mid channel										
DEVIATIONS FROM TEST STANDARD										
No deviations.										
Run #	3	 Signature								
Configuration #	3									
Results	Pass									
NVLAP Lab Code 200630-0										
										
Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)	Detector (blank equal peaks [PK] from scan)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.193	31.2			0.0	0.0	20.0		51.2	53.9	-2.7
0.745	21.3			0.0	0.0	20.0		41.3	46.0	-4.7
0.181	28.0			0.0	0.0	20.0		48.0	54.5	-6.5
0.374	21.7			0.0	0.0	20.0		41.7	48.4	-6.7
0.156	28.7			0.0	0.0	20.0		48.7	55.7	-7.0
0.175	26.6			0.0	0.0	20.0		46.6	54.7	-8.1
4.527	17.4			0.0	0.0	20.0		37.4	46.0	-8.6
0.263	22.7			0.0	0.0	20.0		42.7	51.4	-8.7
4.977	17.3			0.0	0.0	20.0		37.3	46.0	-8.7
4.637	16.7			0.0	0.0	20.0		36.7	46.0	-9.3
4.847	16.7			0.0	0.0	20.0		36.7	46.0	-9.3
4.587	16.6			0.0	0.0	20.0		36.6	46.0	-9.4
4.917	16.3			0.0	0.0	20.0		36.3	46.0	-9.7
4.787	16.2			0.0	0.0	20.0		36.2	46.0	-9.8
0.810	15.8			0.0	0.0	20.0		35.8	46.0	-10.2
0.165	24.9			0.0	0.0	20.0		44.9	55.2	-10.3
4.717	15.4			0.0	0.0	20.0		35.4	46.0	-10.6
4.457	15.3			0.0	0.0	20.0		35.3	46.0	-10.7
0.171	24.2			0.0	0.0	20.0		44.2	54.9	-10.7

NORTHWEST		AC POWERLINE CONDUCTED EMISSIONS DATA SHEET		ACQ-2006.05.30					
EMC				EMI 2005.9.18					
EUT: IX600-MC8765			Work Order: SPTE0026						
Serial Number: 359226000004984			Date: 06/06/06						
Customer: Spectrum Technology			Temperature: 23						
Attendees: None			Humidity: 47%						
Project: None			Barometric Pres.: 29.98						
Tested by: Rod Peloquin		Power: 120VAC/60Hz		Job Site: EV07					
TEST SPECIFICATIONS			Test Method						
FCC 15.107:2006			ANSI C63.4:2003						
TEST PARAMETERS									
Cable or Line Tested		N							
COMMENTS									
Internal antenna. Notebook standalone configuration.									
EUT OPERATING MODES									
Receive mode, GSM Cellular band. Mid channel									
DEVIATIONS FROM TEST STANDARD									
No deviations.									
Run #	2	 Signature							
Configuration #	3								
Results	Pass								
NVLAP Lab Code 200630-0									
									
Freq (MHz)	Amplitude (dBuV)		Transducer (dB)	Cable (dB)	External Attenuation (dB)	Detector (blank equal peaks [PK] from scan)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.194	31.5		0.0	0.0	20.0		51.5	53.9	-2.4
0.179	28.5		0.0	0.0	20.0		48.5	54.5	-6.0
0.744	19.0		0.0	0.0	20.0		39.0	46.0	-7.0
0.260	23.7		0.0	0.0	20.0		43.7	51.4	-7.7
4.847	17.3		0.0	0.0	20.0		37.3	46.0	-8.7
0.372	19.7		0.0	0.0	20.0		39.7	48.4	-8.7
4.587	17.0		0.0	0.0	20.0		37.0	46.0	-9.0
0.322	20.6		0.0	0.0	20.0		40.6	49.7	-9.1
4.977	16.7		0.0	0.0	20.0		36.7	46.0	-9.3
4.457	16.6		0.0	0.0	20.0		36.6	46.0	-9.4
0.161	26.0		0.0	0.0	20.0		46.0	55.4	-9.4
4.787	16.4		0.0	0.0	20.0		36.4	46.0	-9.6
4.387	16.3		0.0	0.0	20.0		36.3	46.0	-9.7
4.717	15.9		0.0	0.0	20.0		35.9	46.0	-10.1
0.391	17.9		0.0	0.0	20.0		37.9	48.0	-10.1
4.917	15.7		0.0	0.0	20.0		35.7	46.0	-10.3
0.153	25.1		0.0	0.0	20.0		45.1	55.9	-10.8
4.657	14.9		0.0	0.0	20.0		34.9	46.0	-11.1
0.170	23.8		0.0	0.0	20.0		43.8	55.0	-11.2

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	Date:	06/06/06
Customer:	Spectrum Technology	Temperature:	23
Attendees:	None	Humidity:	47%
Project:	None	Barometric Pres.:	29.98
Tested by:	Rod Peloquin	Power:	120VAC/60Hz
		Job Site:	EV07

TEST SPECIFICATIONS

FCC 15.107:2006

Test Method

ANSI C63.4:2003

TEST PARAMETERS

Cable or Line Tested L1

COMMENTS

Internal antenna. Notebook standalone configuration.

EUT OPERATING MODES

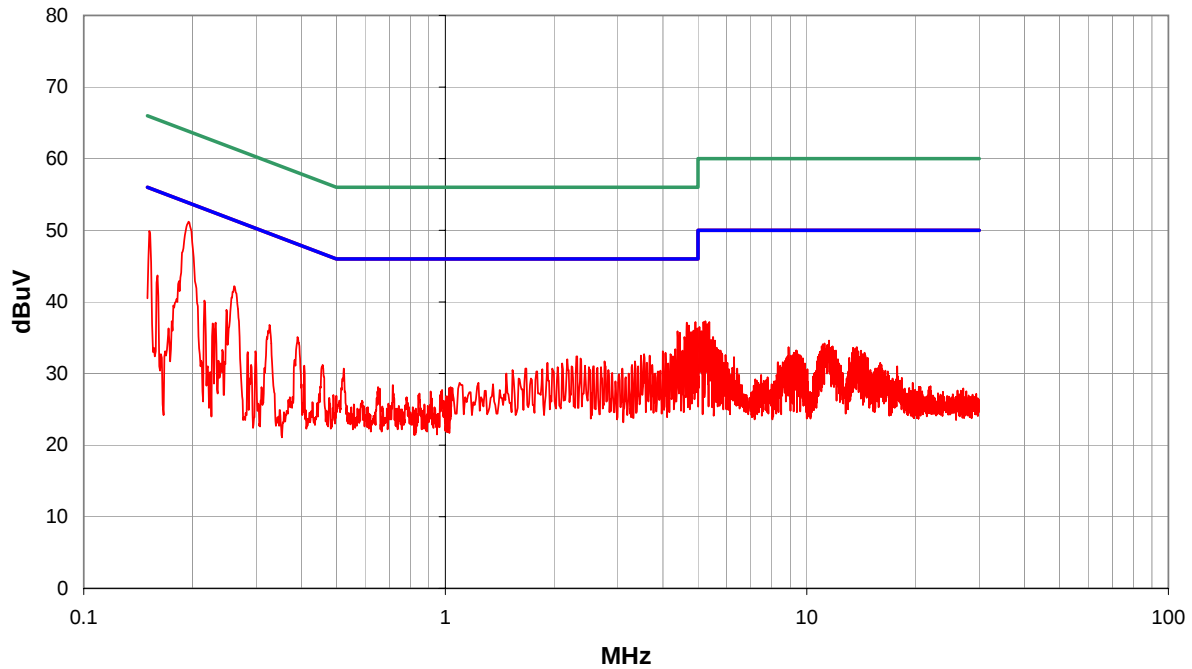
Receive mode, GSM Cellular band. Low channel

DEVIATIONS FROM TEST STANDARD

No deviations.

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

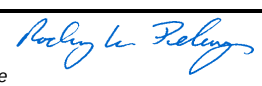
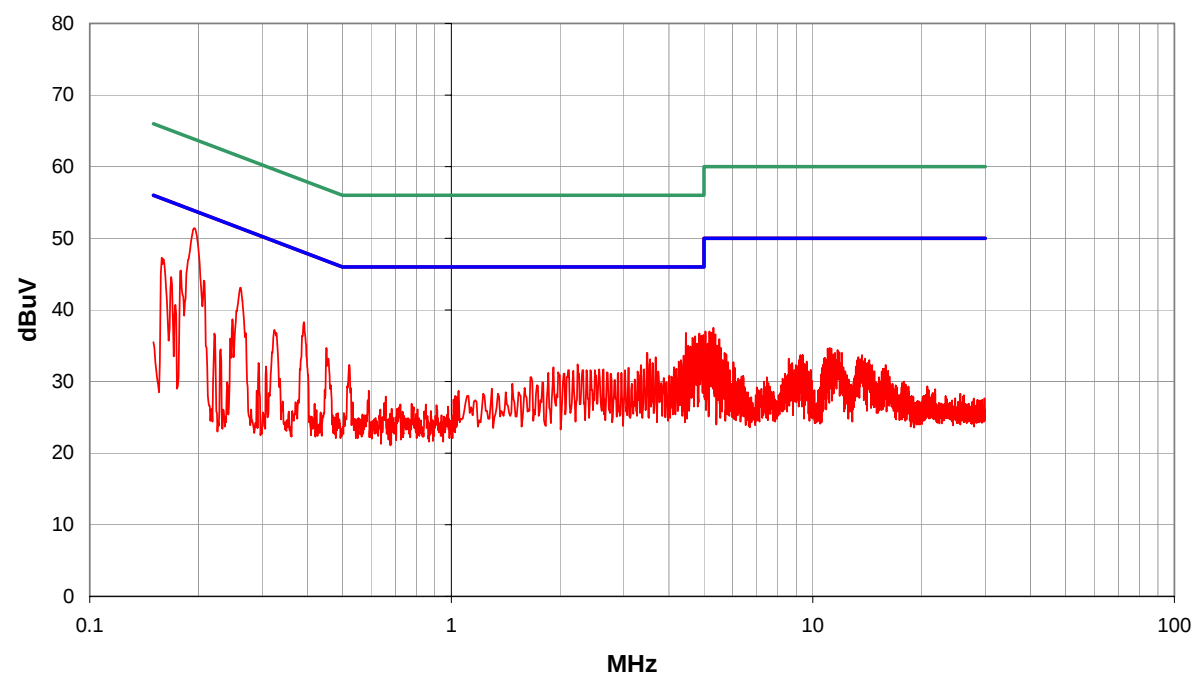
Signature



Freq (MHz)	Amplitude (dBuV)		Transducer (dB)	Cable (dB)	External Attenuation (dB)	Detector (blank equal peaks [PK] from scan)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.195	31.2		0.0	0.0	20.0		51.2	53.8	-2.6
0.152	29.9		0.0	0.0	20.0		49.9	55.9	-6.0
4.917	17.2		0.0	0.0	20.0		37.2	46.0	-8.8
4.657	17.1		0.0	0.0	20.0		37.1	46.0	-8.9
0.261	22.2		0.0	0.0	20.0		42.2	51.4	-9.2
4.717	16.7		0.0	0.0	20.0		36.7	46.0	-9.3
4.977	16.3		0.0	0.0	20.0		36.3	46.0	-9.7
4.857	16.0		0.0	0.0	20.0		36.0	46.0	-10.0
4.387	15.9		0.0	0.0	20.0		35.9	46.0	-10.1
4.787	15.8		0.0	0.0	20.0		35.8	46.0	-10.2
4.457	15.7		0.0	0.0	20.0		35.7	46.0	-10.3
4.587	15.1		0.0	0.0	20.0		35.1	46.0	-10.9
0.160	23.7		0.0	0.0	20.0		43.7	55.5	-11.8
4.327	13.4		0.0	0.0	20.0		33.4	46.0	-12.6
5.237	17.3		0.0	0.0	20.0		37.3	50.0	-12.7
0.326	16.8		0.0	0.0	20.0		36.8	49.5	-12.7
0.216	20.2		0.0	0.0	20.0		40.2	53.0	-12.8
4.527	13.2		0.0	0.0	20.0		33.2	46.0	-12.8
5.177	17.2		0.0	0.0	20.0		37.2	50.0	-12.8

NORTHWEST										ACQ-2006.05.30 EMI 2005.9.18									
EMC										AC POWERLINE CONDUCTED EMISSIONS DATA SHEET									
EUT: IX600-MC8765										Work Order: SPTE0026									
Serial Number: 359226000004984										Date: 06/06/06									
Customer: Spectrum Technology										Temperature: 23									
Attendees: None										Humidity: 47%									
Project: None										Barometric Pres.: 29.98									
Tested by: Rod Peloquin					Power: 120VAC/60Hz					Job Site: EV07									
TEST SPECIFICATIONS										Test Method									
FCC 15.107:2006										ANSI C63.4:2003									
TEST PARAMETERS																			
Cable or Line Tested										N									
COMMENTS																			
Internal antenna. Notebook standalone configuration.																			
EUT OPERATING MODES																			
Receive mode, GSM Cellular band. Low channel																			
DEVIATIONS FROM TEST STANDARD																			
No deviations.																			
Run #		4		Signature															
Configuration #		3																	
Results		Pass																	
NVLAP Lab Code 200630-0																			
Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)							
0.195	31.3			0.0	0.0	20.0				51.3	53.8	-2.5							
0.150	30.2			0.0	0.0	20.0				50.2	56.0	-5.8							
0.154	27.8			0.0	0.0	20.0				47.8	55.8	-8.0							
0.259	22.6			0.0	0.0	20.0				42.6	51.5	-8.9							
0.178	25.0			0.0	0.0	20.0				45.0	54.6	-9.6							
4.977	16.3			0.0	0.0	20.0				36.3	46.0	-9.7							
4.647	15.8			0.0	0.0	20.0				35.8	46.0	-10.2							
0.390	17.8			0.0	0.0	20.0				37.8	48.1	-10.3							
4.847	15.5			0.0	0.0	20.0				35.5	46.0	-10.5							
0.163	24.7			0.0	0.0	20.0				44.7	55.3	-10.6							
4.777	15.3			0.0	0.0	20.0				35.3	46.0	-10.7							
4.327	15.1			0.0	0.0	20.0				35.1	46.0	-10.9							
4.387	15.1			0.0	0.0	20.0				35.1	46.0	-10.9							
4.587	14.8			0.0	0.0	20.0				34.8	46.0	-11.2							
4.917	14.8			0.0	0.0	20.0				34.8	46.0	-11.2							
4.717	14.6			0.0	0.0	20.0				34.6	46.0	-11.4							
4.517	14.2			0.0	0.0	20.0				34.2	46.0	-11.8							
3.546	14.0			0.0	0.0	20.0				34.0	46.0	-12.0							
3.486	13.7			0.0	0.0	20.0				33.7	46.0	-12.3							

NORTHWEST		AC POWERLINE CONDUCTED EMISSIONS DATA SHEET				ACQ-2006.05.30 EMI 2005.9.18			
EMC									
EUT: IX600-MC8765		Work Order: SPTE0026							
Serial Number: 359226000004984		Date: 06/06/06							
Customer: Spectrum Technology		Temperature: 23							
Attendees: None		Humidity: 47%							
Project: None		Barometric Pres.: 29.98							
Tested by: Rod Peloquin		Power: 120VAC/60Hz		Job Site: EV07					
TEST SPECIFICATIONS				Test Method					
FCC 15.107:2006				ANSI C63.4:2003					
TEST PARAMETERS									
Cable or Line Tested		L1							
COMMENTS									
Internal antenna. Notebook standalone configuration.									
EUT OPERATING MODES									
Receive mode, GSM Cellular band. High channel									
DEVIATIONS FROM TEST STANDARD									
No deviations.									
Run #	7	NVLAP Lab Code 200630-0 <i>Rod L. Peloquin</i> Signature							
Configuration #	3								
Results	Pass								
Freq (MHz)	Amplitude (dBuV)		Transducer (dB)	Cable (dB)	External Attenuation (dB)	Detector (blank equal peaks [PK] from scan)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.194	31.3		0.0	0.0	20.0		51.3	53.9	-2.6
0.150	28.2		0.0	0.0	20.0		48.2	56.0	-7.8
4.587	17.7		0.0	0.0	20.0		37.7	46.0	-8.3
4.787	17.3		0.0	0.0	20.0		37.3	46.0	-8.7
4.847	17.0		0.0	0.0	20.0		37.0	46.0	-9.0
0.262	22.2		0.0	0.0	20.0		42.2	51.4	-9.2
4.457	16.6		0.0	0.0	20.0		36.6	46.0	-9.4
0.172	25.4		0.0	0.0	20.0		45.4	54.9	-9.5
0.167	25.6		0.0	0.0	20.0		45.6	55.1	-9.5
4.717	16.1		0.0	0.0	20.0		36.1	46.0	-9.9
4.917	16.0		0.0	0.0	20.0		36.0	46.0	-10.0
4.327	15.9		0.0	0.0	20.0		35.9	46.0	-10.1
4.977	15.8		0.0	0.0	20.0		35.8	46.0	-10.2
0.182	23.9		0.0	0.0	20.0		43.9	54.4	-10.5
4.657	15.3		0.0	0.0	20.0		35.3	46.0	-10.7
4.397	15.2		0.0	0.0	20.0		35.2	46.0	-10.8
4.517	15.1		0.0	0.0	20.0		35.1	46.0	-10.9
4.127	14.3		0.0	0.0	20.0		34.3	46.0	-11.7
5.237	18.3		0.0	0.0	20.0		38.3	50.0	-11.7

NORTHWEST		AC POWERLINE CONDUCTED EMISSIONS DATA SHEET				ACQ-2006.05.30				
EMC						EMI 2005.9.18				
EUT: IX600-MC8765				Work Order: SPTE0026						
Serial Number: 35922600004984				Date: 06/06/06						
Customer: Spectrum Technology				Temperature: 23						
Attendees: None				Humidity: 47%						
Project: None				Barometric Pres.: 29.98						
Tested by: Rod Peloquin		Power: 120VAC/60Hz		Job Site: EV07						
TEST SPECIFICATIONS				Test Method						
FCC 15.107:2006				ANSI C63.4:2003						
TEST PARAMETERS										
Cable or Line Tested		N								
COMMENTS										
Internal antenna. Notebook standalone configuration.										
EUT OPERATING MODES										
Receive mode, GSM Cellular band. High channel										
DEVIATIONS FROM TEST STANDARD										
No deviations.										
Run #	8	 Signature								
Configuration #	3									
Results	Pass									
NVLAP Lab Code 200630-0										
										
Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)	Detector (blank equal peaks [PK] from scan)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.194	31.4			0.0	0.0	20.0		51.4	53.9	-2.5
0.158	27.3			0.0	0.0	20.0		47.3	55.6	-8.3
0.261	23.1			0.0	0.0	20.0		43.1	51.4	-8.3
0.179	25.5			0.0	0.0	20.0		45.5	54.5	-9.0
4.457	16.8			0.0	0.0	20.0		36.8	46.0	-9.2
0.207	24.1			0.0	0.0	20.0		44.1	53.3	-9.2
4.847	16.7			0.0	0.0	20.0		36.7	46.0	-9.3
4.977	16.5			0.0	0.0	20.0		36.5	46.0	-9.5
4.917	16.4			0.0	0.0	20.0		36.4	46.0	-9.6
4.717	16.3			0.0	0.0	20.0		36.3	46.0	-9.7
0.391	18.3			0.0	0.0	20.0		38.3	48.0	-9.7
4.647	16.1			0.0	0.0	20.0		36.1	46.0	-9.9
0.168	24.6			0.0	0.0	20.0		44.6	55.1	-10.5
4.787	15.3			0.0	0.0	20.0		35.3	46.0	-10.7
4.517	15.0			0.0	0.0	20.0		35.0	46.0	-11.0
4.587	14.9			0.0	0.0	20.0		34.9	46.0	-11.1
3.476	14.0			0.0	0.0	20.0		34.0	46.0	-12.0
0.452	14.7			0.0	0.0	20.0		34.7	46.8	-12.1
4.387	13.6			0.0	0.0	20.0		33.6	46.0	-12.4

