

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Effective Radiated Power	FCC 22H:2005	ANSI/TIA/EIA-603-B:2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Effective Radiated Power	FCC 24E:2005	ANSI/TIA/EIA-603-B:2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Receive Spurious Emissions	FCC 15.109:2006	ANSI C63.4:2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Out of Band Emissions	FCC 22H:2005	ANSI/TIA/EIA-603-B:2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Out of Band Emissions	FCC 24E:2005	ANSI/TIA/EIA-603-B:2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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.

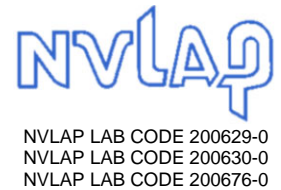
Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested,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



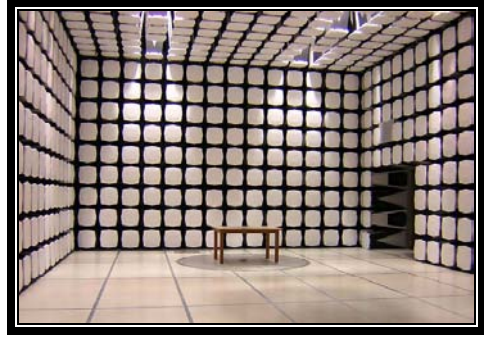
GOST: Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from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



SCOPE

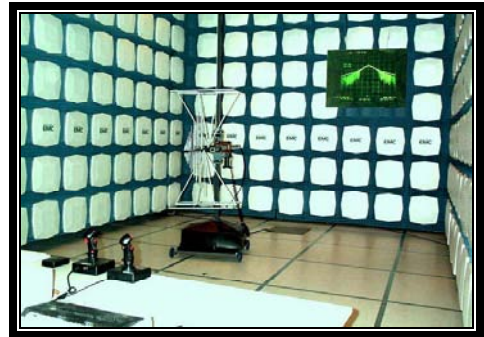
For details on the Scopes of our Accreditations, please visit:

<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	35922600004984

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	35922600004984

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	35922600004984

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	35922600004984

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.

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 (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 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.

EUT: IX600-MC8765	Work Order: SPTE0026
Serial Number: 35922600004984	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.

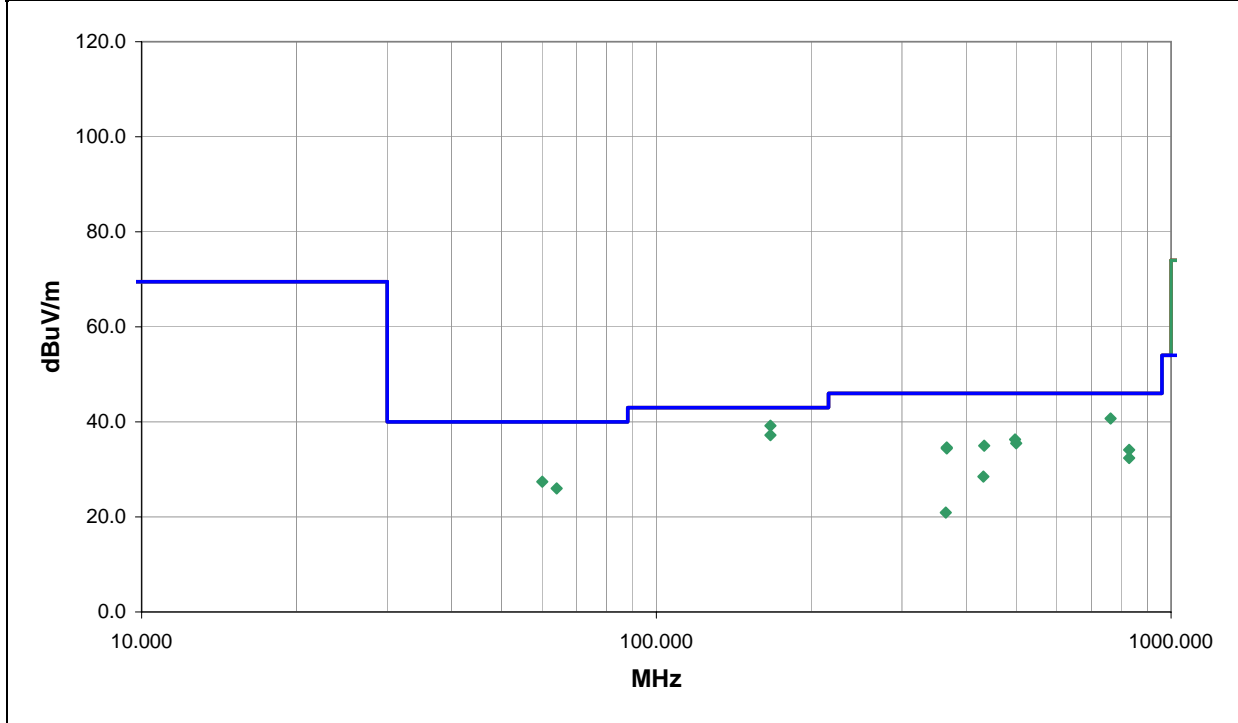
EUT OPERATING MODES
Receive mode. Cellular band low channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	37
Configuration #	3
Results	Pass

NVLAP Lab Code 200630-0

Signature *Holly Ashkannejhad*



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

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	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

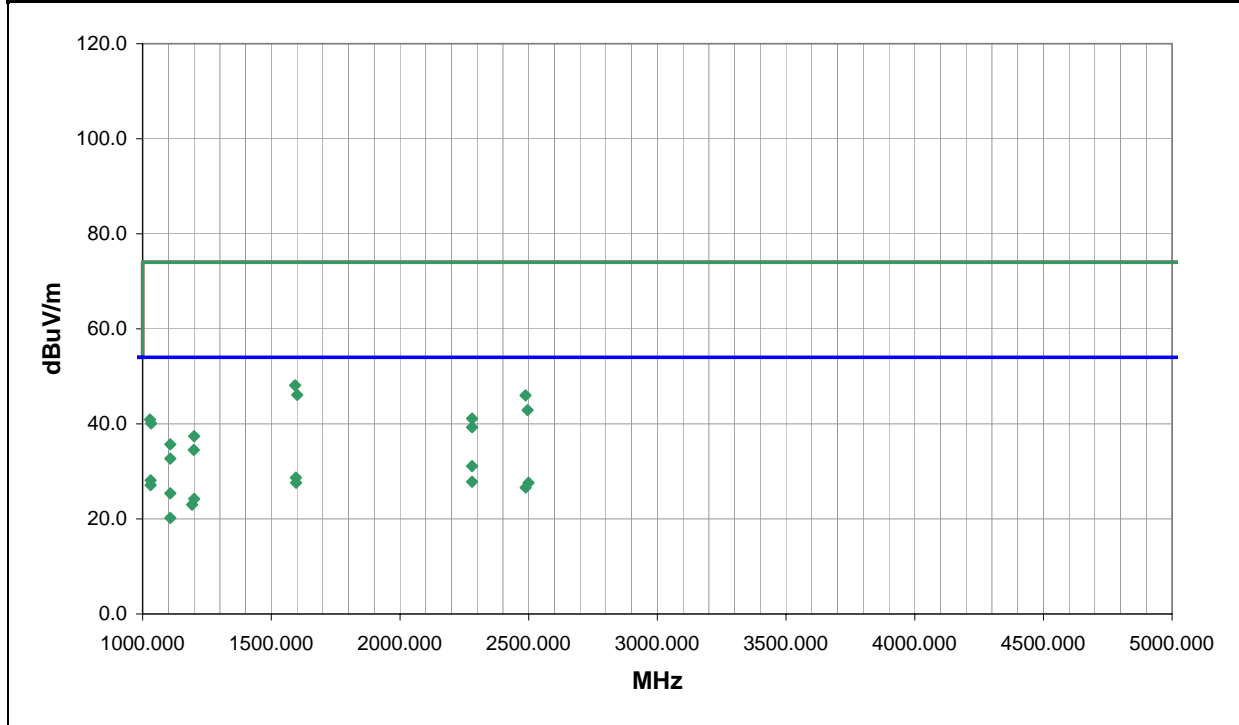
COMMENTS
Internal antenna. Notebook configuration.

EUT OPERATING MODES
Receive mode. Cellular band low channel.

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	38	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	Spec. (dB)	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

EUT: IX600-MC8765	Work Order: SPTE0026
Serial Number: 35922600004984	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	
FCC 15.109:2006	Test Method ANSI C63.4:2003

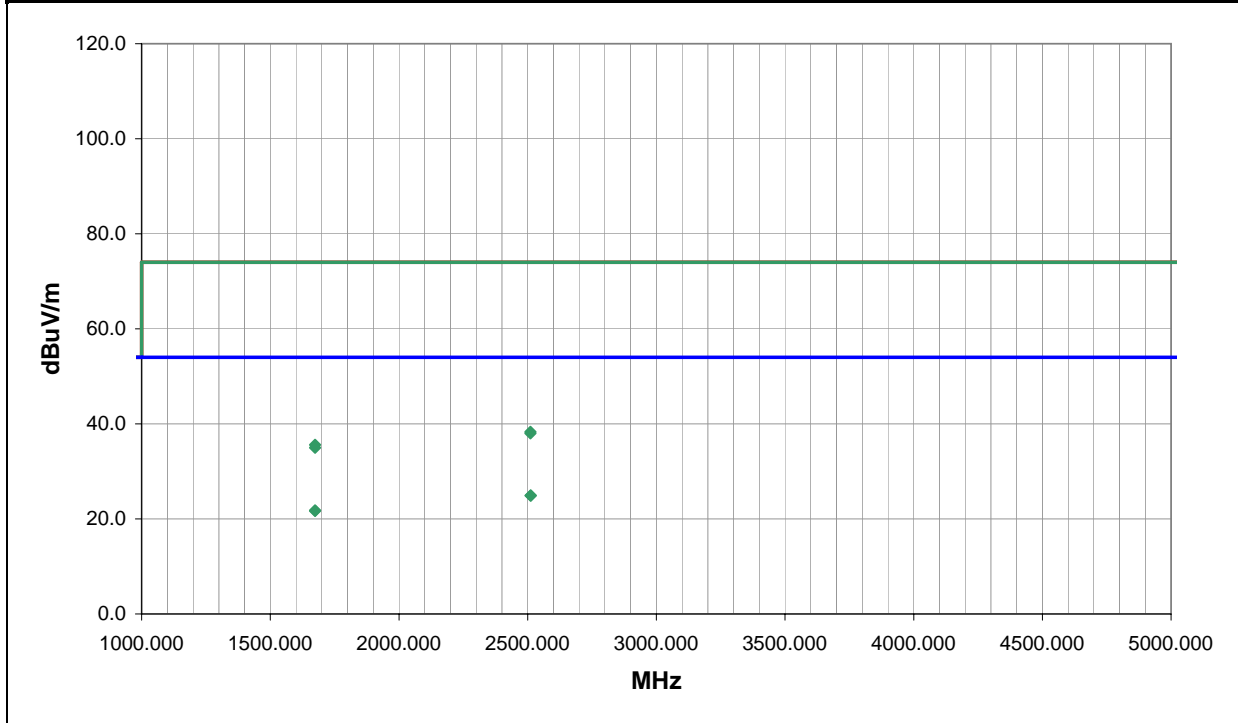
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
Internal antenna. Notebook configuration.

EUT OPERATING MODES
Receive mode. Cellular band mid channel.

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	39	NVLAP Lab Code 200630-0	Signature <i>Holly Ashkannejhad</i>
Configuration #	3		
Results	Pass		



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)
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

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	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
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TEST PARAMETERS

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

Internal antenna. Notebook configuration.

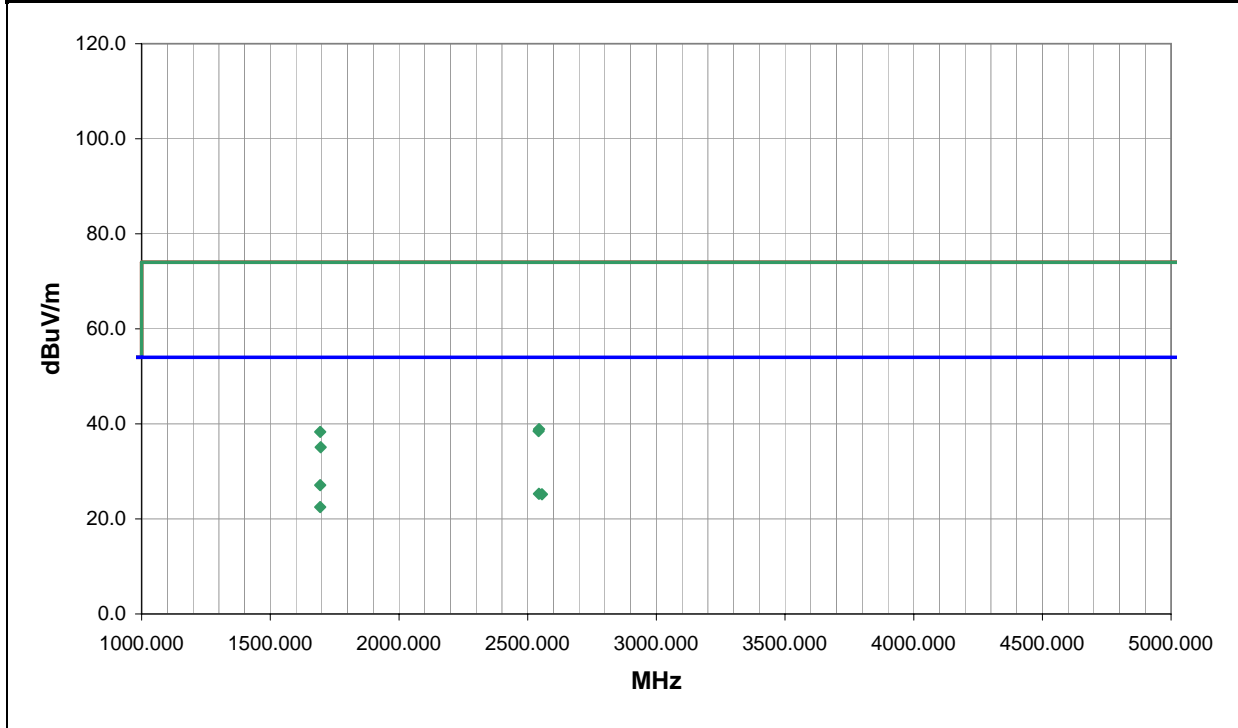
EUT OPERATING MODES

Receive mode. Cellular band high channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	40	NVLAP Lab Code 200630-0	Signature <i>Holly Ashkannejhad</i>
Configuration #	3		
Results	Pass		



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
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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,l			EVC	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.

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

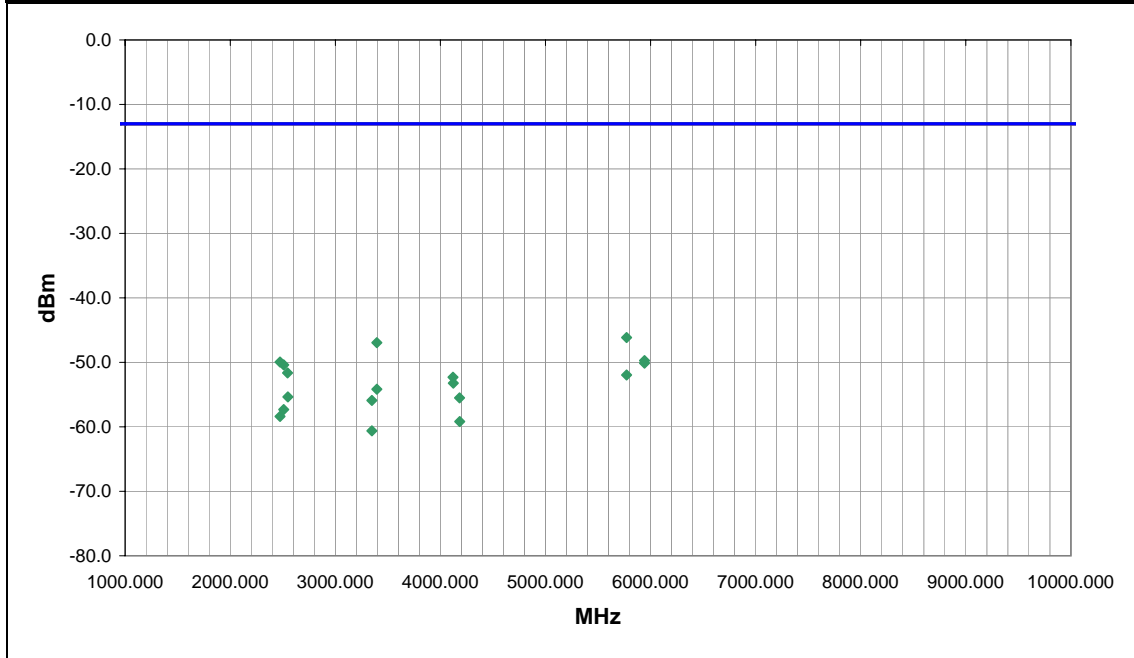
TEST PARAMETERS		
Antenna Height(s) (m)	1 - 4	Test Distance (m)
		3

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	NVLAP Lab Code 200630-0	Signature <i>Holly Ashkannejhad</i>
Configuration #	1		
Results	Pass		



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

EUT: IX600-MC8765	Work Order: SPTE0026
Serial Number: 35922600004984	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

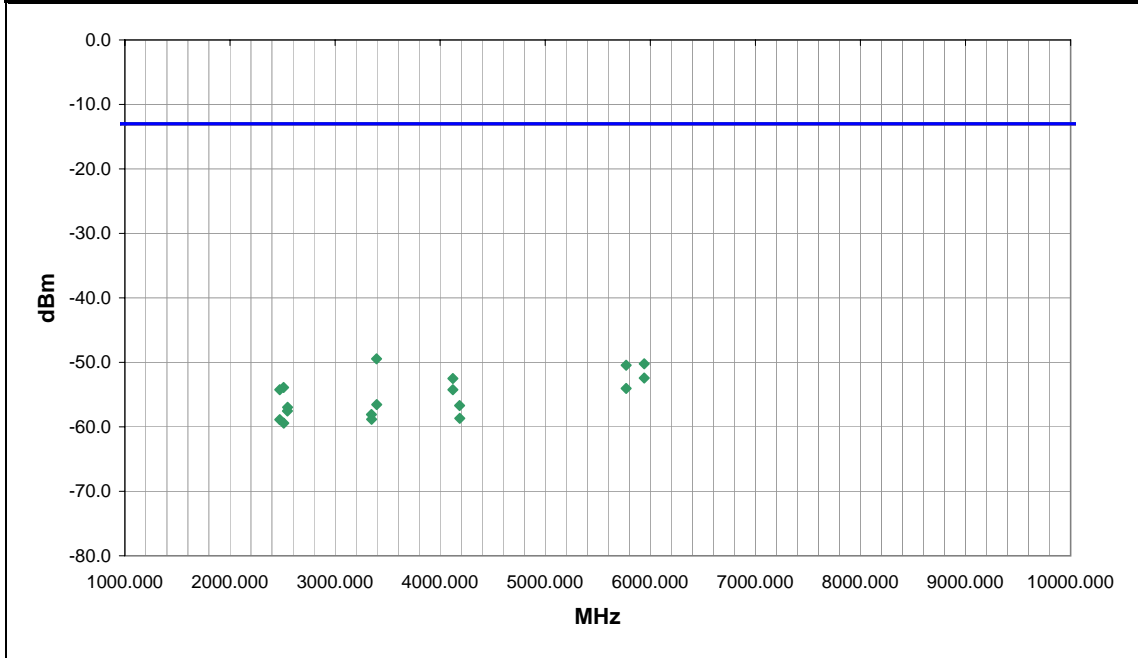
COMMENTS
External antenna terminated. Vehicle mount configuration.

EUT OPERATING MODES
Edge Cellular band, see comments for channel

DEVIATIONS FROM TEST STANDARD
No deviations.

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

Signature *Holly Ashkannejhad*



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

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 Ashkanjehad	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

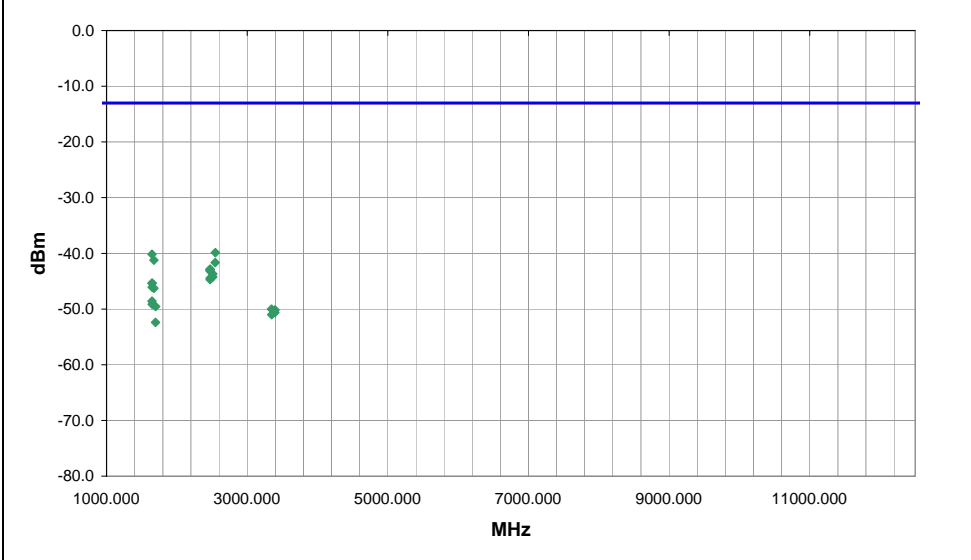
COMMENTS
Internal antenna. Notebook configuration.

EUT OPERATING MODES
Transmit mode. GSM modulation, Cellular band, see comments for channel.

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	42
Configuration #	4
Results	Pass

NVLAP Lab Code 200630-0 *Signature Holly Ashkanjehad*



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

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

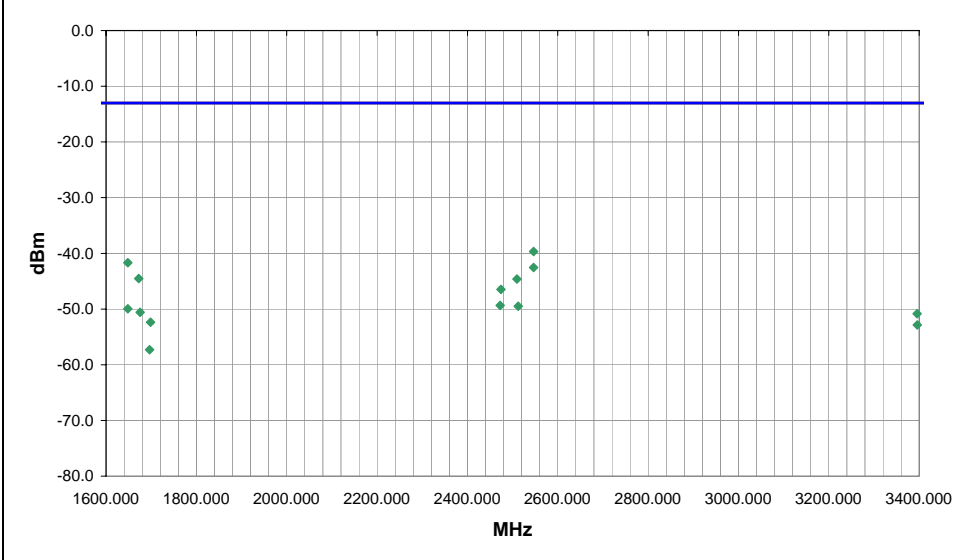
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

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	NVLAP Lab Code 200630-0 Signature <i>Holly Ashkannejhad</i>
Configuration #	4	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
2546.353	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

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	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
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TEST PARAMETERS

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

Internal antenna.

EUT OPERATING MODES

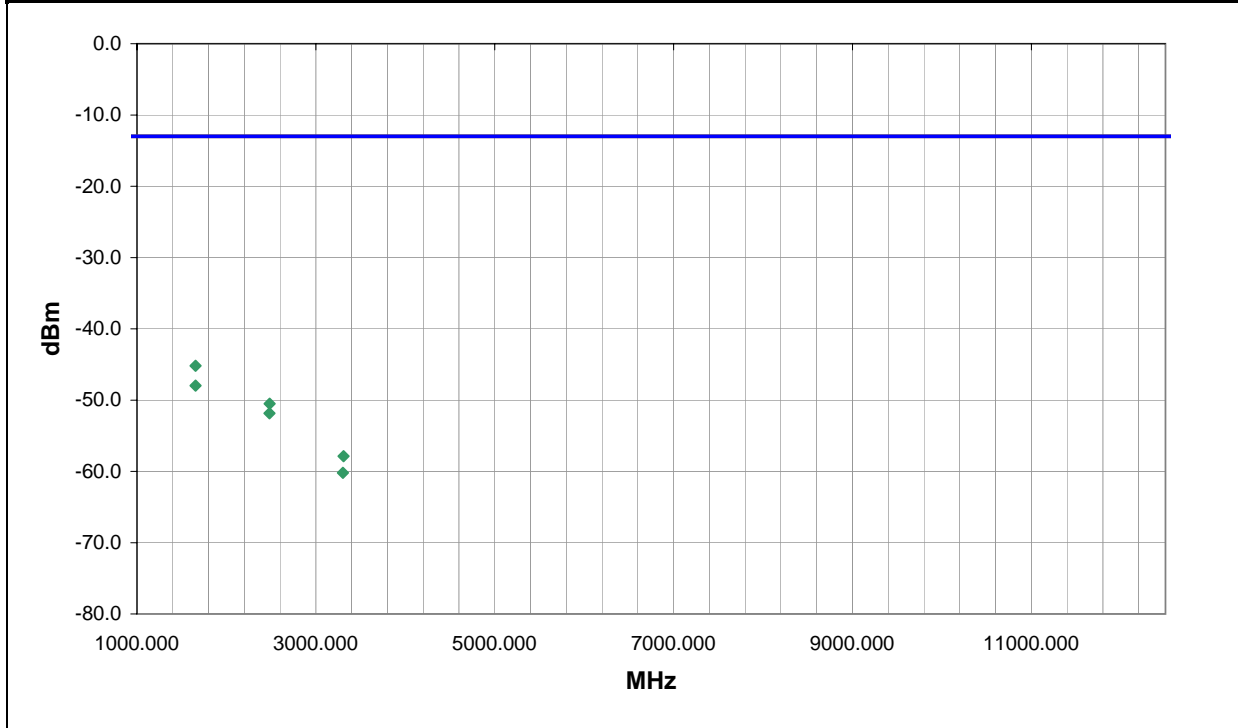
WCDMA Cellular band low channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	17	Signature <i>Holly Ashkannejhad</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)
1655.320	333.0	1.0	V-Horn	PK	3.03E-08	-45.2	-13.0	-32.2
1654.227	80.0	1.0	H-Horn	PK	1.60E-08	-48.0	-13.0	-35.0
2482.720	186.0	1.0	H-Horn	PK	8.92E-09	-50.5	-13.0	-37.5
2482.100	97.0	1.0	V-Horn	PK	6.51E-09	-51.9	-13.0	-38.9
3308.800	135.0	1.0	V-Horn	PK	1.64E-09	-57.9	-13.0	-44.9
3303.320	291.0	1.0	H-Horn	PK	9.56E-10	-60.2	-13.0	-47.2

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	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)	3

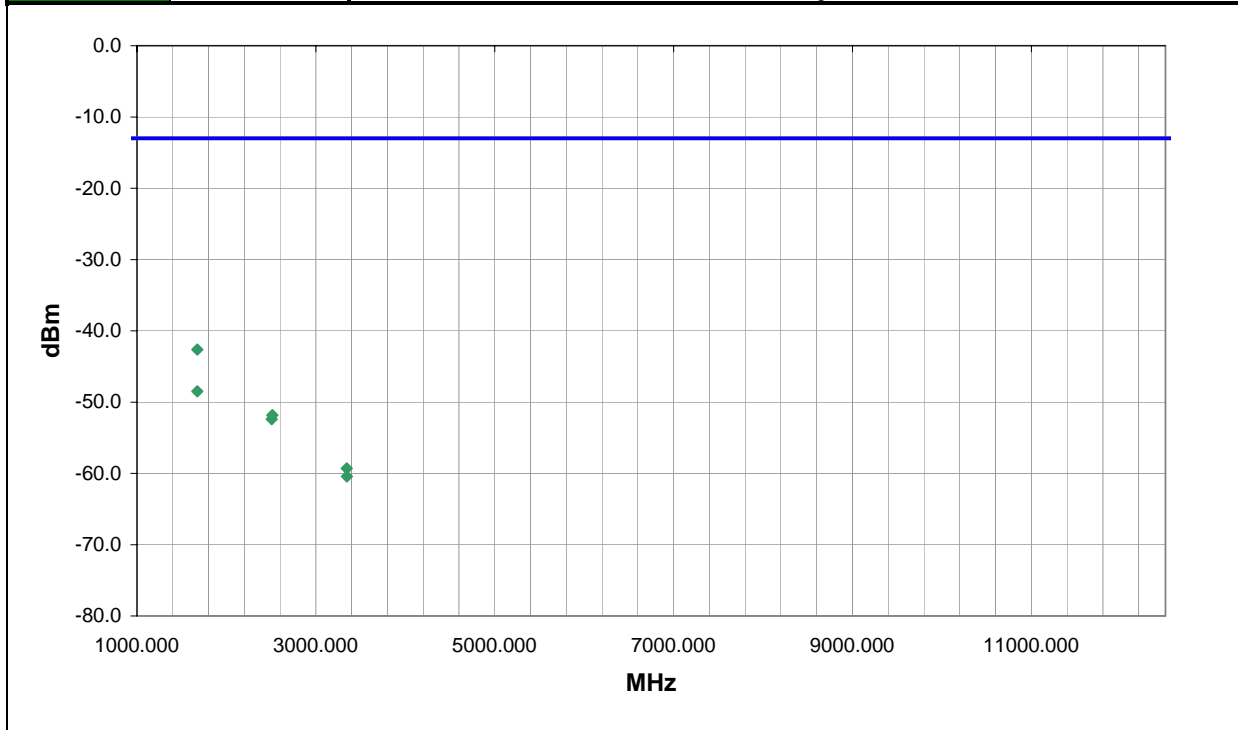
COMMENTS
Internal antenna.

EUT OPERATING MODES
WCDMA Cellular band mid channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	18	Signature <i>Holly Ashkannejhad</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)
1675.000	340.0	1.0	V-Horn	PK	5.47E-08	-42.6	-13.0	-29.6
1674.780	125.0	1.4	H-Horn	PK	1.42E-08	-48.5	-13.0	-35.5
2512.750	186.0	1.0	H-Horn	PK	6.57E-09	-51.8	-13.0	-38.8
2505.750	297.0	1.0	V-Horn	PK	5.76E-09	-52.4	-13.0	-39.4
3347.480	154.0	1.3	H-Horn	PK	9.07E-10	-60.4	-13.0	-47.4
3346.080	329.0	1.0	V-Horn	PK	1.18E-09	-59.3	-13.0	-46.3

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	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
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TEST PARAMETERS

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

Internal antenna.

EUT OPERATING MODES

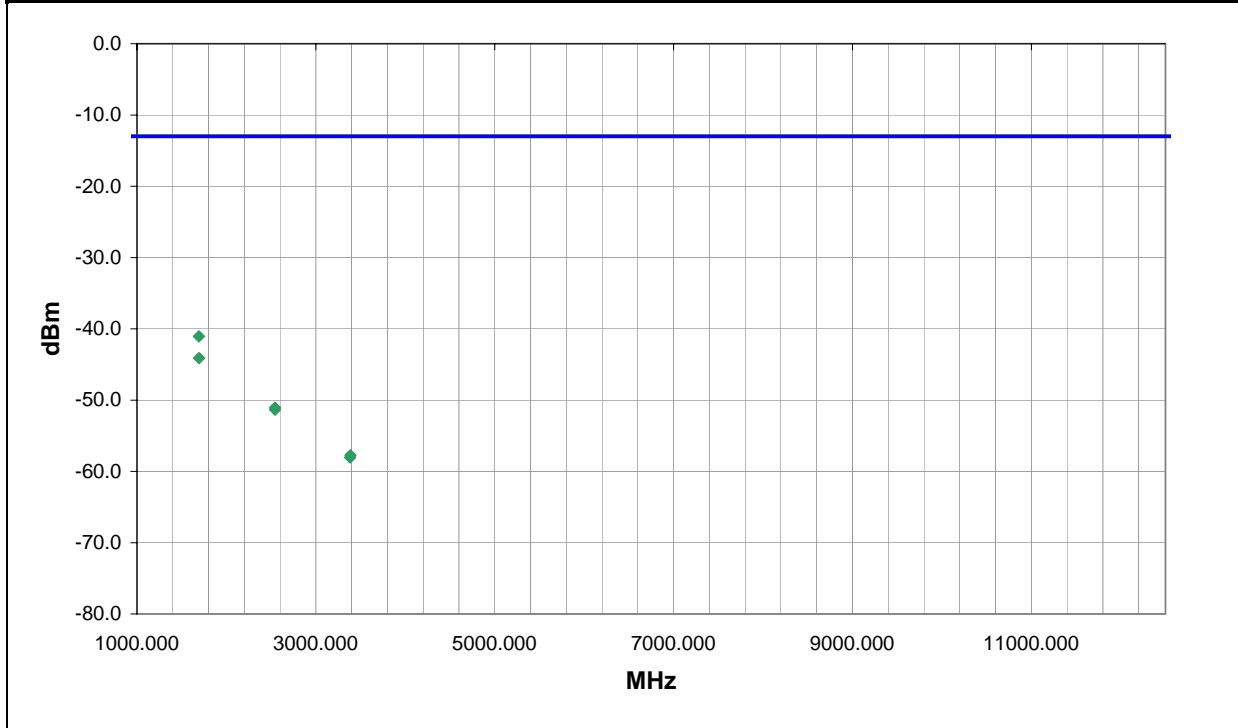
WCDMA Cellular band high channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	19	Signature <i>Holly Ashkannejhad</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)
1691.750	295.0	1.0	V-Horn	PK	7.86E-08	-41.0	-13.0	-28.0
1694.850	75.0	1.0	H-Horn	PK	3.88E-08	-44.1	-13.0	-31.1
2543.450	149.0	1.0	H-Horn	PK	7.84E-09	-51.1	-13.0	-38.1
2543.170	222.0	1.0	V-Horn	PK	7.34E-09	-51.3	-13.0	-38.3
3382.920	160.0	1.0	H-Horn	PK	1.57E-09	-58.1	-13.0	-45.1
3386.630	95.0	1.0	V-Horn	PK	1.68E-09	-57.7	-13.0	-44.7

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	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 22H:2005	ANSI/TIA/EIA-603-B-2002
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TEST PARAMETERS

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

External antenna. Vehicle mount configuration.

EUT OPERATING MODES

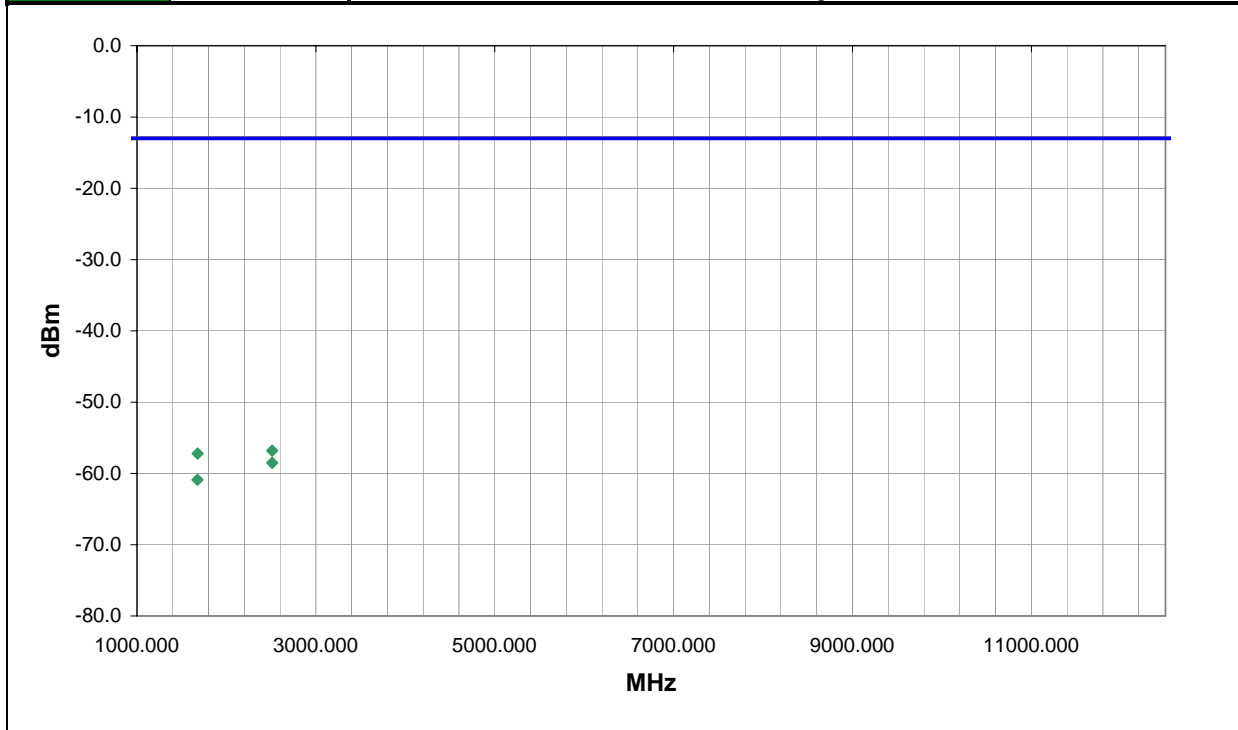
WCDMA Cellular band mid channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	32	Signature <i>Holly Ashkannejhad</i>
Configuration #	2	
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)
2511.670	202.0	1.5	V-Horn	PK	2.09E-09	-56.8	-13.0	-43.8
1677.590	290.0	1.0	V-Horn	PK	1.90E-09	-57.2	-13.0	-44.2
2510.990	164.0	1.0	H-Horn	PK	1.40E-09	-58.5	-13.0	-45.5
1677.100	25.0	1.0	H-Horn	PK	8.15E-10	-60.9	-13.0	-47.9

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	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 22H:2005	ANSI/TIA/EIA-603-B-2002
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TEST PARAMETERS

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

External antenna. Vehicle mount configuration.

EUT OPERATING MODES

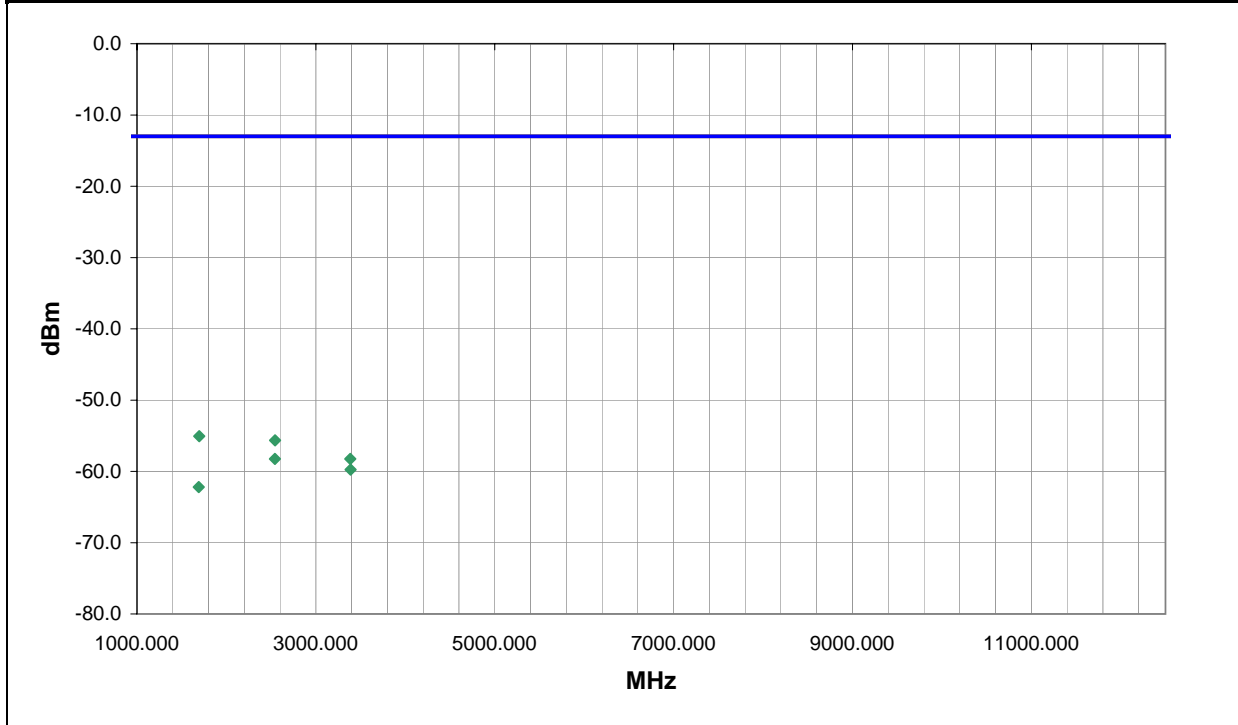
WCDMA Cellular band high channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	33	Signature <i>Holly Ashkannejhad</i>
Configuration #	2	
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)
1695.670	80.0	1.0	V-Horn	PK	3.12E-09	-55.1	-13.0	-42.1
2543.550	280.0	1.0	V-Horn	PK	2.73E-09	-55.6	-13.0	-42.6
3384.730	291.0	1.0	V-Horn	PK	1.50E-09	-58.2	-13.0	-45.2
2542.450	324.0	2.6	H-Horn	PK	1.49E-09	-58.3	-13.0	-45.3
3388.520	14.0	1.0	H-Horn	PK	1.06E-09	-59.8	-13.0	-46.8
1690.570	72.0	1.4	H-Horn	PK	6.02E-10	-62.2	-13.0	-49.2

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	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
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TEST PARAMETERS

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

External antenna. Vehicle mount configuration.

EUT OPERATING MODES

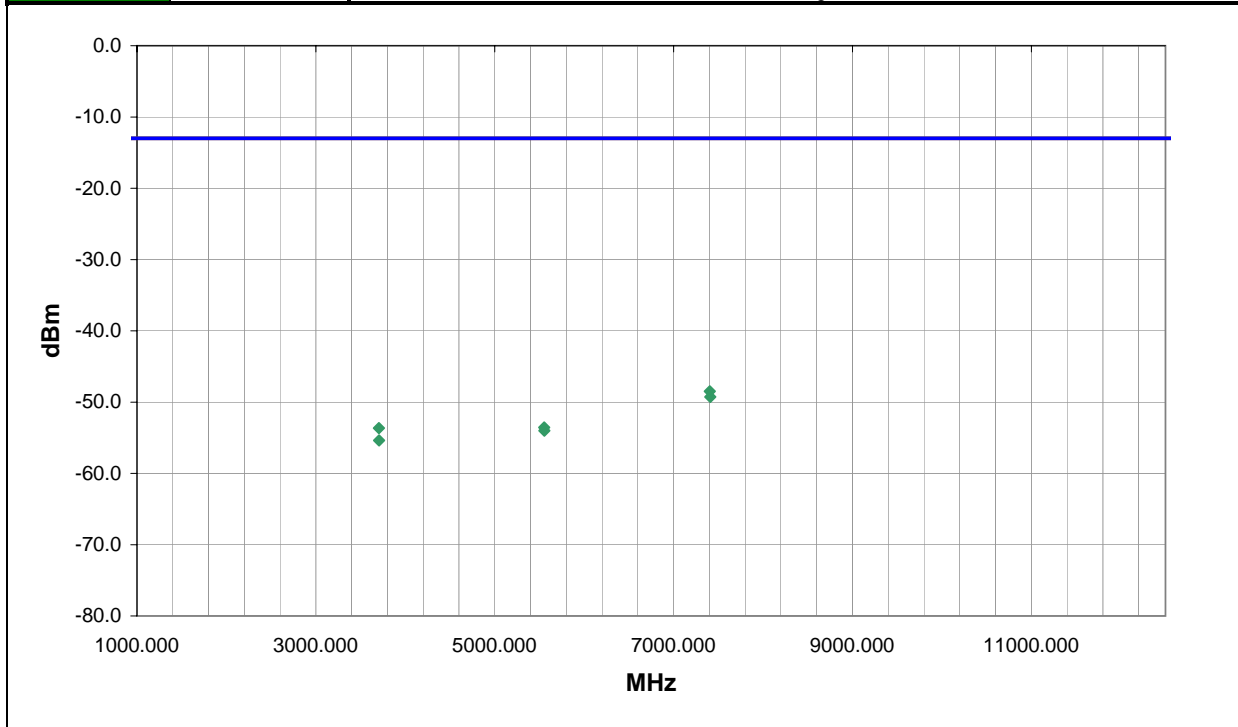
WCDMA PCS band low channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	34	Signature <i>Holly Ashkannejhad</i>
Configuration #	2	
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)
7405.670	114.0	1.0	H-Horn	PK	1.42E-08	-48.5	-13.0	-35.5
7409.750	306.0	1.0	V-Horn	PK	1.18E-08	-49.3	-13.0	-36.3
5553.180	360.0	2.6	V-Horn	PK	4.40E-09	-53.6	-13.0	-40.6
3704.900	267.0	1.0	V-Horn	PK	4.31E-09	-53.7	-13.0	-40.7
5554.180	33.0	3.3	H-Horn	PK	3.97E-09	-54.0	-13.0	-41.0
3707.230	335.0	2.1	H-Horn	PK	2.90E-09	-55.4	-13.0	-42.4

EUT:	IX600-MC8765	Work Order:	SPTE0026
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

FCC 24E:2005	Test Method
	ANSI/TIA/EIA-603-B-2002

TEST PARAMETERS

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

External antenna terminated. Vehicle mount configuration.

EUT OPERATING MODES

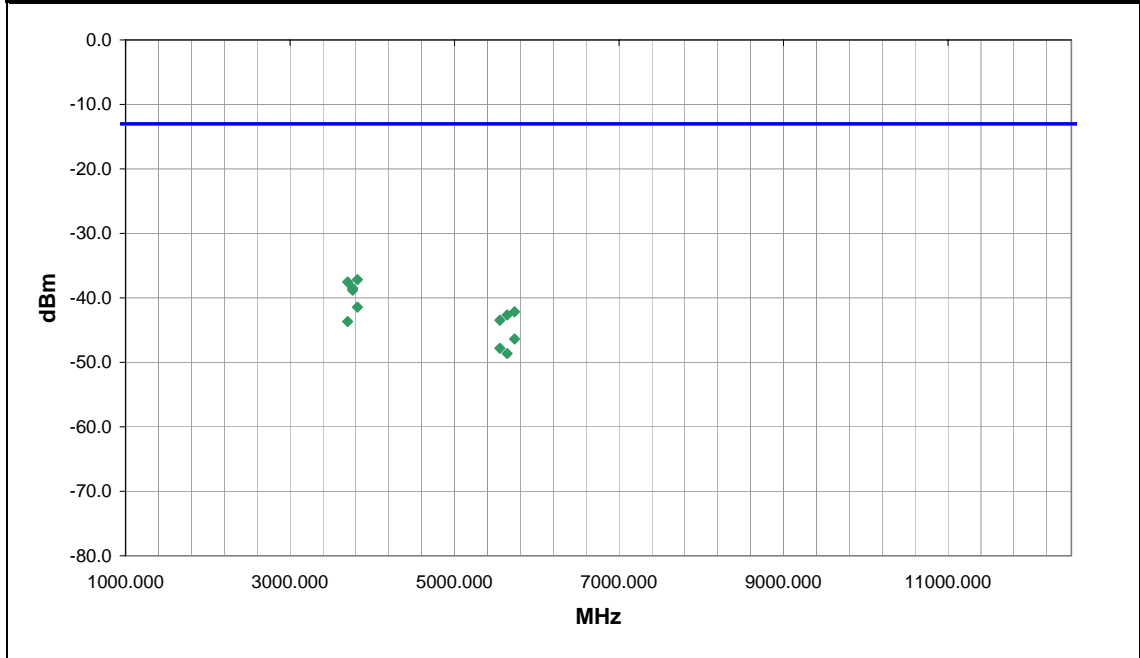
GSM PCS band. See comments for channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	11	 Signature
Configuration #	1	
Results	Pass	

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
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

EUT:	IX600-MC8765	Work Order:	SPTE0026
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

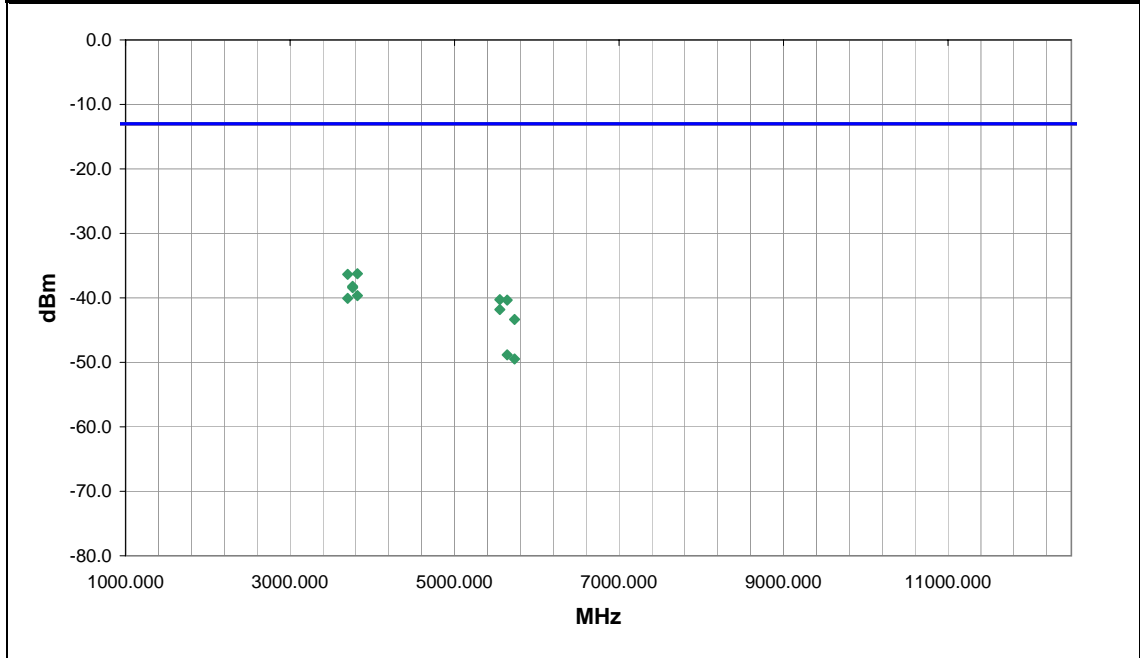
COMMENTS
External antenna terminated. Vehicle mount configuration.

EUT OPERATING MODES
EDGE PCS band. See comments for channel.

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	12	 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
3819.634	83.0	1.2	V-Horn	PK	2.37E-07	-36.3	-13.0	-23.3	High Channel
3700.362	261.0	1.2	V-Horn	PK	2.32E-07	-36.3	-13.0	-23.3	Low Channel
3760.038	80.0	1.0	V-Horn	PK	1.51E-07	-38.2	-13.0	-25.2	Mid Channel
3759.915	57.0	2.4	H-Horn	PK	1.44E-07	-38.4	-13.0	-25.4	Mid Channel
3819.951	14.0	2.1	H-Horn	PK	1.08E-07	-39.6	-13.0	-26.6	High Channel
3700.372	51.0	2.5	H-Horn	PK	9.84E-08	-40.1	-13.0	-27.1	Low Channel
5550.077	92.0	1.0	V-Horn	PK	9.40E-08	-40.3	-13.0	-27.3	Low Channel
5639.298	76.0	1.0	V-Horn	PK	9.21E-08	-40.4	-13.0	-27.4	Mid Channel
5550.623	25.0	1.8	H-Horn	PK	6.59E-08	-41.8	-13.0	-28.8	Low Channel
5728.769	75.0	1.4	V-Horn	PK	4.62E-08	-43.4	-13.0	-30.4	High Channel
5639.682	127.0	1.0	H-Horn	PK	1.30E-08	-48.8	-13.0	-35.8	Mid Channel
5729.575	39.0	1.5	H-Horn	PK	1.13E-08	-49.5	-13.0	-36.5	High Channel

EUT:	IX600-MC8765	Work Order:	SPTE0026
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
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TEST PARAMETERS

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

External antenna terminated. Vehicle mount configuration.

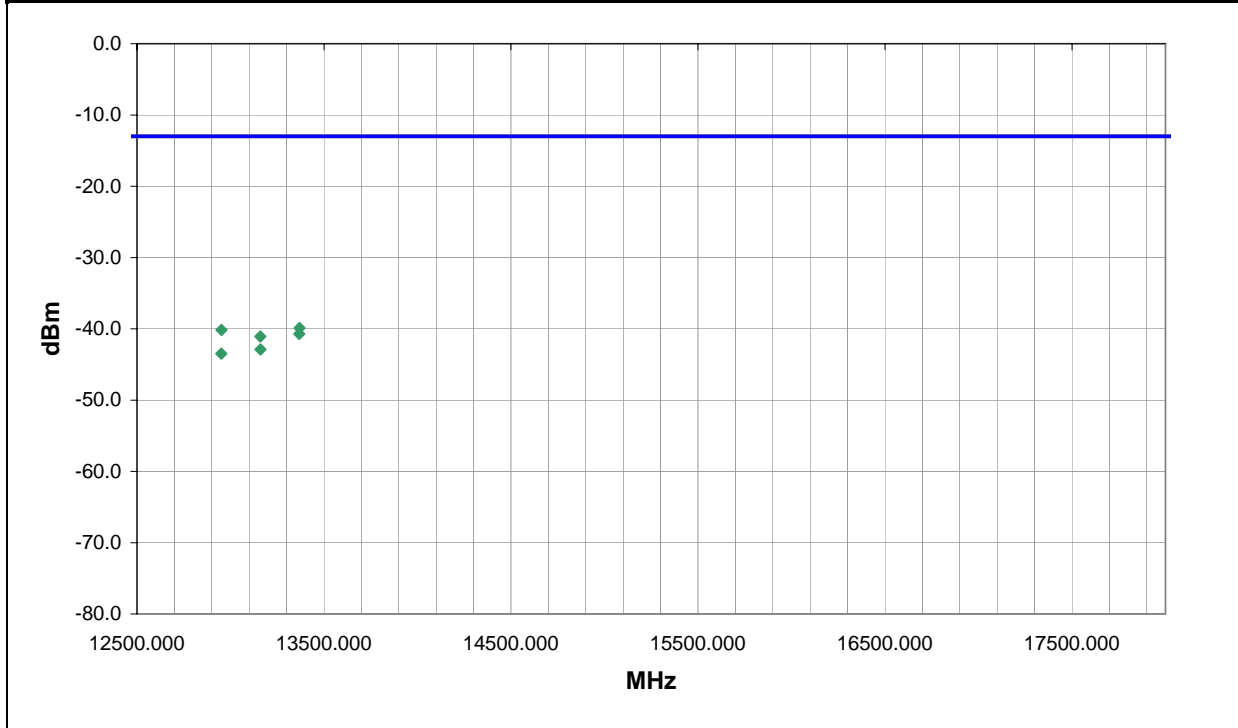
EUT OPERATING MODES

GSM PCS band, low channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	13	NVLAP Lab Code 200630-0 <i>Signature</i>
Configuration #	1	
Results	Pass	



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

EUT:	IX600-MC8765	Work Order:	SPTE0026
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

FCC 24E:2005	Test Method
	ANSI/TIA/EIA-603-B-2002

TEST PARAMETERS

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

External antenna terminated. Vehicle mount configuration.

EUT OPERATING MODES

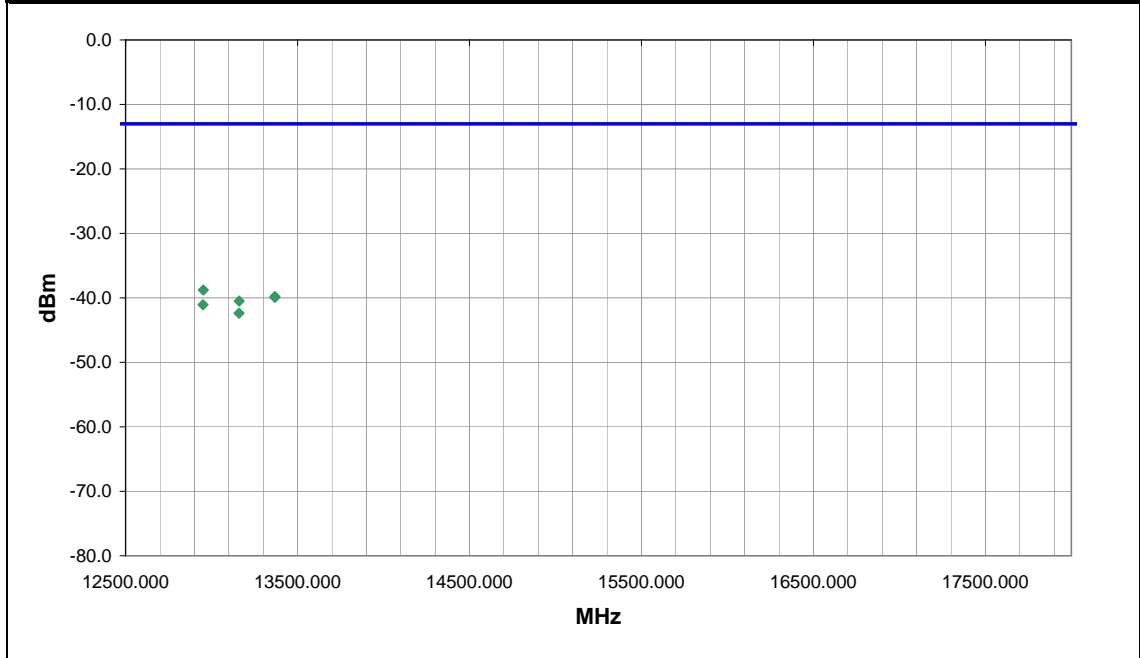
EDGE PCS band, low channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	14	 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
12951.760	123.0	1.1	V-Horn	PK	1.32E-07	-38.8	-13.0	-25.8	Low Channel
13368.340	106.0	1.7	V-Horn	PK	1.05E-07	-39.8	-13.0	-26.8	High Channel
13368.210	105.0	1.8	H-Horn	PK	1.02E-07	-39.9	-13.0	-26.9	High Channel
13160.670	131.0	1.1	V-Horn	PK	8.94E-08	-40.5	-13.0	-27.5	Mid Channel
12950.630	110.0	1.7	H-Horn	PK	7.84E-08	-41.1	-13.0	-28.1	Low Channel
13159.290	34.0	1.6	H-Horn	PK	5.77E-08	-42.4	-13.0	-29.4	Mid Channel

Out of Band Emissions

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

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

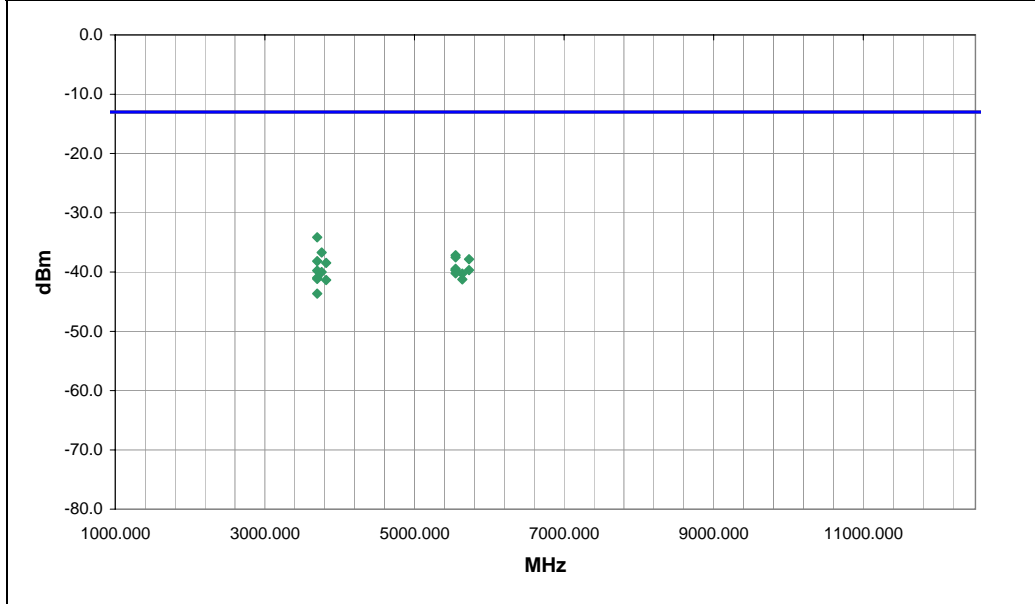
COMMENTS
Internal antenna terminated. Notebook standalone configuration.

EUT OPERATING MODES
GSM PCS band. See comments for channel.

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	15	 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)	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

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: 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. Notebook standalone configuration.

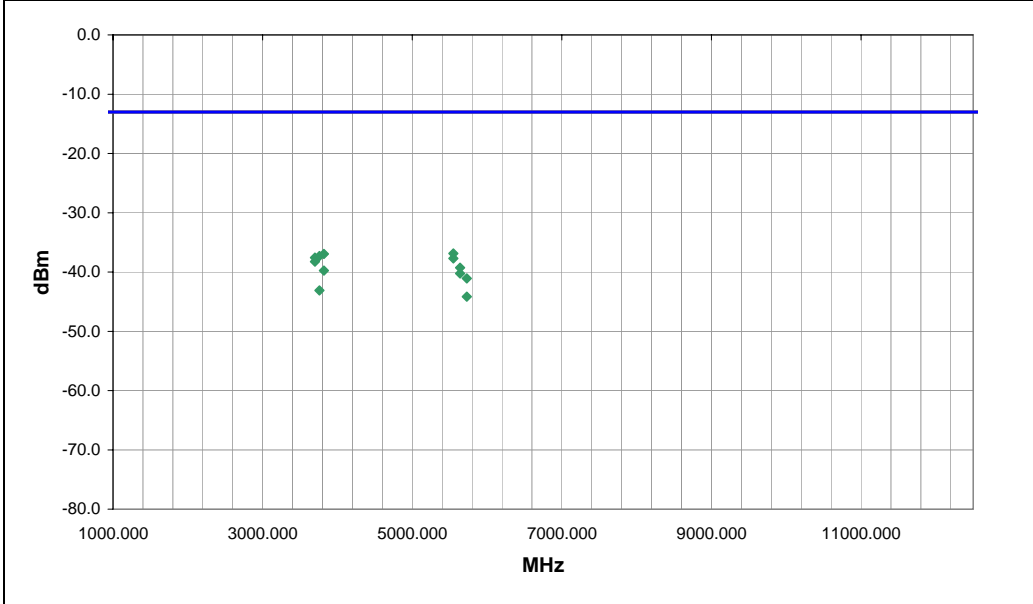
EUT OPERATING MODES
Edge PCS band. See comments for channel.

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	16
Configuration #	3
Results	Pass

NVLAP Lab Code 200630-0

Signature *Holly Ashkannejhad*



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
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

EUT: IX600-MC8765	Work Order: SPTE0026
Serial Number: 35922600004984	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
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TEST PARAMETERS

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

Internal antenna.

EUT OPERATING MODES

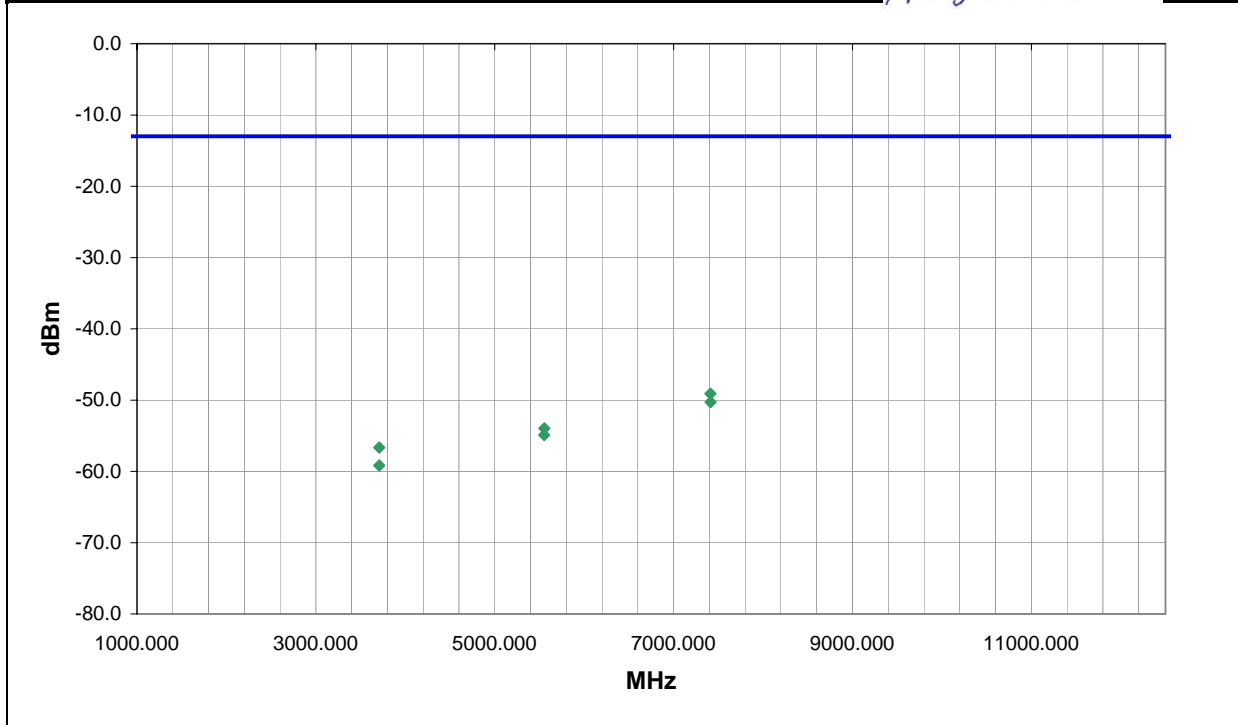
WCDMA PCS band low channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	21	Signature <i>Holly Ashkannejhad</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)
7412.070	171.0	1.0	H-Horn	PK	1.23E-08	-49.1	-13.0	-36.1
7413.200	141.0	1.0	V-Horn	PK	9.39E-09	-50.3	-13.0	-37.3
5555.180	230.0	1.0	V-Horn	PK	4.01E-09	-54.0	-13.0	-41.0
5552.350	228.0	1.0	H-Horn	PK	3.23E-09	-54.9	-13.0	-41.9
3709.180	340.0	1.6	V-Horn	PK	2.16E-09	-56.7	-13.0	-43.7
3707.830	158.0	2.8	H-Horn	PK	1.21E-09	-59.2	-13.0	-46.2

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	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
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TEST PARAMETERS

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

Internal antenna.

EUT OPERATING MODES

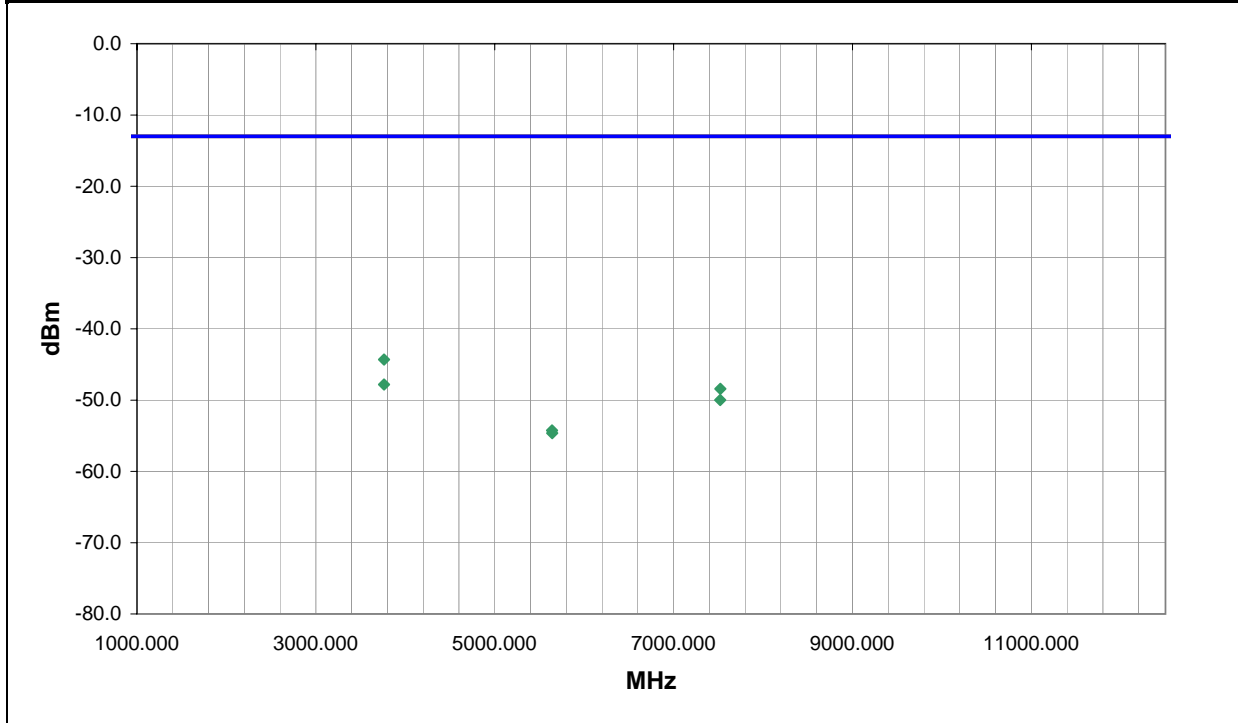
WCDMA PCS band low channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	22	Signature <i>Holly Ashkannejhad</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)
3762.670	121.0	1.0	V-Horn	PK	3.71E-08	-44.3	-13.0	-31.3
3762.550	82.0	1.0	H-Horn	PK	1.66E-08	-47.8	-13.0	-34.8
7522.300	273.0	3.3	H-Horn	PK	1.44E-08	-48.4	-13.0	-35.4
7521.270	44.0	1.0	V-Horn	PK	1.00E-08	-50.0	-13.0	-37.0
5640.050	87.0	1.0	V-Horn	PK	3.75E-09	-54.3	-13.0	-41.3
5642.300	162.0	2.7	H-Horn	PK	3.43E-09	-54.6	-13.0	-41.6

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	Date:	06/09/06
Customer:	Spectrum Technology	Temperature:	23
Attendees:	Rod Munro	Humidity:	47%
Project:	None	Barometric Pres.:	29.98
Tested by:	Rod Pelquin	Power:	120VAC/60Hz
		Job Site:	EV01

TEST SPECIFICATIONS Test Method

FCC 24E:2005	ANSI/TIA/EIA-603-B-2002
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TEST PARAMETERS

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

Internal antenna

EUT OPERATING MODES

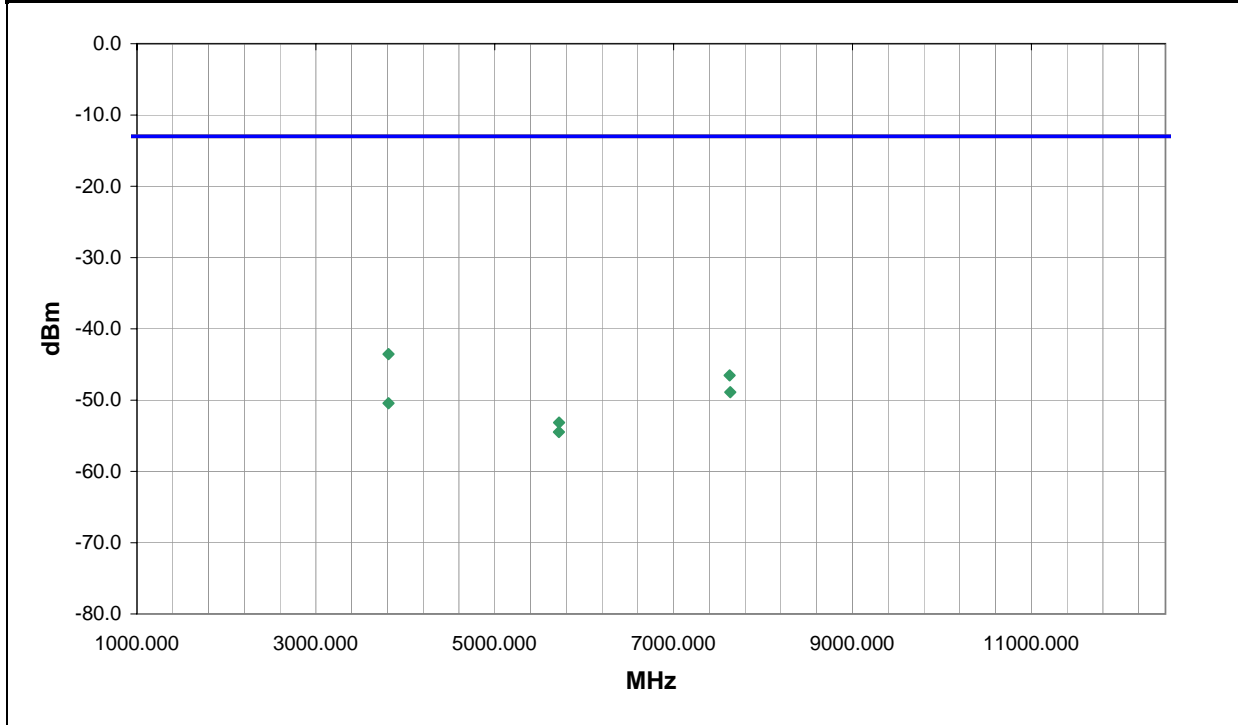
WCDMA PCS band high channel

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

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	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 22H:2005	ANSI/TIA/EIA-603-B-2002
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TEST PARAMETERS

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

External antenna. Vehicle mount configuration.

EUT OPERATING MODES

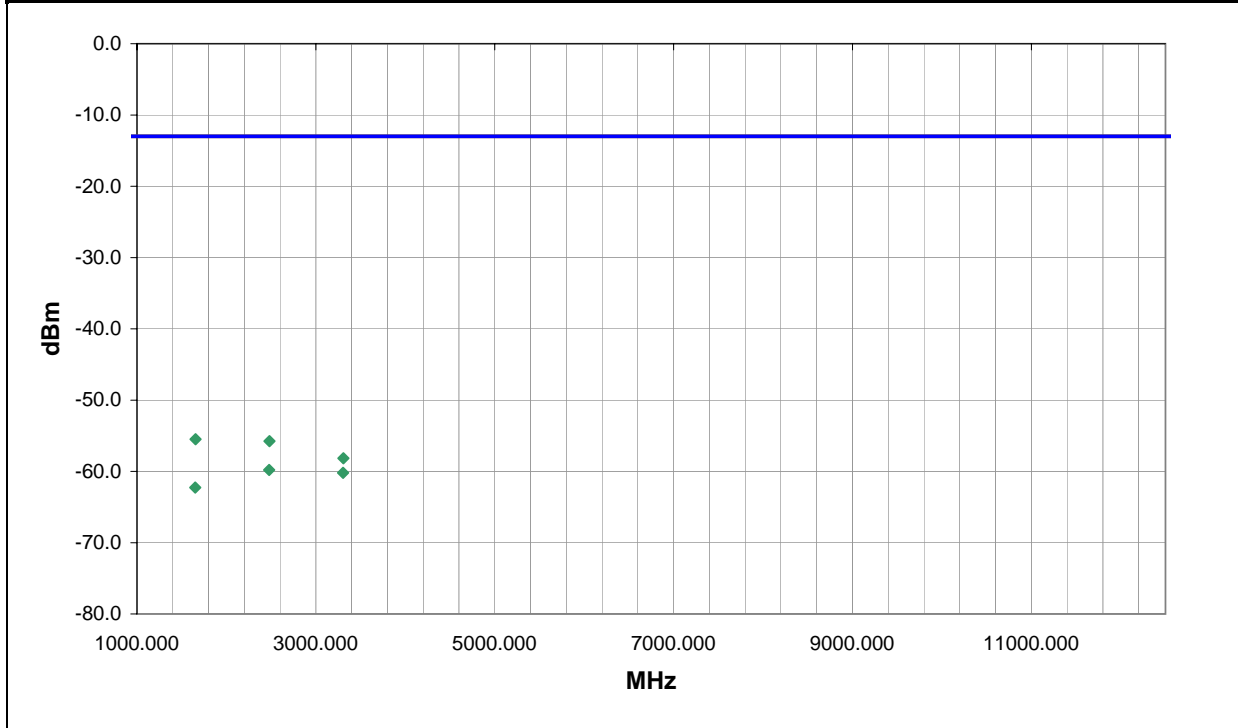
WCDMA Cellular band low channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	31	Signature <i>Holly Ashkannejhad</i>
Configuration #	2	
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)
1654.973	80.0	1.0	V-Horn	PK	2.83E-09	-55.5	-13.0	-42.5
2482.213	277.0	1.0	V-Horn	PK	2.65E-09	-55.8	-13.0	-42.8
3307.360	-1.0	1.5	V-Horn	PK	1.53E-09	-58.2	-13.0	-45.2
2477.787	249.0	1.0	H-Horn	PK	1.05E-09	-59.8	-13.0	-46.8
3304.467	10.0	1.0	H-Horn	PK	9.56E-10	-60.2	-13.0	-47.2
1650.360	77.0	1.0	H-Horn	PK	5.94E-10	-62.3	-13.0	-49.3

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	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
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TEST PARAMETERS

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

External antenna. Vehicle mount configuration.

EUT OPERATING MODES

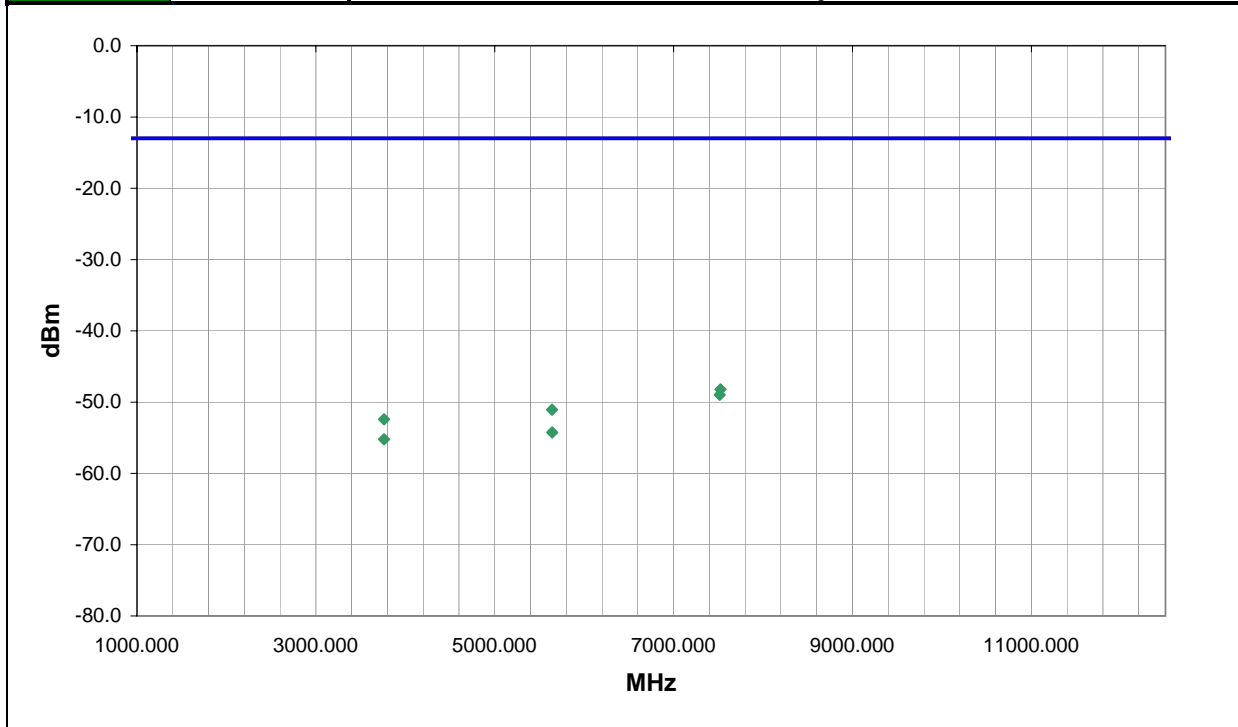
WCDMA PCS band mid channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	35	Signature <i>Holly Ashkannejhad</i>
Configuration #	2	
Results	Pass	

NVLAP Lab Code 200630-0



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Spec. (dB)	Compared to Spec. (dB)
7524.450	188.0	2.8	H-Horn	PK	1.51E-08	-48.2	-13.0	-35.2	
7515.470	297.0	1.0	V-Horn	PK	1.27E-08	-49.0	-13.0	-36.0	
5640.630	83.0	1.0	V-Horn	PK	7.84E-09	-51.1	-13.0	-38.1	
3762.480	23.0	1.0	V-Horn	PK	5.74E-09	-52.4	-13.0	-39.4	
5641.900	37.0	1.0	H-Horn	PK	3.76E-09	-54.2	-13.0	-41.2	
3761.880	62.0	2.3	H-Horn	PK	3.01E-09	-55.2	-13.0	-42.2	

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	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
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TEST PARAMETERS

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

External antenna. Vehicle mount configuration.

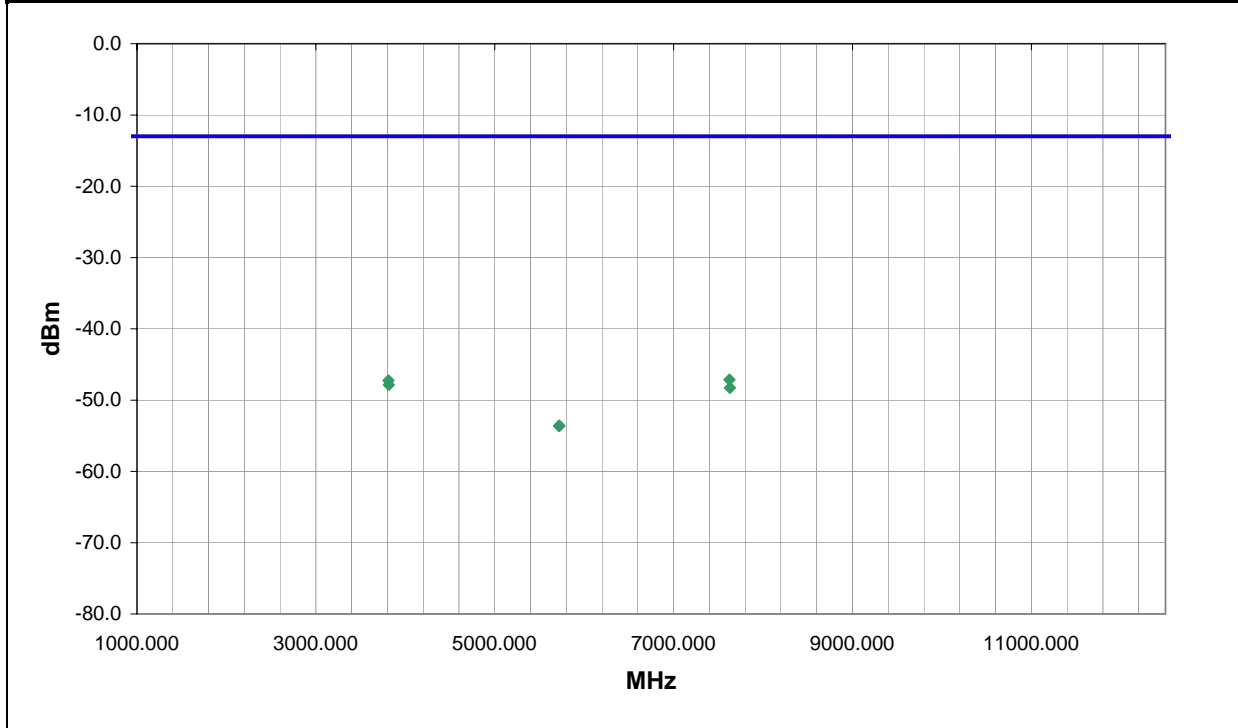
EUT OPERATING MODES

WCDMA PCS band high channel

DEVIATIONS FROM TEST STANDARD

No deviations.

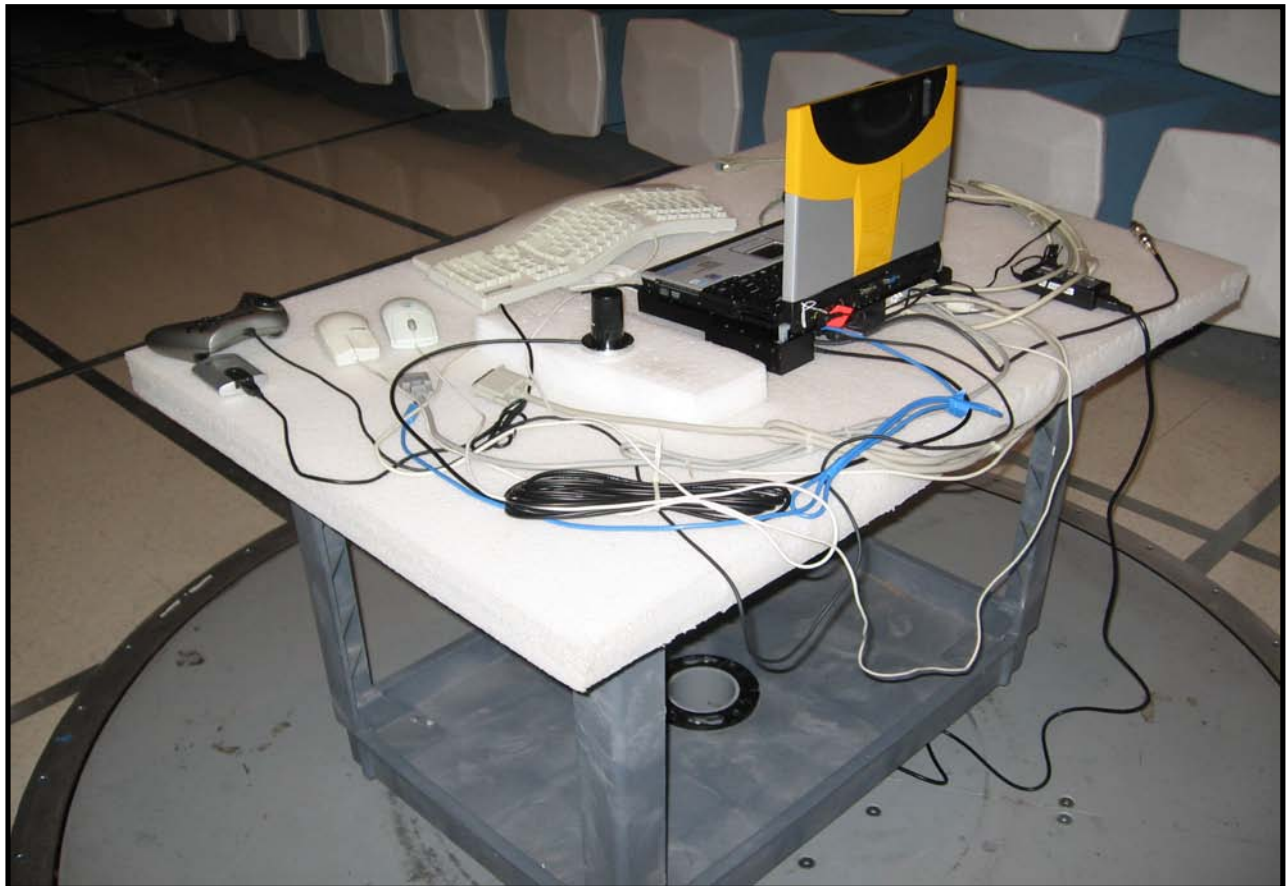
Run #	36	NVLAP Lab Code 200630-0 <i>Signature</i> 
Configuration #	2	
Results	Pass	

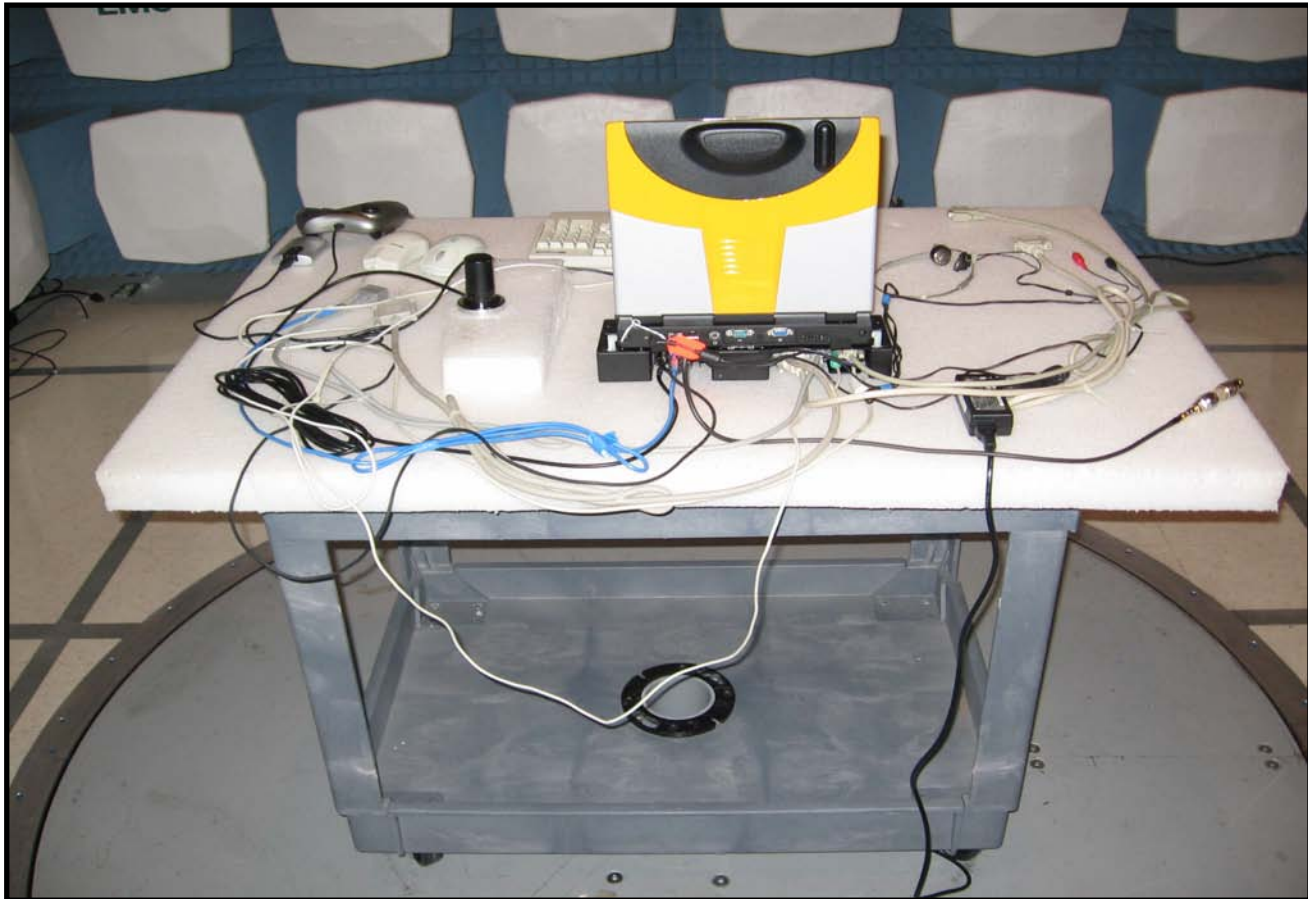


Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
7624.760	292.0	1.2	H-Horn	PK	1.93E-08	-47.1	-13.0	-34.1
3812.490	19.0	1.1	V-Horn	PK	1.88E-08	-47.3	-13.0	-34.3
3816.840	332.0	1.2	H-Horn	PK	1.64E-08	-47.8	-13.0	-34.8
7630.060	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









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.

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
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TEST PARAMETERS

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

External antenna. Vehicle mount configuration.

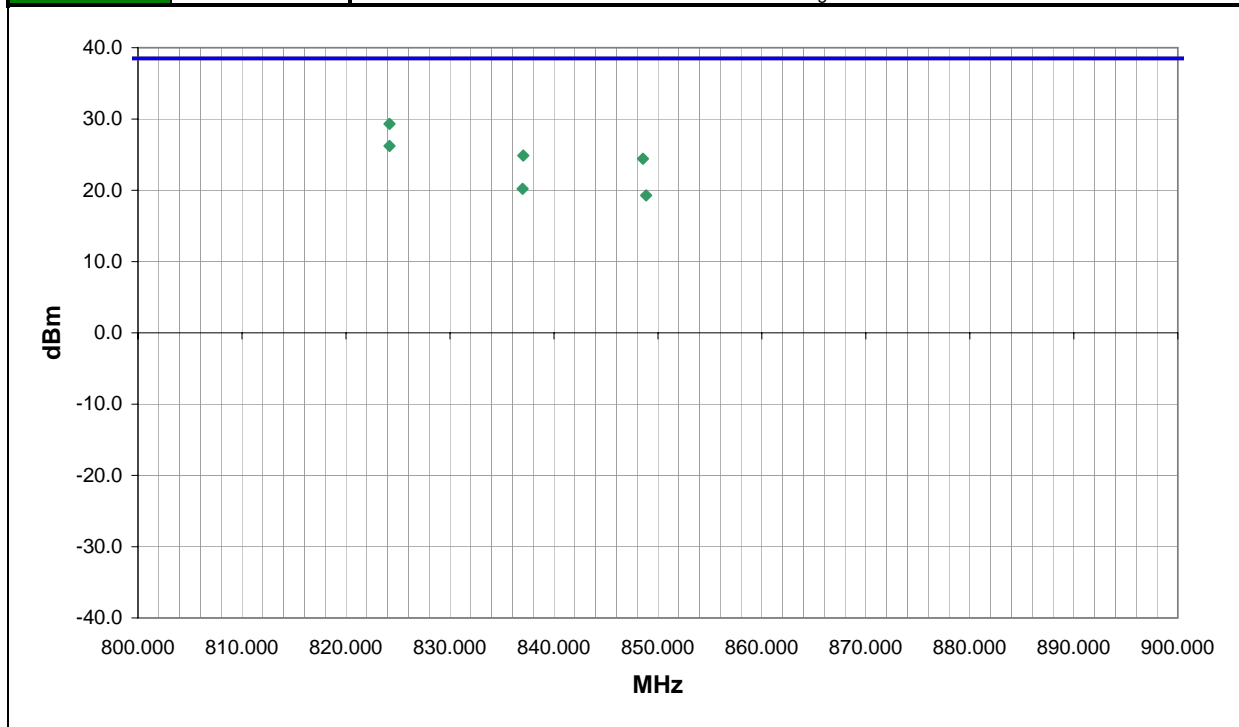
EUT OPERATING MODES

GSM Cellular band

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	1	NVLAP Lab Code 200630-0 <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

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
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TEST PARAMETERS

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

External antenna. Vehicle mount configuration.

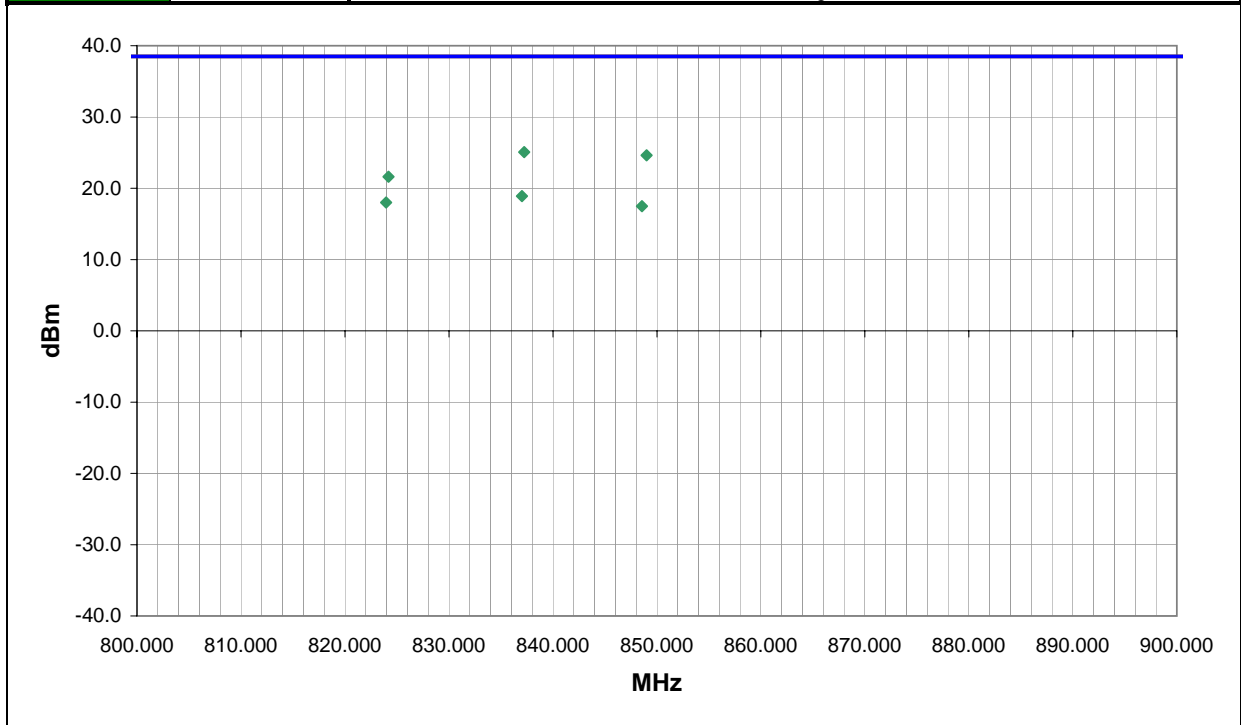
EUT OPERATING MODES

Edge cellular band

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	2	NVLAP Lab Code 200630-0 Signature <i>Holly Ashkannejhad</i>
Configuration #	2	
Results	Pass	



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

Effective Radiated Power (EIRP)

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

FCC 24E:2005	Test Method
	ANSI/TIA/EIA-603-B-2002

TEST PARAMETERS

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

External antenna. Vehicle mount configuration.

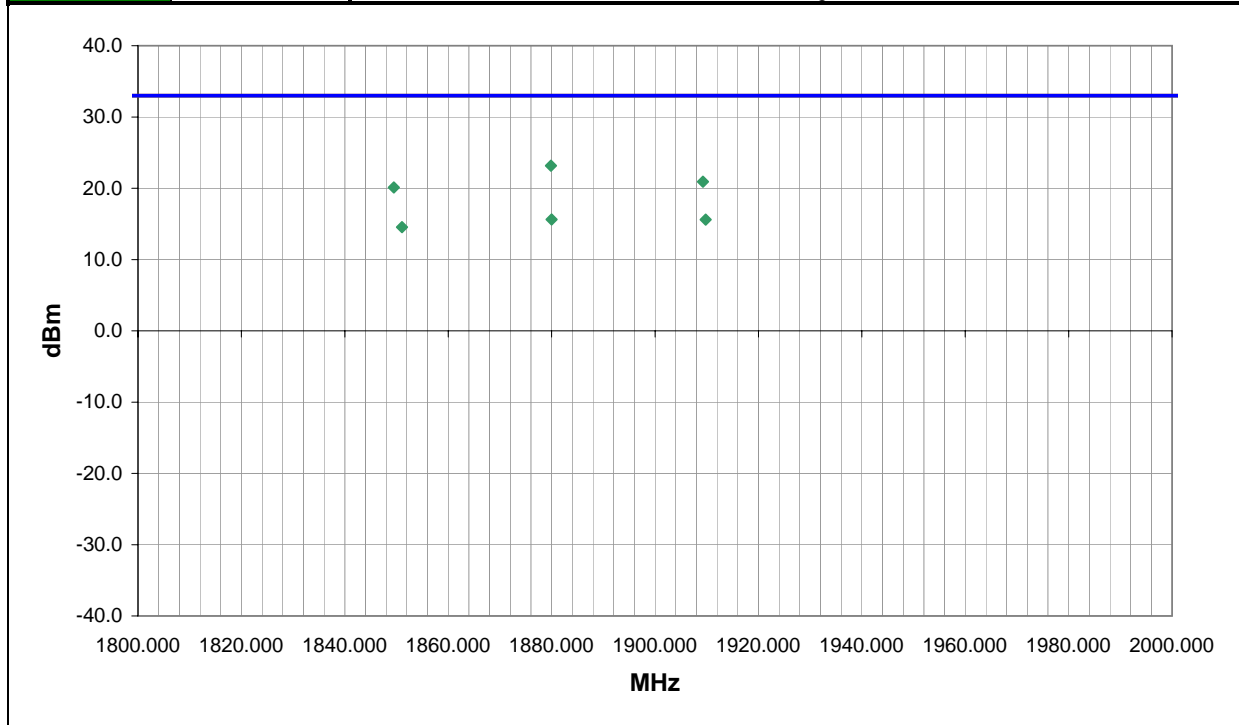
EUT OPERATING MODES

GSM PCS band

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	3	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)
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

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
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TEST PARAMETERS

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

External antenna. Vehicle mount configuration.

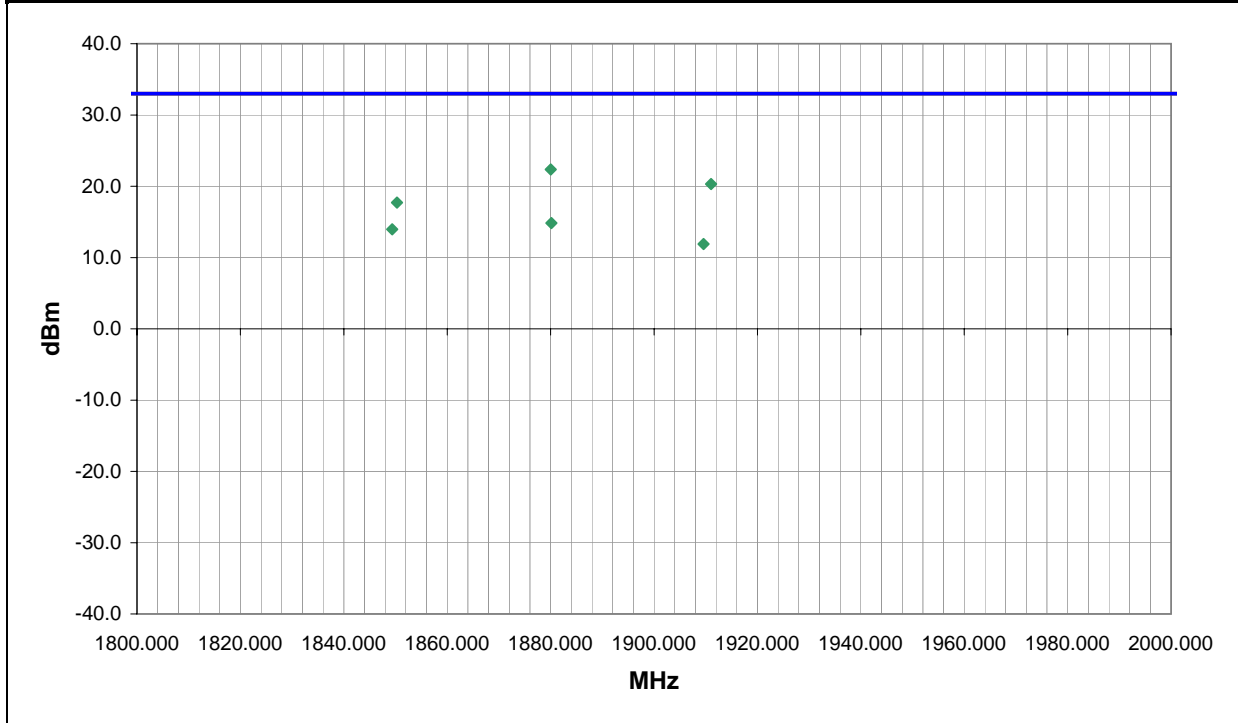
EUT OPERATING MODES

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

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	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

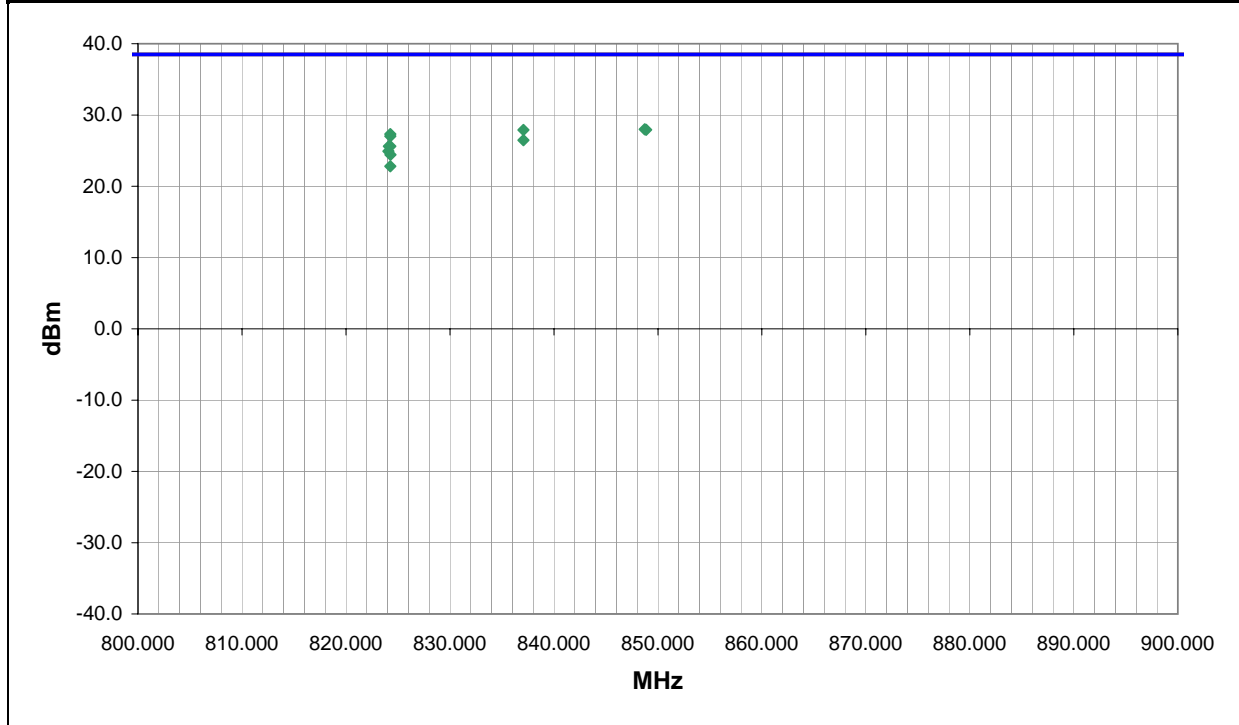
COMMENTS
Internal antenna. Notebook standalone configuration.

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

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

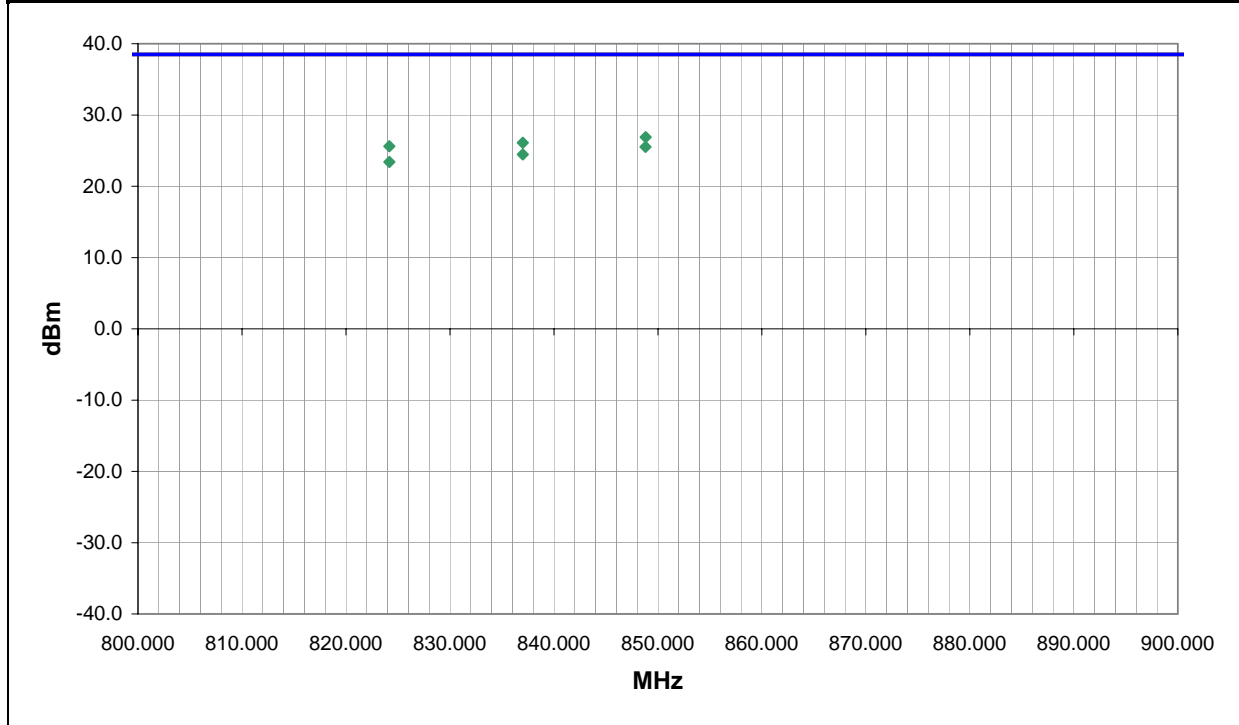
COMMENTS
Internal antenna. Notebook standalone configuration.

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

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	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

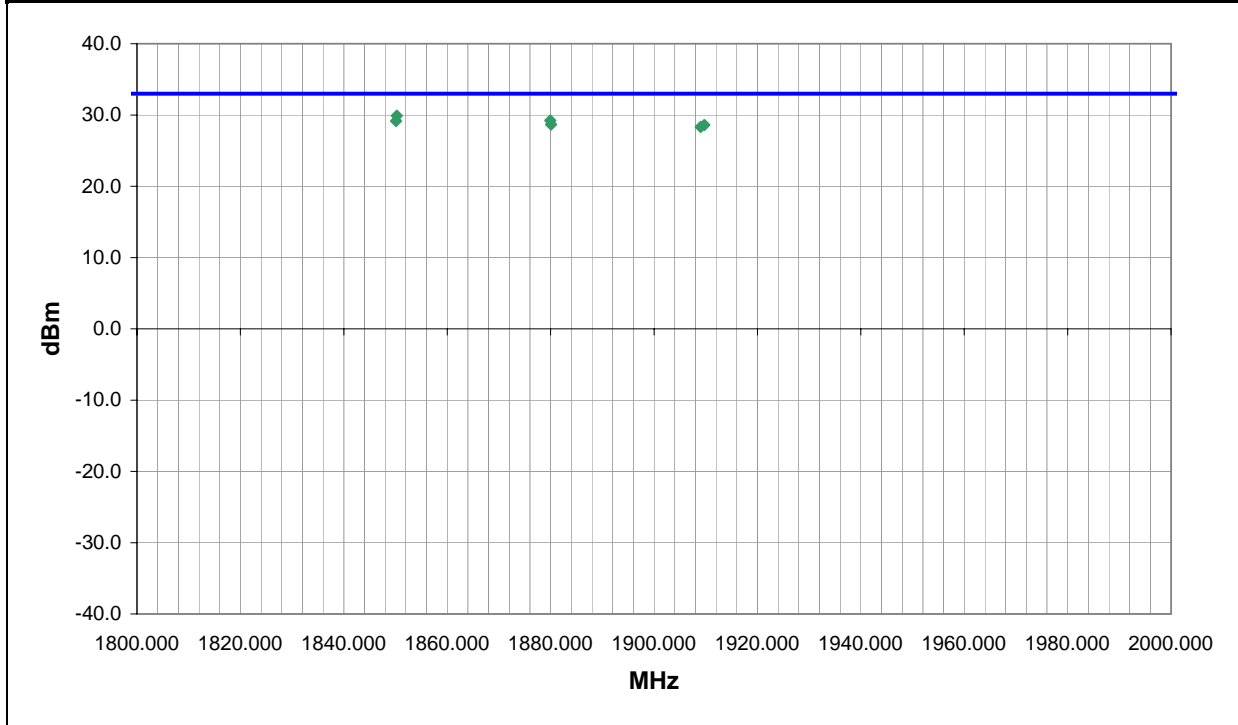
TEST SPECIFICATIONS	Test Method
FCC 24E:2005	ANSI/TIA/EIA-603-B-2002

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	NVLAP Lab Code 200630-0 <i>Signature</i>
Configuration #	3	
Results	Pass	



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

EUT:	IX600-MC8765	Work Order:	SPTE0026
Serial Number:	35922600004984	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 24E:2005	ANSI/TIA/EIA-603-B-2002

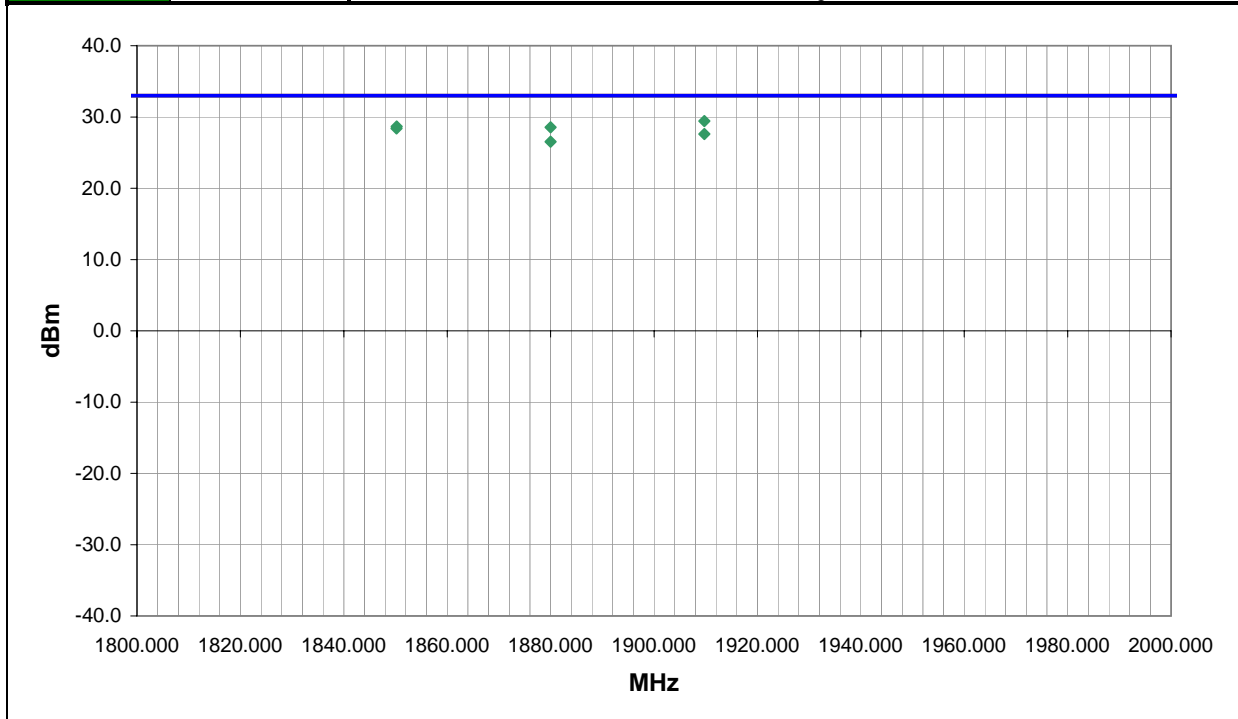
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
Internal antenna. Notebook standalone configuration.

EUT OPERATING MODES
GSM PCS band, see comments for channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	8	NVLAP Lab Code 200630-0 <i>Anthony L. Pelroy</i> Signature
Configuration #	3	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
1909.727	215.0	1.0	V-Horn	PK	8.75E-01	29.4	33.0	-3.6
1850.237	295.0	1.5	H-Horn	PK	7.33E-01	28.7	33.0	-4.3
1879.997	204.0	1.0	V-Horn	PK	7.18E-01	28.6	33.0	-4.4
1850.183	1.0	1.4	V-Horn	PK	6.93E-01	28.4	33.0	-4.6
1909.727	286.0	1.7	H-Horn	PK	5.76E-01	27.6	33.0	-5.4
1879.987	264.0	1.1	H-Horn	PK	4.50E-01	26.5	33.0	-6.5

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:	Rod Peloquin	Power:	120VAC/60Hz
		Job Site:	EV01

TEST SPECIFICATIONS Test Method

FCC 22H:2005	ANSI/TIA/EIA-603-B-2002
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TEST PARAMETERS

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

Internal antenna. Notebook standalone configuration.

EUT OPERATING MODES

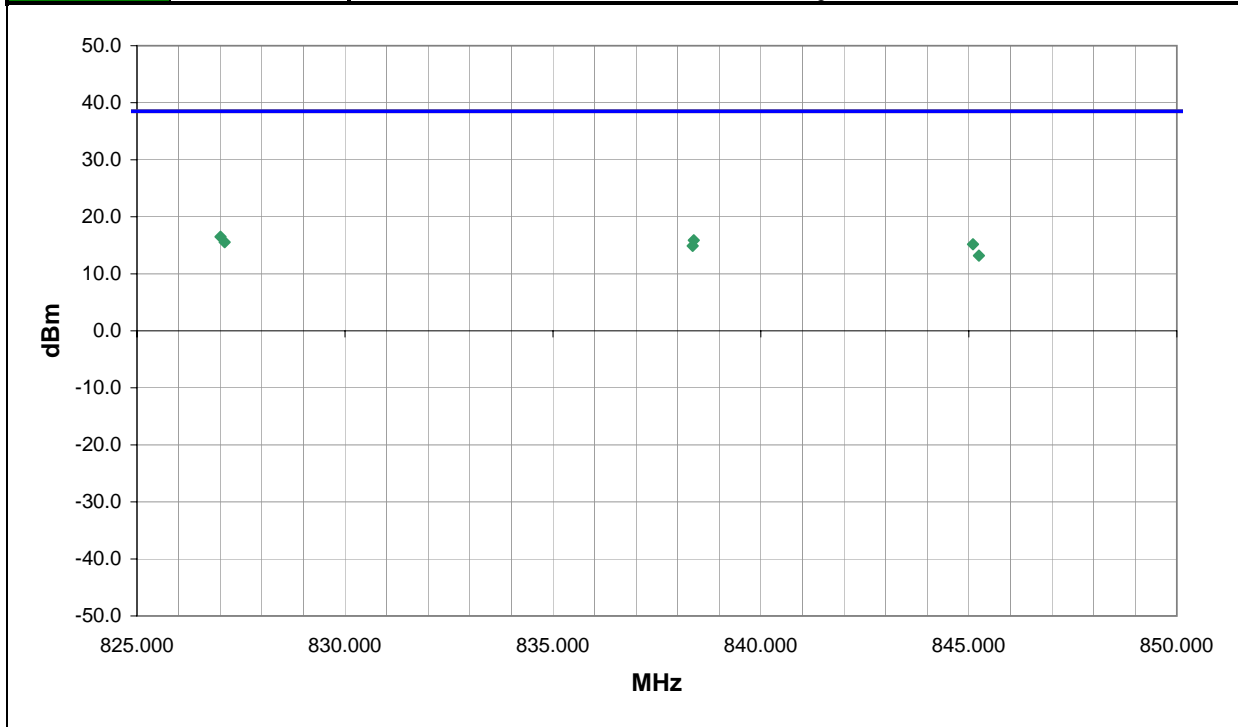
W-CDMA Cellular band, see comments for channel

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

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: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV01

TEST SPECIFICATIONS Test Method

FCC 24E:2005	ANSI/TIA/EIA-603-B-2002
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TEST PARAMETERS

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

Internal antenna. Notebook standalone configuration.

EUT OPERATING MODES

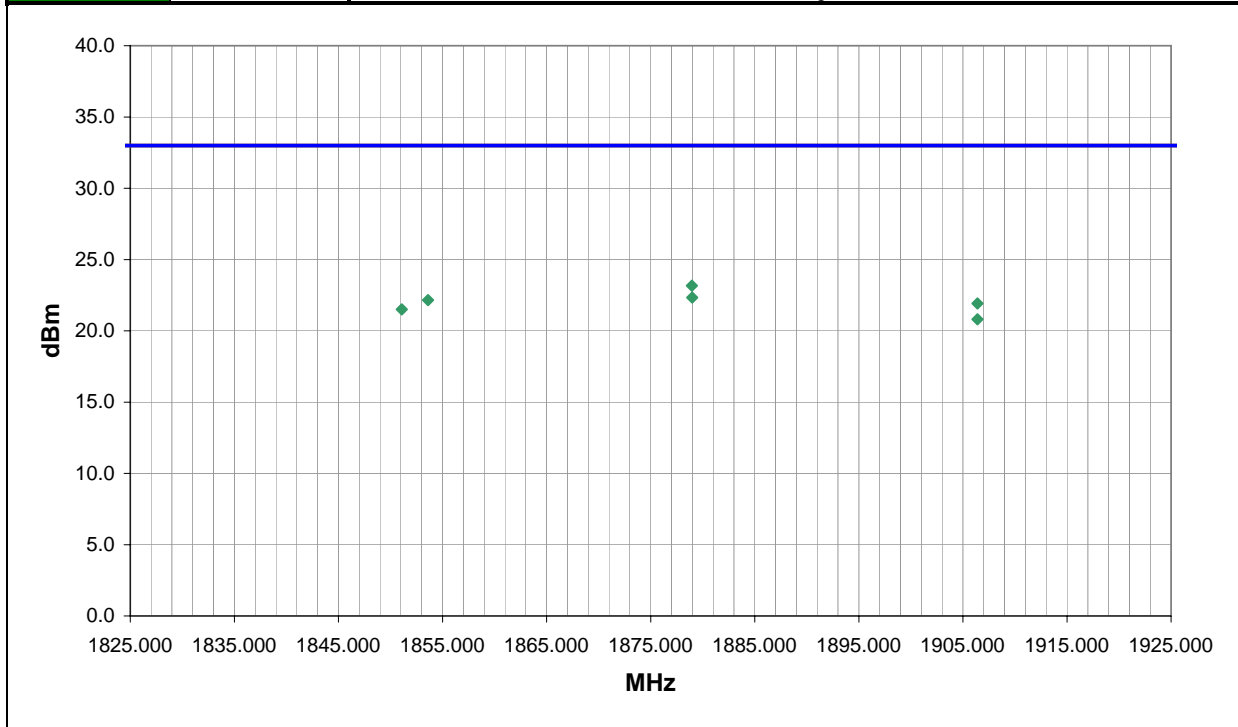
W-CDMA PCS band, see comments for channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	28	 Signature
Configuration #	2	
Results	Pass	

NVLAP Lab Code 200630-0



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

EUT: IX600-MC8765	Work Order: SPTE0026
Serial Number: 35922600004984	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
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TEST PARAMETERS

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

External antenna. Vehicle mount configuration.

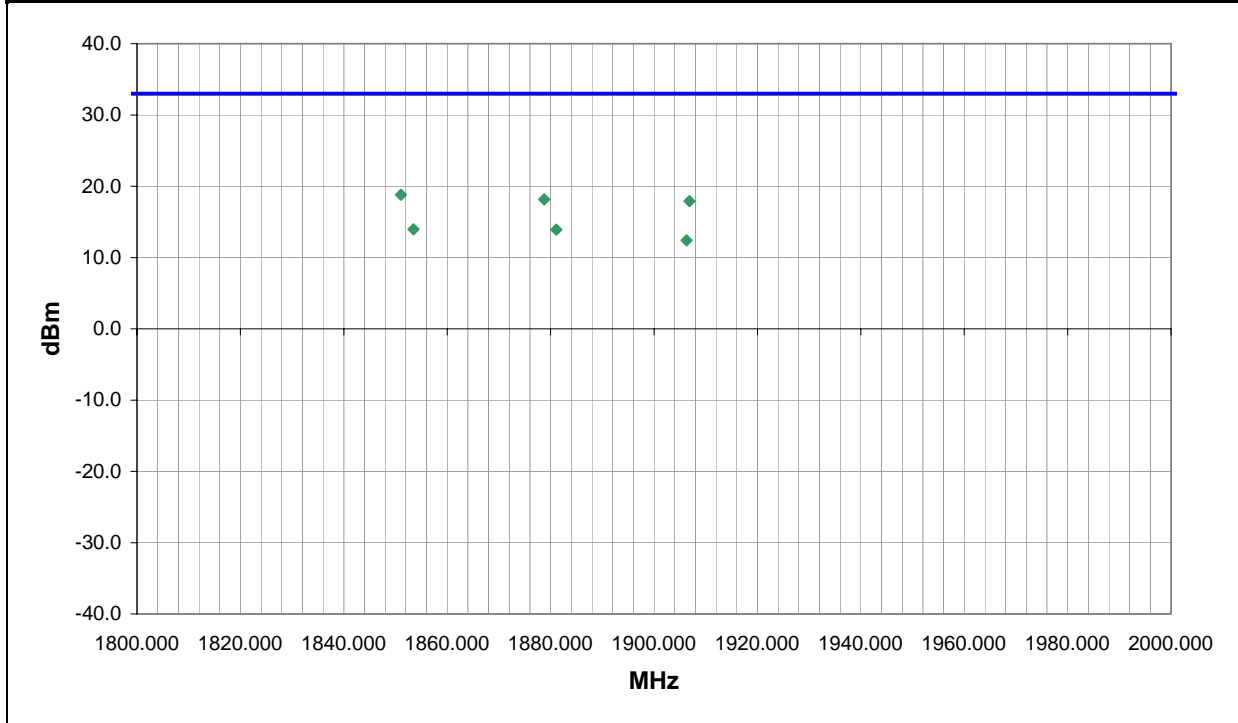
EUT OPERATING MODES

W-CDMA PCS band, see comments for channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	29	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)
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

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
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TEST PARAMETERS

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

External antenna. Vehicle Mount Configuration.

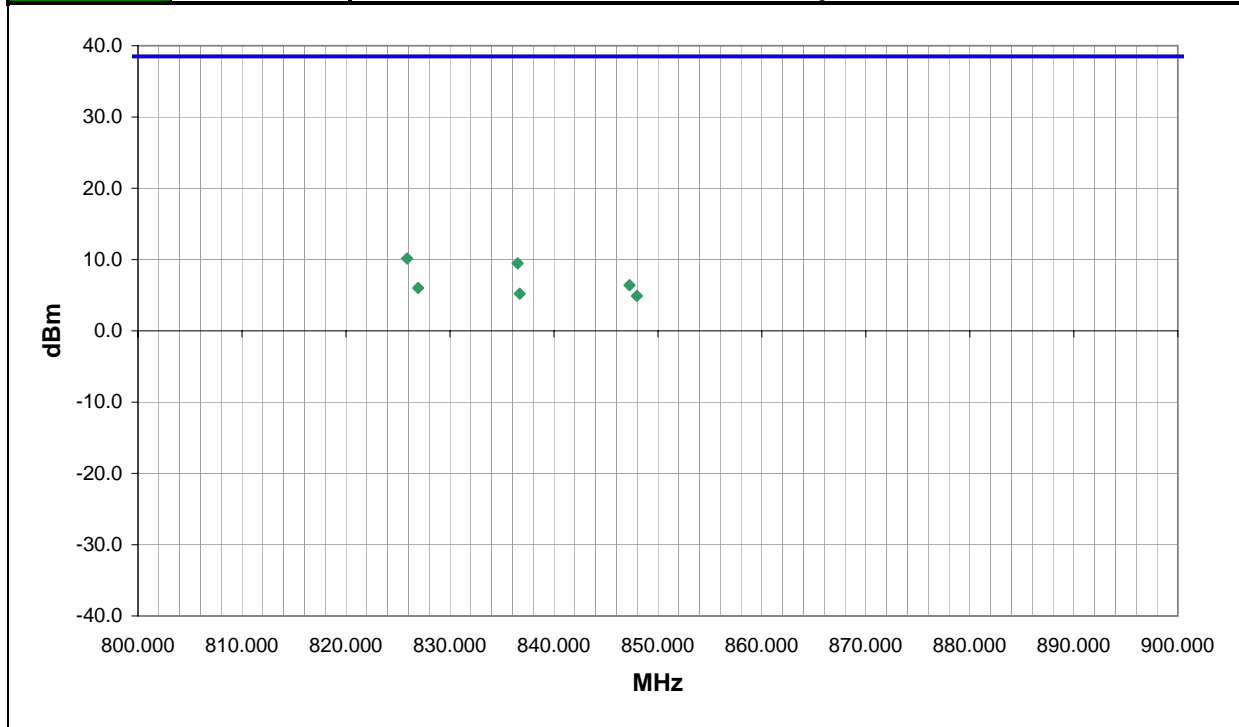
EUT OPERATING MODES

W-CDMA Cellular band, see comments for channel

DEVIATIONS FROM TEST STANDARD

No deviations.

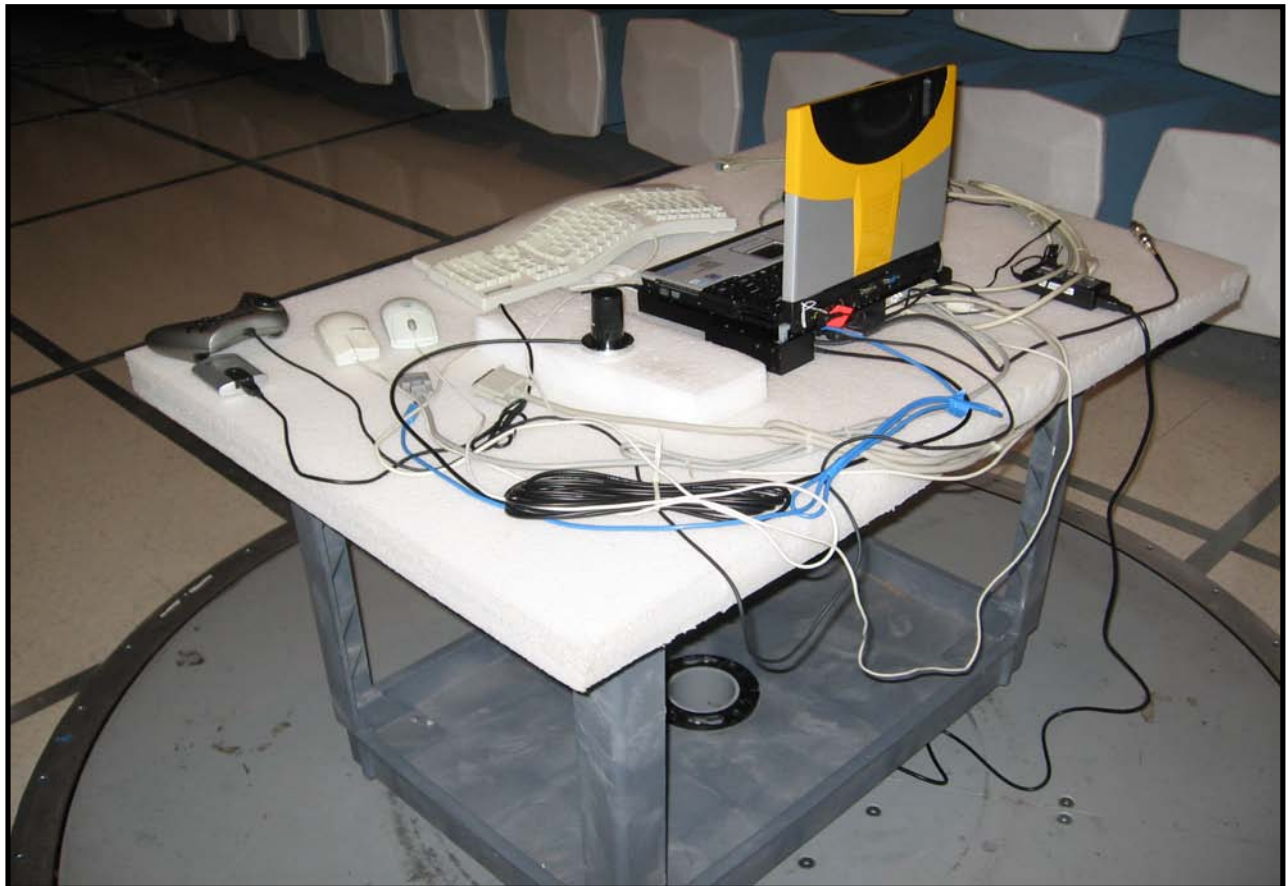
Run #	30	NVLAP Lab Code 200630-0 Signature <i>Holly Ashkannejhad</i>
Configuration #	2	
Results	Pass	

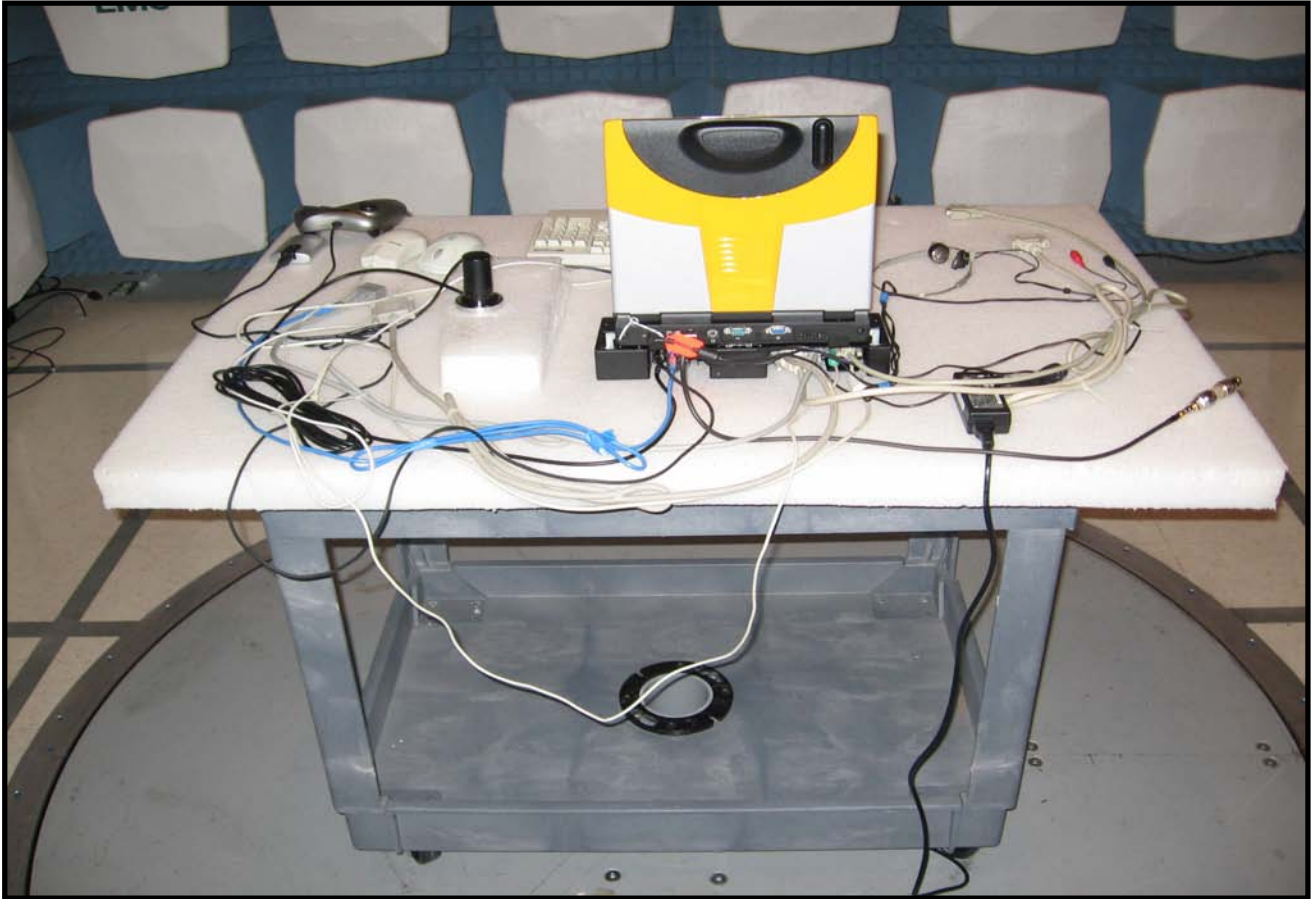


Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
825.880	6.0	1.4	V-Bilog	PK	1.03E-02	10.1	38.5	-28.4
836.520	116.0	1.3	V-Bilog	PK	8.85E-03	9.5	38.5	-29.0
847.270	112.0	1.2	V-Bilog	PK	4.36E-03	6.4	38.5	-32.1
826.950	163.0	1.0	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.

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

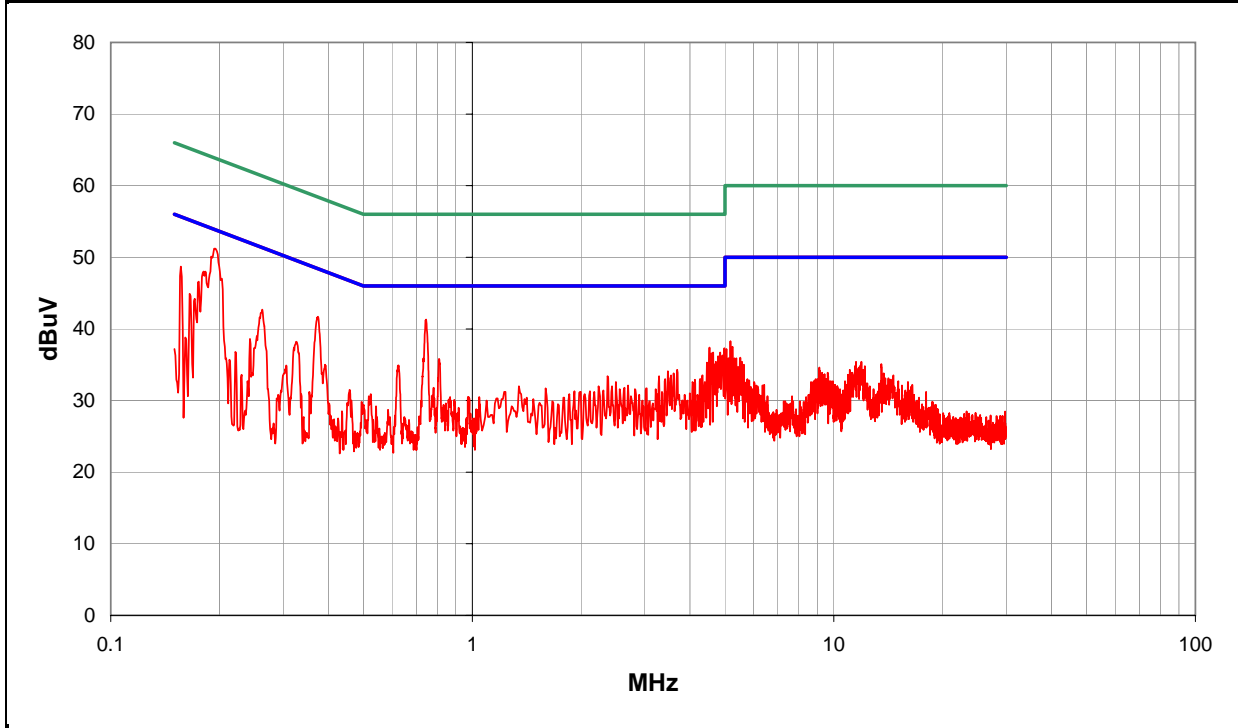
COMMENTS
Internal antenna. Notebook standalone configuration.

EUT OPERATING MODES
Receive mode, GSM Cellular band. Mid channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	3	<i>Rod Peloquin</i> 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

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

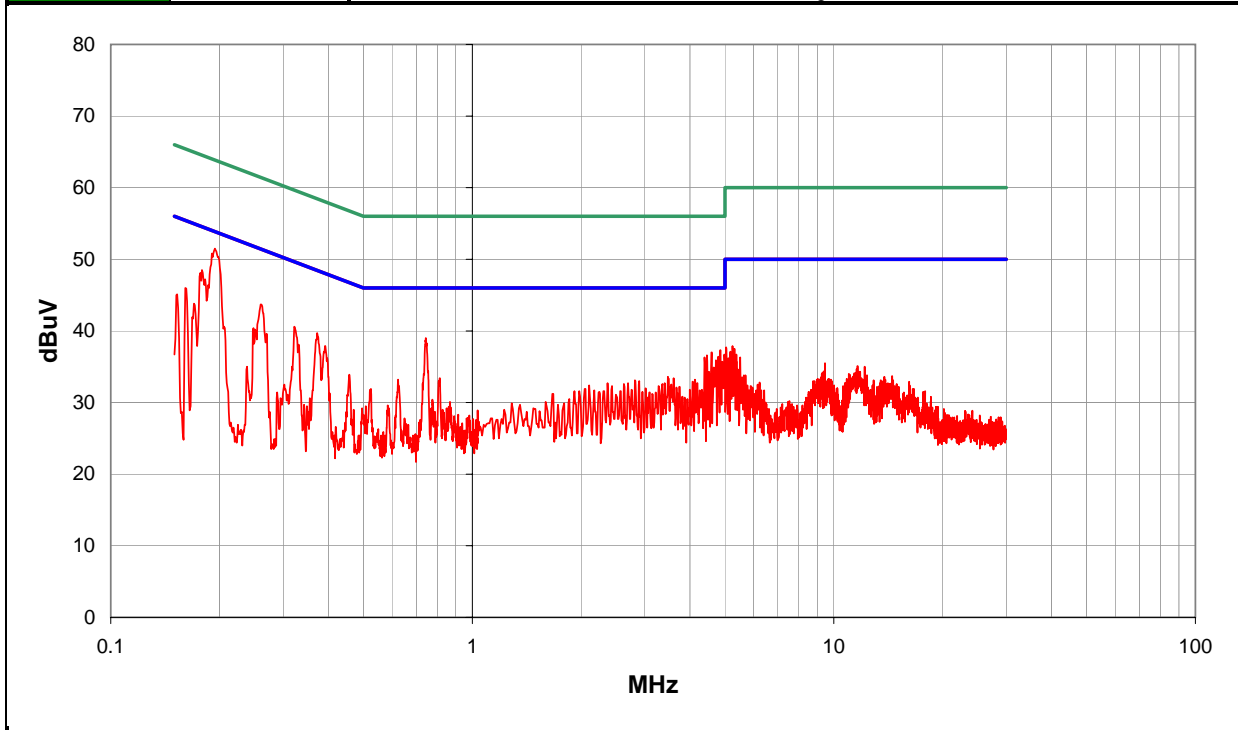
COMMENTS
Internal antenna. Notebook standalone configuration.

EUT OPERATING MODES
Receive mode, GSM Cellular band. Mid channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	2	<i>Rod Peloquin</i> 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		Test Method
FCC 15.107:2006		ANSI C63.4:2003

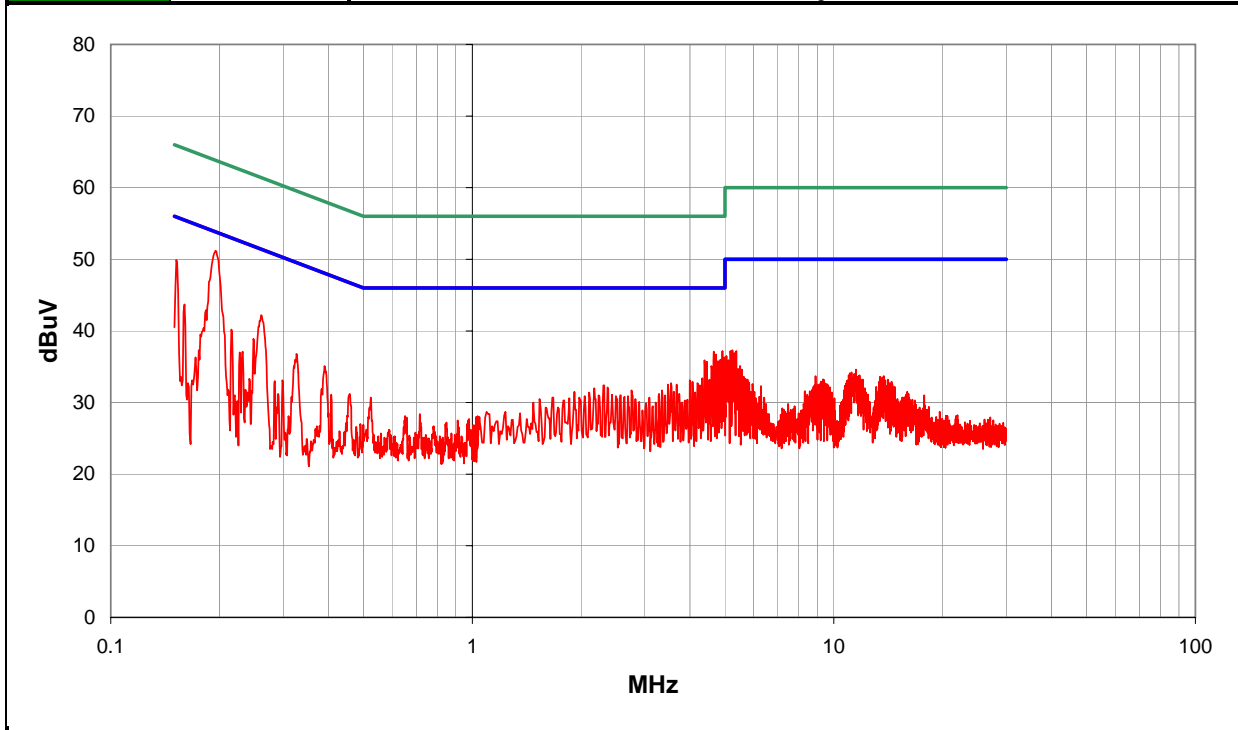
TEST PARAMETERS	
Cable or Line Tested	L1

COMMENTS
Internal antenna. Notebook standalone configuration.

EUT OPERATING MODES
Receive mode, GSM Cellular band. Low channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	3	NVLAP Lab Code 200630-0 <i>Signature</i>
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)
0.195	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

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

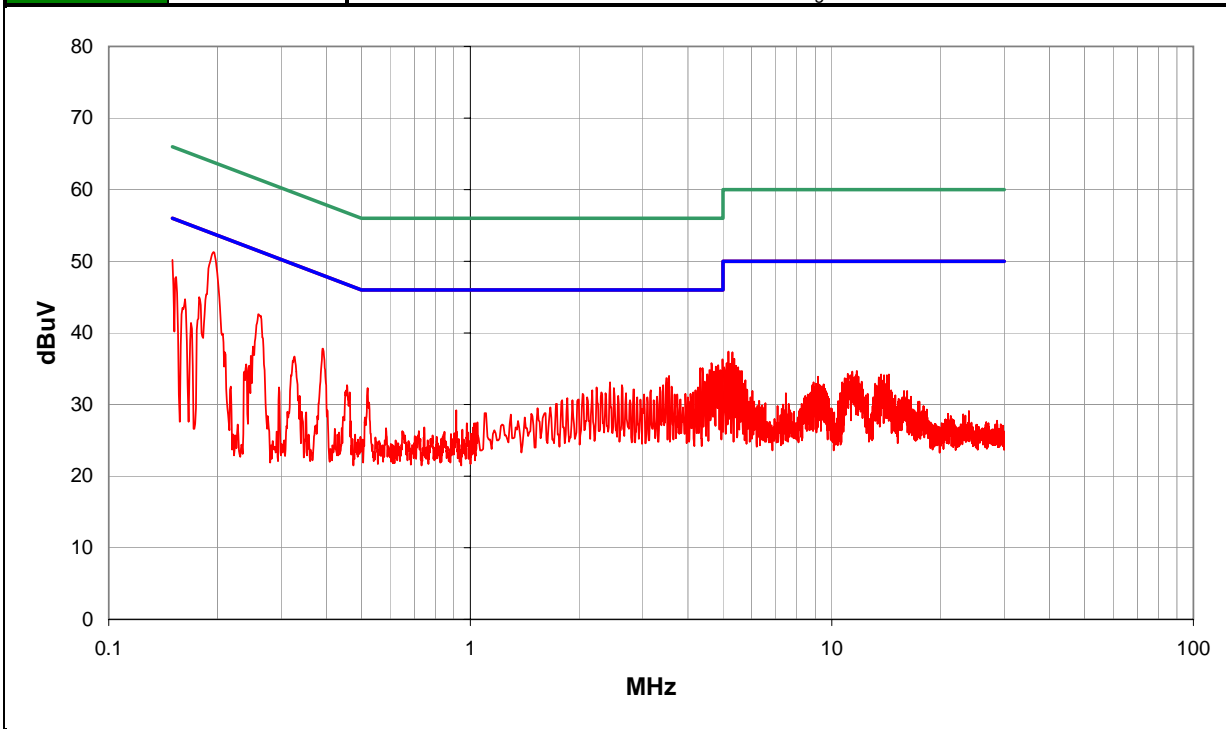
COMMENTS
Internal antenna. Notebook standalone configuration.

EUT OPERATING MODES
Receive mode, GSM Cellular band. Low channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	4	<i>Rodry Le Pelouin</i> 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

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

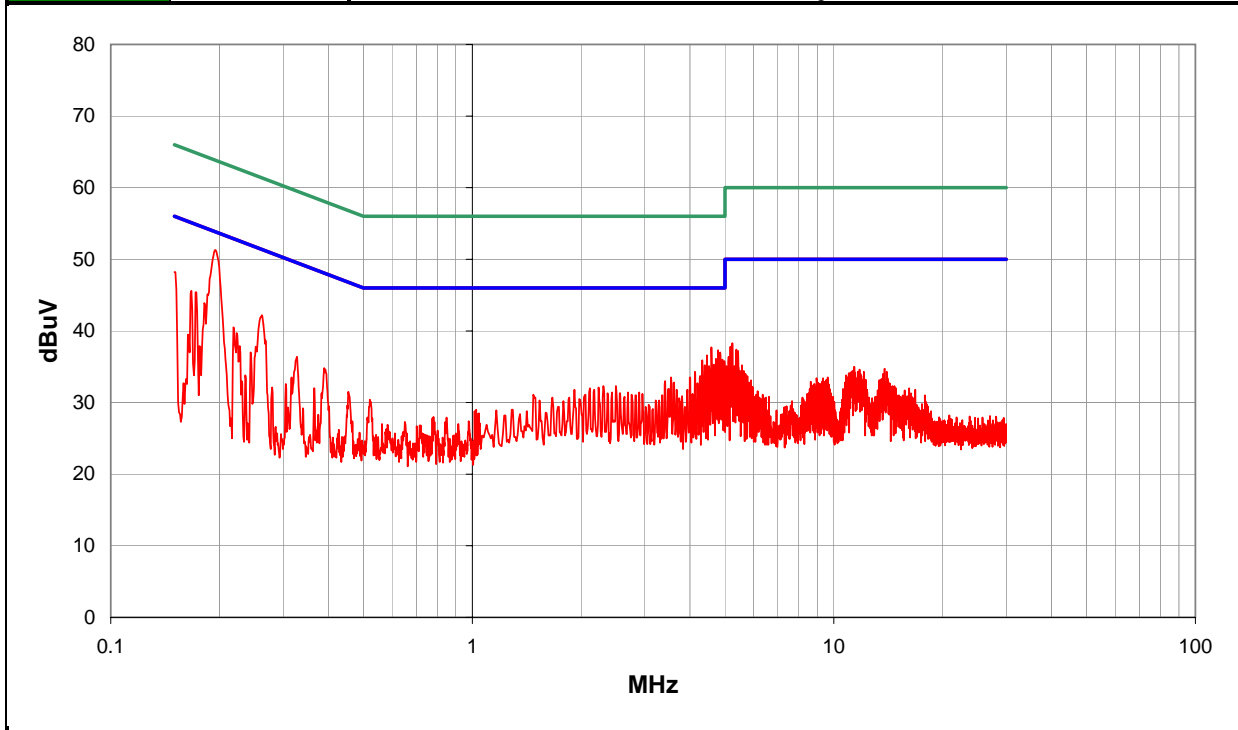
COMMENTS
Internal antenna. Notebook standalone configuration.

EUT OPERATING MODES
Receive mode, GSM Cellular band. High channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	7	<i>Rod Peloquin</i> 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	31.3	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

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

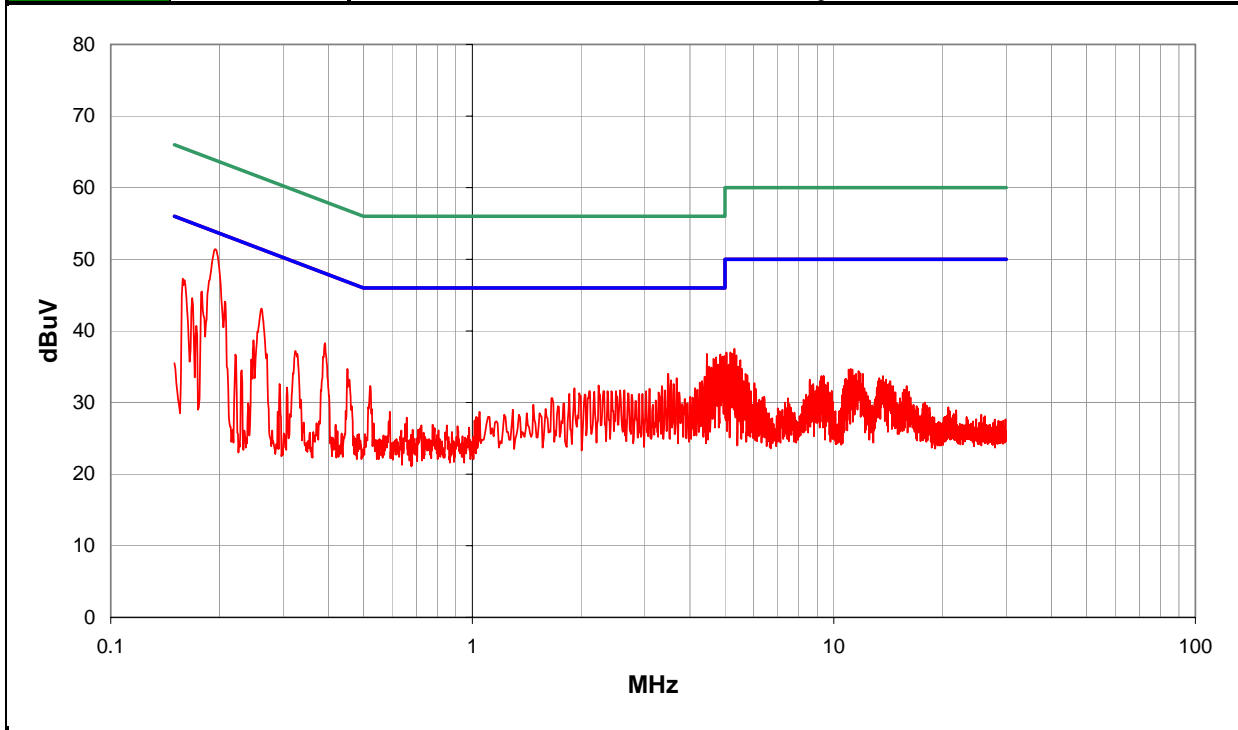
TEST PARAMETERS	
Cable or Line Tested	N

COMMENTS
Internal antenna. Notebook standalone configuration.

EUT OPERATING MODES
Receive mode, GSM Cellular band. High channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	8	NVLAP Lab Code 200630-0 <i>Signature</i>
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	31.4	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

