

# Spectrum Technology, Inc.

## IX350 with Bluetooth module GUBTC41M-TH

January 23, 2008

Report No. SPTE0078

Report Prepared By



[www.nwemc.com](http://www.nwemc.com)

1-888-EMI-CERT

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EMC Test Report

## Certificate of Test

Issue Date: January 23, 2008

Spectrum Technology, Inc.

Model: IX350 with Bluetooth module GUBTC41M-TH

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Occupied Bandwidth	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	Pass
Output Power	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	Pass
Band Edge Compliance	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	Pass
Spurious Conducted Emissions	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	Pass
Dwell Time	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	Pass
Channel Spacing	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	Pass
Power Spectral Density	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	Pass

### Modifications made to the product

See the Modifications section of this report

### Test Facility

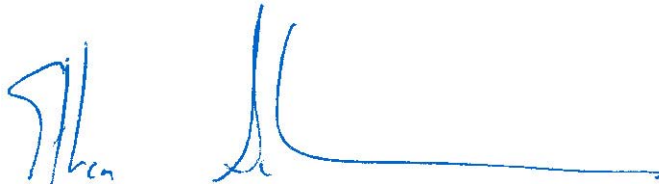
The measurement facility used to collect the data is located at:

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

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

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

Approved By:



Ethan Schoonover, Sultan Lab Manager



NVLAP Lab Code: 200630-0

*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 2004/108/EC, and ANSI C63.4. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.



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

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



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



**TÜV Product Service:** Included in 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. USA0604C.



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



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



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



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



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



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



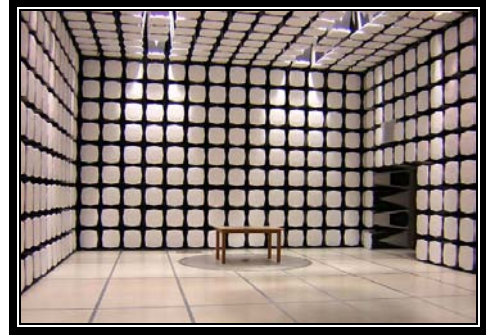
**MIC:** Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (*Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157*)



## SCOPE

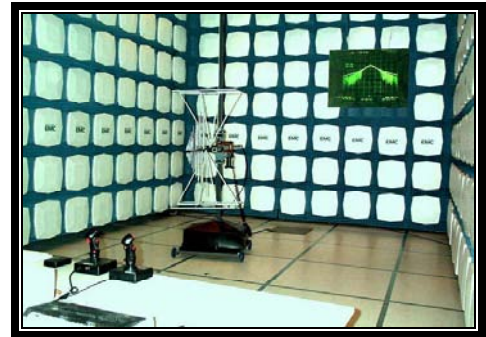
For details on the Scopes of our Accreditations, please visit:

<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 339<sup>th</sup> Ave. SE Sultan, WA 98294  
(888) 364-2378

## Party Requesting the Test

<b>Company Name:</b>	Spectrum Technology, Inc.
<b>Address:</b>	209 Dayton Street Suite #205
<b>City, State, Zip:</b>	Edmonds, WA 98020
<b>Test Requested By:</b>	Rod Munro
<b>Model:</b>	IX350 with Bluetooth module GUBTC41M-TH
<b>First Date of Test:</b>	January 14, 2008
<b>Last Date of Test:</b>	January 14, 2008
<b>Receipt Date of Samples:</b>	December 20, 2007
<b>Equipment Design Stage:</b>	Prototype
<b>Equipment Condition:</b>	No Damage

## Information Provided by the Party Requesting the Test

**Functional Description of the EUT (Equipment Under Test):**

The Itronix Model IX350 is a tablet PC that can be used in a notebook configuration only. The IX350 contains a Bluetooth module.

**Testing Objective:**

To demonstrate compliance with FCC 15.247 requirements.

**CONFIGURATION 1 SPTE0078****Software/Firmware Running during test**

Description	Version
BlueTest	Unknown

**EUT**

Description	Manufacturer	Model/Part Number	Serial Number
Bluetooth 2.0+EDR Module	Billionton	Itronix P/N IX-GUBTC41MTH	Unknown

**Peripherals in test setup boundary**

Description	Manufacturer	Model/Part Number	Serial Number
Tablet PC	Itronix Corporation	IX350	Unknown
AC Adapter	Delta Electronics, Inc.	ADP-90SB BB	VCW0552024972

**Cables**

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC	No	1.8m	Yes	Tablet PC	AC Adapter
AC	No	1.8m	No	AC Adapter	AC Mains

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



<b>Equipment modifications</b>					
<b>Item</b>	<b>Date</b>	<b>Test</b>	<b>Modification</b>	<b>Note</b>	<b>Disposition of EUT</b>
1	1/14/2008	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	1/14/2008	Spurious 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.
3	1/14/2008	Power Spectral Density	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	1/14/2008	Dwell Time	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	1/14/2008	Channel Spacing	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	1/14/2008	Band Edge Compliance	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.
7	1/14/2008	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing 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.

**TEST EQUIPMENT**

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAY	12/18/2007	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13

**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 channel carrier frequencies in the 2400-2483.5MHz band must be separated by 25 kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Or, if the output power is less than 125 mW, the channel separation can be 25 kHz or 2/3 of the 20dB bandwidth. The EUT was operated in pseudorandom hopping mode. The spectrum was scanned across two adjacent peaks. The separation between the peaks of these channels was measured.

**EMC**

**Channel Spacing**

EUT:	IX350 with Bluetooth module GUBTC41M-TH	Work Order:	SPT0078
Serial Number:	None	Date:	01/14/08
Customer:	Spectrum Technology, Inc.	Temperature:	23°C
Attendees:	Rod Munro	Humidity:	29%
Project:	None	Barometric Pres.:	1023.7
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz
		Job Site:	EV06

<b>TEST SPECIFICATIONS</b>		<b>Test Method</b>	
FCC 15.247 (DTS):2006		ANSI C63.4:2003 KDB No. 558074	

**COMMENTS**  
 Bluetooth radio in IX350. Power software levels used: GFSK mode used 255, 44; pi/4-DQPSK and 8DPSK used 255, 86. Limit is equal to 2/3 of the measured occupied bandwidth (2/3\*932kHz).

**DEVIATIONS FROM TEST STANDARD**

<b>Configuration #</b>	1	Signature <i>Holly Ashkannejhad</i>
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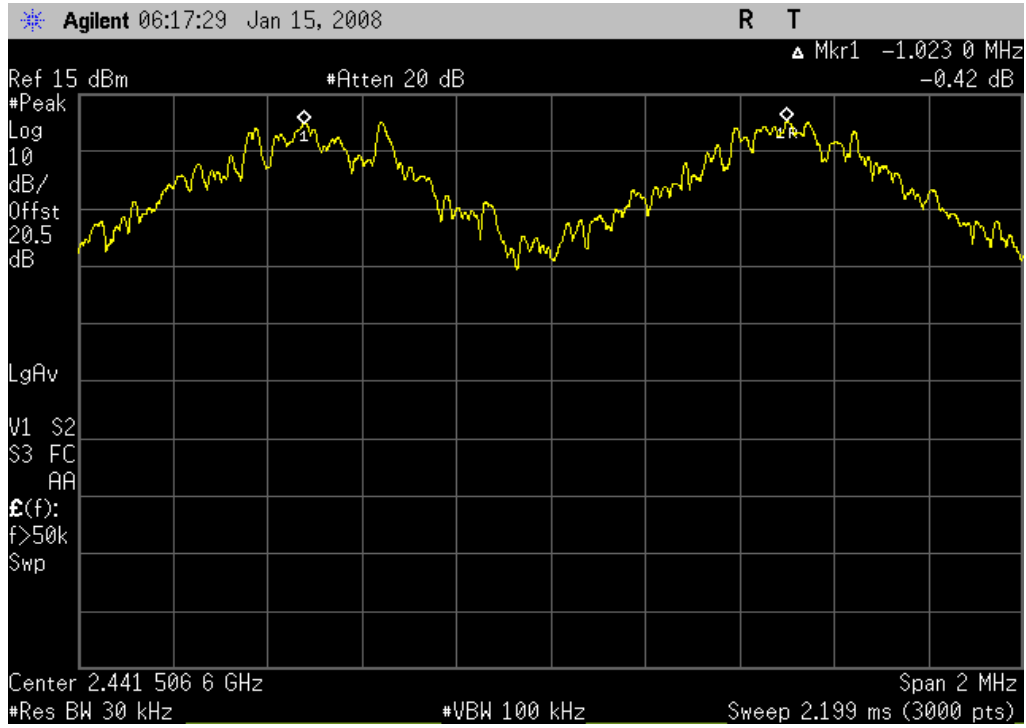
	Value	Limit	Results
Bluetooth, GFSK, DH5	1.023 MHz	621 kHz	Pass

Bluetooth, GFSK, DH5

**Result:** Pass

**Value:** 1.023 MHz

**Limit:** 621 kHz





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.

#### TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Spectrum Analyzer	Agilent	E4446A	AAY	12/18/2007	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 average dwell time per hopping channel was measured at one hopping channel in the middle of the authorized band. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The hopping function of the EUT was enabled.

**EMC**

**Dwell Time**

<b>EUT:</b> IX350 with Bluetooth module GUBTC41M-TH	<b>Work Order:</b> SPT0078
<b>Serial Number:</b> None	<b>Date:</b> 01/14/08
<b>Customer:</b> Spectrum Technology, Inc.	<b>Temperature:</b> 23°C
<b>Attendees:</b> Rod Munro	<b>Humidity:</b> 29%
<b>Project:</b> None	<b>Barometric Pres.:</b> 1023.7
<b>Tested by:</b> Holly Ashkannejhad	<b>Power:</b> 120VAC/60Hz
	<b>Job Site:</b> EV06

<b>TEST SPECIFICATIONS</b>	<b>Test Method</b>
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

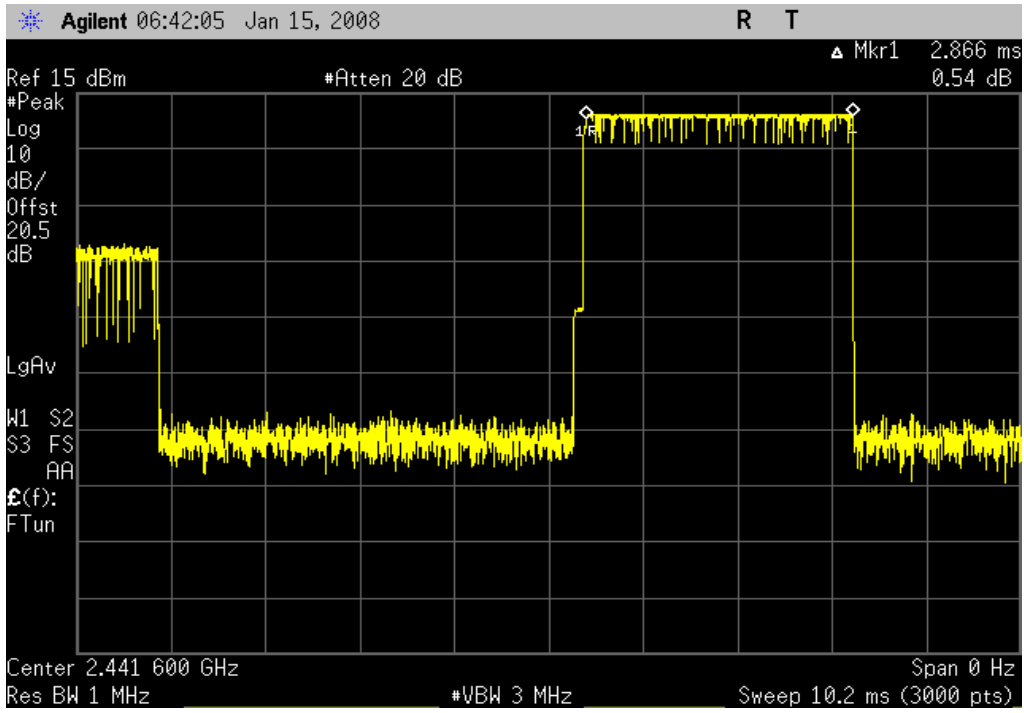
**COMMENTS**  
 Bluetooth radio in IX350. Power software levels used: GFSK mode used 255, 44; pi/4-DQPSK and 8DPSK used 255, 86.

**DEVIATIONS FROM TEST STANDARD**

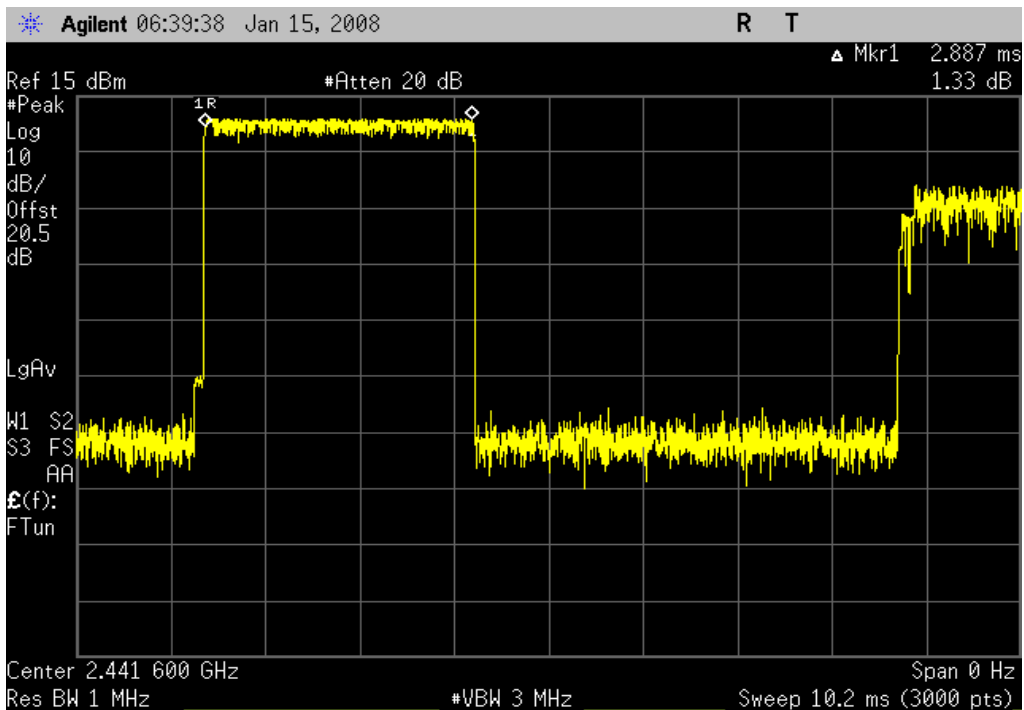
<b>Configuration #</b>	1	Signature <i>Holly Ashkannejhad</i>
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	Value	Limit	Results
Bluetooth, GFSK, DH5	2.866 msec	0.4 sec	Pass
Bluetooth, pi/4-DQPSK, 2DH5	2.887 msec	0.4 sec	Pass
Bluetooth, 8DPSK, 3DH5	2.904 msec	0.4 sec	Pass

Bluetooth, GFSK, DH5		
<b>Result:</b> Pass	<b>Value:</b> 2.866 msec	<b>Limit:</b> 0.4 sec



Bluetooth, pi/4-DQPSK, 2DH5		
<b>Result:</b> Pass	<b>Value:</b> 2.887 msec	<b>Limit:</b> 0.4 sec



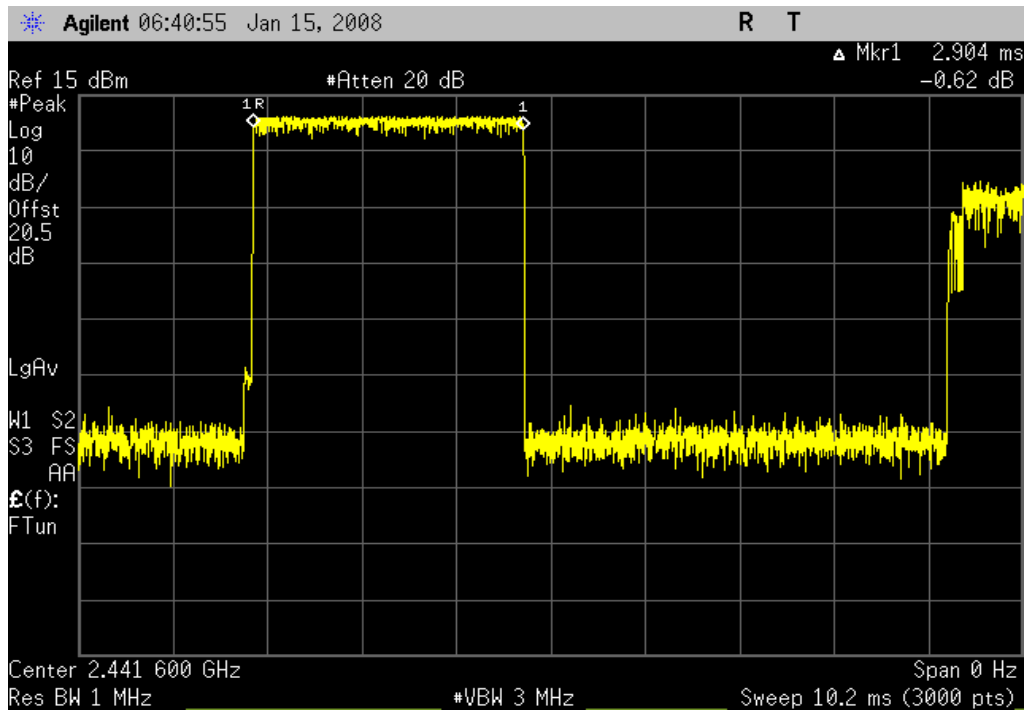


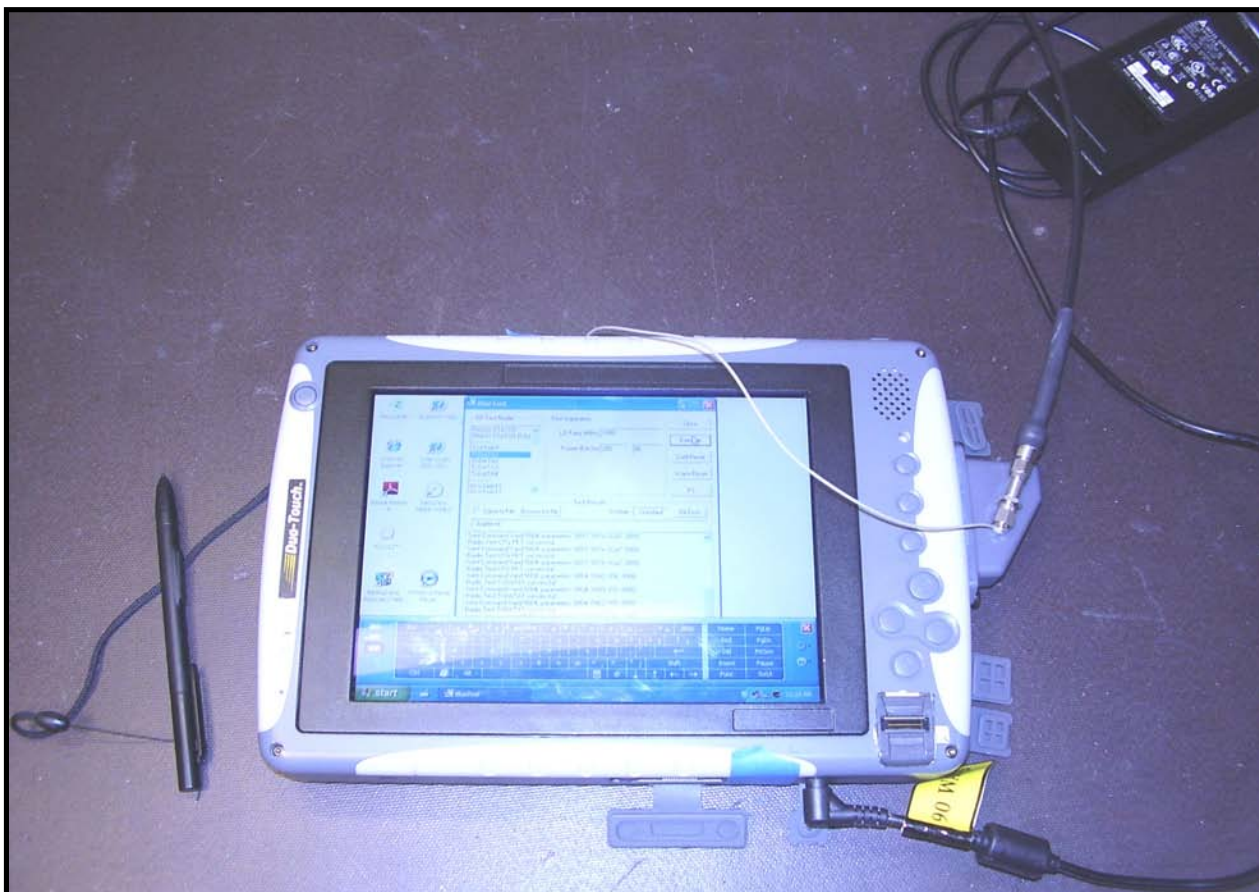
Bluetooth, 8DPSK, 3DH5

**Result:** Pass

**Value:** 2.904 msec

**Limit:** 0.4 sec





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.

#### TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Spectrum Analyzer	Agilent	E4446A	AAY	12/18/2007	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 occupied bandwidth was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting in a no hop mode at its maximum data rate for each of the three different modulations available.

## EMC

## Occupied Bandwidth

EUT:	IX350 with Bluetooth module GUBTC41M-TH	Work Order:	SPT0078
Serial Number:	None	Date:	01/14/08
Customer:	Spectrum Technology, Inc.	Temperature:	24°C
Attendees:	Rod Munro	Humidity:	29%
Project:	None	Barometric Pres.:	1023.7
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz
		Job Site:	EV06

TEST SPECIFICATIONS		Test Method	
FCC 15.247 (DTS):2006		ANSI C63.4:2003 KDB No. 558074	

COMMENTS
Bluetooth radio in IX350. Power software levels used: GFSK mode used 255, 44; pi/4-DQPSK and 8DPSK used 255, 86.

DEVIATIONS FROM TEST STANDARD

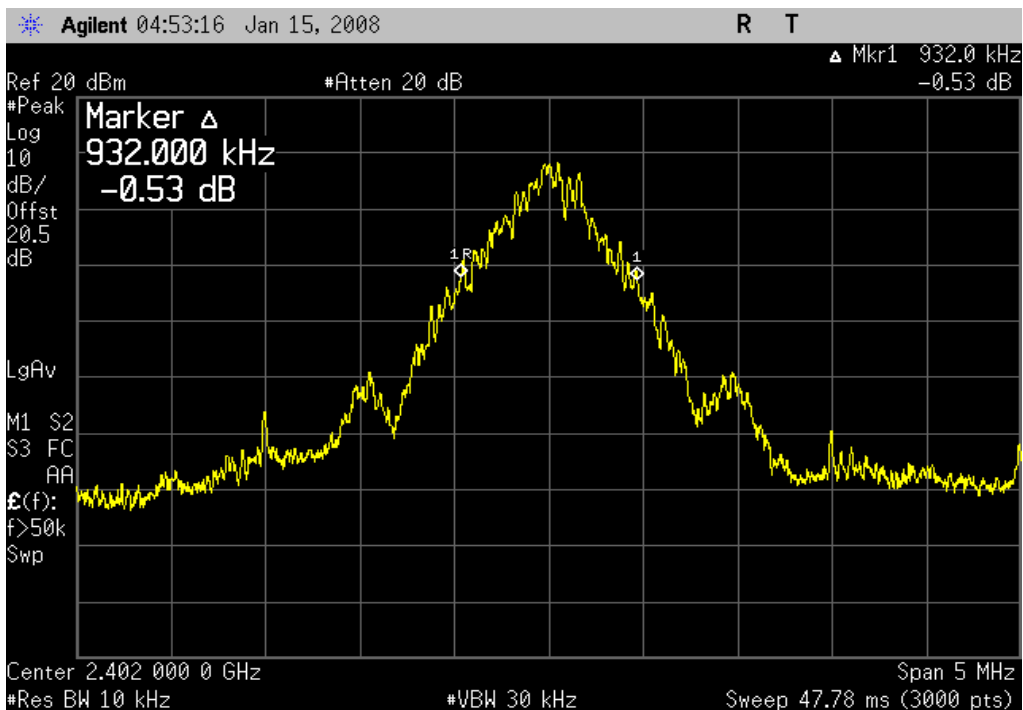
Configuration #	1	Signature <i>Holly Ashkannejhad</i>
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		Value	Limit	Results
Bluetooth, GFSK, DH5				
	Low channel, 2402MHz	932 kHz	1.5 MHz	Pass
	Mid channel, 2441MHz	932 kHz	1.5 MHz	Pass
	High channel, 2480MHz	932 kHz	1.5 MHz	Pass
Bluetooth, pi/4-DQPSK, 2DH5				
	Low channel, 2402MHz	1.322 MHz	1.5 MHz	Pass
	Mid channel, 2441MHz	1.255 MHz	1.5 MHz	Pass
	High channel, 2480MHz	1.309 MHz	1.5 MHz	Pass
Bluetooth, 8DPSK, 3DH5				
	Low channel, 2402MHz	1.290 MHz	1.5 MHz	Pass
	Mid channel, 2441MHz	1.257 MHz	1.5 MHz	Pass
	High channel, 2480MHz	1.270 MHz	1.5 MHz	Pass

# Occupied Bandwidth

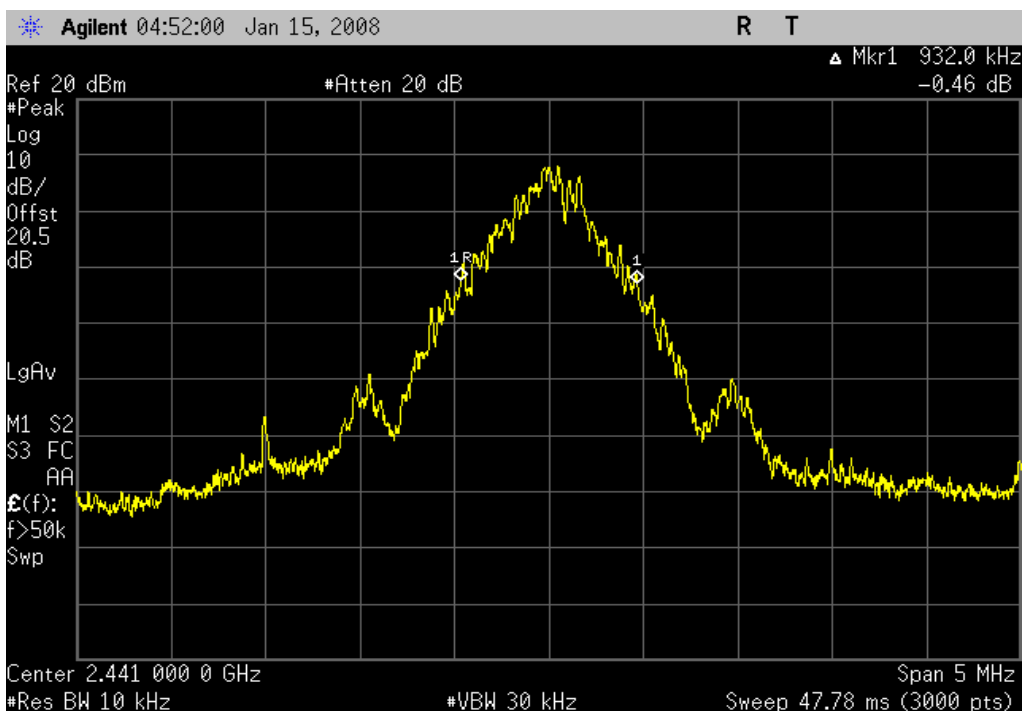
Bluetooth, GFSK, DH5, Low channel, 2402MHz

**Result:** Pass      **Value:** 932 kHz      **Limit:** 1.5 MHz



Bluetooth, GFSK, DH5, Mid channel, 2441MHz

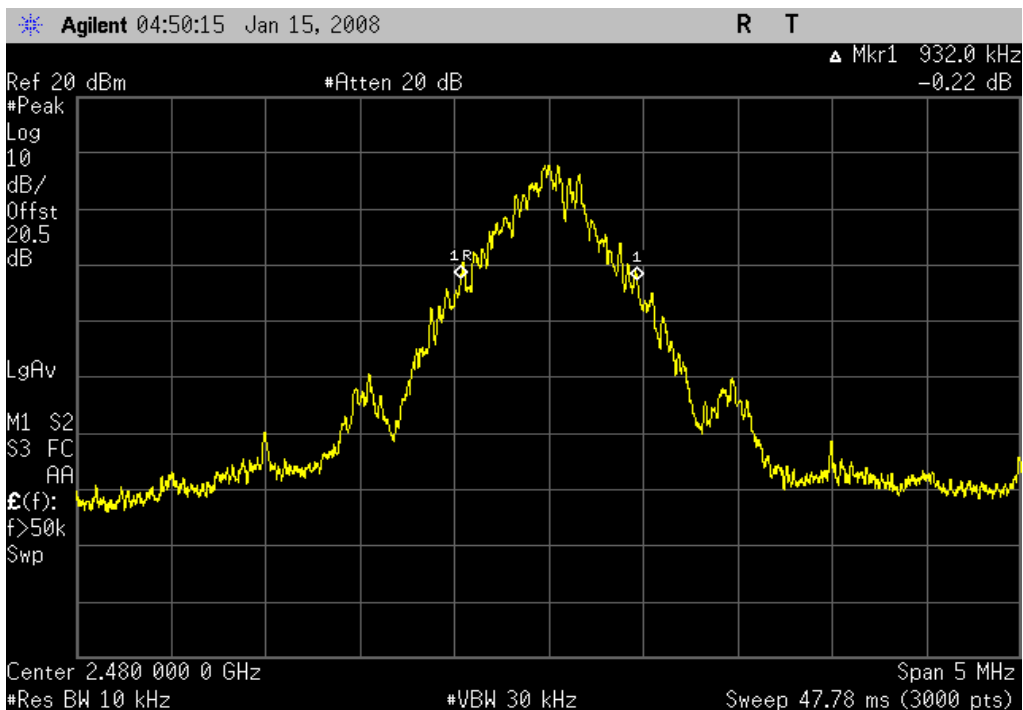
**Result:** Pass      **Value:** 932 kHz      **Limit:** 1.5 MHz



# Occupied Bandwidth

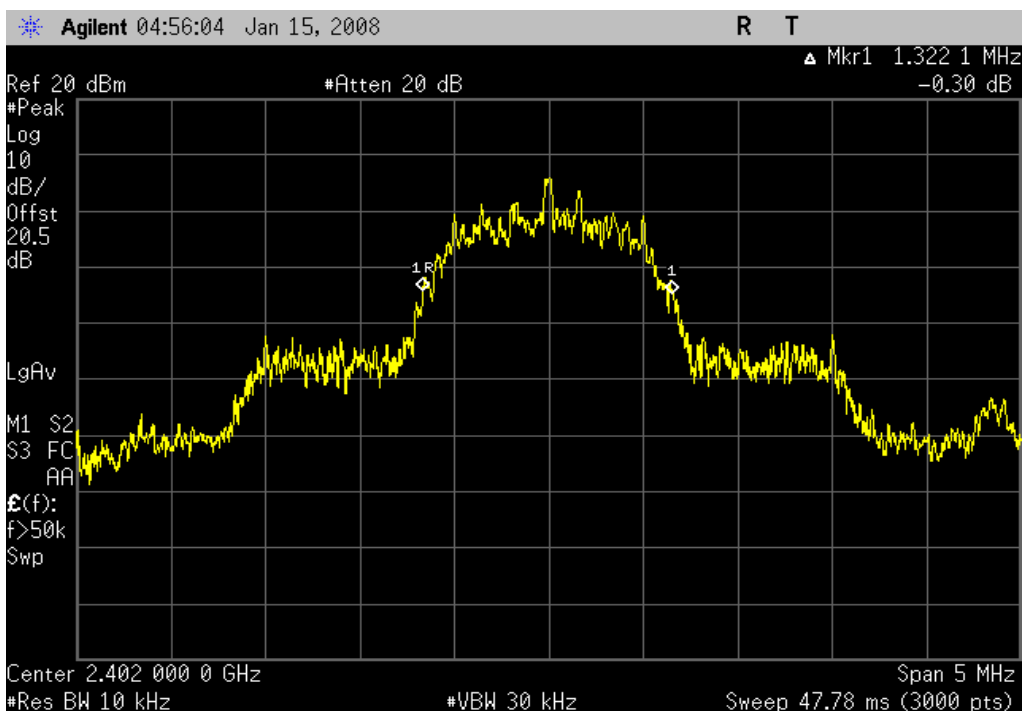
Bluetooth, GFSK, DH5, High channel, 2480MHz

**Result:** Pass      **Value:** 932 kHz      **Limit:** 1.5 MHz



Bluetooth, pi/4-DQPSK, 2DH5, Low channel, 2402MHz

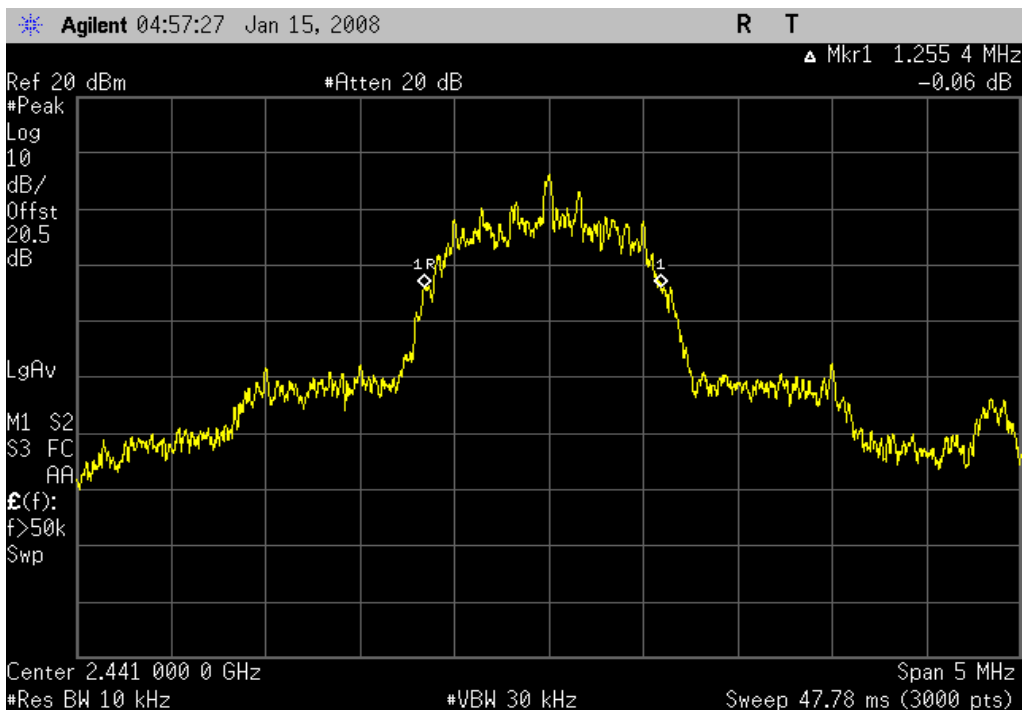
**Result:** Pass      **Value:** 1.322 MHz      **Limit:** 1.5 MHz



# Occupied Bandwidth

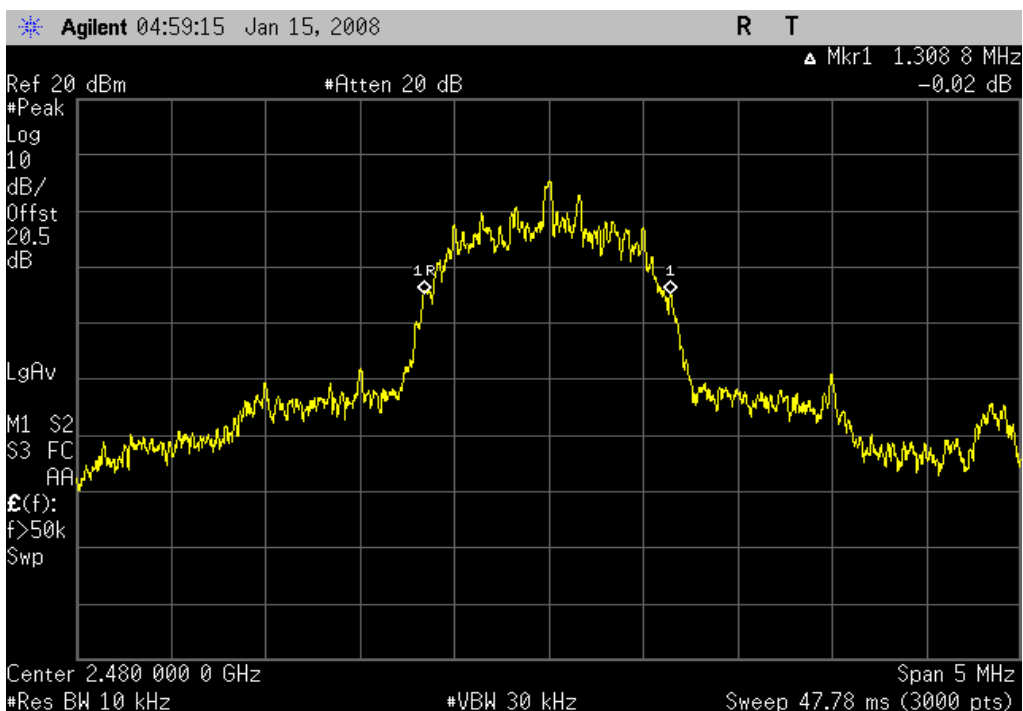
Bluetooth, pi/4-DQPSK, 2DH5, Mid channel, 2441MHz

**Result:** Pass      **Value:** 1.255 MHz      **Limit:** 1.5 MHz



Bluetooth, pi/4-DQPSK, 2DH5, High channel, 2480MHz

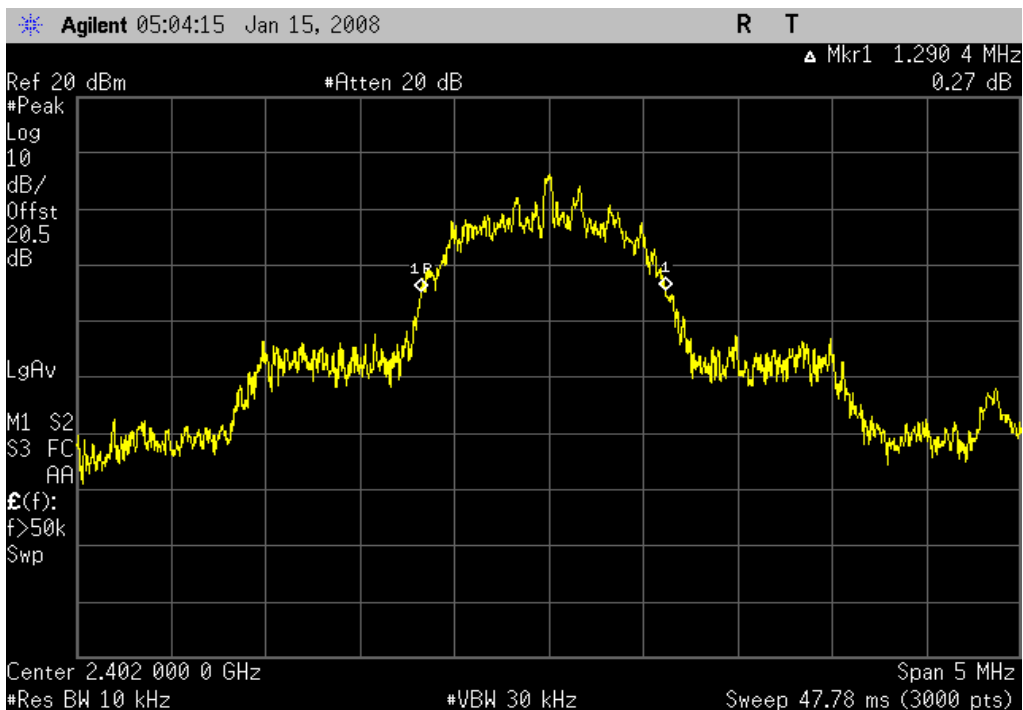
**Result:** Pass      **Value:** 1.309 MHz      **Limit:** 1.5 MHz



# Occupied Bandwidth

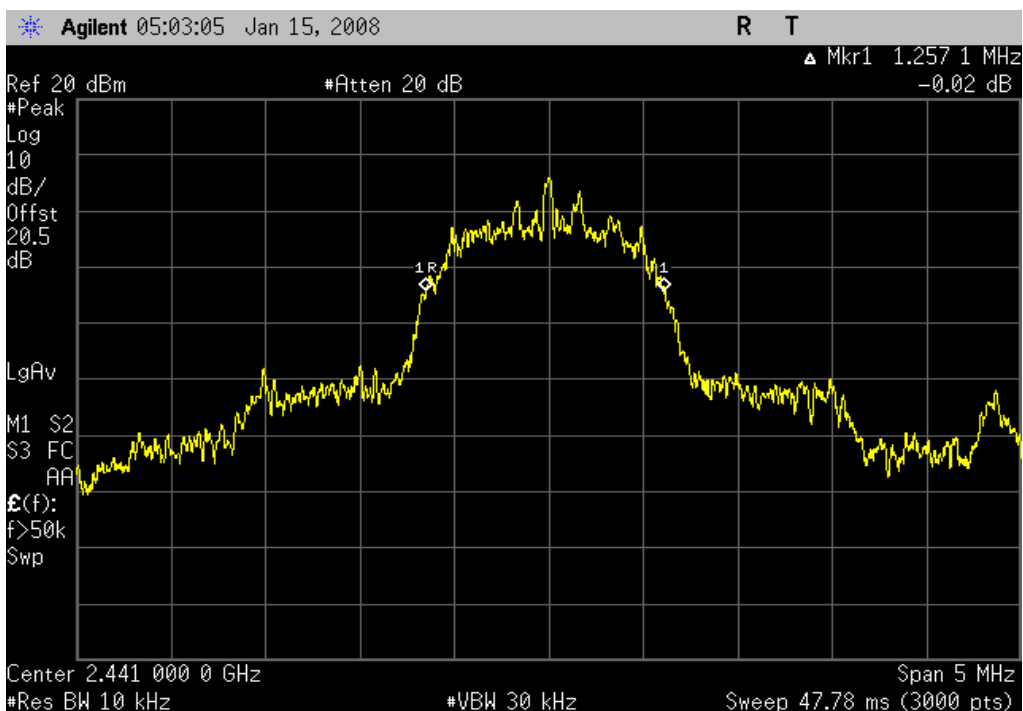
Bluetooth, 8DPSK, 3DH5, Low channel, 2402MHz

**Result:** Pass      **Value:** 1.290 MHz      **Limit:** 1.5 MHz



Bluetooth, 8DPSK, 3DH5, Mid channel, 2441MHz

**Result:** Pass      **Value:** 1.257 MHz      **Limit:** 1.5 MHz





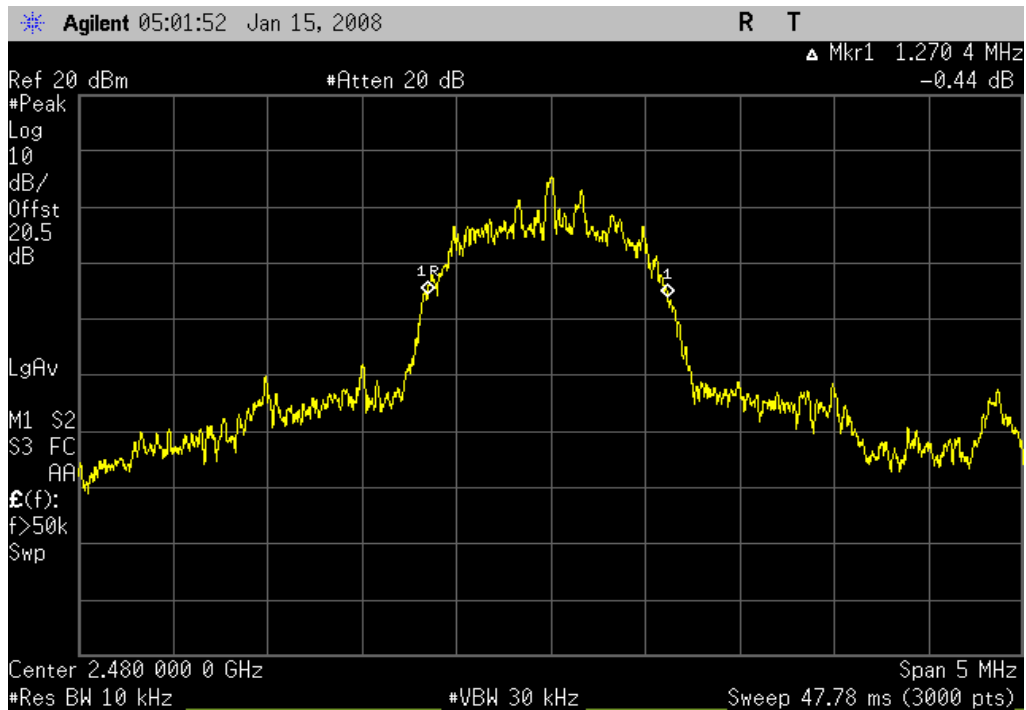
# Occupied Bandwidth

Bluetooth, 8DPSK, 3DH5, High channel, 2480MHz

**Result:** Pass

**Value:** 1.270 MHz

**Limit:** 1.5 MHz





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.

#### TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Spectrum Analyzer	Agilent	E4446A	AAV	12/18/2007	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 peak output power was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. . The EUT was transmitting in a no hop mode at its maximum data rate for each of the three different modulations available.

**De Facto EIRP Limit:** Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36dBm.

## EMC

## Output Power

EUT: IX350 with Bluetooth module GUBTC41M-TH	Work Order: SPT0078
Serial Number: None	Date: 01/14/08
Customer: Spectrum Technology, Inc.	Temperature: 23°C
Attendees: Rod Munro	Humidity: 29%
Project: None	Barometric Pres.: 1023.7
Tested by: Holly Ashkannejhad	Power: 120VAC/60Hz
	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

## COMMENTS

Bluetooth radio in IX350. Power software levels used: GFSK mode used 255, 44; pi/4-DQPSK and 8DPSK used 255, 86.

## DEVIATIONS FROM TEST STANDARD

Configuration #	1	Signature <i>Holly Ashkannejhad</i>
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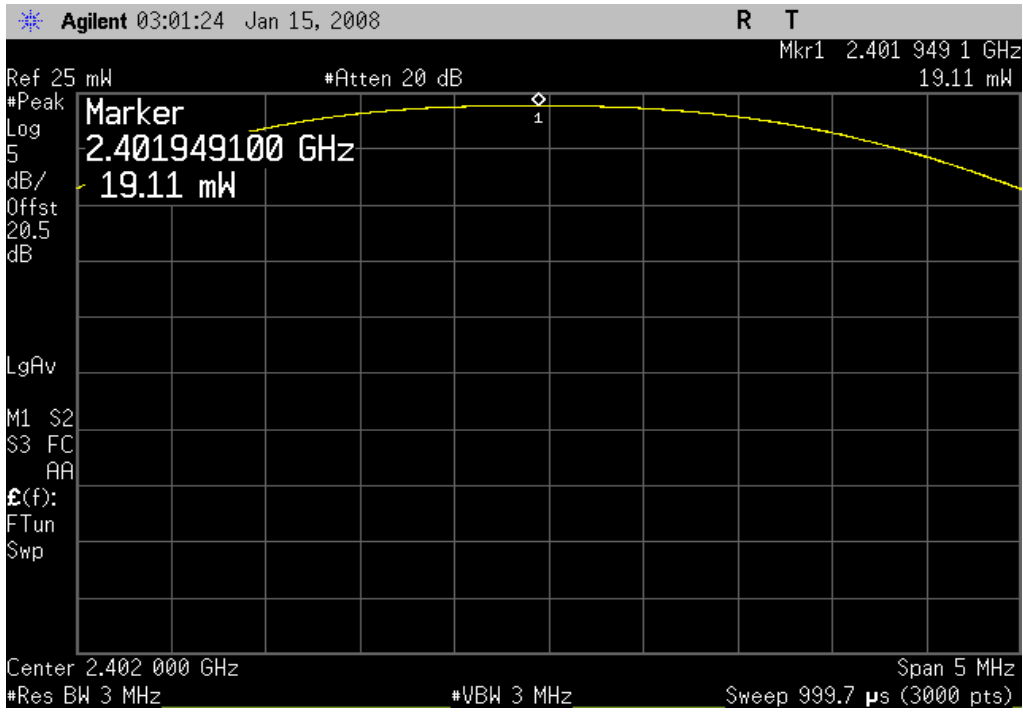
		Value	Limit	Results
Bluetooth, GFSK, DH5				
	Low channel, 2402MHz	19.11 mW	1 Watt	Pass
	Mid channel, 2441MHz	19.62 mW	1 Watt	Pass
	High channel, 2480MHz	18.26 mW	1 Watt	Pass
Bluetooth, pi/4-DQPSK, 2DH5				
	Low channel, 2402MHz	13.19 mW	1 Watt	Pass
	Mid channel, 2441MHz	11.93 mW	1 Watt	Pass
	High channel, 2480MHz	10.49 mW	1 Watt	Pass
Bluetooth, 8DPSK, 3DH5				
	Low channel, 2402MHz	17.10 mW	1 Watt	Pass
	Mid channel, 2441MHz	11.86 mW	1 Watt	Pass
	High channel, 2480MHz	10.42 mW	1 Watt	Pass

Bluetooth, GFSK, DH5, Low channel, 2402MHz

**Result:** Pass

**Value:** 19.11 mW

**Limit:** 1 Watt

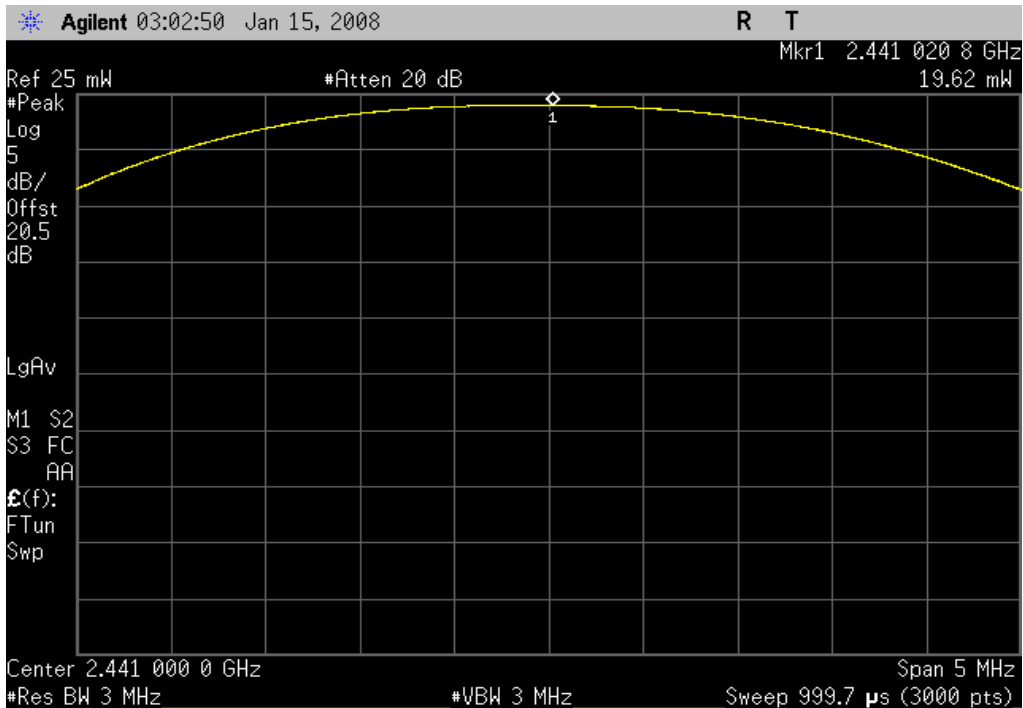


Bluetooth, GFSK, DH5, Mid channel, 2441MHz

**Result:** Pass

**Value:** 19.62 mW

**Limit:** 1 Watt

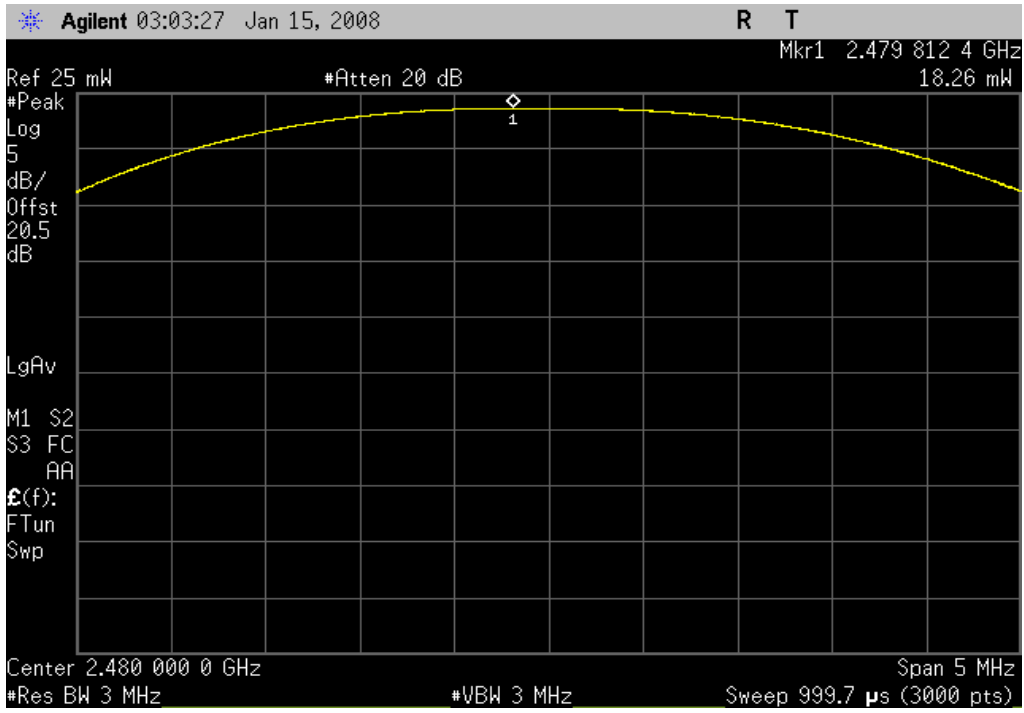


Bluetooth, GFSK, DH5, High channel, 2480MHz

**Result:** Pass

**Value:** 18.26 mW

**Limit:** 1 Watt

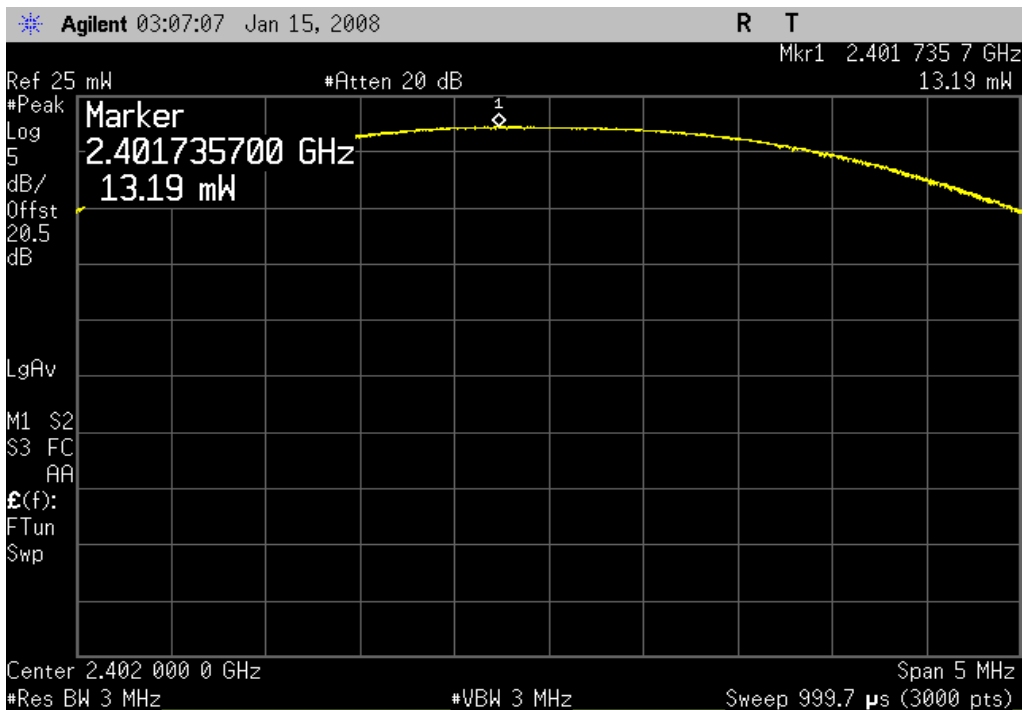


Bluetooth, pi/4-DQPSK, 2DH5, Low channel, 2402MHz

**Result:** Pass

**Value:** 13.19 mW

**Limit:** 1 Watt

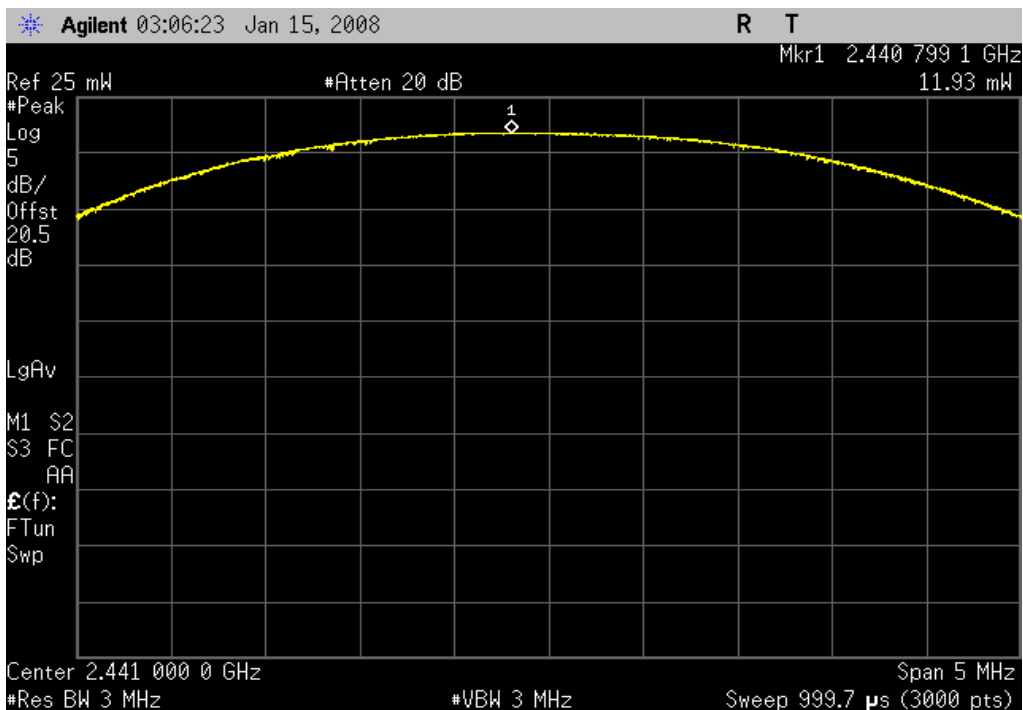


Bluetooth, pi/4-DQPSK, 2DH5, Mid channel, 2441MHz

**Result:** Pass

**Value:** 11.93 mW

**Limit:** 1 Watt

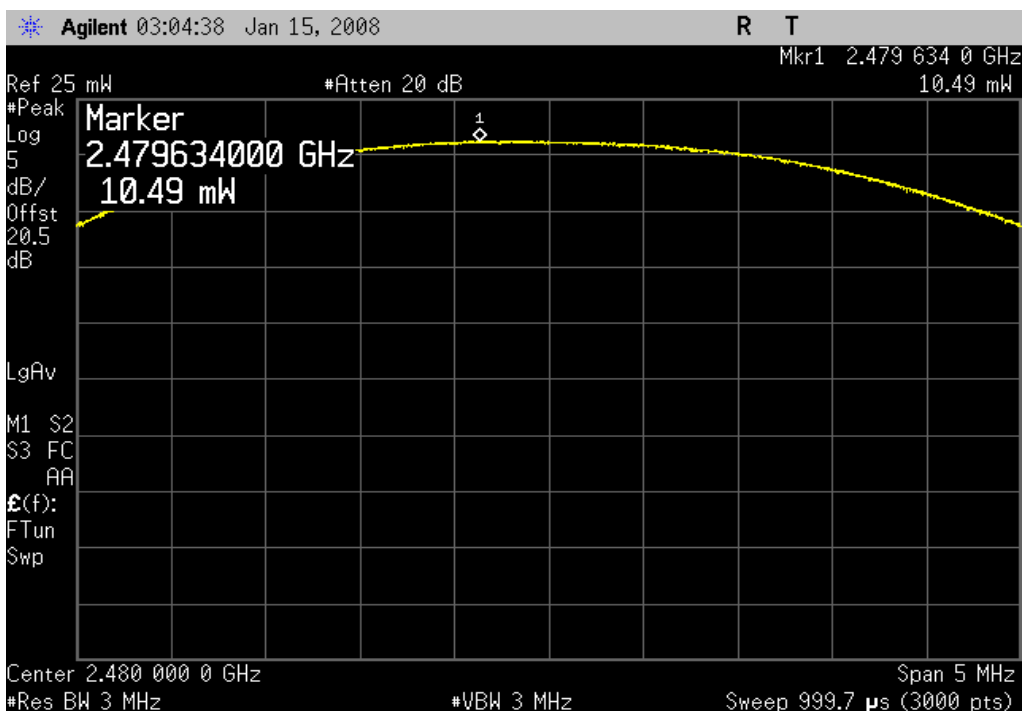


Bluetooth, pi/4-DQPSK, 2DH5, High channel, 2480MHz

**Result:** Pass

**Value:** 10.49 mW

**Limit:** 1 Watt

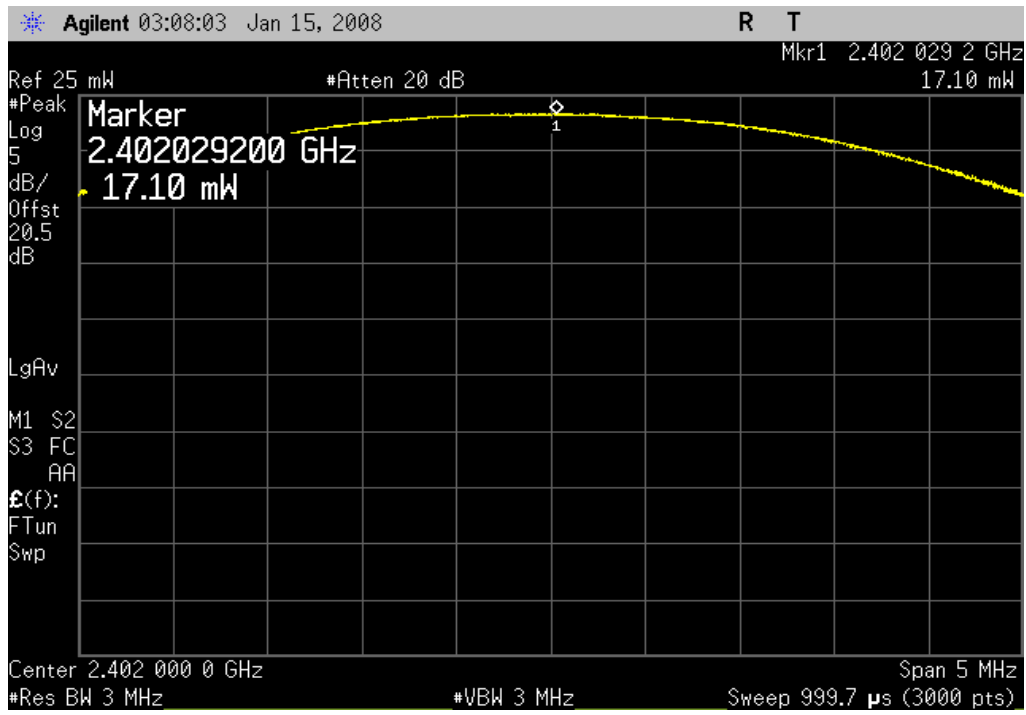


Bluetooth, 8DPSK, 3DH5, Low channel, 2402MHz

**Result:** Pass

**Value:** 17.10 mW

**Limit:** 1 Watt

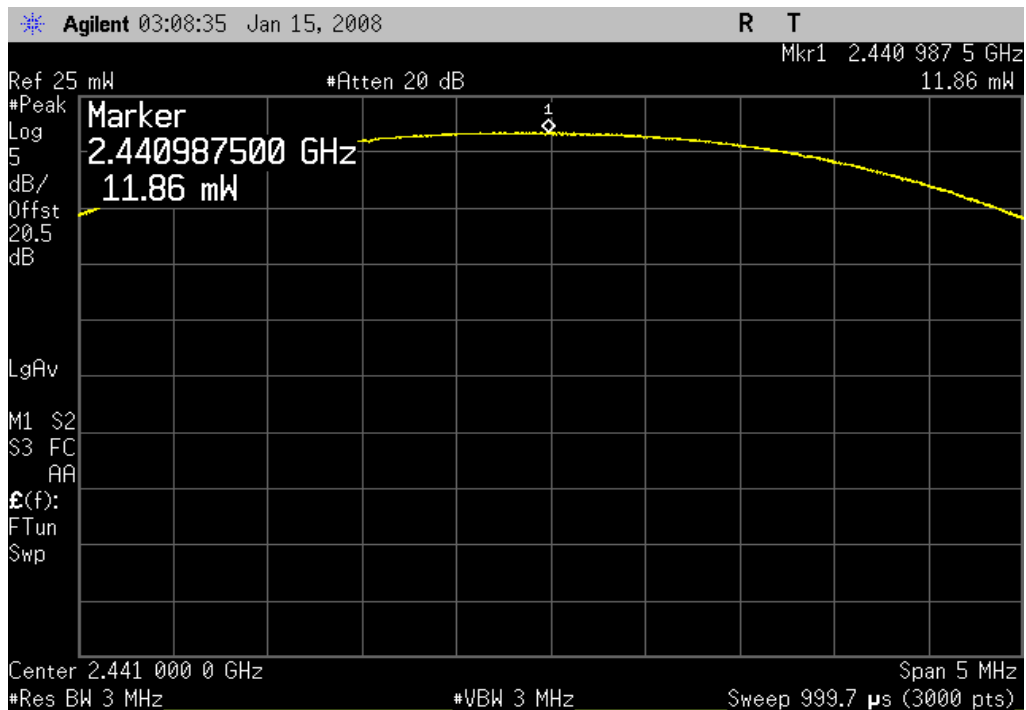


Bluetooth, 8DPSK, 3DH5, Mid channel, 2441MHz

**Result:** Pass

**Value:** 11.86 mW

**Limit:** 1 Watt





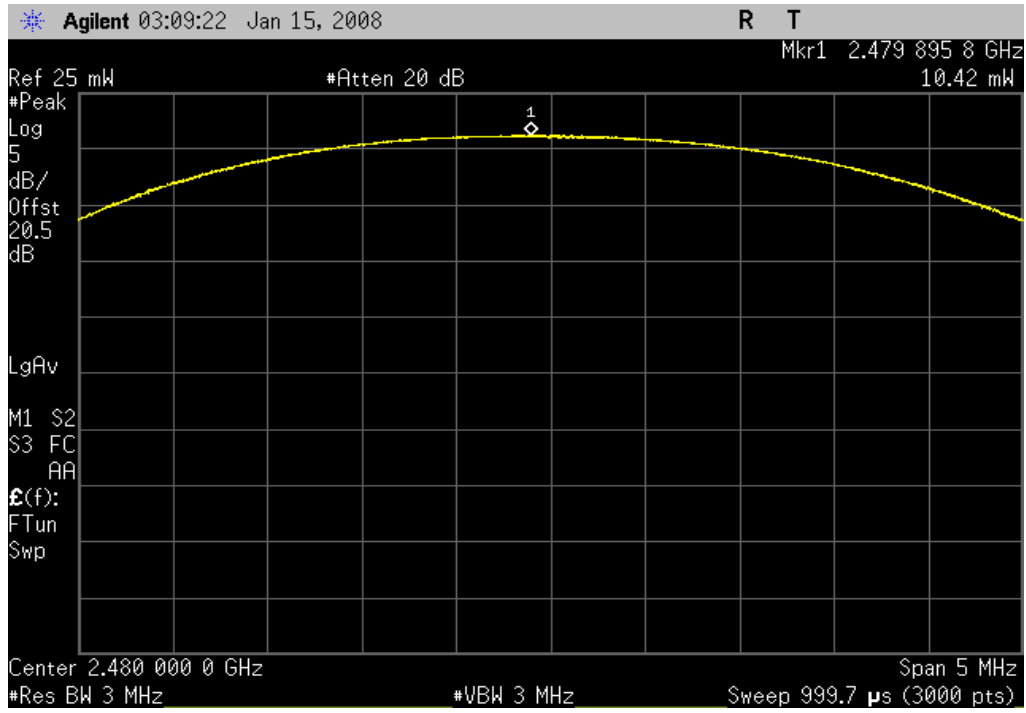
# Output Power

Bluetooth, 8DPSK, 3DH5, High channel, 2480MHz

**Result:** Pass

**Value:** 10.42 mW

**Limit:** 1 Watt





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.

#### TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Spectrum Analyzer	Agilent	E4446A	AAV	12/18/2007	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 requirements of FCC 15.247(d) for emissions at least 20dB below the carrier in any 100kHz bandwidth outside the allowable band was measured with the EUT set to low and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The channels closest to the band edges were selected. The spectrum was scanned across each band edge from 10 MHz below the band edge to 10 MHz above the band edge.

The EUT was transmitting at its maximum data rate using all three types of modulations available in Bluetooth EDR.

EUT: IX350 with Bluetooth module GUBTC41M-TH	Work Order: SPT0078
Serial Number: None	Date: 01/14/08
Customer: Spectrum Technology, Inc.	Temperature: 23°C
Attendees: Rod Munro	Humidity: 29%
Project: None	Barometric Pres.: 1023.7
Tested by: Holly Ashkannejhad	Power: 120VAC/60Hz
	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

COMMENTS
Bluetooth radio in IX350. Power software levels used: GFSK mode used 255, 44; pi/4-DQPSK and 8DPSK used 255, 86.

DEVIATIONS FROM TEST STANDARD
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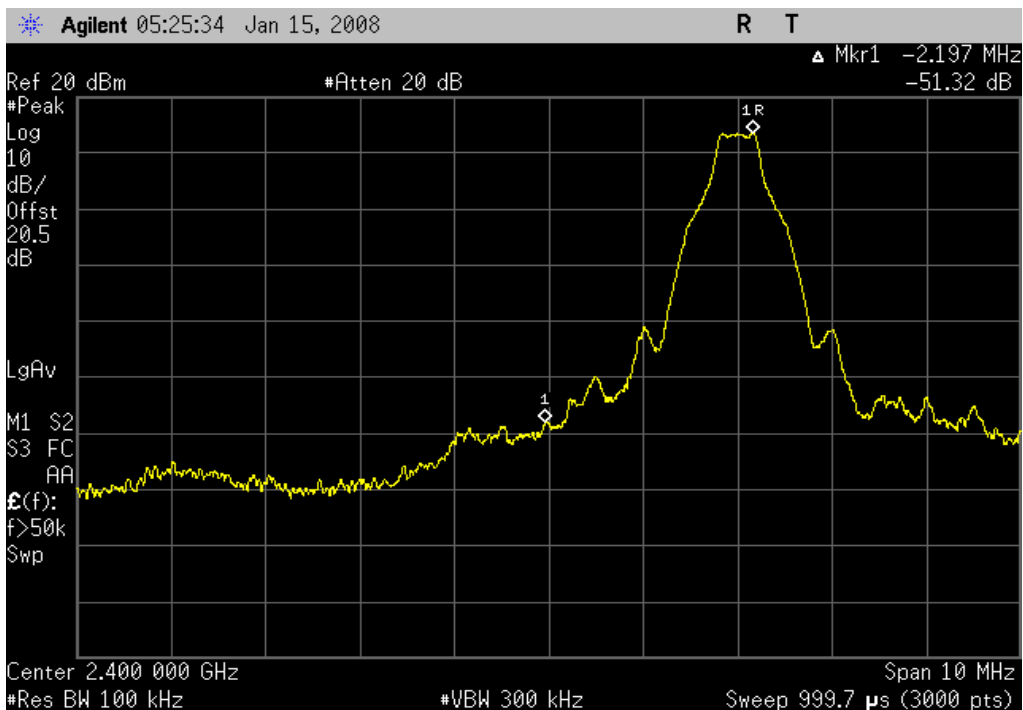
Configuration #	1	Signature <i>Holly Ashkannejhad</i>
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		Value	Limit	Results
Bluetooth, GFSK, DH5	Low channel, 2402MHz	-51.3 dBc	≤ -20 dBc	Pass
	High channel, 2480MHz	-56.9 dBc	≤ -20 dBc	Pass
Bluetooth, pi/4-DQPSK, 2DH5	Low channel, 2402MHz	-41.2 dBc	≤ -20 dBc	Pass
	High channel, 2480MHz	-44.9 dBc	≤ -20 dBc	Pass
Bluetooth, 8DPSK, 3DH5	Low channel, 2402MHz	-42.1 dBc	≤ -20 dBc	Pass
	High channel, 2480MHz	-48.2 dBc	≤ -20 dBc	Pass

# Bandedge Compliance

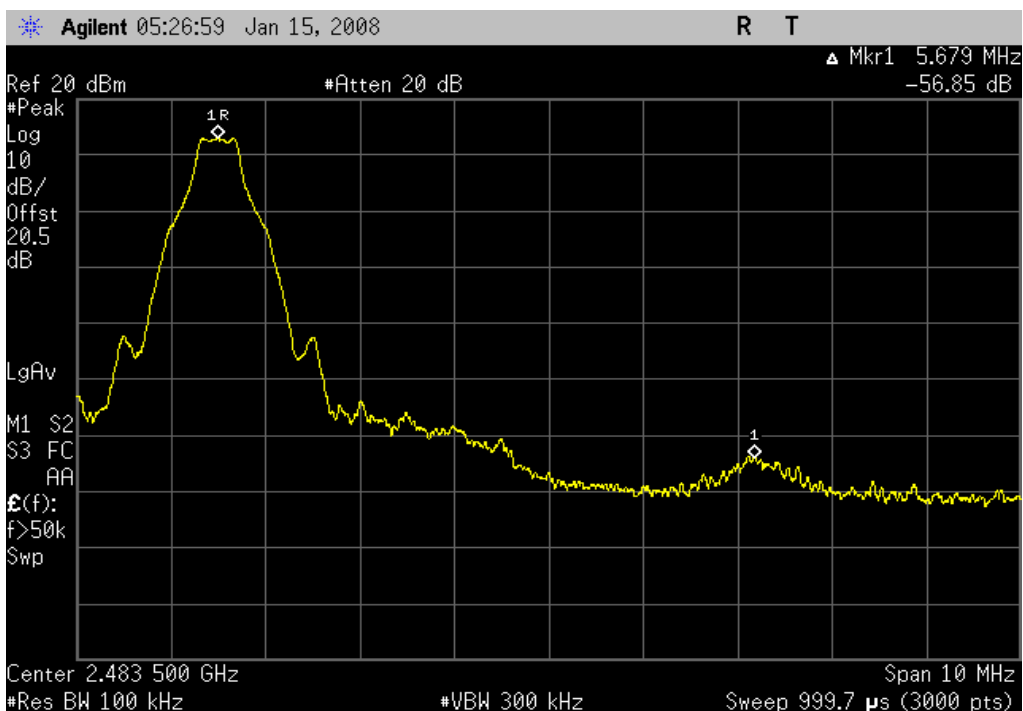
Bluetooth, GFSK, DH5, Low channel, 2402MHz

**Result:** Pass      **Value:** -51.3 dBc      **Limit:** ≤ -20 dBc



Bluetooth, GFSK, DH5, High channel, 2480MHz

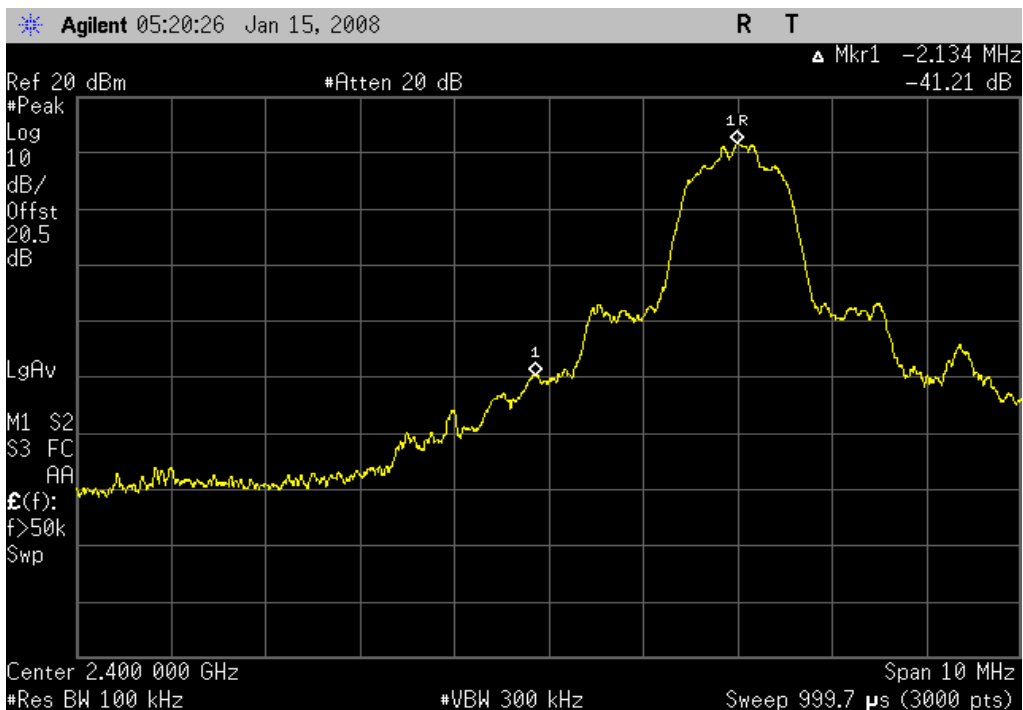
**Result:** Pass      **Value:** -56.9 dBc      **Limit:** ≤ -20 dBc



# Bandedge Compliance

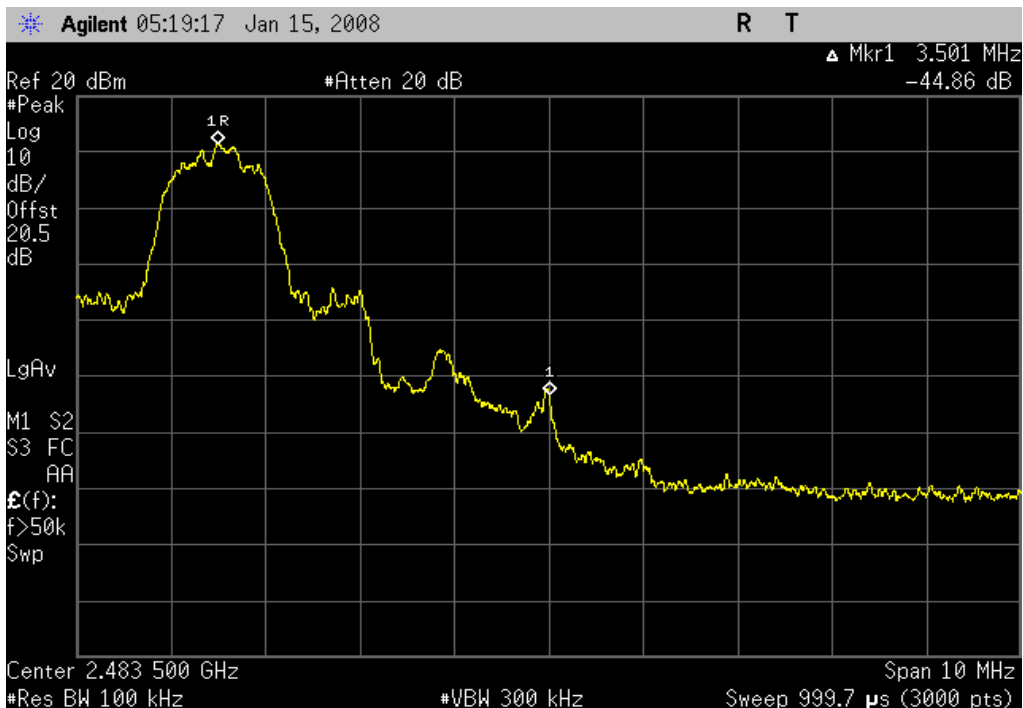
Bluetooth, pi/4-DQPSK, 2DH5, Low channel, 2402MHz

**Result:** Pass **Value:** -41.2 dBc **Limit:** ≤ -20 dBc



Bluetooth, pi/4-DQPSK, 2DH5, High channel, 2480MHz

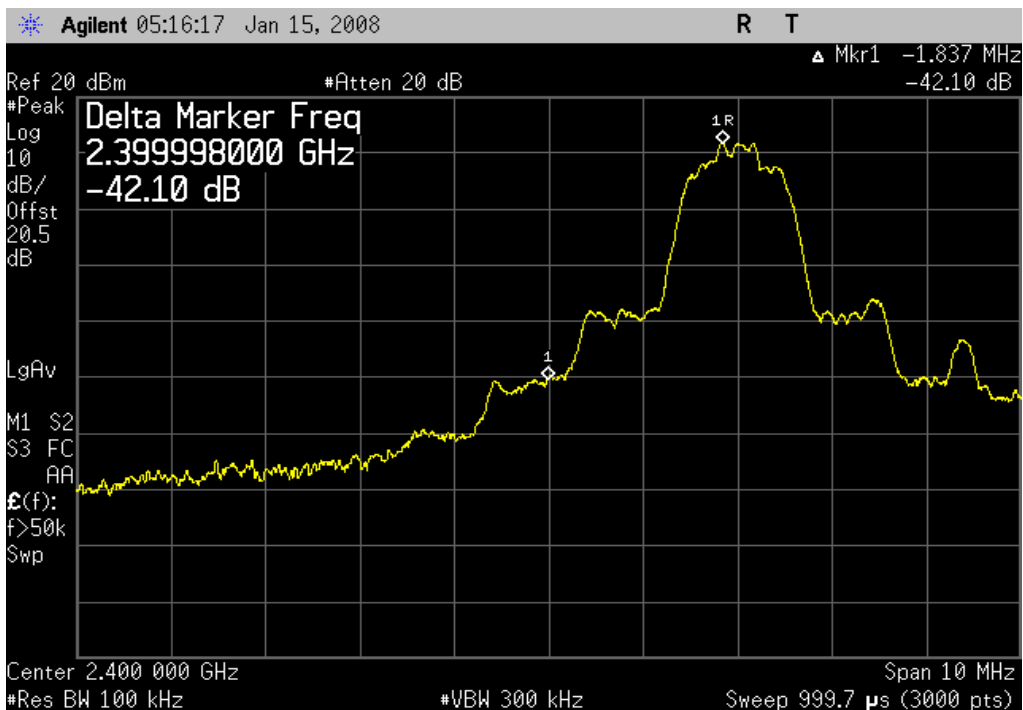
**Result:** Pass **Value:** -44.9 dBc **Limit:** ≤ -20 dBc



# Bandedge Compliance

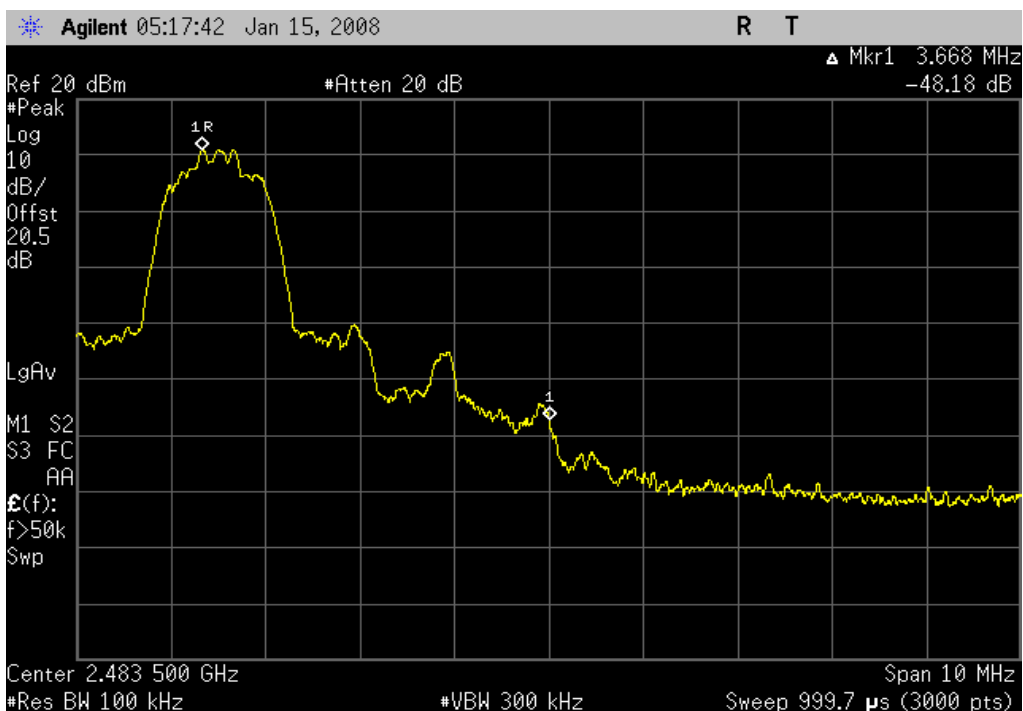
Bluetooth, 8DPSK, 3DH5, Low channel, 2402MHz

**Result:** Pass      **Value:** -42.1 dBc      **Limit:** ≤ -20 dBc



Bluetooth, 8DPSK, 3DH5, High channel, 2480MHz

**Result:** Pass      **Value:** -48.2 dBc      **Limit:** ≤ -20 dBc







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.

#### TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAY	12/18/2007	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13

#### 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 spurious RF conducted emissions were measured with the EUT set to low, medium, and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate in a no hop mode. For each transmit frequency, the spectrum was scanned throughout the specified frequency.

## EMC

## Spurious Conducted Emissions

EUT: IX350 with Bluetooth module GUBTC41M-TH	Work Order: SPT0078
Serial Number: None	Date: 01/14/08
Customer: Spectrum Technology, Inc.	Temperature: 23°C
Attendees: Rod Munro	Humidity: 29%
Project: None	Barometric Pres.: 1023.7
Tested by: Holly Ashkannejhad	Power: 120VAC/60Hz
	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

**COMMENTS**  
Bluetooth radio in IX350. Power software levels used: GFSK mode used 255, 44; pi/4-DQPSK and 8DPSK used 255, 86.

**DEVIATIONS FROM TEST STANDARD**

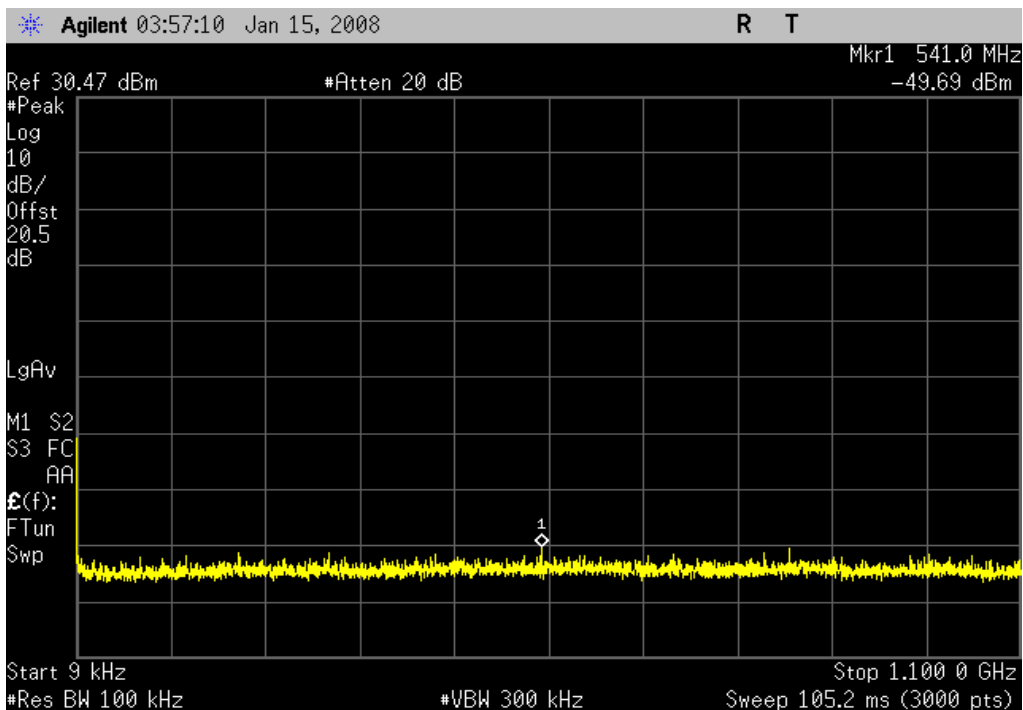
Configuration #	1	Signature <i>Holly Ashkannejhad</i>
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	Value	Limit	Results
<b>Bluetooth, GFSK, DH5</b>			
Low channel, 2402MHz			
9kHz - 1.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
1GHz - 13.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
13GHz - 26GHz	≤ -40 dBc	≤ -20 dBc	Pass
Mid channel, 2441MHz			
9kHz - 1.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
1GHz - 13.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
13GHz - 26GHz	≤ -40 dBc	≤ -20 dBc	Pass
High channel, 2480MHz			
9kHz - 1.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
1GHz - 13.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
13GHz - 26GHz	≤ -40 dBc	≤ -20 dBc	Pass
<b>Bluetooth, pi/4-DQPSK, 2DH5</b>			
Low channel, 2402MHz			
9kHz - 1.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
1GHz - 13.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
13GHz - 26GHz	≤ -40 dBc	≤ -20 dBc	Pass
Mid channel, 2441MHz			
9kHz - 1.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
1GHz - 13.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
13GHz - 26GHz	≤ -40 dBc	≤ -20 dBc	Pass
High channel, 2480MHz			
9kHz - 1.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
1GHz - 13.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
13GHz - 26GHz	≤ -40 dBc	≤ -20 dBc	Pass
<b>Bluetooth, 8DPSK, 3DH5</b>			
Low channel, 2402MHz			
9kHz - 1.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
1GHz - 13.1GHz	≤ -35 dBc	≤ -20 dBc	Pass
13GHz - 26GHz	≤ -40 dBc	≤ -20 dBc	Pass
Mid channel, 2441MHz			
9kHz - 1.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
1GHz - 13.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
13GHz - 26GHz	≤ -40 dBc	≤ -20 dBc	Pass
High channel, 2480MHz			
9kHz - 1.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
1GHz - 13.1GHz	≤ -40 dBc	≤ -20 dBc	Pass
13GHz - 26GHz	≤ -40 dBc	≤ -20 dBc	Pass

# Spurious Conducted Emissions

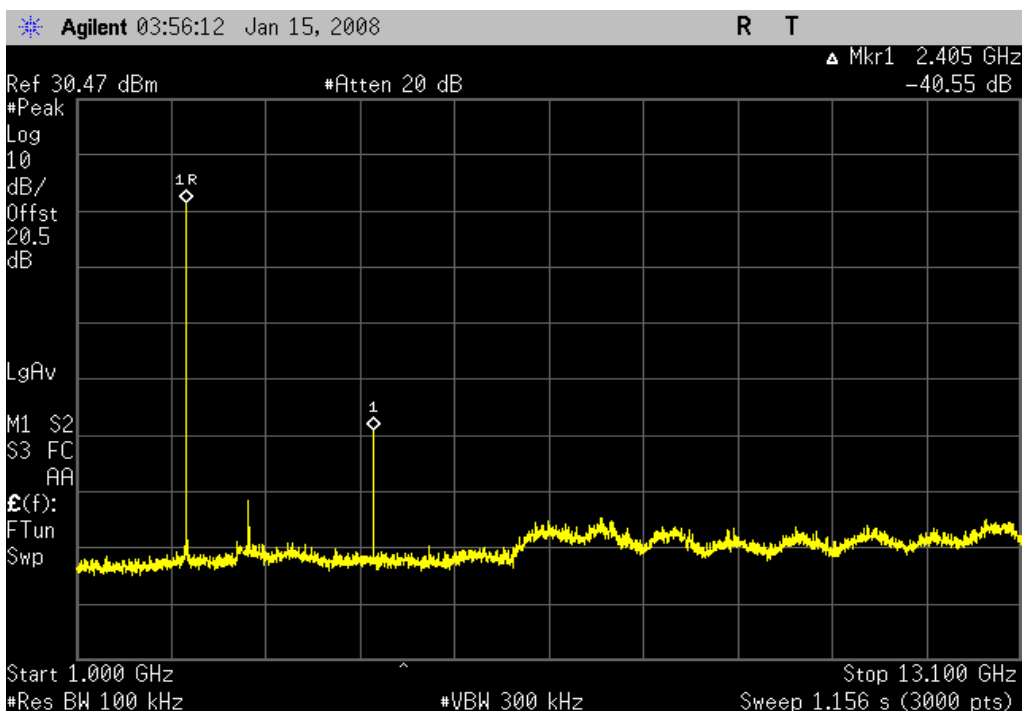
Bluetooth, GFSK, DH5, Low channel, 2402MHz, 9kHz - 1.1GHz

**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



Bluetooth, GFSK, DH5, Low channel, 2402MHz, 1GHz - 13.1GHz

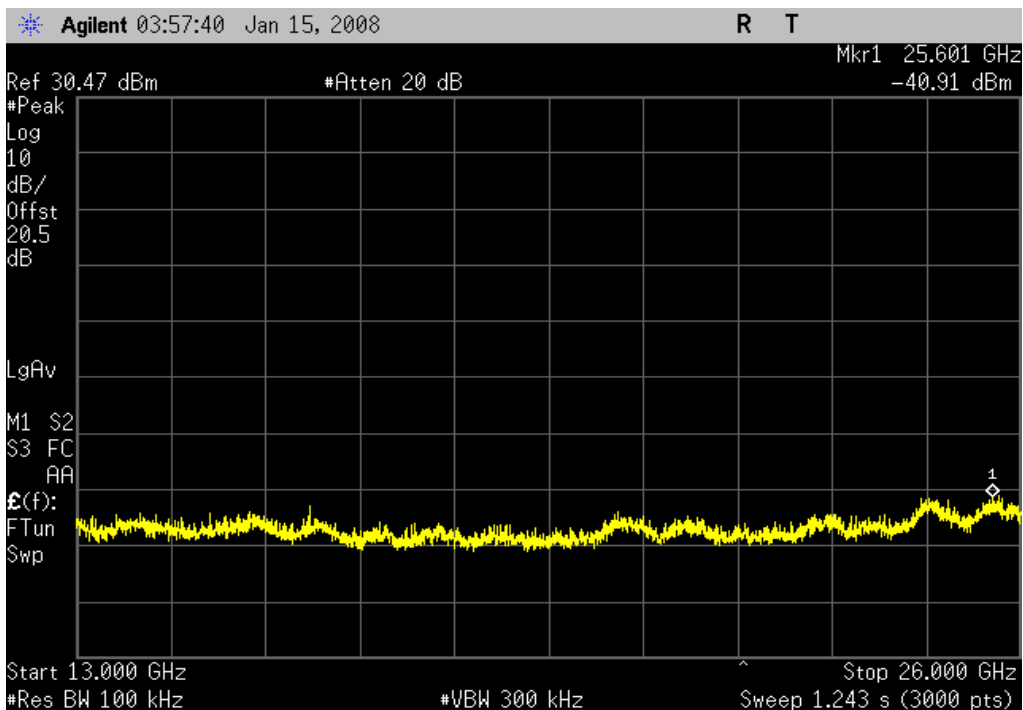
**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



# Spurious Conducted Emissions

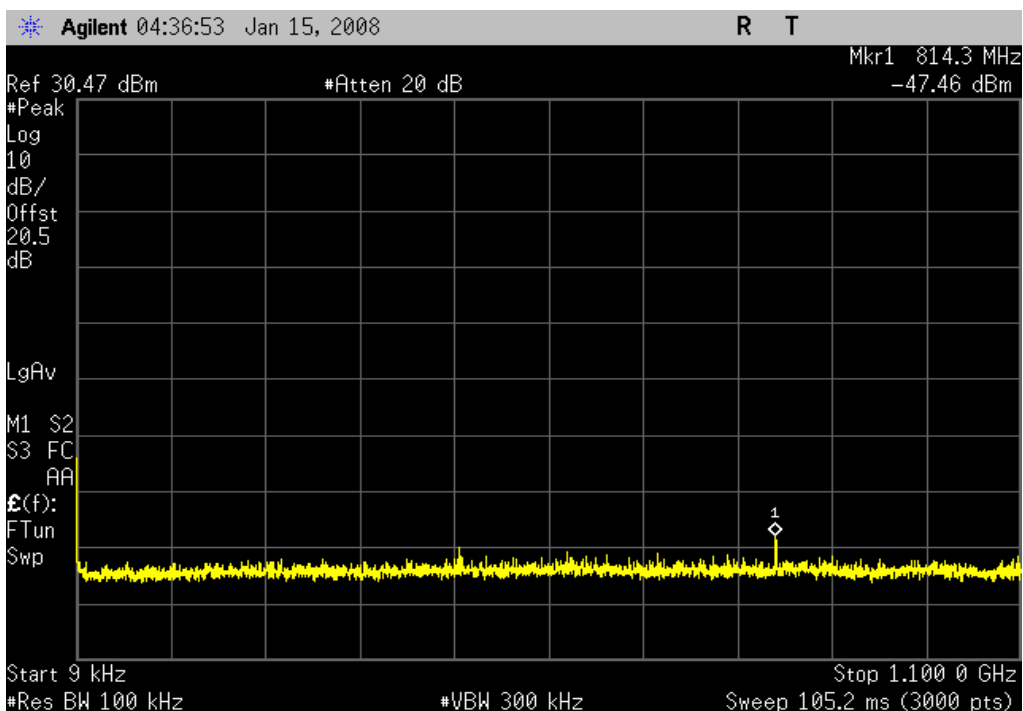
Bluetooth, GFSK, DH5, Low channel, 2402MHz, 13GHz - 26GHz

**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



Bluetooth, GFSK, DH5, Mid channel, 2441MHz, 9kHz - 1.1GHz

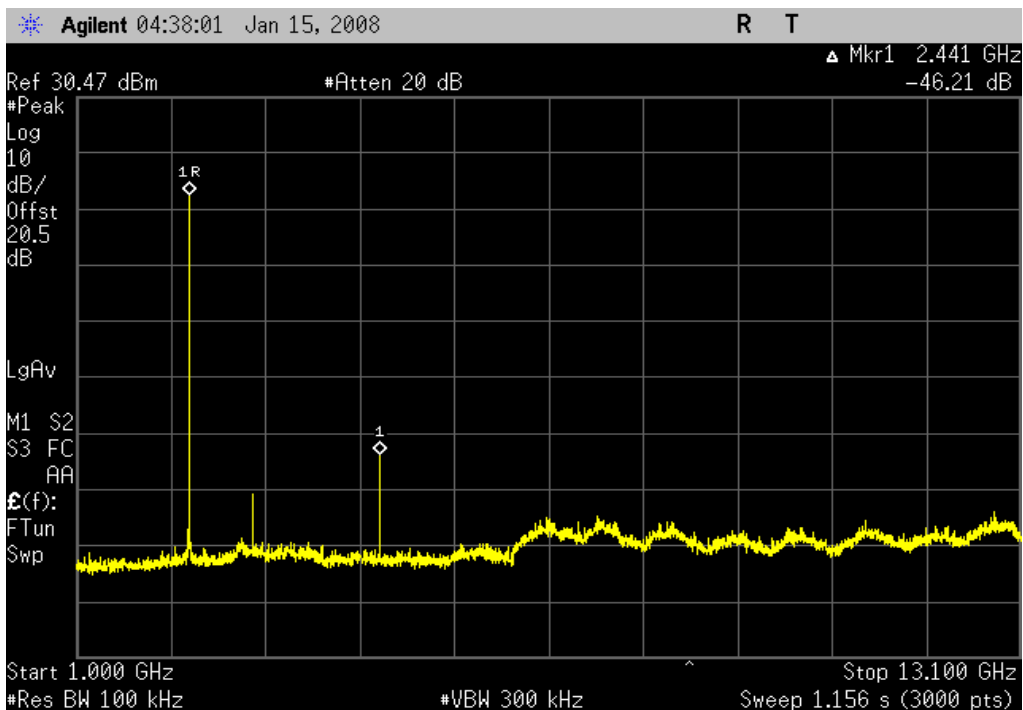
**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



# Spurious Conducted Emissions

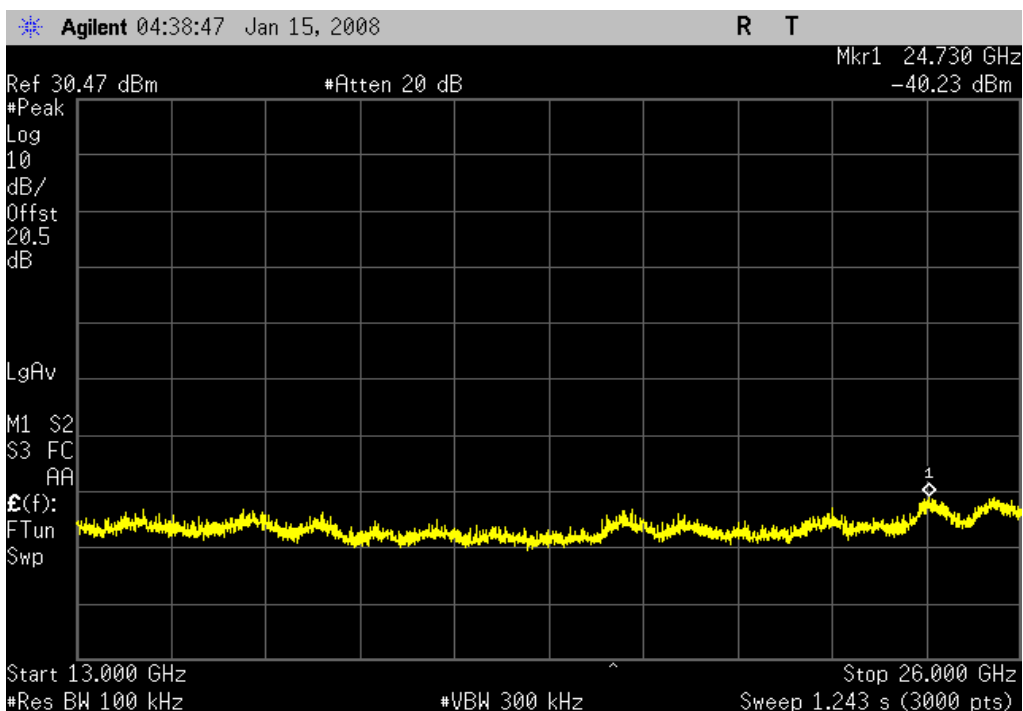
Bluetooth, GFSK, DH5, Mid channel, 2441MHz, 1GHz - 13.1GHz

**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



Bluetooth, GFSK, DH5, Mid channel, 2441MHz, 13GHz - 26GHz

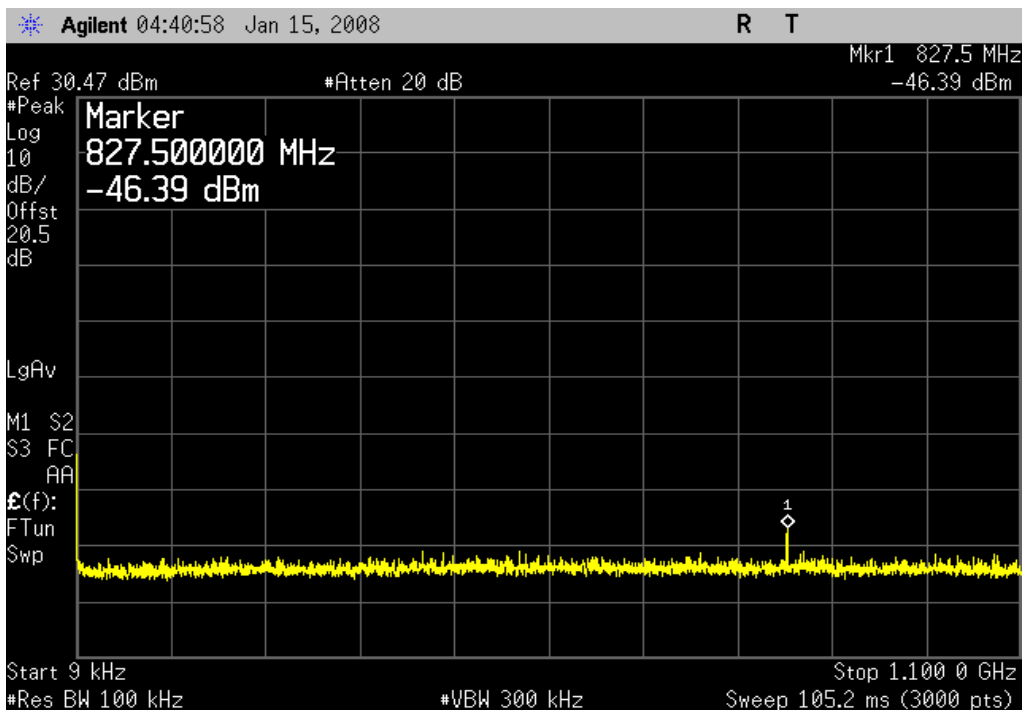
**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



# Spurious Conducted Emissions

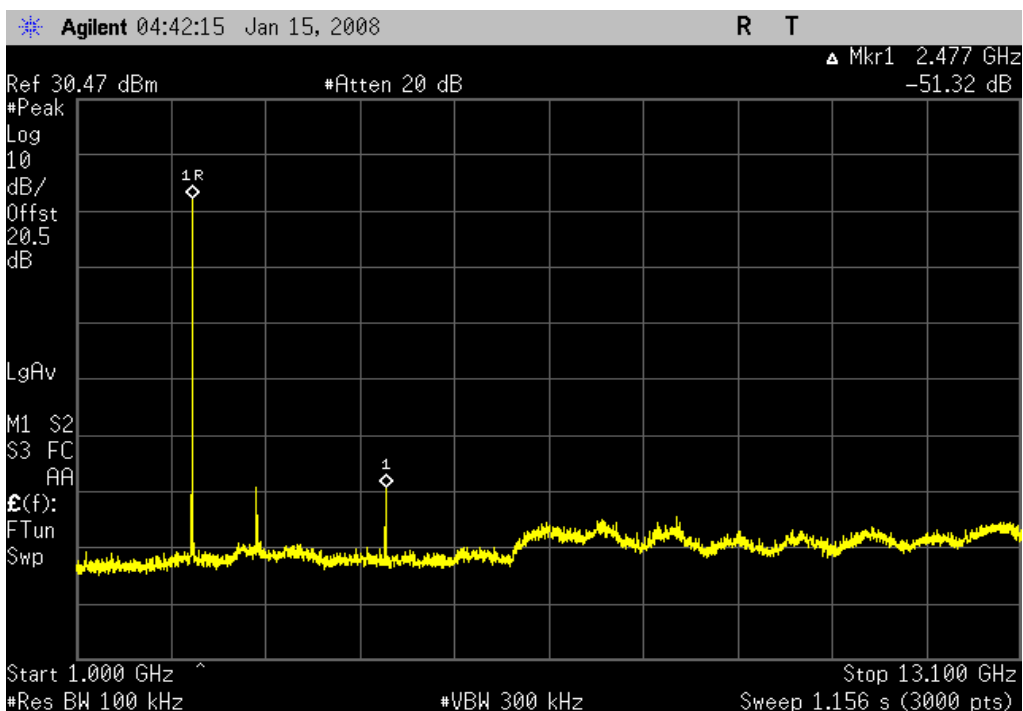
Bluetooth, GFSK, DH5, High channel, 2480MHz, 9kHz - 1.1GHz

**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



Bluetooth, GFSK, DH5, High channel, 2480MHz, 1GHz - 13.1GHz

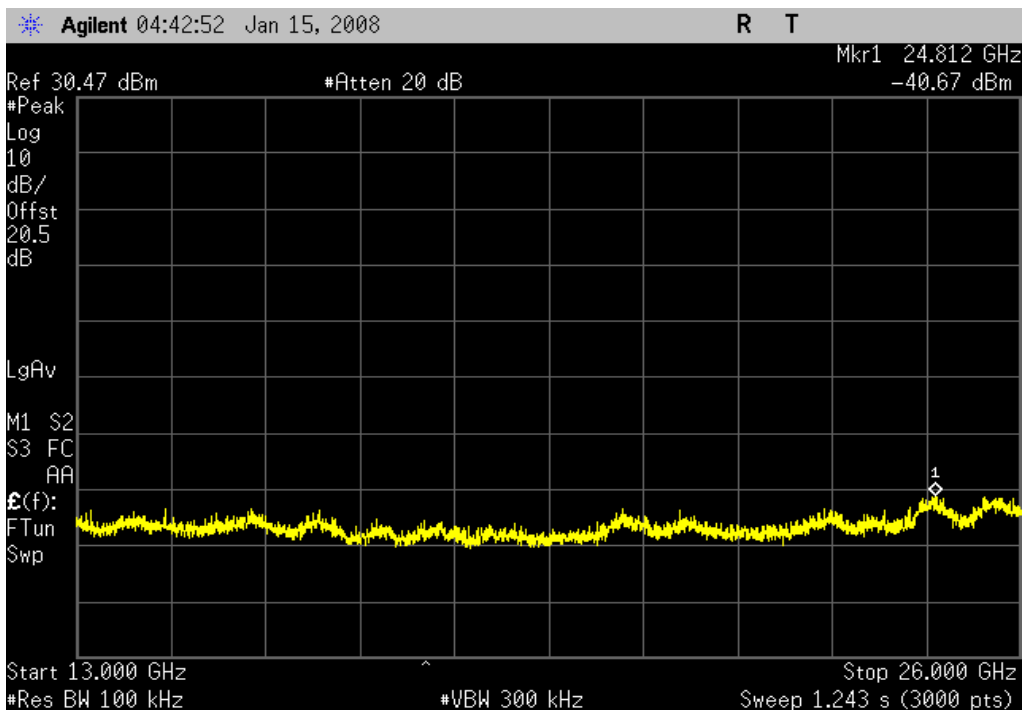
**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



# Spurious Conducted Emissions

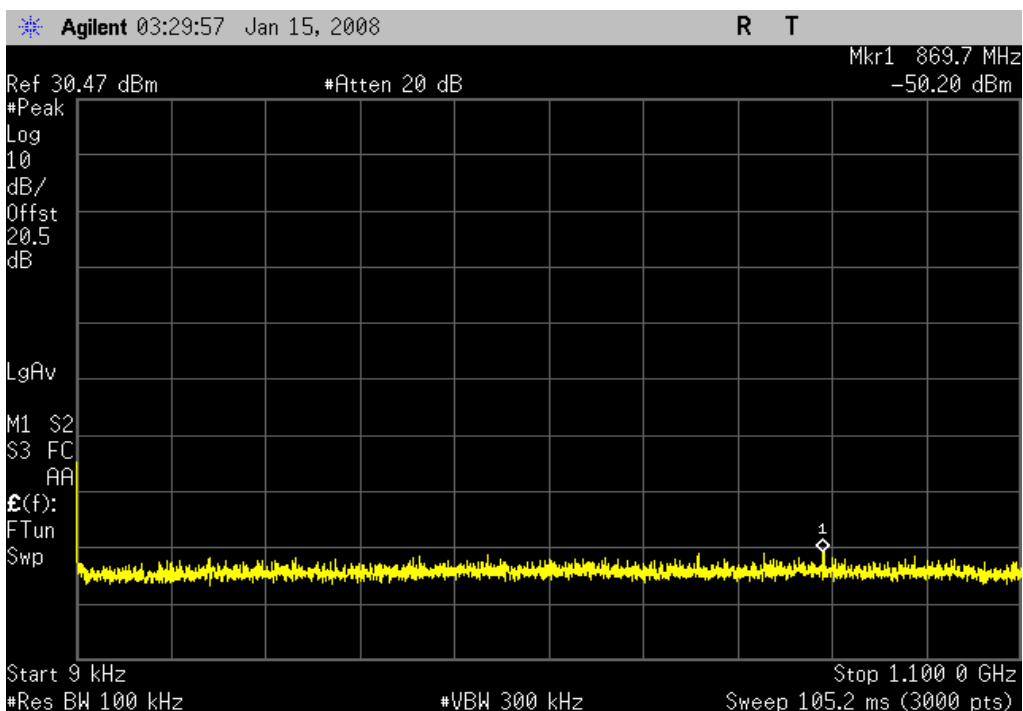
Bluetooth, GFSK, DH5, High channel, 2480MHz, 13GHz - 26GHz

**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



Bluetooth, pi/4-DQPSK, 2DH5, Low channel, 2402MHz, 9kHz - 1.1GHz

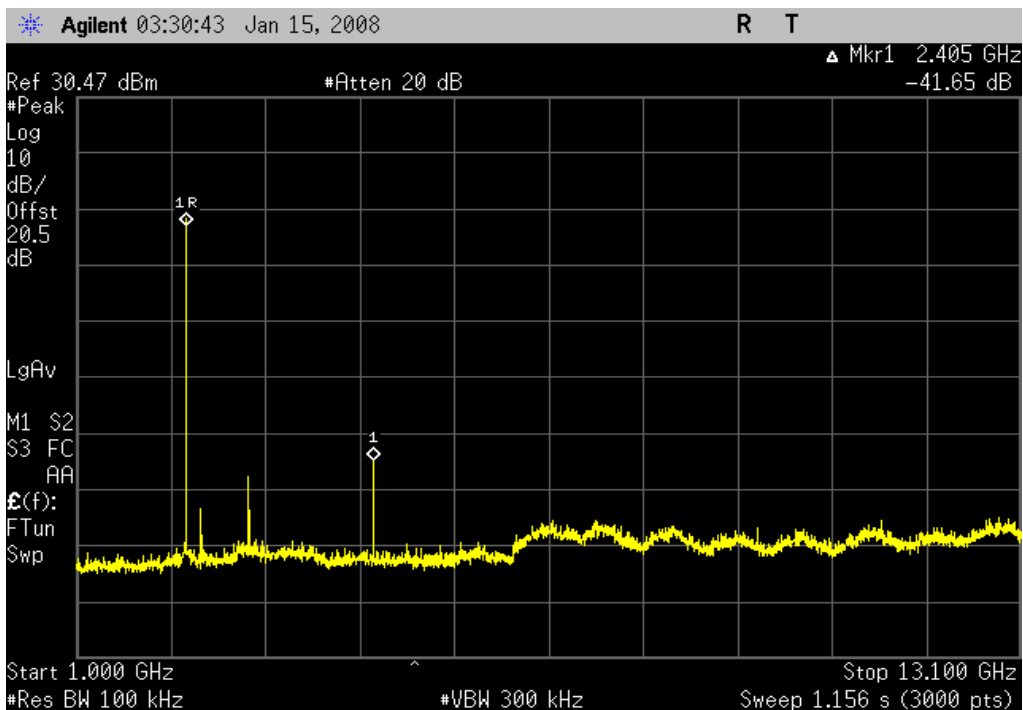
**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



# Spurious Conducted Emissions

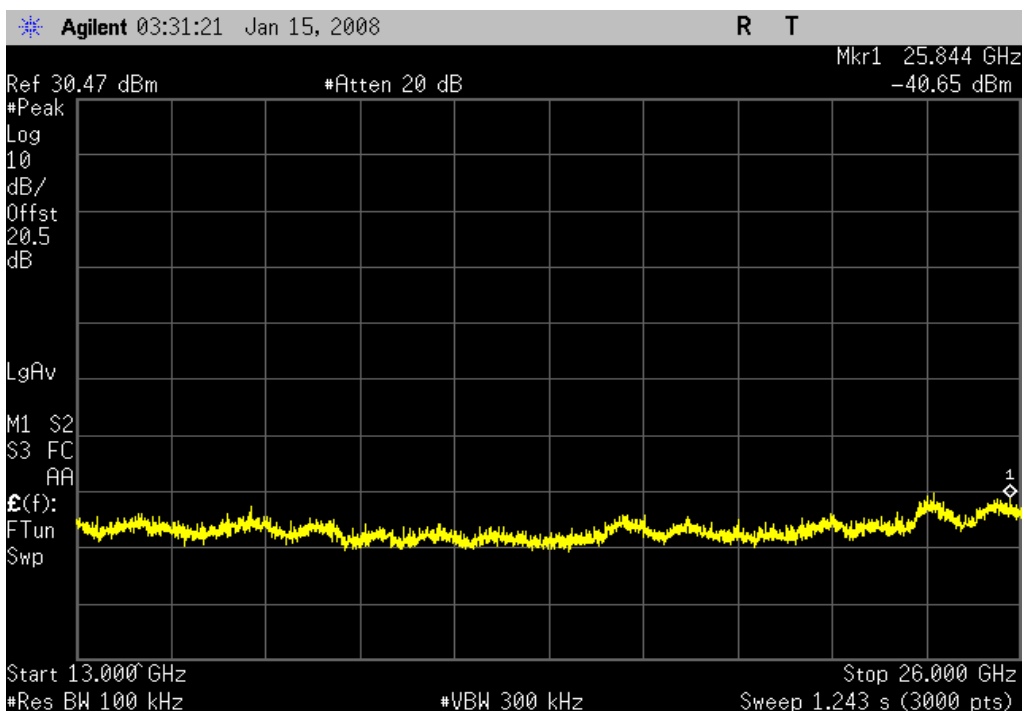
Bluetooth, pi/4-DQPSK, 2DH5, Low channel, 2402MHz, 1GHz - 13.1GHz

**Result:** Pass      **Value:** ≤ -40 dBc      **Limit:** ≤ -20 dBc



Bluetooth, pi/4-DQPSK, 2DH5, Low channel, 2402MHz, 13GHz - 26GHz

**Result:** Pass      **Value:** ≤ -40 dBc      **Limit:** ≤ -20 dBc

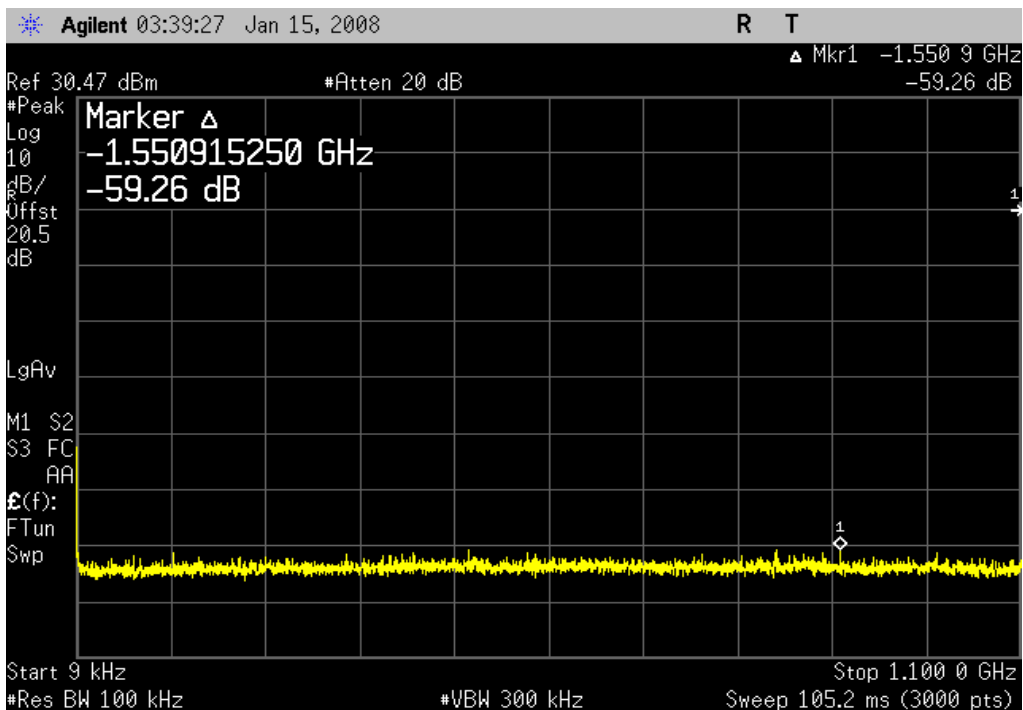




# Spurious Conducted Emissions

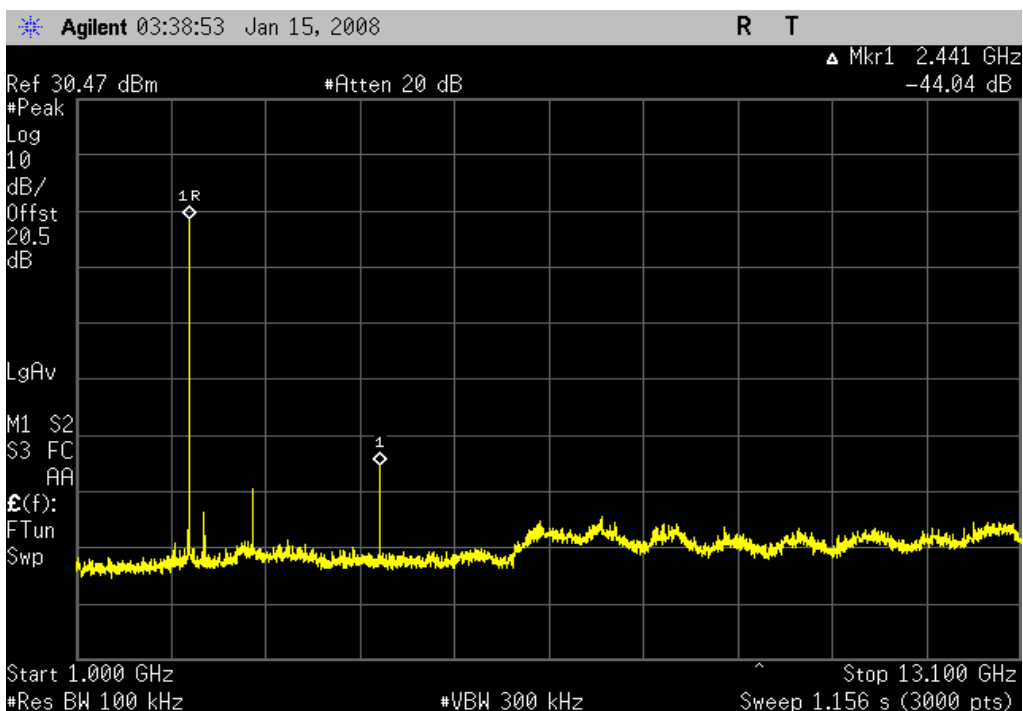
Bluetooth, pi/4-DQPSK, 2DH5, Mid channel, 2441MHz, 9kHz - 1.1GHz

**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



Bluetooth, pi/4-DQPSK, 2DH5, Mid channel, 2441MHz, 1GHz - 13.1GHz

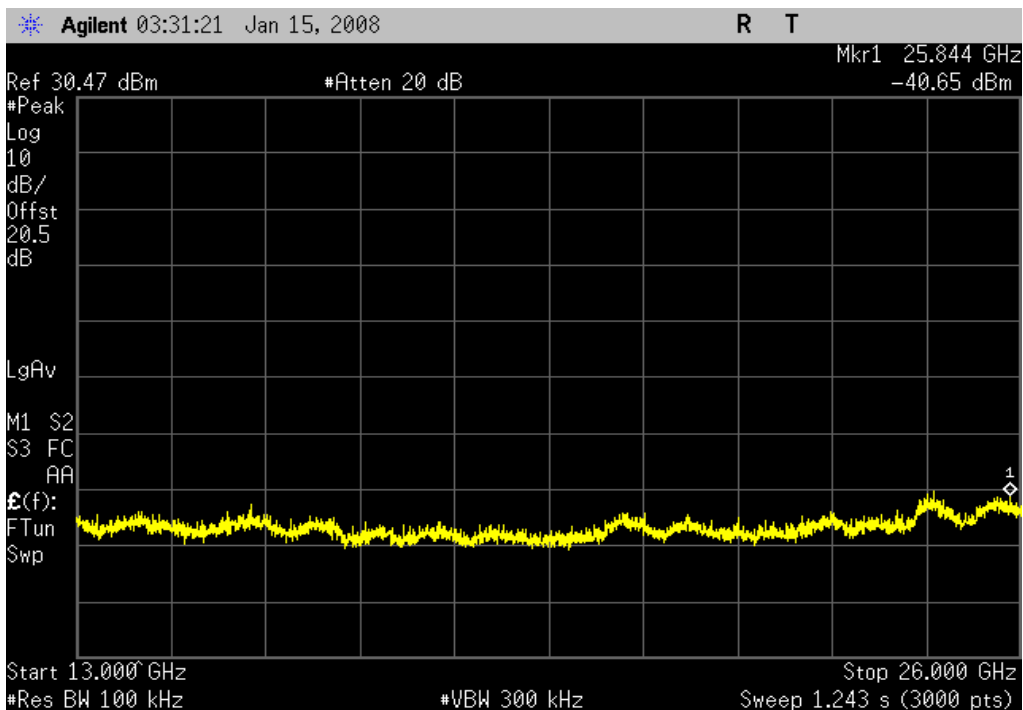
**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



# Spurious Conducted Emissions

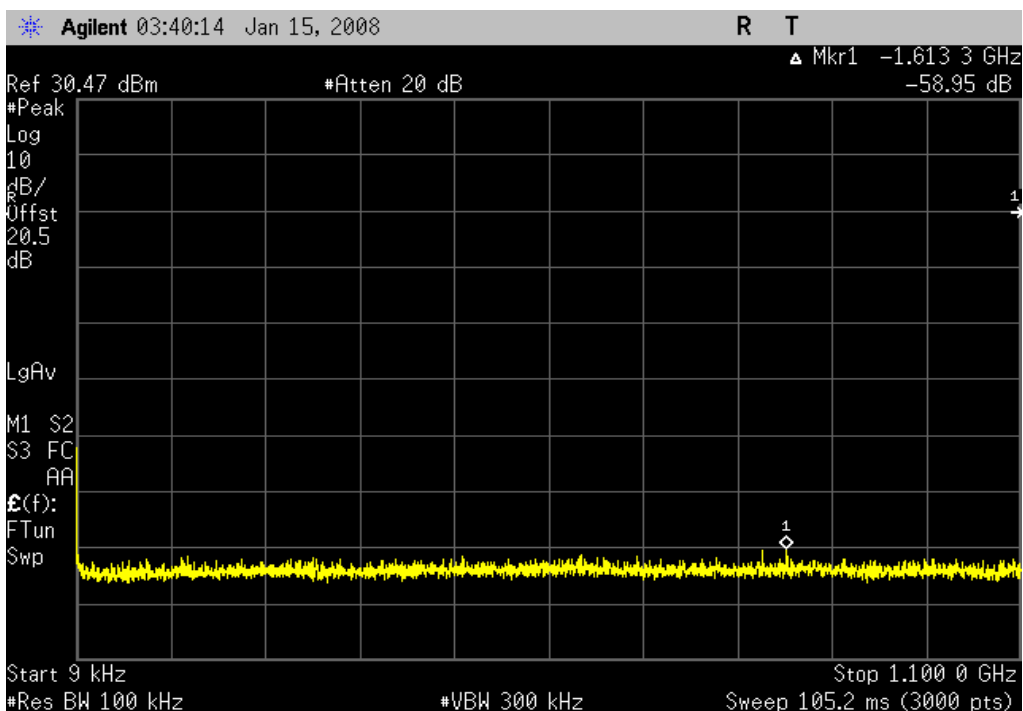
Bluetooth, pi/4-DQPSK, 2DH5, Mid channel, 2441MHz, 13GHz - 26GHz

**Result:** Pass      **Value:** ≤ -40 dBc      **Limit:** ≤ -20 dBc



Bluetooth, pi/4-DQPSK, 2DH5, High channel, 2480MHz, 9kHz - 1.1GHz

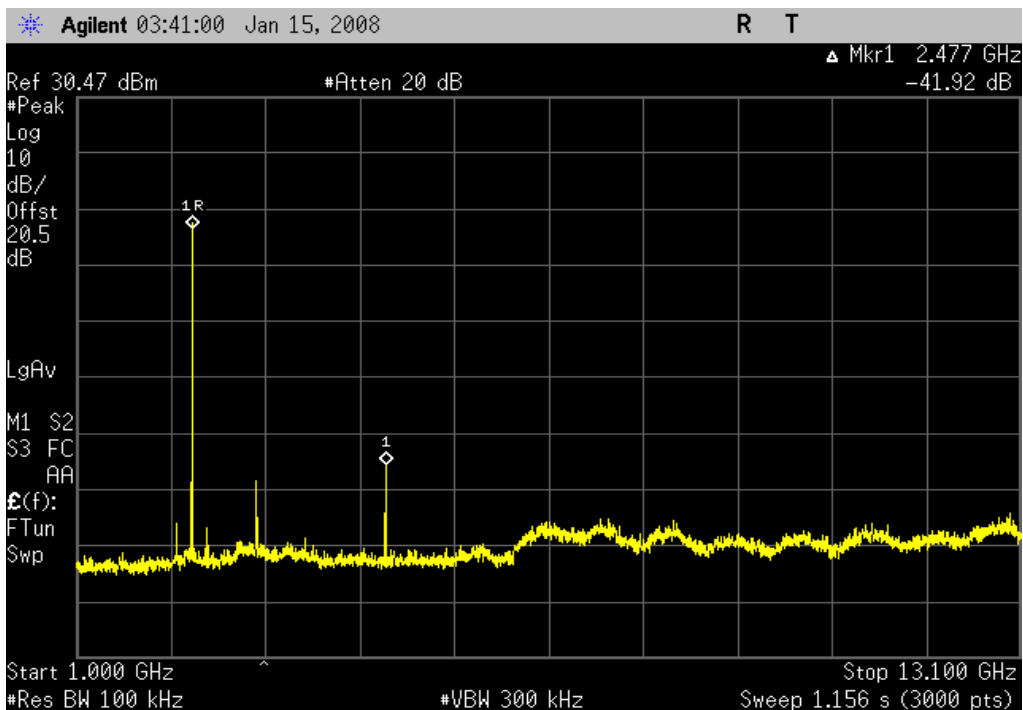
**Result:** Pass      **Value:** ≤ -40 dBc      **Limit:** ≤ -20 dBc



# Spurious Conducted Emissions

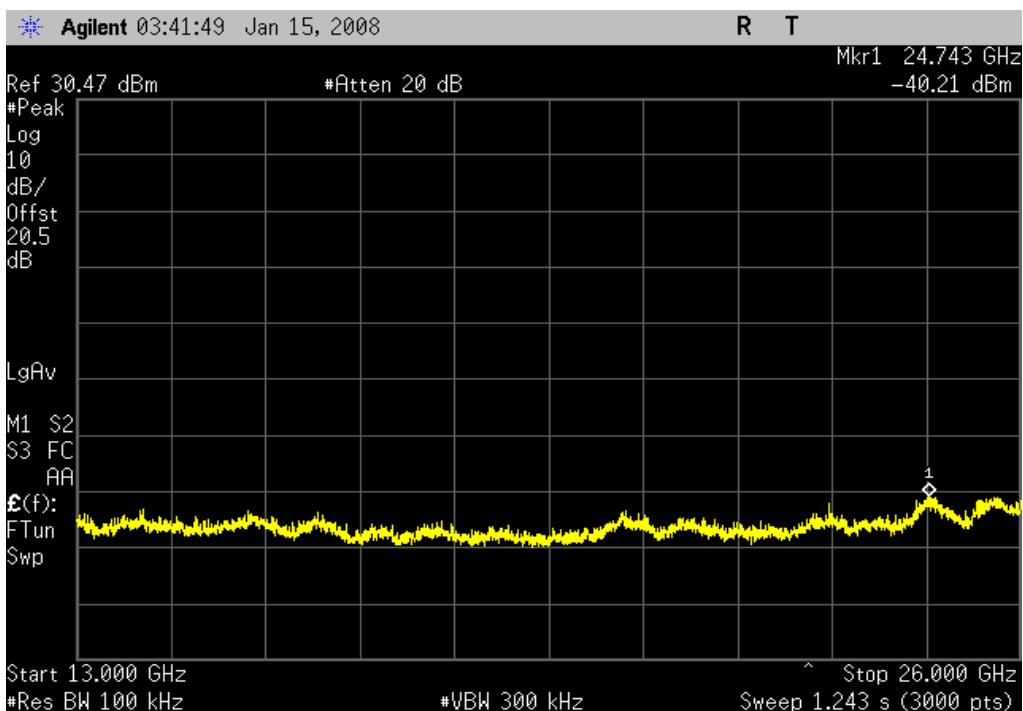
Bluetooth, pi/4-DQPSK, 2DH5, High channel, 2480MHz, 1GHz - 13.1GHz

**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



Bluetooth, pi/4-DQPSK, 2DH5, High channel, 2480MHz, 13GHz - 26GHz

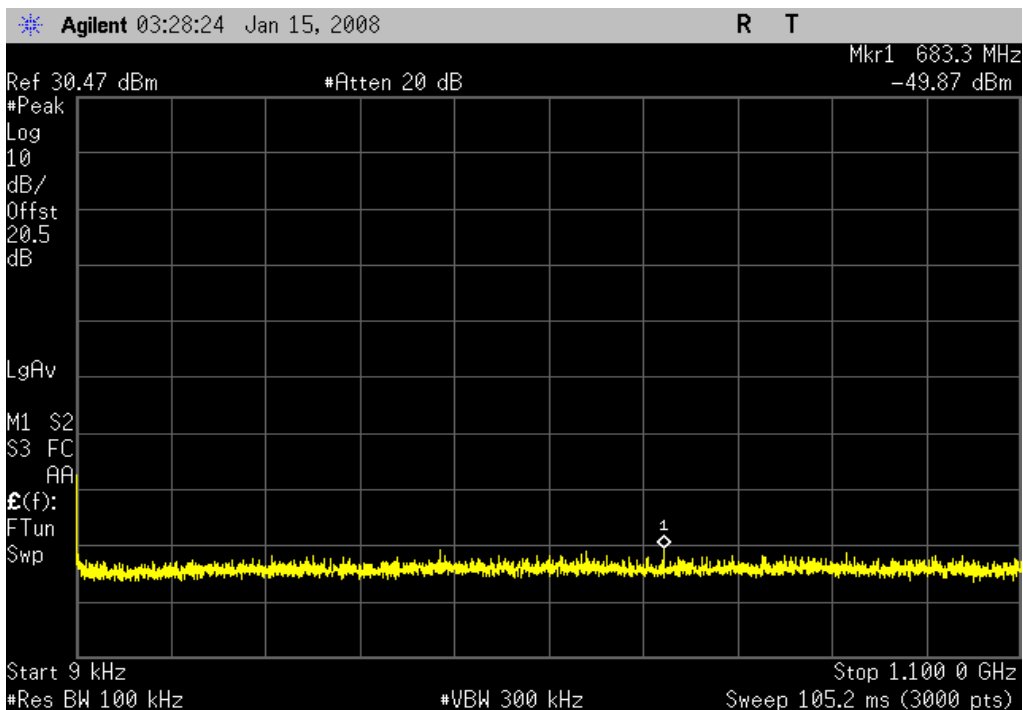
**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



# Spurious Conducted Emissions

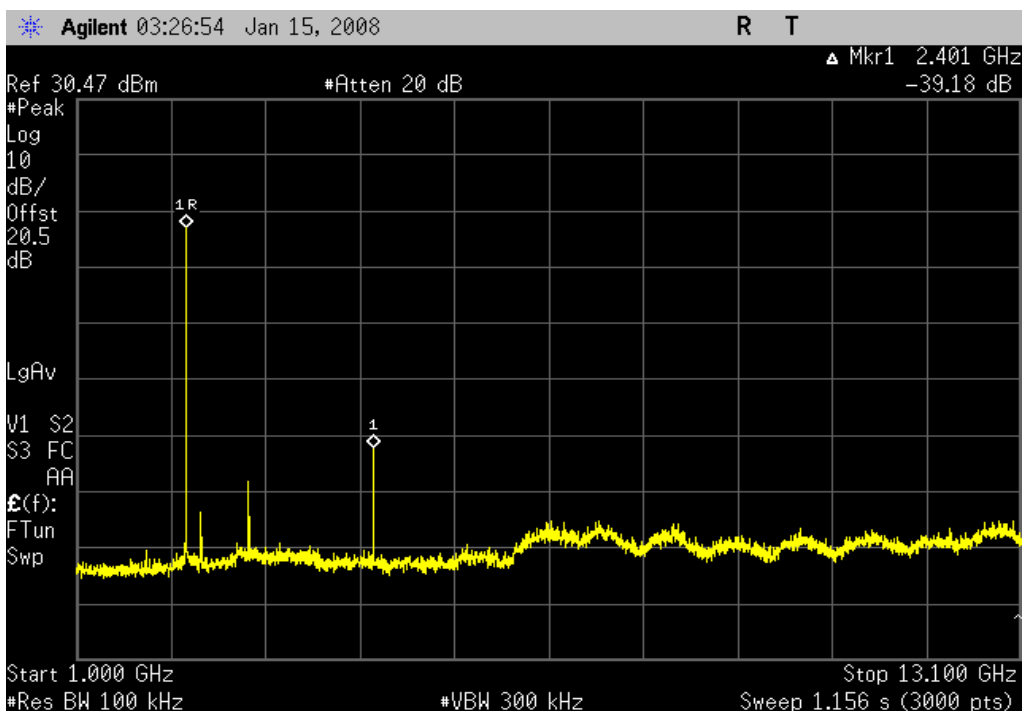
Bluetooth, 8DPSK, 3DH5, Low channel, 2402MHz, 9kHz - 1.1GHz

**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



Bluetooth, 8DPSK, 3DH5, Low channel, 2402MHz, 1GHz - 13.1GHz

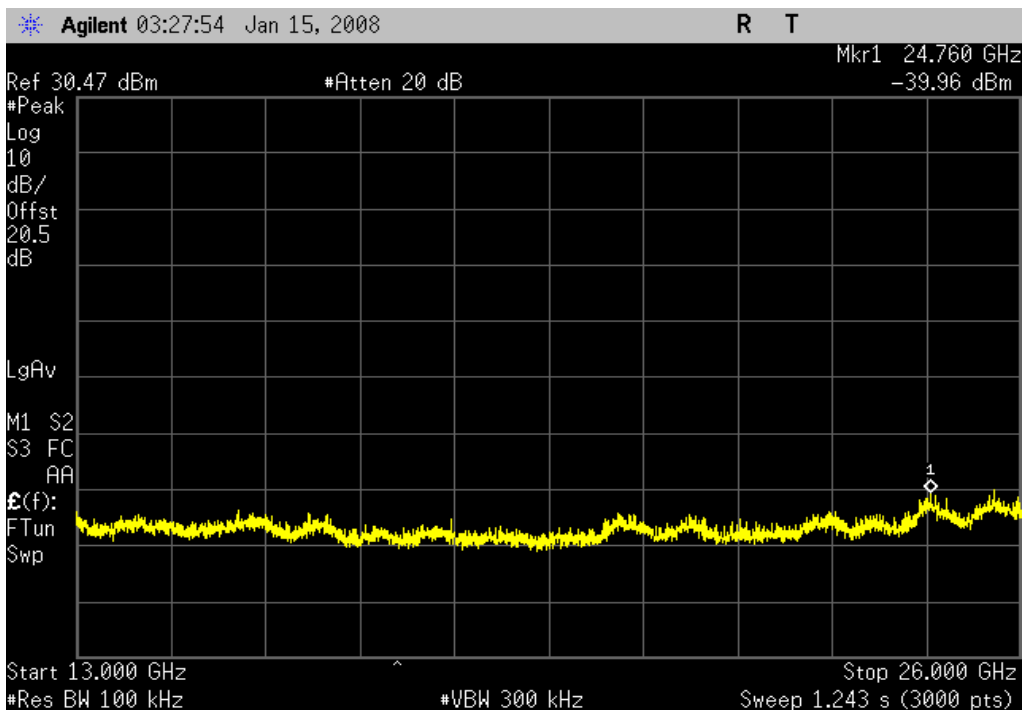
**Result:** Pass      **Value:**  $\leq -35$  dBc      **Limit:**  $\leq -20$  dBc



# Spurious Conducted Emissions

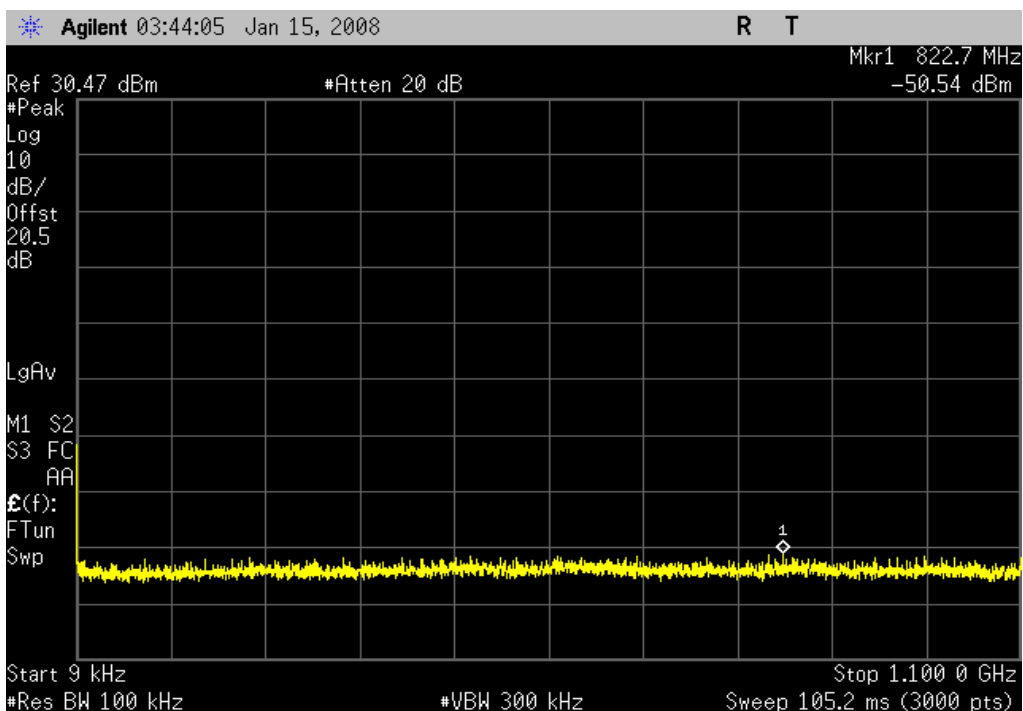
Bluetooth, 8DPSK, 3DH5, Low channel, 2402MHz, 13GHz - 26GHz

**Result:** Pass      **Value:** ≤ -40 dBc      **Limit:** ≤ -20 dBc



Bluetooth, 8DPSK, 3DH5, Mid channel, 2441MHz, 9kHz - 1.1GHz

**Result:** Pass      **Value:** ≤ -40 dBc      **Limit:** ≤ -20 dBc

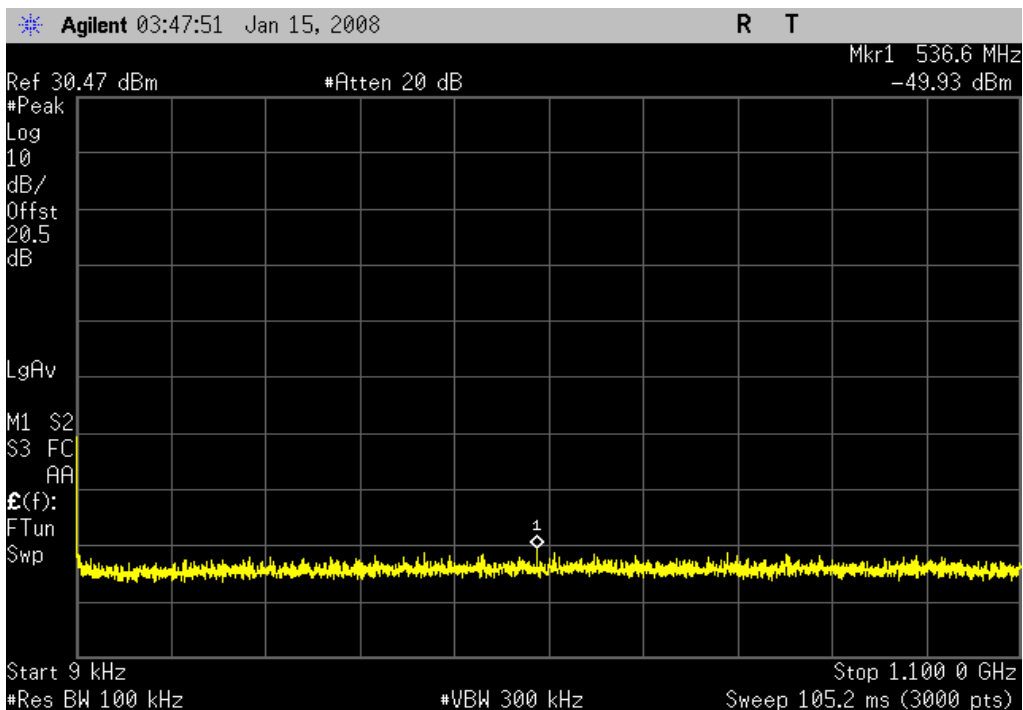




# Spurious Conducted Emissions

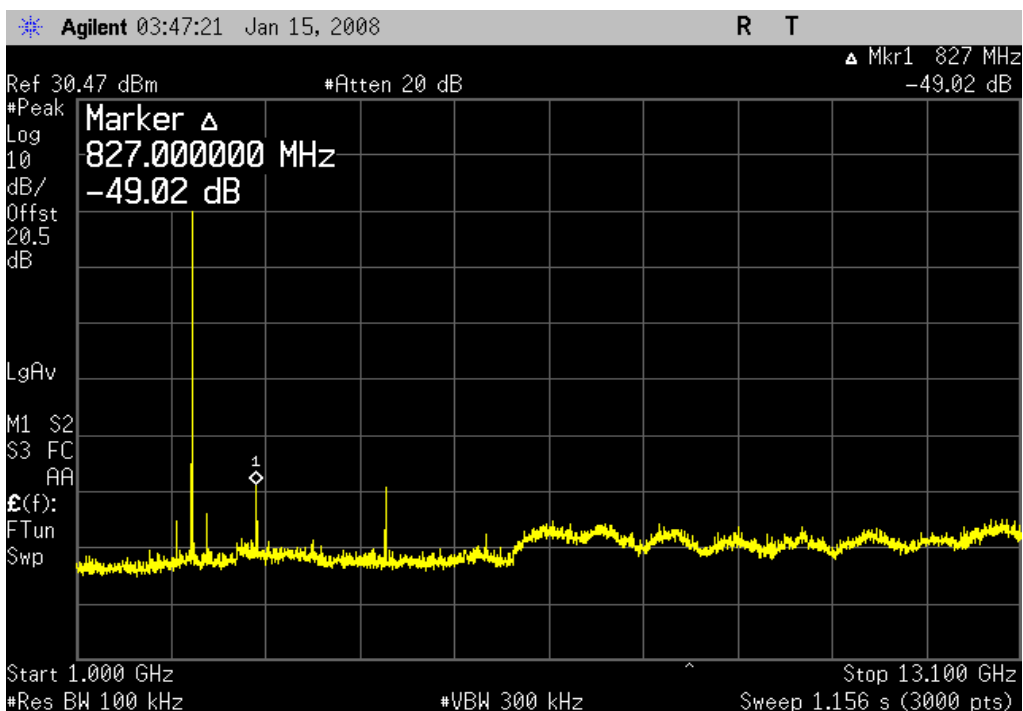
Bluetooth, 8DPSK, 3DH5, High channel, 2480MHz, 9kHz - 1.1GHz

**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



Bluetooth, 8DPSK, 3DH5, High channel, 2480MHz, 1GHz - 13.1GHz

**Result:** Pass      **Value:**  $\leq -40$  dBc      **Limit:**  $\leq -20$  dBc



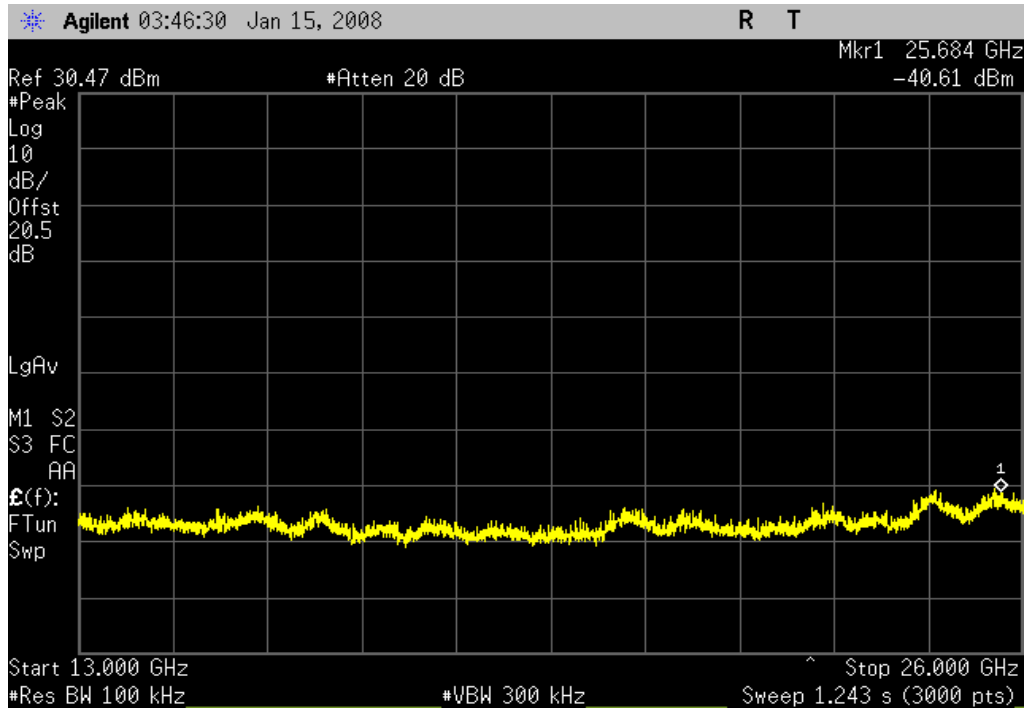
# Spurious Conducted Emissions

Bluetooth, 8DPSK, 3DH5, High channel, 2480MHz, 13GHz - 26GHz

**Result:** Pass

**Value:**  $\leq -40$  dBc

**Limit:**  $\leq -20$  dBc







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.

#### TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Spectrum Analyzer	Agilent	E4446A	AAY	12/18/2007	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 peak power spectral density measurements were measured with the EUT set to low, mid, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate using direct sequence modulation. Per the procedure outlined in FCC 97-114, the spectrum analyzer was used as follows:

The emission peak(s) were located and zoom in on within the passband. The resolution bandwidth was set to 3 kHz, the video bandwidth was set to greater than or equal to the resolution bandwidth. The sweep speed was set equal to the span divided by 3 kHz (sweep = (SPAN/3 kHz)). For example, given a span of 1.5 MHz, the sweep should be  $1.5 \times 10^6 \div 3 \times 10^3 = 500$  seconds. External attenuation was used and added to the reading. The following FCC procedure was used for modifying the power spectral density measurements:

*"If the spectrum line spacing cannot be resolved on the available spectrum analyzer, the noise density function on most modern conventional spectrum analyzers will directly measure the noise power density normalized to a 1 Hz noise power bandwidth. Add 34.8 dB for correction to 3 kHz."*

## Power Spectral Density

EMC

EUT:	IX350 with Bluetooth module GUBTC41M-TH	Work Order:	SPT0078
Serial Number:	None	Date:	01/14/08
Customer:	Spectrum Technology, Inc.	Temperature:	23°C
Attendees:	Rod Munro	Humidity:	29%
Project:	None	Barometric Pres.:	1023.7
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz
		Job Site:	EV06

TEST SPECIFICATIONS		Test Method	
FCC 15.247 (DTS):2006		ANSI C63.4:2003 KDB No. 558074	

## COMMENTS

Bluetooth radio in IX350. Power software levels used: GFSK mode used 255, 44; pi/4-DQPSK and 8DPSK used 255, 86.

## DEVIATIONS FROM TEST STANDARD

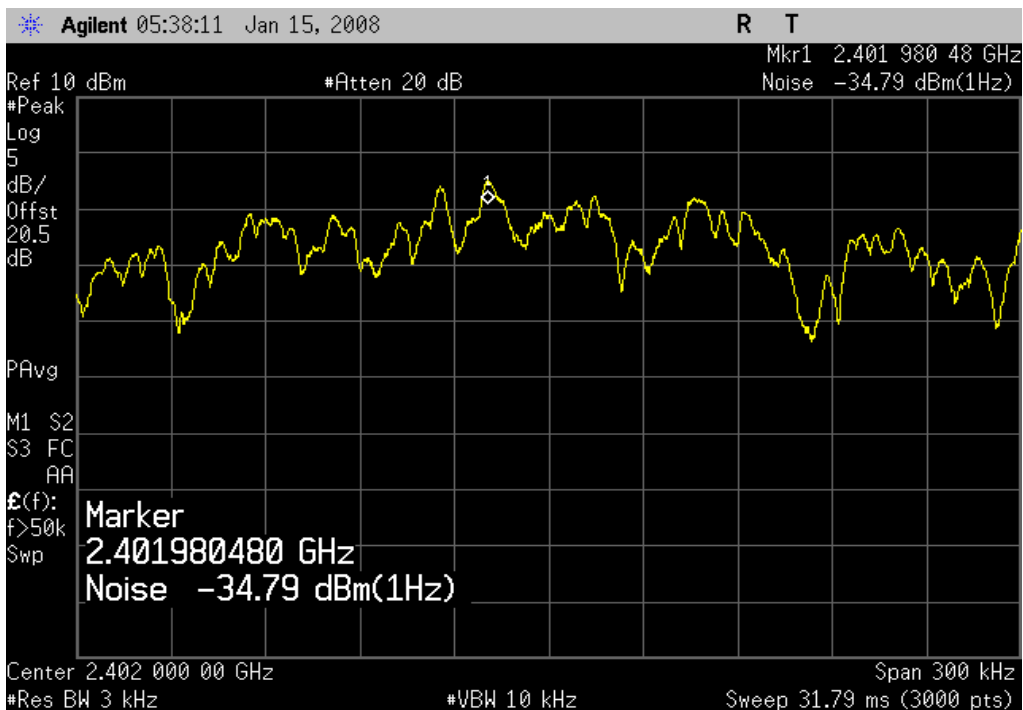
Configuration #	1	Signature <i>Holly Ashkannejhad</i>
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		Value	Limit	Results
Bluetooth, GFSK, DH5				
	Low channel, 2402MHz	0.01 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	Mid channel, 2441MHz	-0.42 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High channel, 2480MHz	-0.69 dBm / 3 kHz	8 dBm / 3 kHz	Pass
Bluetooth, pi/4-DQPSK, 2DH5				
	Low channel, 2402MHz	-3.44 dBm / 3 kHz	8 dBm / 3kHz	Pass
	Mid channel, 2441MHz	-3.75 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High channel, 2480MHz	-4.53 dBm / 3 kHz	8 dBm / 3 kHz	Pass
Bluetooth, 8DPSK, 3DH5				
	Low channel, 2402MHz	-3.61 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	Mid channel, 2441MHz	-3.98 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High channel, 2480MHz	-4.42 dBm / 3 kHz	8 dBm / 3 kHz	Pass

# Power Spectral Density

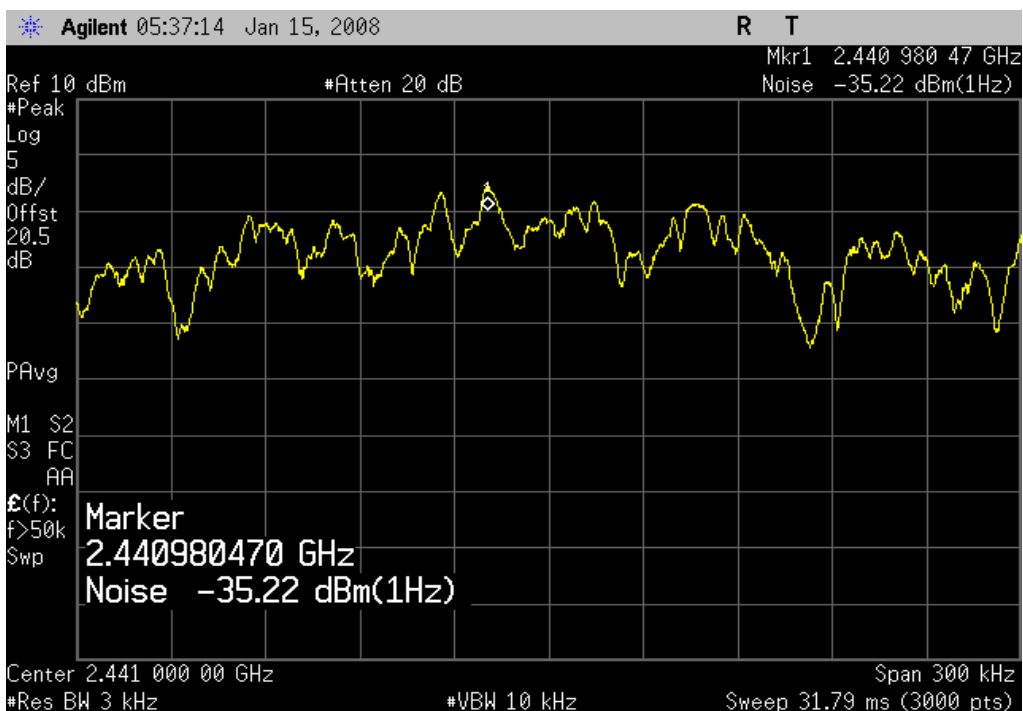
Bluetooth, GFSK, DH5, Low channel, 2402MHz

**Result:** Pass      **Value:** 0.01 dBm / 3 kHz      **Limit:** 8 dBm / 3 kHz



Bluetooth, GFSK, DH5, Mid channel, 2441MHz

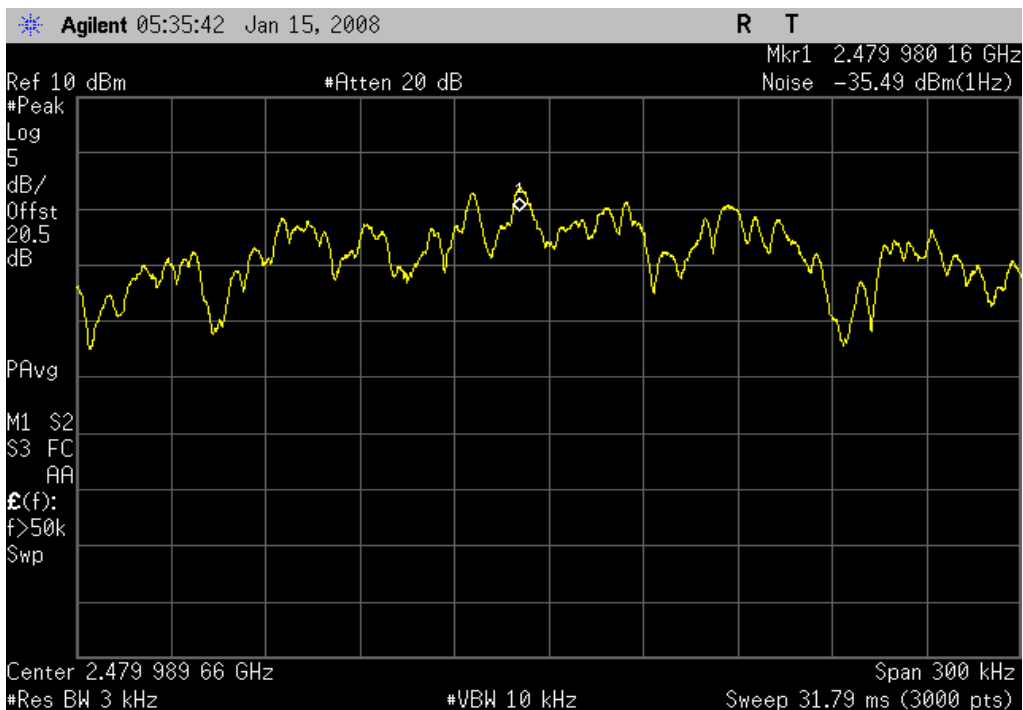
**Result:** Pass      **Value:** -0.42 dBm / 3 kHz      **Limit:** 8 dBm / 3 kHz



# Power Spectral Density

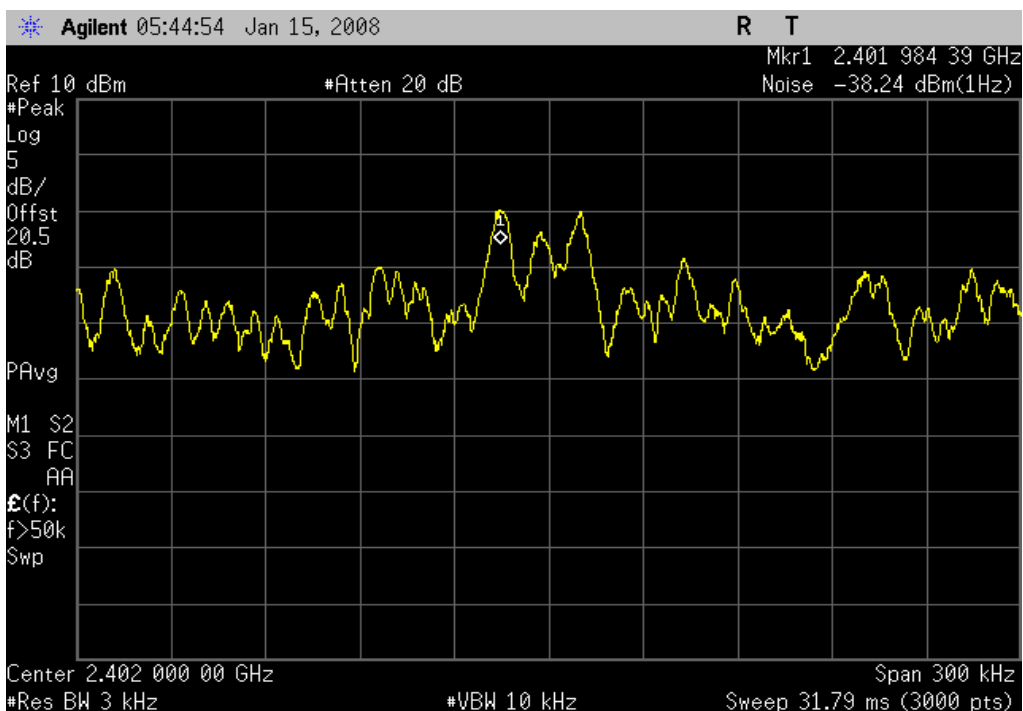
Bluetooth, GFSK, DH5, High channel, 2480MHz

**Result:** Pass      **Value:** -0.69 dBm / 3 kHz      **Limit:** 8 dBm / 3 kHz



Bluetooth, pi/4-DQPSK, 2DH5, Low channel, 2402MHz

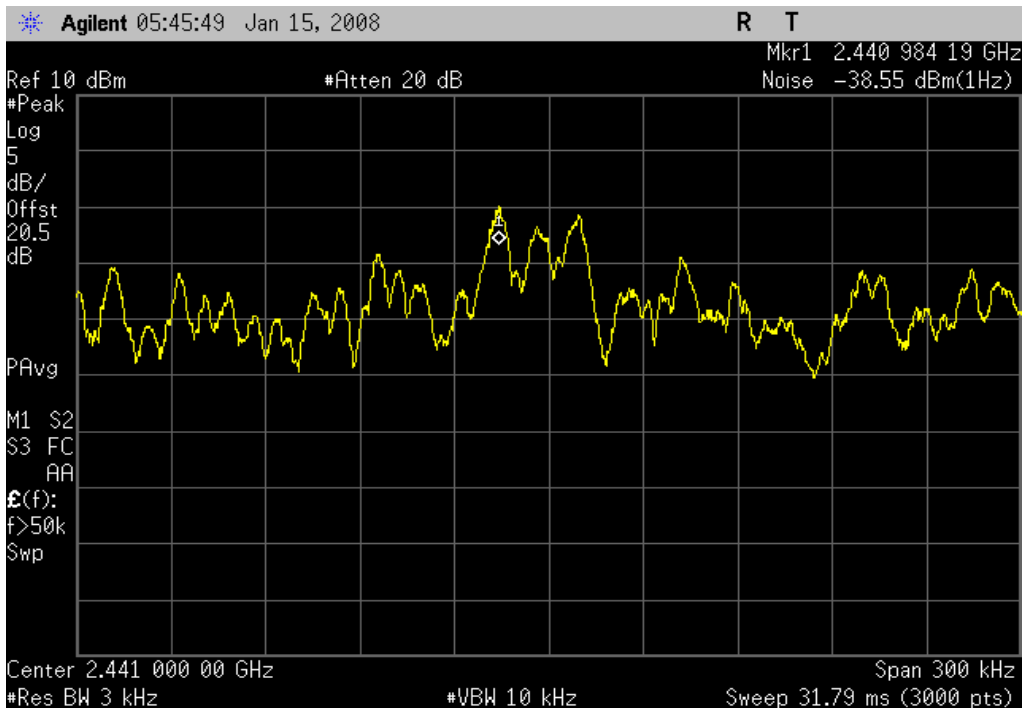
**Result:** Pass      **Value:** -3.44 dBm / 3 kHz      **Limit:** 8 dBm / 3kHz



# Power Spectral Density

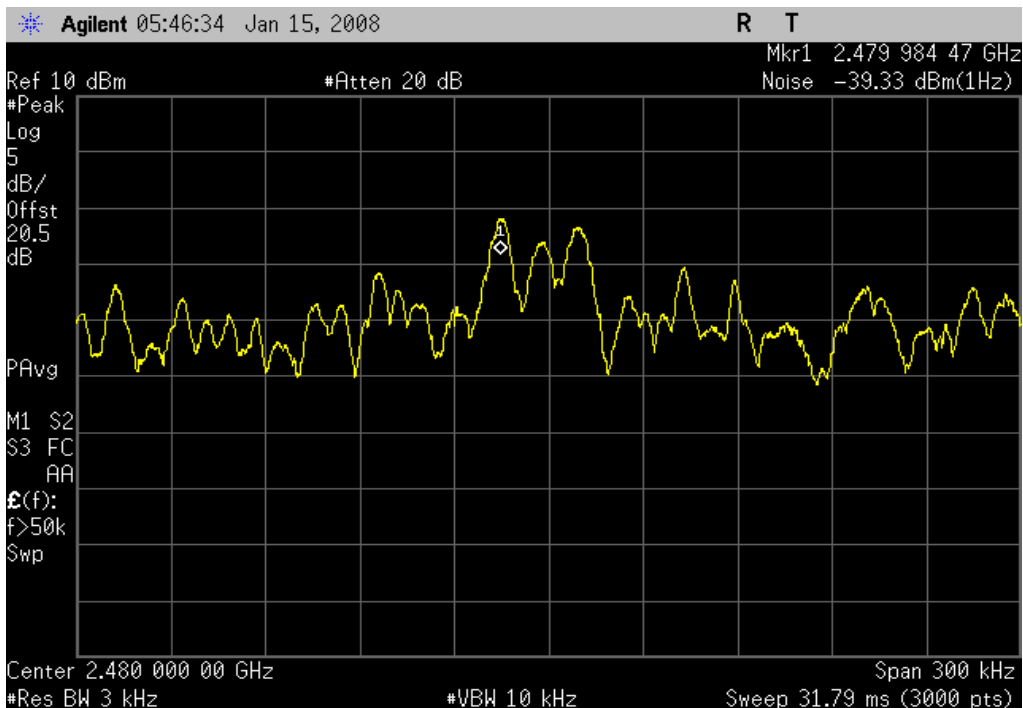
Bluetooth, pi/4-DQPSK, 2DH5, Mid channel, 2441MHz

**Result:** Pass      **Value:** -3.75 dBm / 3 kHz      **Limit:** 8 dBm / 3 kHz



Bluetooth, pi/4-DQPSK, 2DH5, High channel, 2480MHz

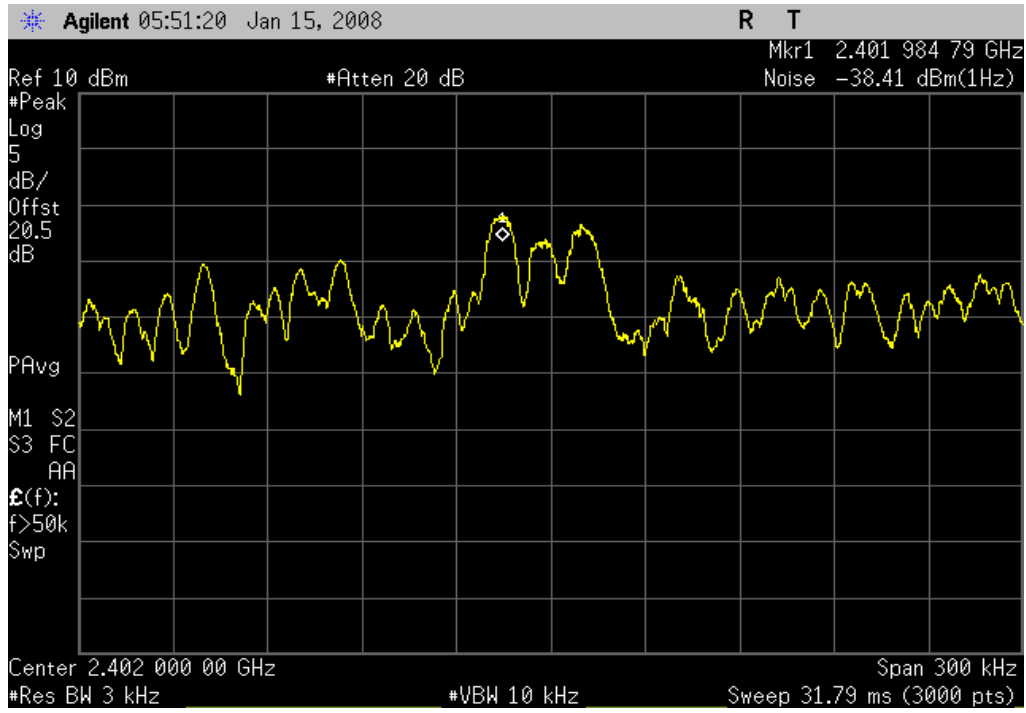
**Result:** Pass      **Value:** -4.53 dBm / 3 kHz      **Limit:** 8 dBm / 3 kHz



# Power Spectral Density

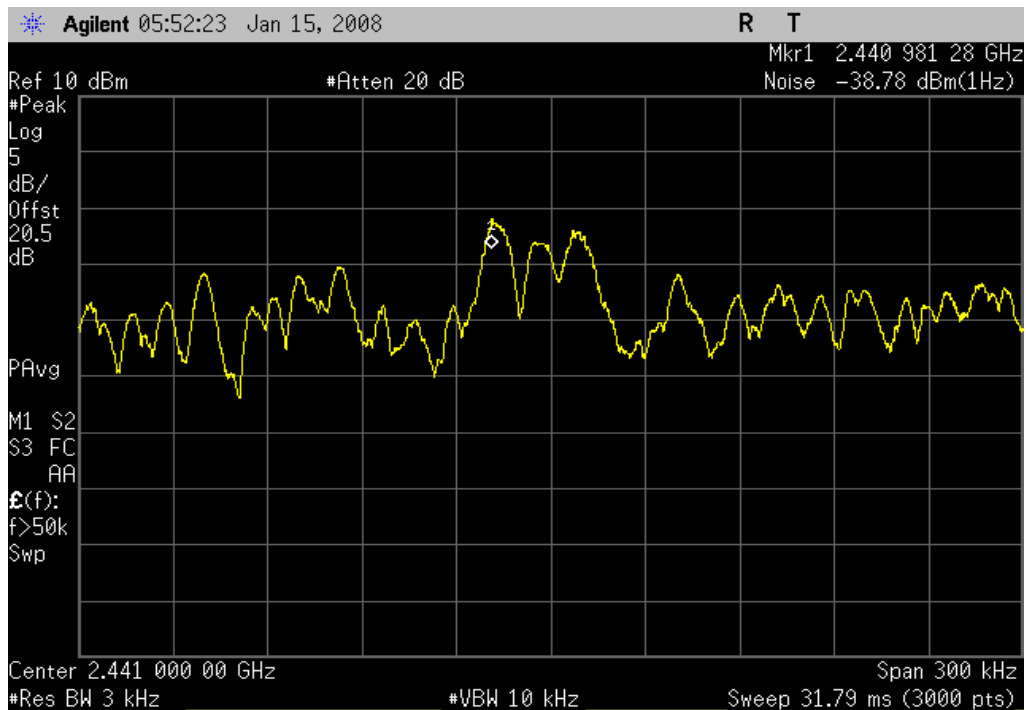
Bluetooth, 8DPSK, 3DH5, Low channel, 2402MHz

**Result:** Pass **Value:** -3.61 dBm / 3 kHz **Limit:** 8 dBm / 3 kHz



Bluetooth, 8DPSK, 3DH5, Mid channel, 2441MHz

**Result:** Pass **Value:** -3.98 dBm / 3 kHz **Limit:** 8 dBm / 3 kHz



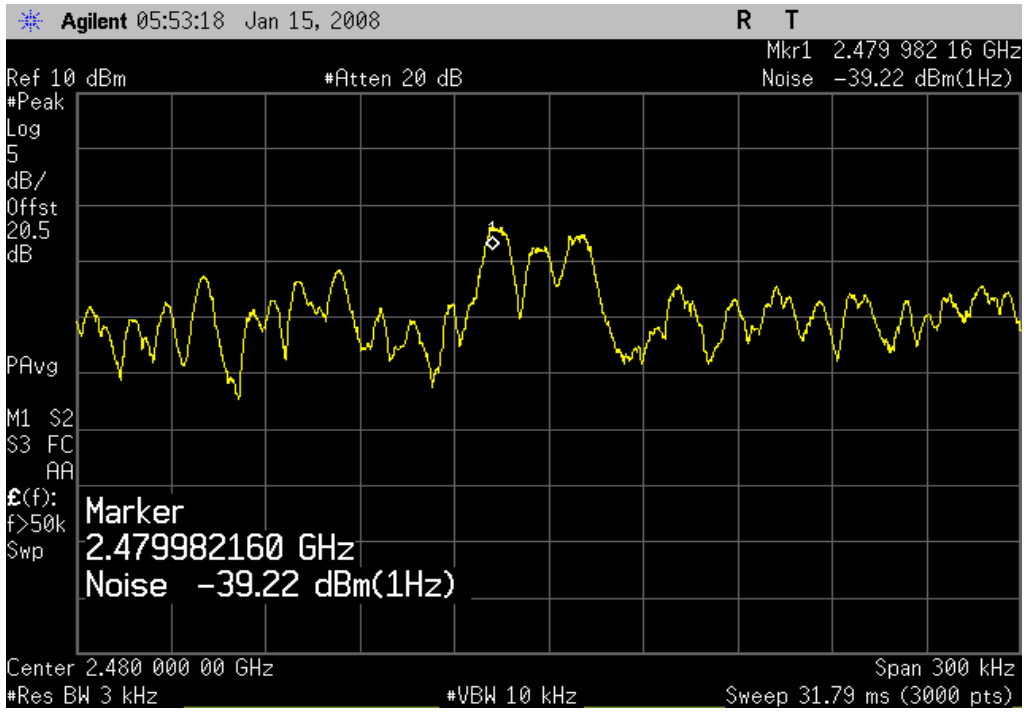
# Power Spectral Density

Bluetooth, 8DPSK, 3DH5, High channel, 2480MHz

**Result:** Pass

**Value:** -4.42 dBm / 3 kHz

**Limit:** 8 dBm / 3 kHz





# Power Spectral Density

